

Response to Department Review Comments, 800 W Oakton St.

1. Building Department - Deb Pierce, Plan Reviewer

*No comments at this time.*

1A. Building Department - Paul Butt, Director

*What is the antenna shroud going to be constructed of. Provide details.*

- Acknowledged. Verizon Wireless will provide details of the materials used to constructed the antenna shroud.

2. Public Works Department - Chris Papierniak, Assistant Director of Public Works

*N/A*

2A. Public Works Department - Jeff Musinski, Utilities Superintendent

*With regard to the proposed wireless antenna, I have the following comments:*

- 1) *The proposed contractor must contact Todd Horndasch of Arlington Heights Public Works (VAHPW) at 847-368-5800 to verify the following;*
  - a) *There must be no intermodulation issues with the existing spread spectrum radios and repeaters located at VAHPW facilities (specifically the Thomas Tank located at Thomas & Walnut).*
  - b) *There must be no "line of sight" issues between existing VAHPW radio locations and the proposed shroud for the wireless antenna.*
  - c) *The issues in 1) a. & 1) b. must be addressed before permits are issued for the proposed wireless antenna and shroud.*

- Acknowledged. Verizon Wireless will have the contractor contact Todd Horndasch to verify there will be no intermodulation issues and no "line of sight" issues as a result of the antenna shroud.

3. Engineering Department - Jim Massarelli, Director of Engineering

*No further comments at this time.*

4. Police Department – Brandi Romag, Crime Prevention Officer, Community Services Bureau

1. *Character of use: The character of use is consistent with the area and is not a concern.*

- No Response needed.

*2. Are lighting requirements adequate? Lighting should be up to Village of Arlington Heights code.*

- No Response needed.

*3. Present traffic problems? There are no traffic problems at this location.*

- No Response needed.

*4. Traffic accidents at particular location? This is not a problem area in relation to traffic accidents.*

- No Response needed.

*5. Traffic problems that may be created by the development. Nothing further.*

- No Response needed.

*6. General comments: Agent contact information must be provided to the Arlington Heights Police Department during all construction phases. Emergency contact cards can be filled out at the Village of Arlington Heights website (vah.com). This allows police department personnel to contact an agent during emergency situations or for suspicious/criminal activity on the property during all hours.*

- Acknowledged.

5. Health Services Department – Jeff Bohner, Environmental Health Officer and James McCalister, Director of Building and Health Services

*The project must fully comply with FCC regulations.*

- Acknowledged.

6. Planning and Community Development Department – Landscape

*Comments:*

- 1) Pursuant to Chapter 28, Section 6.15-5, identify the size of the two trees proposed for removal, the species, and condition. Replacement tree must be provided per the exchange rate outlined in Chapter 28, Section 6.15-5.4.*
- 2) Provide landscaping along the perimeter of the proposed screen wall.*

- Acknowledged.

## 6A. Planning and Community Development

7. *The property is zoned I, Institutional. The use is classified as an “Antenna-radio-telephone, and television receiving or transmitting antenna, Commercial structure and other electronic equipment requiring outdoor structures” which is permitted as a Special Use in the Institutional District.*

8. *The following variations are necessary:*

- a. *Chapter 28, Section 6.13 from the requirement that fences shall not exceed a height of five feet to allow eight feet eleven inches for the screen wall for the generator pad and to allow six foot fence for the equipment shelter. – Staff does not object to this variation as the generator pad and equipment shelter are located in the rear.*
- b. *Chapter 28, Section 6.12-1 from the requirement to provide a traffic study and parking analysis prepared by a qualified professional engineer – Staff does not object to this variation as the rooftop antenna will not have any impact on the parking and traffic circulation.*

9. *Along with the Special Use Criteria, the following standards are considered when determining whether approval of an application for a commercial antenna structure is in the public interest:*

- a. *The petitioner must demonstrate that there is not technically suitable space available on an existing tower or structure within the geographic area to be serviced.*
- As demonstrated by the aerial image showing Verizon Wireless’ Search Area and including existing towers, there were no existing towers within the Search Area required to meet Verizon Wireless’ RF needs. At the outset, Verizon Wireless’ Radio Frequency Engineer requested a centerline (CL) height of 100’ to meet the needs of the network. Once it was determined that it would not be possible to mount antennas at that height anywhere within the Search Area, RF accepted the current centerline of 65’ provided by the antennas being mounted on top of the existing penthouse. Verizon would be unable to mount antennas at the same centerline as the existing antennas (approximately 55’) due to interference. To mount antennas below the level of the existing antennas, which would provide an approximate centerline of 45’, would considerably degrade the coverage and capacity of the network, especially on the perimeter. Placing antennas at a centerline of 45’ would require Verizon to accept more than a 50% reduction from the initial centerline requirement of 100’ which is, ideally, what is needed for Verizon to meet its needs. As such, Verizon needs to be located above the penthouse, at a centerline of 65’, in order to maximize its ability to improve wireless

service in the vicinity. In terms of concealment, Verizon typically has two (2) options: 1) flush-mount antennas to an exterior wall and paint to match the existing exterior or 2) shield the antennas from view with a stealth enclosure (Verizon's current proposal). To utilize the first concealment option, Verizon would have to locate antennas at a lower centerline and did not explore that possibility due to the RF requirements mentioned above.

*b. A landscaping plan shall be submitted that demonstrates substantial screening of the antenna and related structures from adjacent land uses. Screening must consist of a well-maintained masonry wall of brickwork of stonework, solid wood fence, densely planted compact hedge or berm and hedge.*

- Acknowledged. Verizon Wireless will provide a landscaping plan.

*Provide a written response to the standards above.*

*10. The Staff Development Committee is not supportive of this request as they have concerns with the proliferation of the antennas at this site, as well as the proposed location of the antennas – sited higher than the elevator shaft/penthouse. As proposed, the antenna enclosure does not blend in with the existing architectural character of the building.*

*Has another location on this site where the antenna is not sited higher than the elevator shaft/penthouse been explored? Has any other concealment method been explored? Can the antennas be installed at the elevator shaft/penthouse level?*

- Please see answer to 9 a.

*11. Three trees are proposed to be removed – identify (species, condition and size) the trees to be removed. Replacement trees as required by the Ordinance must be provided.*

- Acknowledged. Verizon Wireless will comply with the Tree Preservation Ordinance and Landscape Plan Ordinance.

*12. Landscaping must be provided along the perimeter of the proposed screen wall.*

- Acknowledged. Verizon Wireless will provide landscaping along the perimeter of the proposed screen wall.

*13. Provide a letter from the property owner stating that they concur with having additional antennas on the building.*

- Acknowledged. Verizon Wireless will furnish the Village with a redacted copy of the executed lease agreement to demonstrate property owner

concurrency. If necessary, Verizon will provide a letter from the property owner stating that they concur with having additional antennas on the building.

*14. Provide a letter from the Northwest Central Dispatch indicating that the proposed frequencies are compatible with Village and other public and private telecommunication frequencies.*

- Acknowledged. Verizon Wireless will provide a letter from the Northwest Central Dispatch indicating that the proposed frequencies are compatible with Village and other public and private telecommunication frequencies.

*15. Provide a letter/documentation that demonstrates that the proposed antenna structures comply with all applicable FCC/EPA standards.*

- Acknowledged. Verizon Wireless will provide a letter/documentation that demonstrates that the proposed antenna structures comply with all applicable FCC/EPA standards.

#### 7. Fire Department

*Shroud and antenna should not interfere with any access points currently provided to the structure's roof.*

- Acknowledged. Verizon Wireless will ensure that the shroud and antenna will not interfere with any access points currently provided to the structure's roof.