

**ISSUE:** Certificate of Appropriateness for alterations

**APPLICANT:** Harbor Terrace of Old Town Condominium Unit Owners Associations.

**LOCATION:** Old and Historic Alexandria District  
551 Bashford Lane

**ZONE:** RA/Multifamily zone

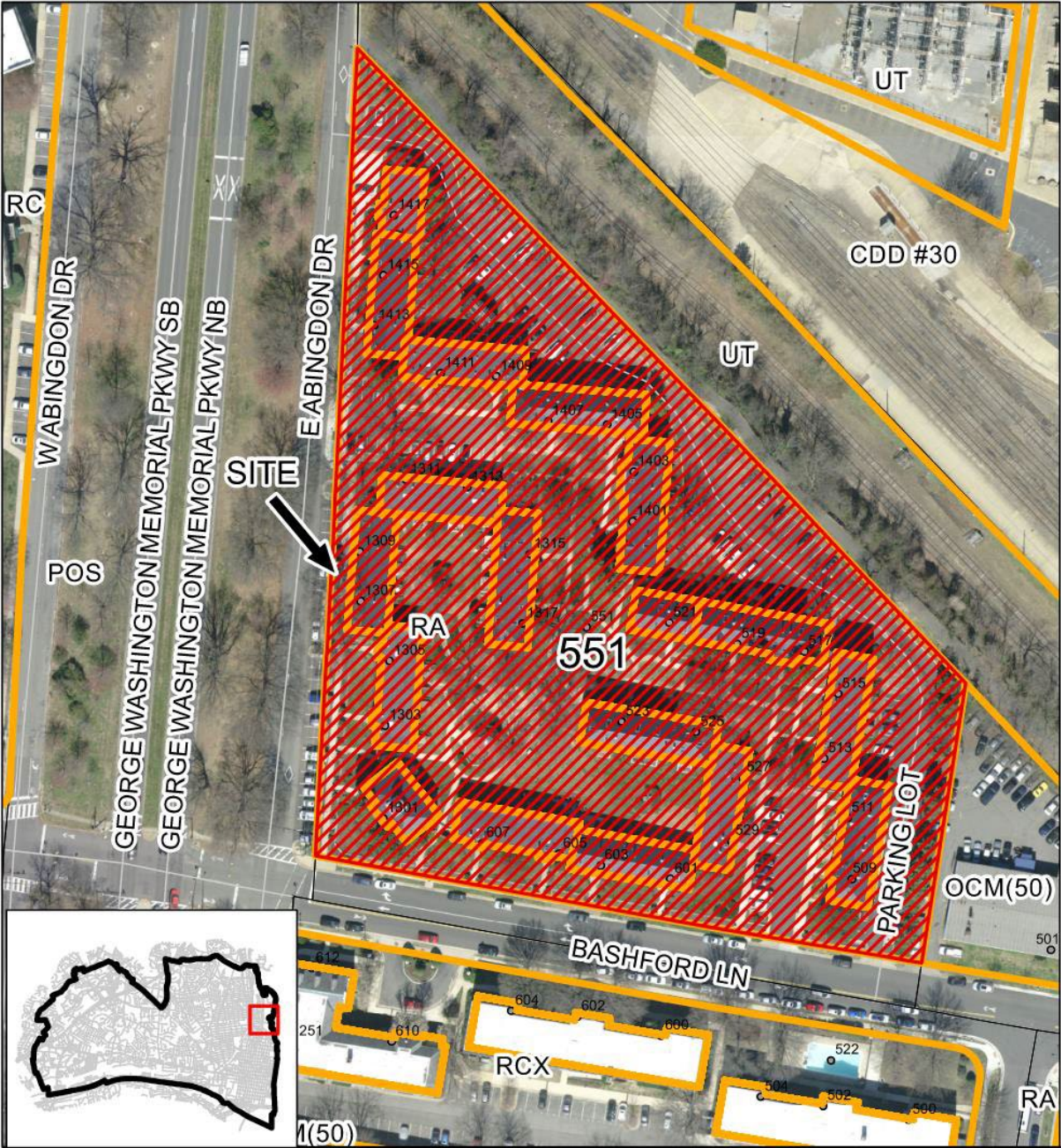
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**STAFF RECOMMENDATION**

Staff recommends approval of the Certificate of Appropriateness for alterations as submitted.

**GENERAL NOTES TO THE APPLICANT**

1. **APPEAL OF DECISION:** In accordance with the Zoning Ordinance, if the Board of Architectural Review denies or approves an application in whole or in part, the applicant or opponent may appeal the Board's decision to City Council on or before 14 days after the decision of the Board.
2. **COMPLIANCE WITH BAR POLICIES:** All materials must comply with the BAR's adopted policies unless otherwise specifically approved.
3. **BUILDING PERMITS:** Most projects approved by the Board of Architectural Review require the issuance of one or more construction permits by Department of Code Administration (including signs). The applicant is responsible for obtaining all necessary construction permits after receiving Board of Architectural Review approval. Contact Code Administration, Room 4200, City Hall, 703-746-4200 for further information.
4. **ISSUANCE OF CERTIFICATES OF APPROPRIATENESS AND PERMITS TO DEMOLISH:** Applicants must obtain a copy of the Certificate of Appropriateness or Permit to Demolish PRIOR to applying for a building permit. Contact BAR Staff, Room 2100, City Hall, 703-746-3833, or [preservation@alexandriava.gov](mailto:preservation@alexandriava.gov) for further information.
5. **EXPIRATION OF APPROVALS NOTE:** In accordance with Sections 10-106(B), 10-206(B) and 10-307 of the Zoning Ordinance, any Board of Architectural Review approval will expire 12 months from the date of issuance if the work is not commenced and diligently and substantially pursued by the end of that 12-month period.
6. **HISTORIC PROPERTY TAX CREDITS:** Applicants performing extensive, certified rehabilitations of historic properties may separately be eligible for state and/or federal tax credits. Consult with the Virginia Department of Historic Resources (VDHR) prior to initiating any work to determine whether the proposed project may qualify for such credits.



 **BAR#2024-00141**  
**551 Bashford Lane**

0 50 100 200 Feet

N

## I. APPLICANT'S PROPOSAL

The applicant requests a Certificate of Appropriateness to install a cooling tower with screening on a portion of the common area parking lot.

### Site context

The development is bounded by East Abingdon Drive to the west, Bashford Lane to the south, a car service facility to the east, and railroad tracks and public parkland to the northeast, creating a quasi-triangular lot. The proposed cooling tower will be visible from the railroad tracks and parkland to the northeast but will not be visible from any roadways, including the George Washington Memorial Parkway. See Figure 1 for site plan.

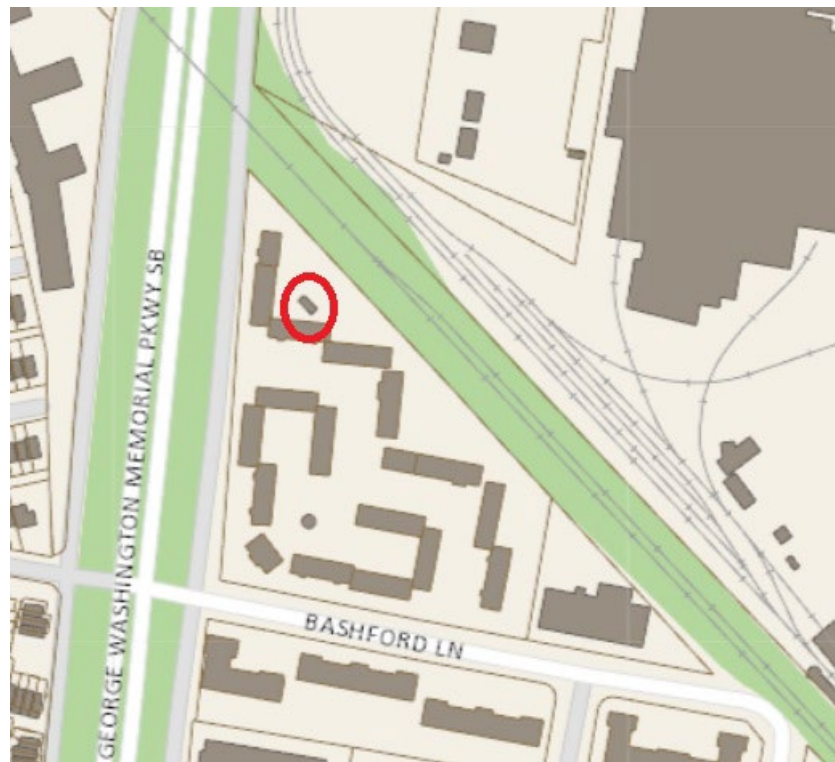


Figure 1: Site plan with cooling tower circled. PRGS to upper right.

## II. HISTORY

City records indicate that the Harbor Terrace complex was constructed circa **1943-44**, during a time when many Colonial Revival style garden apartment complexes were constructed in the City. The great rise of governmental and defense industry employment during that period necessitated an increase in housing. The 1941 Sanborn map supports this construction date, as it includes building outlines with the words “future apts,” and “not opened” roads. These tentative building outlines do not match what was actually built, but the 1959 Sanborn map does, and indicates that the buildings are cinderblock construction with brick facing. In 1981, via SUP #1362, City Council approved the conversion of the Harbor Terrace Apartments to condominiums.

*Previous BAR Approvals*

BAR2007-00252      12/6/2007      Approval to replace terra cotta coping with aluminum/metal coping on 7 flat-roofed buildings with brick parapet walls. The remaining buildings in the development have gable roofs.

**III. ANALYSIS**

The Harbor Terrace of Old Town Condominium Unit Owners Association would like to replace the existing cooling tower (Figures 2 and 3) with a new one. The location of the existing tower will be restored to common area open space. The new tower will take up three existing parking spaces in the common area, as the location of the existing tower is too close to a building. The cooling tower cannot be installed in the center of the community to the south as that would require re-piping the entire property, an expensive, time-consuming, and complicated process. It would also disrupt the landscaped communal area at the center of the complex. Instead, the proposed location will require minimal alterations and will not intrude on the open space. The Association has applied for a Special Use Permit to request a parking reduction from 166 spaces to 163 spaces. The community has 164 condominium units.



**Figure 2: Existing cooling tower**



**Figure 3: Existing cooling tower**

The applicant met with staff to discuss the project and received staff’s insights and support. The design of the new cooling tower will match the existing design, replicating the wooden screen. It will not be visible from Bashford Lane or E. Abingdon Drive. The only visibility from a public right of way is from the park along the railroad tracks bordering the northeast boundary of the community. See Figures 2 and 3. Besides illustrating the view of the enclosure from the public right of way, these figures indicate the numerous nearby decks and balconies which are very close to the existing tower. Moving the tower to the parking lot will give the residents some distance from the enclosure while also providing additional open space.

Section 10-105(A)(2)(c) of the Zoning Ordinance tasks the BAR with considering “Design and arrangement of buildings and structures on the site; and the impact upon the historic setting, streetscape or environs.” The new cooling tower will be placed so that it makes a minimal impact on the existing buildings on the site and the historic environs. The minimalist design and simple materials ensure that the structure will fade into the landscape and will neither intrude upon the setting nor become a glaring eyesore.

Staff therefore recommends approval of the project, as submitted.

**STAFF**

Susan Hellman, Historic Preservation Planner, Planning & Zoning  
Tony LaColla, AICP, Land Use Services Division Chief, Planning & Zoning

**CITY DEPARTMENT COMMENTS**

Legend: C- code requirement R- recommendation S- suggestion F- finding

**Zoning**

C-1 Proposed cooling tower and screening will comply with zoning.

C-2 Parking reduction to remove the three spots is being conducted as a minor site plan amendment.

**Code Administration**

C-1 No comment.

**Transportation and Environmental Services**

R-1 The building permit must be approved and issued prior to the issuance of any permit for demolition, if a separate demolition permit is required. (T&ES)

R-2 Applicant shall be responsible for repairs to the adjacent city right-of-way if damaged during construction activity. (T&ES)

R-3 No permanent structure may be constructed over any existing private and/or public utility easements. It is the responsibility of the applicant to identify any and all existing easements on the plan. (T&ES)

F-1 After review of the information provided, an approved grading plan is not required at this time. Please note that if any changes are made to the plan it is suggested that T&ES be included in the review. (T&ES)

F-2 If the alley located at the rear of the parcel is to be used at any point of the construction process the following will be required:

For a Public Alley - The applicant shall contact T&ES, Construction Permitting & Inspections at (703) 746-4035 to discuss any permits and accommodation requirements that will be required.

For a Private Alley - The applicant must provide proof, in the form of an affidavit at a minimum, from owner of the alley granting permission of use. (T&ES)

C-1 The applicant shall comply with the City of Alexandria's Solid Waste Control, Title 5, Chapter 1, which sets forth the requirements for the recycling of materials (Sec. 5-1-99). (T&ES)

C-2 The applicant shall comply with the City of Alexandria's Noise Control Code, Title 11, Chapter 5, which sets the maximum permissible noise level as measured at the property line. (T&ES)

C-3 Roof, surface and sub-surface drains be connected to the public storm sewer system, if available, by continuous underground pipe. Where storm sewer is not available applicant must provide a design to mitigate impact of stormwater drainage onto adjacent properties and to the satisfaction of the Director of Transportation & Environmental Services. (Sec.5-6-224) (T&ES)

- C-4 All secondary utilities serving this site shall be placed underground. (Sec. 5-3-3) (T&ES)
- C-5 Any work within the right-of-way requires a separate permit from T&ES. (Sec. 5-2) (T&ES)
- C-6 All improvements to the city right-of-way such as curbing, sidewalk, driveway aprons, etc. must be city standard design. (Sec. 5-2-1) (T&ES)

**Alexandria Archaeology**

- F-1 No Archaeology comments.

**V. ATTACHMENTS**

*1* – Application Materials

- Completed application
- Plans (included in application)
- Material specifications (included in application)
- Scaled survey plat (included in application)
- Harbor Terrace New CT Location
- Photographs (included in application)

*2* – Supplemental Materials

- Public comment if applicable
- HOA approval if applicable (Owners Assn approval included in application)
- Any other supporting documentation

BAR CASE# \_\_\_\_\_

ADDRESS OF PROJECT: Harbor Terrace of Old Town Condominium (OFFICE USE ONLY)

DISTRICT:  Old & Historic Alexandria  Parker – Gray  100 Year Old Building

TAX MAP AND PARCEL: 45.03 0B 00 ZONING: RA

APPLICATION FOR: *(Please check all that apply)*

- CERTIFICATE OF APPROPRIATENESS
- PERMIT TO MOVE, REMOVE, ENCAPSULATE OR DEMOLISH  
(Required if more than 25 square feet of a structure is to be demolished/impacted)
- WAIVER OF VISION CLEARANCE REQUIREMENT and/or YARD REQUIREMENTS IN A VISION CLEARANCE AREA (Section 7-802, Alexandria 1992 Zoning Ordinance)
- WAIVER OF ROOFTOP HVAC SCREENING REQUIREMENT  
(Section 6-403(B)(3), Alexandria 1992 Zoning Ordinance)

Applicant:  Property Owner  Business *(Please provide business name & contact person)*

Name: Harbor Terrace of Old Town Condominium Unit Owners Association\*

Address: 551 Bashford Lane

City: Alexandria State: Virginia Zip: 22314

Phone: 812 340 2957 E-mail: dlwelch1951@comcast.com

Authorized Agent *(if applicable)*:  Attorney  Architect  \_\_\_\_\_

Name: Duncan W. Blair, Attorney Phone: 703 836-1000

E-mail: dblair@landcarroll.com

Legal Property Owner:

Name: Harbor Terrace of Old Town Condominium Unit Owners Association\*

Address: 551 Bashford lane

City: Alexandria State: Virginia Zip: 22314

Phone: 812 340 2957 E-mail: dlwelch1951@comcast

\*Harbor Terrace of Old Town Condominium Unit Owners Association is an unincorporated Virginia condominium association. The members of the association are the owners of the 164 condominium units.



**NATURE OF PROPOSED WORK:** *Please check all that apply*

- NEW CONSTRUCTION
- EXTERIOR ALTERATION: *Please check all that apply.*
- |                                      |   |   |                                   |
|--------------------------------------|---|---|-----------------------------------|
| <input type="checkbox"/> awning      | <input type="checkbox"/> fence, gate or garden wall | <input checked="" type="checkbox"/> HVAC equipment  | <input type="checkbox"/> shutters |
| <input type="checkbox"/> doors       | <input type="checkbox"/> windows                    | <input type="checkbox"/> siding                     | <input type="checkbox"/> shed     |
| <input type="checkbox"/> lighting    | <input type="checkbox"/> pergola/trellis            | <input type="checkbox"/> painting unpainted masonry |                                   |
| <input type="checkbox"/> other _____ |   |   |                                   |
- ADDITION
- DEMOLITION/ENCAPSULATION
- SIGNAGE

**DESCRIPTION OF PROPOSED WORK:** *Please describe the proposed work in detail (Additional pages may be attached).*

The applicant is requesting a Certificate of Appropriateness to install a cooling tower and screening on a portion of the condominium's common area parking facility as shown on the attached surveys, plans and drawings.

The existing cooling tower and screening will be removed and the area will be restored to common area open space.

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**SUBMITTAL REQUIREMENTS:**

Check this box if there is a homeowner's association for this property. If so, you must attach a copy of the letter approving the project.

Items listed below comprise the **minimum supporting materials** for BAR applications. Staff may request additional information during application review. Please refer to the relevant section of the *Design Guidelines* for further information on appropriate treatments.

Applicants must use the checklist below to ensure the application is complete. Include all information and material that are necessary to thoroughly describe the project. Incomplete applications will delay the docketing of the application for review. Pre-application meetings are required for all proposed additions. All applicants are encouraged to meet with staff prior to submission of a completed application.

**Demolition/Encapsulation :** *All applicants requesting 25 square feet or more of demolition/encapsulation must complete this section. Check N/A if an item in this section does not apply to your project.*

- N/A
- Survey plat showing the extent of the proposed demolition/encapsulation.
  - Existing elevation drawings clearly showing all elements proposed for demolition/encapsulation.
  - Clear and labeled photographs of all elevations of the building if the entire structure is proposed to be demolished.
  - Description of the reason for demolition/encapsulation.
  - Description of the alternatives to demolition/encapsulation and why such alternatives are not considered feasible.

**BAR CASE#** \_\_\_\_\_

(OFFICE USE ONLY)

**Additions & New Construction:** Drawings must be to scale and should not exceed 11" x 17" unless approved by staff. Check N/A if an item in this section does not apply to your project.

- N/A Scaled survey plat showing dimensions of lot and location of existing building and other structures on the lot, location of proposed structure or addition, dimensions of existing structure(s), proposed addition or new construction, and all exterior, ground and roof mounted equipment.
- FAR & Open Space calculation form.
- Clear and labeled photographs of the site, surrounding properties and existing structures, if applicable.
- Existing elevations must be scaled and include dimensions.
- Proposed elevations must be scaled and include dimensions. Include the relationship to adjacent structures in plan and elevations.
- Materials and colors to be used must be specified and delineated on the drawings. Actual samples may be provided or required.
- Manufacturer's specifications for materials to include, but not limited to: roofing, siding, windows, doors, lighting, fencing, HVAC equipment and walls.
- For development site plan projects, a model showing mass relationships to adjacent properties and structures.

**Signs & Awnings:** One sign per building under one square foot does not require BAR approval unless illuminated. All other signs including window signs require BAR approval. Check N/A if an item in this section does not apply to your project.

- N/A Linear feet of building: Front: \_\_\_\_\_ Secondary front (if corner lot): \_\_\_\_\_
- Square feet of existing signs to remain: \_\_\_\_\_
- Photograph of building showing existing conditions.
- Dimensioned drawings of proposed sign identifying materials, color, lettering style and text.
- Location of sign (show exact location on building including the height above sidewalk).
- Means of attachment (drawing or manufacturer's cut sheet of bracket if applicable).
- Description of lighting (if applicable). Include manufacturer's cut sheet for any new lighting fixtures and information detailing how it will be attached to the building's facade.

**Alterations:** Check N/A if an item in this section does not apply to your project.

- N/A Clear and labeled photographs of the site, especially the area being impacted by the alterations, all sides of the building and any pertinent details.
- Manufacturer's specifications for materials to include, but not limited to: roofing, siding, windows, doors, lighting, fencing, HVAC equipment and walls.
- Drawings accurately representing the changes to the proposed structure, including materials and overall dimensions. Drawings must be to scale.
- An official survey plat showing the proposed locations of HVAC units, fences, and sheds.
- Historic elevations or photographs should accompany any request to return a structure to an earlier appearance.

**ALL APPLICATIONS:** *Please read and check that you have read and understand the following items:*

- I understand that after reviewing the proposed alterations, BAR staff will invoice the appropriate filing fee in APEX. The application will not be processed until the fee is paid online.
- I understand the notice requirements and will return a copy of the three respective notice forms to BAR staff at least five days prior to the hearing. If I am unsure to whom I should send notice I will contact Planning and Zoning staff for assistance in identifying adjacent parcels.
- I, the applicant, or an authorized representative will be present at the public hearing.
- I understand that any revisions to this initial application submission (including applications deferred for restudy) must be accompanied by the BAR Supplemental form and revised materials.

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The undersigned hereby attests that all of the information herein provided including the site plan, building elevations, prospective drawings of the project, and written descriptive information are true, correct and accurate. The undersigned further understands that, should such information be found incorrect, any action taken by the Board based on such information may be invalidated. The undersigned also hereby grants the City of Alexandria permission to post placard notice as required by Article XI, Division A, Section 11-301(B) of the 1992 Alexandria City Zoning Ordinance, on the property which is the subject of this application. The undersigned also hereby authorizes the City staff and members of the BAR to inspect this site as necessary in the course of research and evaluating the application. The applicant, if other than the property owner, also attests that he/she has obtained permission from the property owner to make this application.

**APPLICANT OR AUTHORIZED AGENT:**

Signature: \_\_\_\_\_

Duncan W. Blair, Attorney

Printed Name: \_\_\_\_\_

3 22 24

Date: \_\_\_\_\_

**Harbor Terrace of Old Town Unit Owner's Association  
Alexandria, Virginia**

March 29, 2024

Mr. Karl Moritz  
Director, Planning and Zoning  
City of Alexandria  
301 King Street  
Alexandria, Virginia 22314

Re: Harbor Terrace Condominium – Water Cooling Tower Replacement Project

Dear Mr. Moritz:

I am writing on behalf of the Harbor Terrace of Old Town Unit Owners Association (the "Association") regarding its application for a three (3) parking space reduction in the condominium's 166 surface parking facility.

To accommodate the installation of an efficient and safer cooling tower that is essential infrastructure for the provision of heating, cooling, and hot water to the 164 condominium the Association seeks approval. The location of the cooling tower is dictated by its proximity to the boiler room located in the building immediately to the east and the existing underground piping system distributing heat, cooling, and hot water to all 164 individual units.

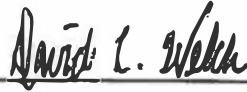
On March 4, 2024, the Association's Board of Directors unanimously approved the cooling tower replacement project and specifically its location and the need to remove three parking spaces.

The culmination of this Board decision was after forming a subcommittee of the Board of Directors last fall comprised of engineering, planning, and landscape experts who are unit owners of the Association. The subcommittee was led by the immediate past president of the Association. In addition, the Board retained an independent engineering firm for advice. The subcommittee, engineering firm, and the Board's decision are unanimous.

Notwithstanding the removal of the parking space, the remaining 163 parking spaces together with the available on-street parking on Bashford Lane adjacent to the condominium is more than sufficient to meet the needs of residential and guest parking.

Thank you for your consideration of our request.

Respectfully,

A handwritten signature in black ink that reads "David L. Welch". The signature is written in a cursive style and is positioned above a horizontal line.

---

DAVID L. WELCH, President  
Harbor Terrace Homeowners' Association  
1407 East Abingdon Drive, # 1  
Alexandria, Virginia 22314  
[dlwelch1951@comcast.net](mailto:dlwelch1951@comcast.net)  
Cell: (812) 340-2957

**OWNERSHIP AND DISCLOSURE STATEMENT**

Use additional sheets if necessary

1. Applicant. State the name, address and percent of ownership of any person or entity owning an interest in the applicant, unless the entity is a corporation or partnership, in which case identify each owner of more than three percent. The term ownership interest shall include any legal or equitable interest held at the time of the application in the real property which is the subject of the application.

Name	Address	Percent of Ownership
1. Harbor Terrace of Old Town Condominium Unit Owners Association	551 Bashford Lane, Alex. Va. 22314	100% as governing body of the Condominium
2.		
.		

2. Property. State the name, address and percent of ownership of any person or entity owning an interest in the property located at Harbor Terrace Condominium \_\_\_\_\_ (address), unless the entity is a corporation or partnership, in which case identify each owner of more than three percent. The term ownership interest shall include any legal or equitable interest held at the time of the application in the real property, which is the subject of the application.

Name	Address	Percent of Ownership
1. Harbor Terrace of Old Town Condominium Unit Owners Association	551 Bashford Lane, Alex. Va, 22314	100% as governing body of the Condominium
2.		
.		

3. Business or Financial Relationships. Each person or entity listed above (1 and 2), with an ownership interest in the applicant or in the subject property is required to disclose any business or financial relationship, as defined by Section 11-350 of the Zoning Ordinance, existing at the time of this application, or within the 12-month period prior to the submission of this application with any member of the Alexandria City Council, Planning Commission, Board of

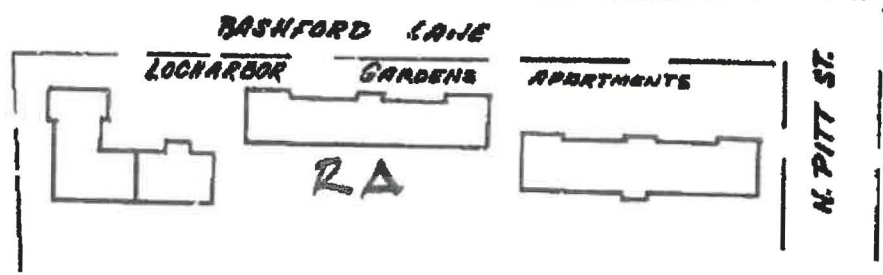
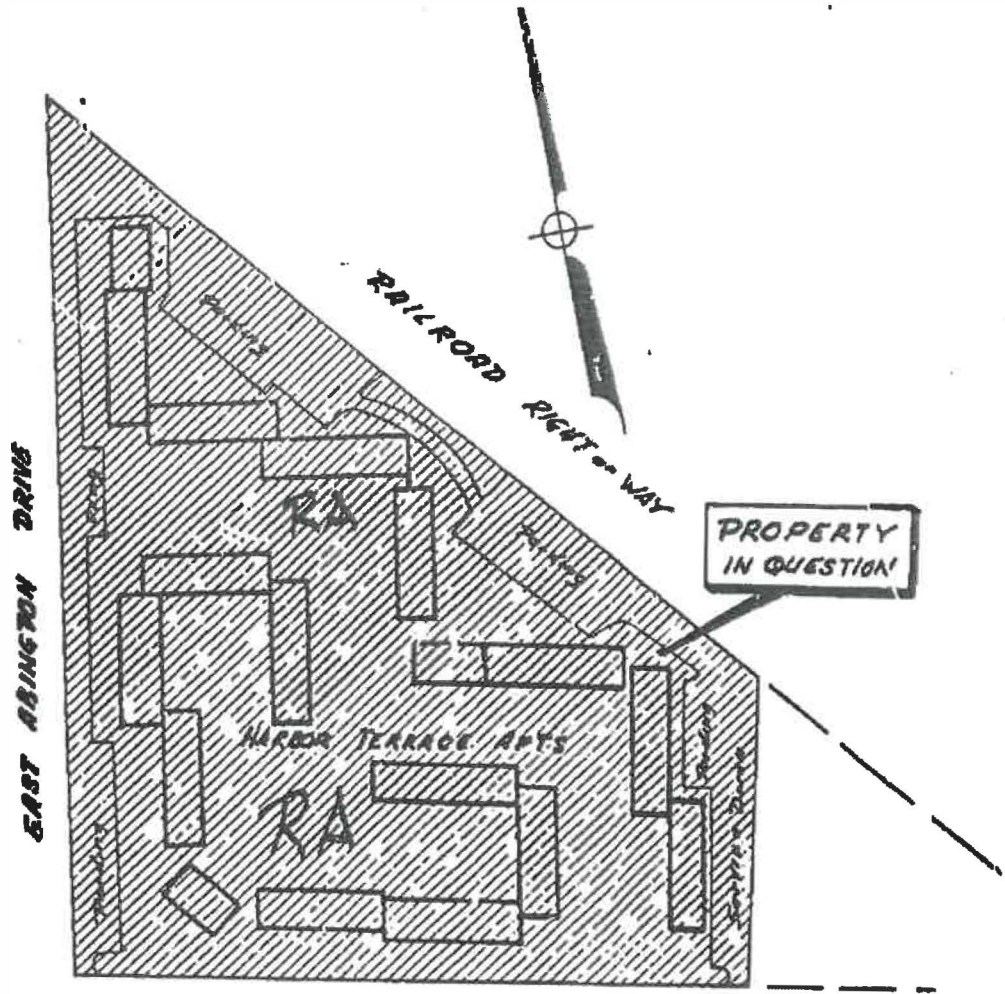
Name of person or entity	Relationship as defined by Section 11-350 of the Ordinance	Member of the Approving Body (i.e. City Council, Planning Commission, etc.)
1. Harbor Terrace of Old Town Condominium Unit Owners Association	NONE	
2.		
.		

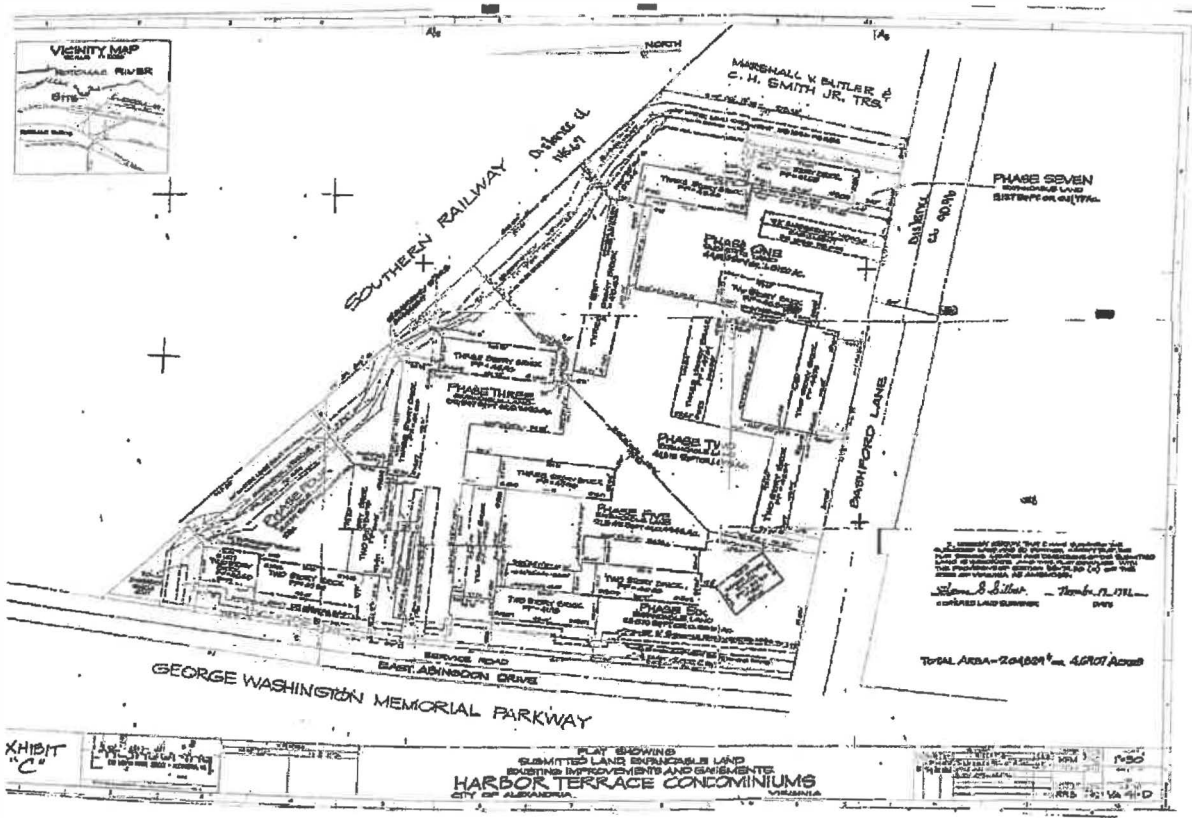
**NOTE: Business or financial relationships of the type described in Sec. 11-350 that arise after the filing of this application and before each public hearing must be disclosed prior to the public hearings.**

As the applicant or the applicant's authorized agent, I hereby attest to the best of my ability that the information provided above is true and correct.

2024      David L. Welch, President  
 Date                      Printed Name

*David L. Welch, President*  
 Signature









Existing conditions - screened water tower

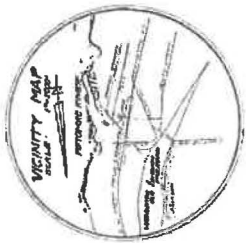


Existing conditions  
screened water tower



**NOTES:**

- The property shown on this plan is shown as approximately 10.0 acres, and is located in the City of Alexandria, Virginia.
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The 3 parking spaces shown in RED to be removed.

**GENERAL NOTES:**

- Check all dimensions and notes on this plan.
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APPROVED  
 BY: [Signature]  
 TITLE: [Title]  
 DATE: [Date]

80-053  
 Harbor Terrace  
 Alexandria, VA

**FINAL SITE PLAN**

**HARBOR TERRACE APARTMENTS**  
 ALEXANDRIA, VIRGINIA

Contract Owner & Developer  
 [Company Name]

DATE: 11/17/11  
 SCALE: 1/8" = 1'-0"  
 SHEET NO. 1 OF 1

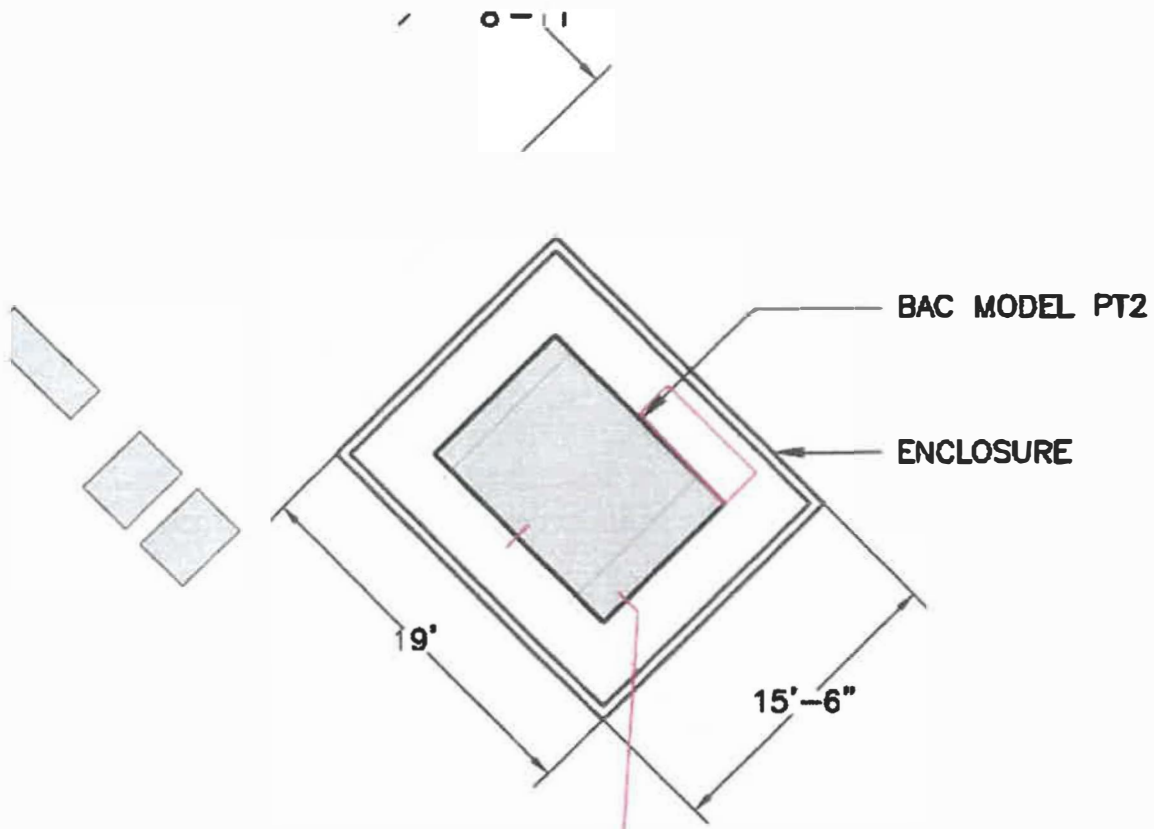
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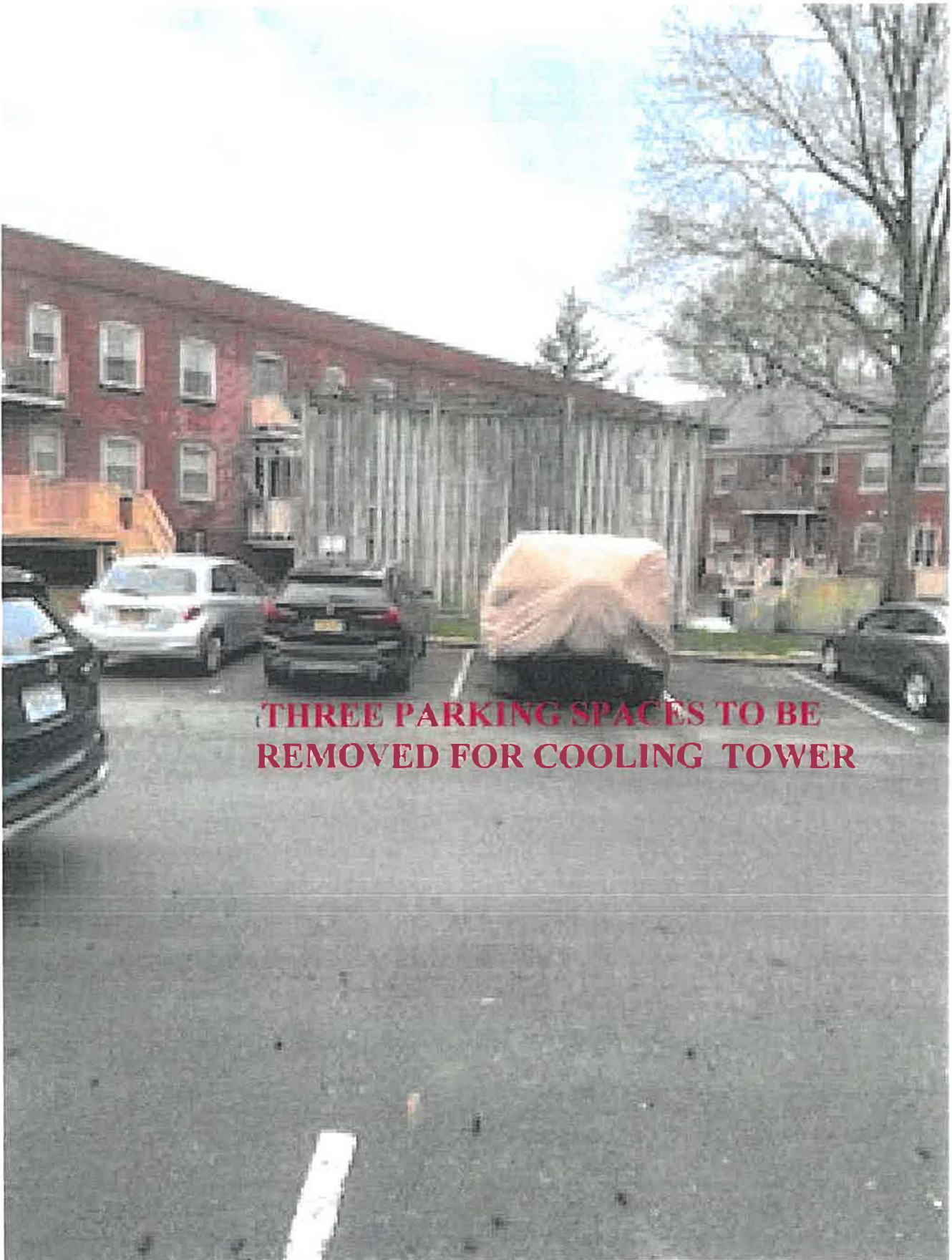
Schematic Plan of location and size of new water tower and screening

Thanks,

**Matthew Rozek, E.I.T.**  
**Mechanical Engineer**



18310 Montgomery Village Avenue  
 Gaithersburg, MD 20879  
 Office: 301-869-6446  
 Fax: 301-869-8376  
[mrozek@trc-engineering.com](mailto:mrozek@trc-engineering.com)



**THREE PARKING SPACES TO BE  
REMOVED FOR COOLING TOWER**



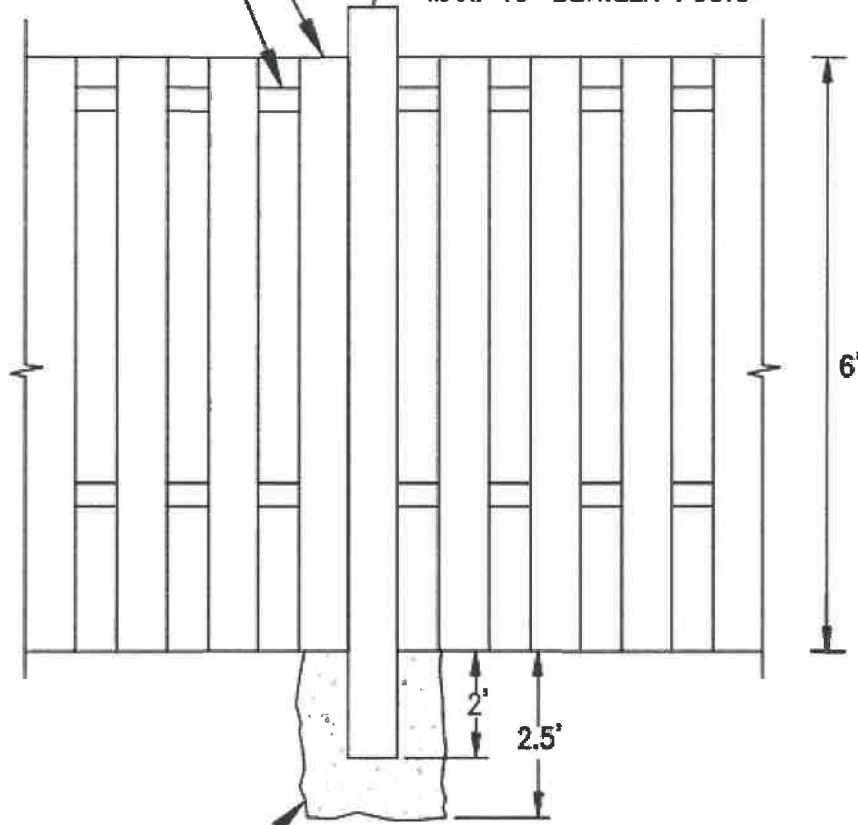
The existing wooden screen shown above will be replicated in design to screen the new cooling tower located in the three parking spaces.

1"X6" BOARD (TYP)

2"X6" BOARD (TYP)

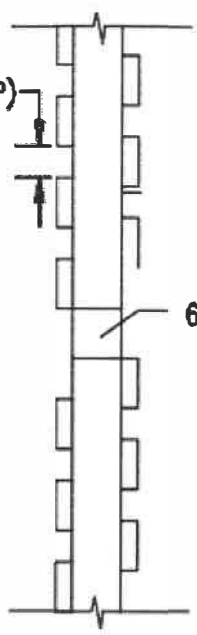
6"X6" POST  
MAX. 10' BETWEEN POSTS

1"X6"



4" (TYP)

6'

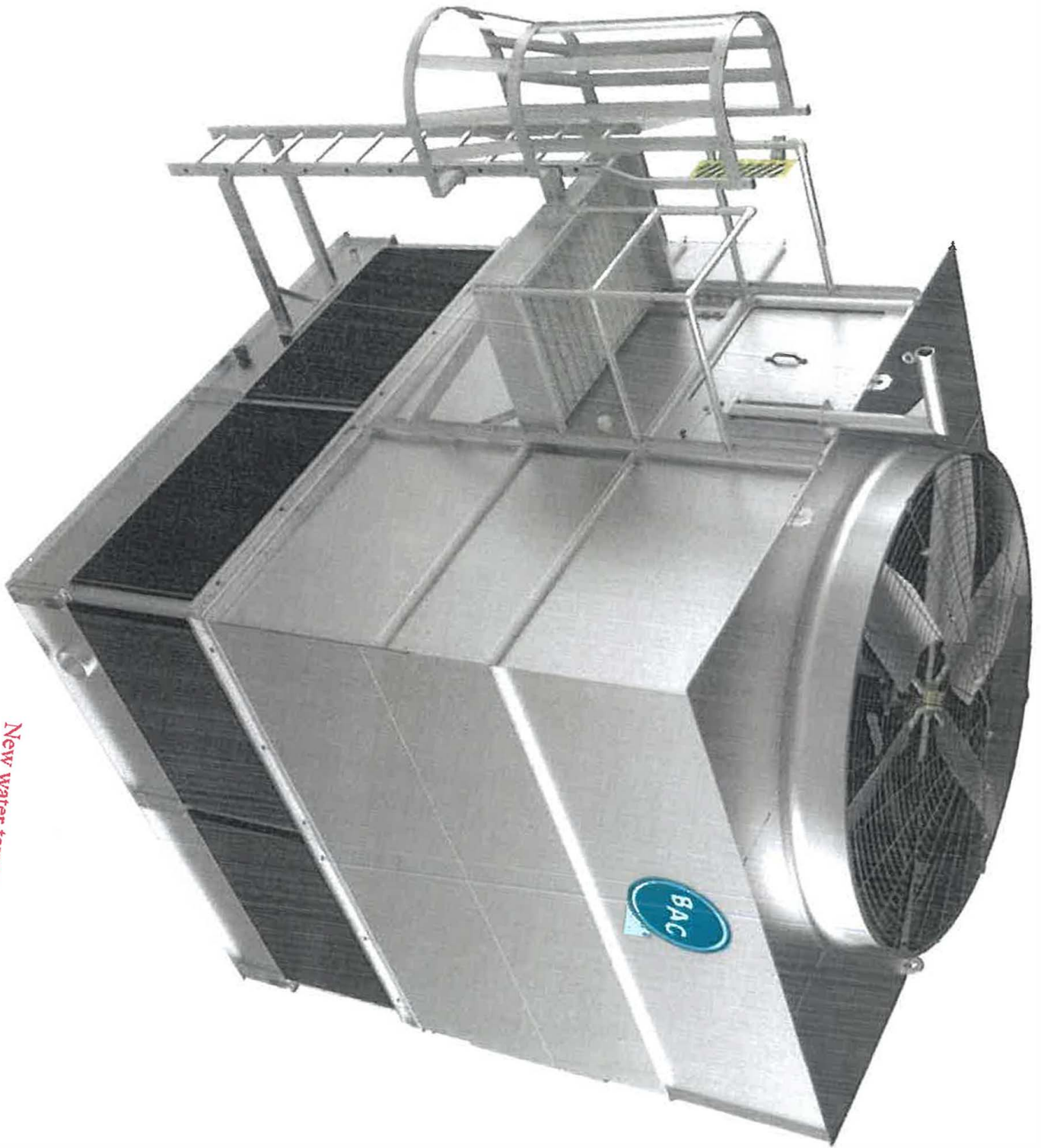


PLAN VIEW

CLASS A-3 CONCRETE

FENCE DETAIL  
NOT TO SCALE

*New water tower*







**Baltimore Aircoil Company**  
**Cooling Tower Selection Report**

Version: 8.11.19 NA  
 Product data correct as of: May 17, 2023

Project Name: Harbor Terrace Condominiums  
 Selection Name: WQ Fan Selection  
 Project State/Province: Maryland  
 Project Country/Region: United States  
 Date: October 17, 2023

**Model Information**

Product Line: PT2  
 Model: PT2-0812A-2L1  
 Number of Units: 1  
 Fan Type: Whisper Quiet Fan  
 Fan Motor: (1) 15.00 = 15.00 HP/Unit  
 Total Standard Fan Power: Full Speed, 15.00 BHP/Unit  
 Intake Option: Water Silencers  
 Internal Option: None  
 Discharge Option: None

**Design Conditions**

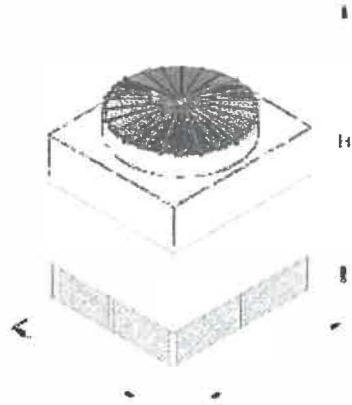
Flow Rate: 820.00 USGPM  
 Hot Water Temp.: 95.00 °F  
 Cold Water Temp.: 85.00 °F  
 Wet Bulb Temp.: 78.00 °F  
 Heat Rejection: 4,098,360 BTUH  
 Tower Pumping Head: 5.05 psi  
 Static Lift: 3.58 psi  
 Spray Pressure: 1.47 psi  
 Tower Heat Rejection: 4,124,687 BTUH  
 Reserve Capability: 0.64 %

Thermal performance at design conditions and standard total fan motor power is certified by the Cooling Technology Institute (CTI).

**Engineering Data, per Unit**

Unit Length: 11' 11.75"  
 Unit Width: 08' 05.75"  
 Unit Height: 14' 05.00"  
 Air Flow: 65,744 CFM  
 Approximate Shipping Weight: 4,770 pounds  
 Heaviest Section: 3,450 pounds  
 Approximate Operating Weight: 8,900 pounds  
 Heater kW Data (Optional)  
 0°F (-17.8°C) Ambient Heaters: (1) 10 kW  
 -20°F (-28.9°C) Ambient Heaters: (1) 12 kW

Minimum Distance Required for Single Unit:  
 (For multiple units, refer to Layout Guidelines)  
 From Solid Wall: 3 ft.  
 From 50% Open Wall: 3 ft.



**Energy Rating:**

66.60 USGPM/HP per ASHRAE 90.1, ASHRAE 189 and CA Title 24.

Note: These unit weights and dimensions account for the selected fan type for the standard cataloged drive configuration, but they do not account for other options/accessories. Please contact your local BAC sales representative for weights and dimensions of units with other options/accessories.



**Baltimore Aircoil Company**  
**Cooling Tower Selection Report**

Version: 8.11.19 NA  
 Product data correct as of: May 17, 2023

Project Name: Harbor Terrace Condominiums  
 Selection Name: WQ Fan Selection  
 Project State/Province: Maryland  
 Project Country/Region: United States  
 Date: October 17, 2023

**Model Information**

Product Line: PT2  
**Model: PT2-0812A-2L1**  
 Number of Units: 1  
 Fan Type: **Whisper Quiet Fan**  
 Fan Motor: (1) 15.00 = 15.00 HP/Unit  
 Total Standard Fan Power: Full Speed, 15.00 BHP/Unit

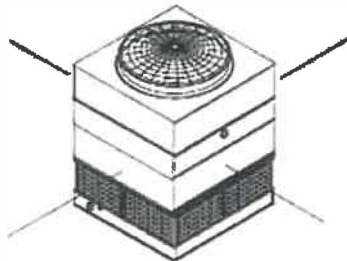
Intake Option: Water Silencers  
 Internal Option: None  
 Discharge Option: None

Octave band and A-weighted sound pressure levels (Lp) are expressed in decibels (dB) reference 0.0002 microbar. Sound power levels (Lw) are expressed in decibels (dB) reference one picowatt. Octave band 1 has a center frequency of 63 Hertz.

Top Sound Pressure (dB)		
Octave Band	Distance	
	5 ft.	50 ft.
1	72	62
2	69	60
3	65	56
4	67	55
5	67	55
6	64	51
7	65	50
8	63	50
A-wgtd	72	59

Motor Side Sound Pressure (dB)		
Octave Band	Distance	
	5 ft.	50 ft.
1	74	67
2	70	59
3	65	53
4	65	54
5	64	52
6	61	50
7	61	49
8	61	48
A-wgtd	70	58

Air Inlet Sound Pressure (dB)		
Octave Band	Distance	
	5 ft.	50 ft.
1	71	65
2	70	58
3	65	53
4	65	53
5	64	53
6	60	50
7	60	49
8	60	48
A-wgtd	69	58



Air Inlet Sound Pressure (dB)		
Octave Band	Distance	
	5 ft.	50 ft.
1	71	65
2	70	58
3	65	53
4	65	53
5	64	53
6	60	50
7	60	49
8	60	48
A-wgtd	69	58

Side Opposite Motor Sound Pressure (dB)		
Octave Band	Distance	
	5 ft.	50 ft.
1	73	68
2	69	60
3	65	53
4	68	55
5	66	53
6	63	51
7	62	50
8	62	48
A-wgtd	71	59

Total Sound Power (dB)		
Octave Band	Center Frequency (Hertz)	Lw
1	63	96
2	125	93
3	250	88
4	500	87
5	1000	87
6	2000	83
7	4000	83
8	8000	82
A-wgtd		92

**Note:** The use of frequency inverters (variable frequency drives) can increase sound levels.  
**Extra Notes:** Sound data provided by CTI ATC-128 sound test code revision 2019



# 2024 City of Alexandria Business License

Finance Department, Revenue Administration Division, City of Alexandria  
301 King Street, Room 1700, Alexandria, VA 22314  
Phone: 703.746.4800 <http://www.alexandriava.gov/>

**License Number:** 110827-2024  
**Account Number:** 110827  
**Tax Period:** 2024  
**Business Name:** Land, Carroll & Blair PC  
**Trade Name:** Land, Carroll & Blair PC  
**Business Location:** 524 KING ST  
Alexandria, VA 22314

LAND, CARROLL & BLAIR PC  
524 KING ST  
Alexandria, VA 22314-3104

**License Classification(s):**  
Professional Occupations/Businesses  
9-071-007  
Attorney-At-Law

January 23, 2024

Dear Taxpayer:

This is your 2024 City of Alexandria Business License. The bottom portion of this page is perforated to allow you to tear off and post the business license in your establishment.

If you paid for your business license via check, please be aware that if your check is not honored by your financial institution, this business license shall be invalid.

As with all taxes, our goal is to administer Business License taxes fairly and in accordance with Commonwealth and Locality code. Our staff strives to provide professional assistance and quality customer service. Your satisfaction is important to us and your comments are always welcome.

If you have any questions regarding this letter, please visit <http://www.alexandriava.gov/> or contact my office via phone at 703.746.4800.

Finance Department, Revenue Administration Division, City of Alexandria

*Keep this letter for your records.*

## City of Alexandria Business License

Revenue Administration Division, City of Alexandria, 301 King Street, Room 1700, Alexandria, VA 22314



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**Business Name:** Land, Carroll & Blair PC  
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**Business Location:** 524 KING ST  
Alexandria, VA 22314

**This license has been issued by the Revenue Administration Division of the City of Alexandria and is granted to:**

Land, Carroll & Blair PC  
524 KING ST  
Alexandria, VA 22314

**License Classification(s):** Professional Occupations/Businesses  
9-071-007  
Attorney-At-Law