



STATE OF CONNECTICUT  
CONNECTICUT SITING COUNCIL

Ten Franklin Square  
New Britain, Connecticut 06051  
Phone: (860) 827-2935  
Fax: (860) 827-2950

August 3, 1999

Peter van Wilgen  
Director, Real Estate Operations  
SNET Wireless, Inc.  
500 Enterprise Drive  
Rocky Hill, CT 06067-3500

RE: TS-SCLP-142-990708 - Springwich Cellular Limited Partnership request for an order to approve tower sharing at an existing telecommunications facility located at 497 Old Post Road in Tolland, Connecticut.

Dear Mr. van Wilgen:

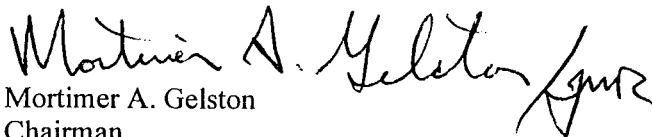
At a public meeting held July 29, 1999, the Connecticut Siting Council (Council) ruled that the shared use of this existing tower site is technically, legally, environmentally, and economically feasible and meets public safety concerns, and therefore, in compliance with General Statutes § 16-50aa, the Council has ordered the shared use of this facility to avoid the unnecessary proliferation of tower structures.

This facility has been carefully modeled to ensure that radio frequency emissions are conservatively below State and federal standards applicable to the frequency now used on this tower. Any additional change to this facility will require explicit notice to this agency pursuant to Regulations of Connecticut State Agencies Section 16-50j-73. Such notice shall include all relevant information regarding the proposed change with cumulative worst-case modeling of radio frequency exposure at the closest point 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.

The proposed-shared use is to be implemented as specified in your letter dated July 8, 1999. Please notify the Council when all work is complete.

Very truly yours,

  
Mortimer A. Gelston  
Chairman

MAG/RKE/tsg

cc: Timothy J. Tieperman, Town Manager, Town of Tolland  
Steve Kotfila, Site Development Manager, Sprint PCS

FILE  
COPY

TS-SCLP-142-990708



SNET Wireless, Inc.  
500 Enterprise Drive  
Rocky Hill, Connecticut 06067-3900  
Phone: (860) 513-7730  
Fax: (860) 513-7614

July 8, 1999

Peter W. van Wilgen  
*Director - Real Estate Operations*

RECEIVED

JUL - 8 1999

CONNECTICUT  
SITING COUNCIL

Mr. Mortimer A. Gelston, Chairman  
Connecticut Siting Council  
10 Franklin Square  
New Britain, CT 06051

**RE: Springwich Cellular Limited Partnership Request for an Order to Approve Tower Sharing at an Existing Telecommunications Facility located at 497 Old Post Road, Tolland Connecticut.**

Dear Chairman Gelston:

The following package contains a request from Springwich Cellular Limited Partnership (SCLP or applicant) to share an existing facility owned by Shannon Late d/b/a Connecticut Communication (Owner) and managed by Message Center Management, Inc. (MCM). This location has sometimes been referred to as the "Getchel Tower" and replaces SCLP's previous filing and subsequent withdrawal for the replacement of an existing tower on the Auclair property at 123 Reed Road in Tolland (TS-SCLP-142-980923).

Pursuant to Connecticut General Statute (CGS) §16-50aa, SCLP hereby requests an Order from the Connecticut Siting Council (Council) to approve the proposed shared use by the applicant of an existing facility located at the 497 Old Post Road in Tolland, Connecticut. SCLP proposes to install nine panel antennas on the tower and to locate its equipment in an existing 11 foot by 18 foot room located in the adjacent house. The applicant requests that the Council find that the proposed shared use of the existing tower facility satisfies the criteria stated in CGS §16-50aa and to issue an Order approving the proposed shared use.

### **Background**

SCLP is licensed by the Federal Communications Commission (FCC) to provide cellular telephone service within the State of Connecticut. The applicant, Owner, and MCM have agreed to the proposed shared use of the tower facility pursuant to mutually acceptable terms and conditions. As part of this agreement, the Owner has authorized SCLP to act on its behalf to apply for all necessary Federal, State, and local permits and approvals, including the instant Tower Sharing Request. The Council has previously approved similar tower sharing requests.

In August of 1998, MCM received all approvals from the Town of Tolland to remove an existing 150 foot AGL guyed-lattice type tower and replace it with a 150 foot AGL guyed-lattice type tower. The replacement tower has been completed and is awaiting the certificate of occupancy from the Town. The tenants on the "old" tower have been or will be relocated to the replacement tower. SCLP is proposing to co-locate on this replacement tower.

SCLP proposes to install nine Allgon Model 7120.16 antennas, approximately 52 inches in length, or their equivalent at a radiation center of 125 feet. The location of other antennas on the tower have been provided to SCLP by MCM and are shown in the attached site plan.

SCLP's radio transmission equipment will be located in an existing approximately 11 foot by 18 foot room located inside the adjacent house.

CGS §16-50aa states that, upon written request for approval of a proposed shared use the Council shall issue an Order approving such shared use if it finds that the proposed shared use of the facility is technically, legally, environmentally and economically feasible and meets public safety concerns.

### **Discussion**

The shared use of the MCM tower satisfies the criteria stated in CGS §16-50aa as follows:

A. Technical Feasibility. The site will allow SCLP to provide improved coverage to Interstate 84 and the Tolland area and will help in alleviating call traffic blocking from SCLP's existing adjacent sites. In addition, SCLP engineers have determined that the proposed antenna installations present minimal potential for interference to or from existing radio transmissions from this location. The proposed shared use therefore is technically feasible.

B. Legal Feasibility. Under CGS §16-50aa, the Council has been authorized to issue an Order approving the proposed shared use of a tower facility such as the MCM facility. This authority complements the Council's prior-existing authority under CGS §16-50p to issue Orders approving the construction of new towers that are subject to the Council's jurisdiction. This request is similar to past Tower Sharing Requests that the Council has approved.

C. Environmental Feasibility. The proposed shared use will have a minimal environmental effect for the following reasons:

- The proposed antenna and equipment installations will not cause a significant change or alteration in the physical and environmental characteristics of the existing site.
- The proposed equipment will be located inside an existing building. The proposed installations will not increase the noise levels at the existing facility by six decibels or more, will not violate any noise standards, and will not emit any noise other than from air conditioning equipment when in use.
- Operation of the additional antennas will not increase the total radio frequency electromagnetic radiation power density, measured at the tower base, to a level at or above applicable ANSI standards. Worst-case general population/uncontrolled exposure calculations for a point at the base of the tower in relation to operation of each of SCLP's and the other tower tenants antenna arrays are as follows:

	<u>Tx. Freq.</u> <u>(MHz)</u>	<u>Power</u> <u>(Watts)</u>	<u>Channels</u>	<u>Applicable</u> <u>ANSI Std.</u>	<u>Calculated</u> <u>Density</u>	<u>Percentage</u> <u>Worst-case of MPE</u>
SCLP (at 125 ft. AGL)	880-894	100	19	0.5867 mW/cm <sup>2</sup>	0.0487 mW/cm <sup>2</sup>	8.30
* Arch Comm. (at 87 ft. AGL)	454	250	1	0.3027 mW/cm <sup>2</sup>	0.0139 mW/cm <sup>2</sup>	4.59
* Sprint PCS (at 145 ft. AGL)	1962.5	122	11	1.0000 mW/cm <sup>2</sup>	0.0252 mW/cm <sup>2</sup>	2.52
* Paging Partners (at 100 ft. AGL)	929.6375	250	1	0.6198 mW/cm <sup>2</sup>	0.0041 mW/cm <sup>2</sup>	0.66
* Paging (at 147 ft. AGL)	450	100	1	0.3000 mW/cm <sup>2</sup>	0.0018 mW/cm <sup>2</sup>	0.60
<b>TOTAL</b>						<b>16.67</b>

\* Information necessary for the other tenant's power density calculations was provided by MCM. Other antennas shown on the attached drawing are receive only.

The collective worst-case general population/uncontrolled exposure would be 16.67 percent of the ANSI standard, as calculated for mixed frequency sites. Power density levels from shared use of the tower facility would thus be below applicable ANSI standards.

- The proposed installation will not require any water or sanitary facilities and will not produce air emissions from any combustion source. After construction is complete (approximately four weeks), the proposed

installation will not generate any traffic other than periodic maintenance visits.

Based upon the above information, SCLP believes that if approved, the proposed shared use will have a minimal environmental effect and is therefore environmentally feasible.

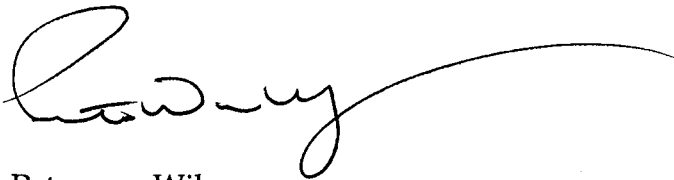
D. Economic Feasibility. As previously mentioned, the Owner, MCM, and the applicant have entered into a mutual agreement to share use of the existing tower facility on terms agreeable to the parties and is thus economically feasible.

E. Public Safety Concerns. The provision of new or improved cellular phone service in the Tolland area through shared use of the existing facility will enhance the safety and welfare of area residents.

### Conclusion

For the reasons discussed above, the proposed shared use of the MCM facility satisfies the criteria stated in CGS §16-50aa and advances the State's and the Siting Council's long-time goal of preventing the unnecessary proliferation of towers. The applicant therefore requests that the Siting Council issue an Order approving the proposed shared use. Thank you for your consideration of this matter.

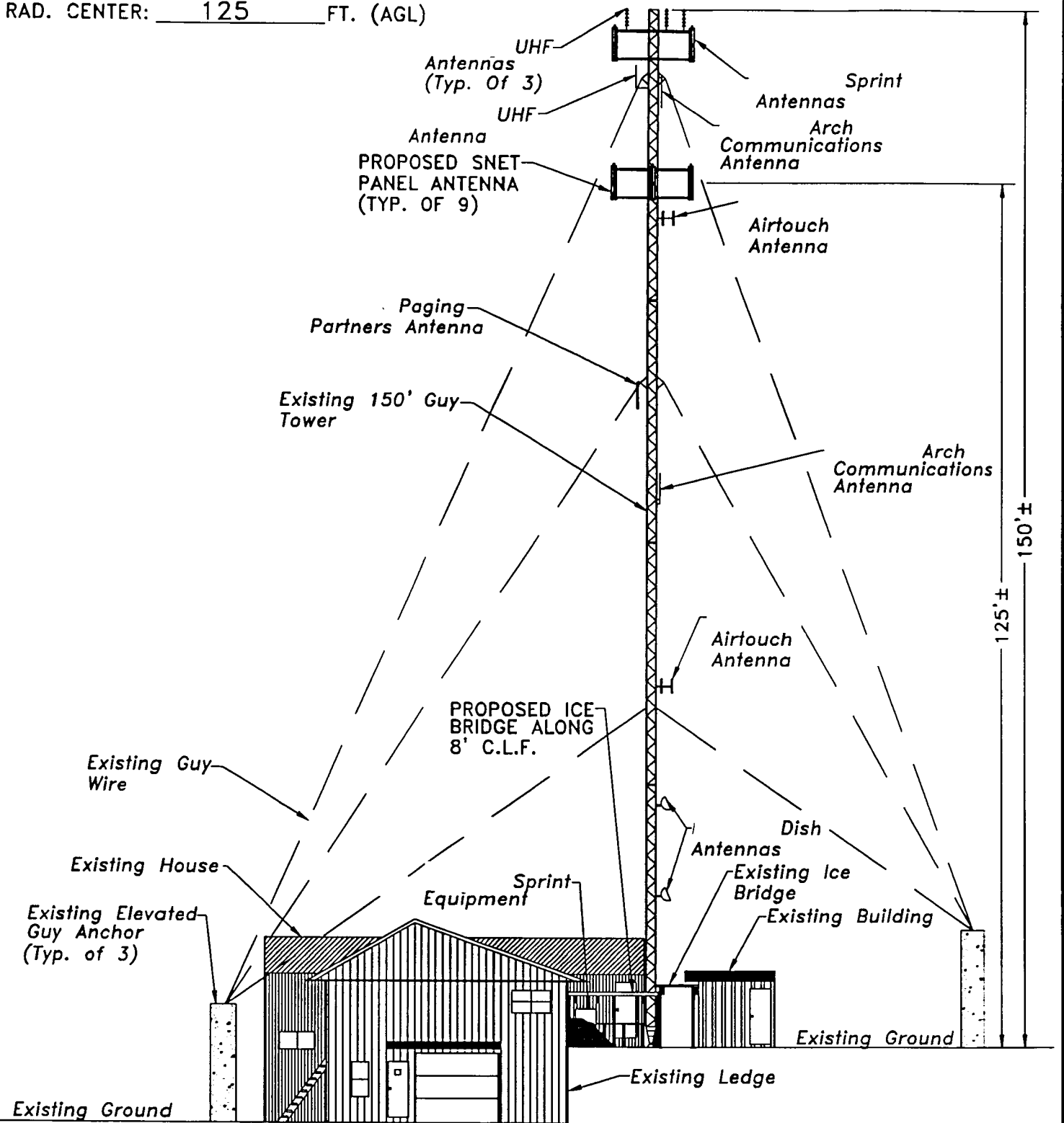
Very truly yours,

A handwritten signature in black ink, appearing to read 'Peter van Wilgen', with a long, sweeping horizontal line extending to the right.

Peter van Wilgen  
Director-Real Estate  
Attachments

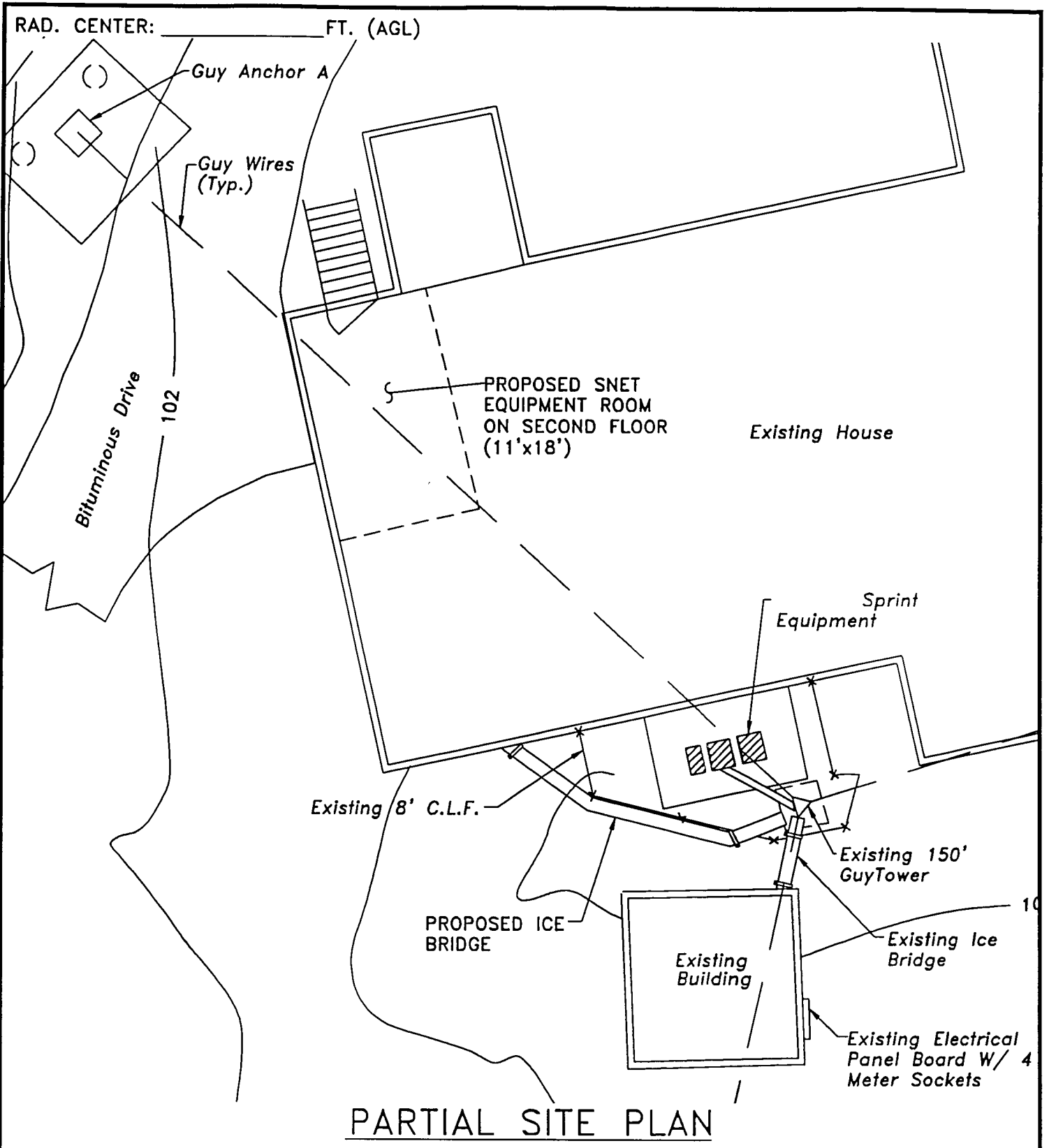
c: Richard Knight, Chair of the Town Council  
Timothy Tieperman, Town Manager  
Ronald Blake, Town Planner



RAD. CENTER: 125 FT. (AGL)



WEST ELEVATION VIEW

<p>SNET MOBILITY PRELIMINARY DESIGN EXHIBIT</p>	<p>NORTH</p>	<p>SITE NAME: GETCHEL TOWER</p>	<p>SNET #:</p>
		<p>ADDRESS: 497 OLD POST ROAD TOLLAND, CT 06084</p>	<p>MGI #: 14777</p>
		<p>DRAWN: MDJ   CHECKED: GMP   SCALE: N.T.S.</p>	<p>TASK #: 2039</p>
		<p>THIS DRAWING AND ALL DATA CONTAINED HEREIN IS FOR INFORMATIONAL PURPOSES ONLY. NOT INTENDED FOR DESIGN OR CONSTRUCTION USE. ALL DATA SHOULD BE VERIFIED</p>	<p>DATE: 6/9/99</p>
<p>Maguire Group Inc. Architects-Engineers-Planners One Court Street New Britain, Connecticut 06051</p>			



<b>SNET MOBILITY PRELIMINARY DESIGN EXHIBIT</b>	<b>NORTH</b> 	<b>SITE NAME: GETCHEL TOWER</b>		<b>SNET #:</b>
		<b>ADDRESS: 497 OLD POST ROAD TOLLAND, CT 06084</b>		<b>MGI #: 14777</b>
		<b>DRAWN: MDJ</b>	<b>CHECKED: GMP</b>	<b>TASK #: 2039</b>
		<b>SCALE: 1"=10'</b>		<b>DATE: 6/9/99</b>
 <b>Maguire Group Inc.</b> Architects · Engineers · Planners One Court Street New Britain, Connecticut 06051	THIS DRAWING AND ALL DATA CONTAINED HEREIN IS FOR INFORMATIONAL PURPOSES ONLY. NOT INTENDED FOR DESIGN OR CONSTRUCTION USE. ALL DATA SHOULD BE VERIFIED			