

**AGENDA**  
**Glen Ellyn Architectural Appearance Commission**  
**Wednesday, April 12, 7:00 p.m.**  
Glen Ellyn Civic Center  
Galligan Board Room  
535 Duane Street



1. **Call to Order.**
2. **Approval of Draft Minutes.**
  - March 8, 2023, Architectural Appearance Commission Meeting Minutes
3. **Public Comment (non-agenda items).**
4. **Exterior Appearance Reviews.**
  - **525 S. Park Blvd.-** Exterior Appearance Review for the Willowbrook Wildlife Center, New outdoor animal enclosures, building renovations, and related sitework.
5. **Trustee's Report.**
6. **Chairman's Report.**
7. **Staff Report.**
8. **Other Business and Adjourn.**

Dear Petitioner(s) and Interested Citizens:

Once an Exterior Appearance request has been reviewed by the Architectural Appearance Commission, the commission may make a recommendation and minutes of the meeting are prepared. Then, the petition, along with the summary report and all pertinent material, is scheduled for consideration by the Village Board. The Village Board meets on the second and fourth Mondays of each month at 7:00 p.m. in a meeting room on the third floor of the Civic Center, 535 Duane Street. Questions regarding petitions scheduled for review by the Village Board should be directed to the Community Development Department at (630) 547-5250.

Individuals with disabilities who plan to attend the hearing and who require certain accommodations in order to allow them to observe and participate, or who have questions regarding the accessibility of the meeting or facilities, are requested to contact the Village at least 24 hours before the meeting.

cc: Architectural Appearance Commission  
Anne Gould, Trustee Liaison  
Mark Franz, Village Manager  
Emily Rodman, Assistant Village Manager

Martin Scott, Community Development Director  
Brad Iwicki, Planning Intern  
Meredith Hannah, Economic Development Manager  
Brian Baltudis, Facilities Manager  
Barbara Dutton Thomas, Plan Commission Secretary  
Lori Gloude, Executive Assistant

**DRAFT MINUTES**  
**ARCHITECTURAL APPEARANCE COMMISSION MEETING**  
**March 8, 2023**

**Call to Order and Roll Call**

Chairperson Jacobson called the meeting to order at 7:00 p.m., and roll was called. In addition to the Chairperson, Commissioners Albrecht, Goranov, Mees, Rahn and Sallwasser were present. Commissioner Smith was absent.

**Approval of Meeting Minutes**

A motion to accept the minutes of the December 14, 2022 passed by voice vote following a second by Commissioner Rahn of a motion by Commissioner Albrecht, who requested it be made known that façade options had been sent post-meeting to Architectural Appearance Commission (AAC) members to vote on. Senior Planner Fard said the action was reflected in the Village Board packet, and confirmed that the Petition was approved (with the stipulation).

**Staff Report**

Village Sr. Planner Fard related that the AAC liaison, Derek Rockwell, left the employ of the Village, so she is back to performing the role, but that, as of now, she has no projects for review at the next meeting.

**Exterior Appearance Review: 411 N. Main Street**

**Staff Presentation**

Village Planning Intern Brad Iwicki said the Petitioner, Brick and Mortar, a shared co-working office space represented by Adam Clabaugh and Andrew Nast, are accompanied this evening by project designer Sarah Gosling. The Petitioner, continued Mr. Iwicki, is requesting approval of the Exterior Appearance Review to accommodate the exterior façade remodel of the existing building. The subject property is in the South Historic District in the C5A Central Retail Core Subdistrict, he said. The Petitioner submitted a Special Use Permit (SUP) application and text amendment in March 2021, said the Intern, adding that the Plan Commission unanimously recommended approval, followed by the Village Board approving the request by a roll call vote of 5-1 in May 2021. The building permits were approved in May 2022, with the condition that no exterior façade work be allowed until the Exterior Appearance approval is granted, he said. On Sept. 9, 2022, continued Mr. Iwicki, Staff was notified that the first-floor façade was removed and boarded over, while the second-floor portion of the façade was remained untouched. The Village, he related, stopped all work on the site since the demolition went beyond the approved scope. The business owners, stated Mr. Iwicki, assured the Village that they would file for an Exterior Appearance Review application with the AAC. The Village, related Mr. Iwicki, allowed the remainder of the interior work to continue, and on Sept. 16, 2022, the Petitioner officially filed an application for the Exterior Appearance Review. The AAC, noted the Intern, reviewed this project on two occasions: Oct. 12, 2022 and Nov. 9, 2022.

On Oct. 12<sup>th</sup>, the original proposal was to remove all the façade on the building's frontage, replace all windows and doors, install new light fixtures, and resurface the south and east elevations, related Mr. Iwicki. The Petitioner, he said, intended to maintain the original Tudor style and install Hardie board with timber detailing on the façade and a painted cement coat on the south and east courtyard elevations, using the gray and black color scheme, with dark bronze window trims. Commissioners expressed concern with the choice of color and materials and noted the importance of preserving architectural features of the existing building, related Mr. Iwicki. The Commission motioned to defer making a recommendation to allow the Petitioner to illustrate modifications and submit a revised concept, he said. On Nov. 9, 2022, recalled Mr. Iwicki, the Petitioner proposed Lorraine White brick veneer to replace the ground floor façade, and provided two alternative designs for the second-floor façade, including a mix of light gray, dark gray and black; the south elevation was proposed to be painted gray to preserve the existing texture and match the building frontage. The Commission, related Iwicki, unanimously recommended approval under the conditions that Option 2 was selected, the slate roof shingles remained, and the original board-and-batten details are replicated. At the Village Board on Dec. 12, 2022, the Board considered the AAC's preferred alternative, Option 2, and expressed concerns regarding the impacts of the proposed design on the historic character and significance of the building. The Board tabled the request by a roll call vote of 5-1. At the Village Board meeting on Jan. 9, 2023 the Village Board discussed the project with the goal to make a motion to approve the request, require façade changes, or refer the request back to the AAC for a second review. A consensus ruled to refer it back to the AAC, he said.

On Feb. 23, 2023, continued Intern Iwicki, the Petitioner submitted revised renderings for the consideration of the AAC at tonight's meeting. Significant updates to the front façade include redesigned Tudor-style elements with additional detailing, partial first floor-windows, and the use of design, color palette and materials that would better reflect the original historic character of the building, he noted. This proposal, he reported, also includes two alternative designs: Option 1 represents Glen Garry olde London brick and Grant Beige trowel finished stucco throughout the façade with Classic Espresso finished wood Tudor details, and slate tile shingle roof. Option 2 would be similar to Option 1 in terms of design and materials with the difference being that a combination of Crimson-tone and Grant Beige stucco is proposed on the first and second floors, respectively. The crimson stucco intends to mimic the historic red shade that was originally used on the first floor of the façade. While the main vestibule will be centralized on the building's frontage, said the Intern, both options call for the main entry door to sit off-center. Per the Petitioner's narrative statement, related Mr. Iwicki, the front door at the proposed location would better accommodate the approved floor plan of the co-working office space given the location of the interior reception area and corridor as well as the mailboxes in the front vestibule. Following the Jan. 9th Village Board Meeting, continued Mr. Iwicki, a Trustee shared their concerns about replacing the windows, which are considered original historic elements of the building. The Petitioner was requested to provide an expert evaluation of whether the windows can be repaired or inquire about replica replacement windows of the same materials, explained the Intern. Staff, stated Mr. Iwicki, was informed that only one window restoration vendor can repair the windows but is unavailable through the summer. None of the referred historic vendors have accepted the job to replace the windows as of March 3, 2023, he said, adding that the Petitioners referenced façade elements in the Village such as an off-center entryway at 481 N. Main Street and the windows of the Glen Ellyn Art Theater.



Staff has reviewed the project for compliance with the Glen Ellyn Appearance Review Guidelines, stated Mr. Iwicki, who said that, overall, the proposed options align with the general design guidelines due to compatibility with the historic character of the building and the use of materials with natural earth-tone colors. However, he cautioned, it is essential to note that Section 1.6 of the Appearance Review Guidelines supports a readily identifiable entrance highlighted by the building structure, awnings, canopy, lighting, and/or architectural detailing. Staff believes the main entry door, with the same dark color as the window frames, is not simply identifiable in either of the proposed options, he stated, adding that the Commission may wish to inquire about a bold color to articulate the entrance similar to the original look of the façade. The design guidelines are met through well-placed light fixtures that highlight the building's entrance and signage appropriately, maintained Mr. Iwicki, who added that the project complies with the guidelines because it maintains the original roof, the same or similar building materials are being used, and the distinctive architectural features are replicated.

The documents provided, reported Mr. Iwicki, do not contain a revised design for the south and east courtyard elevations. To conform to the guidelines, he said, all sides of the building should relate to the principal elevation, creating an attractive secondary courtyard façade. In previous submissions, noted the Intern, the courtyard elevations were to be painted to match the building's façade. The Appearance Review Guidelines recommends that the architectural character of all sides of a building should relate to a principal elevation, even if there are some changes in materials, he explained. In addition, added Mr. Iwicki, the Guidelines suggest that paint should not be used to cover original wall surfaces of a building with historic or architectural character. If walls are to be painted, he noted, only one color should be used to establish the continuity of basic volume and mass of the building. For a building in the C5A District, explained Mr. Iwicki, the Glen Ellyn Review Guidelines reference the "Standards for Rehabilitation and Guidelines for Rehabilitating Historic Buildings" from the U.S. Department of the Interior. The project, he concluded, has been reviewed and determined to be in compliance with the majority of the Guidelines, because the proposed building design includes minimal changes to the style, texture and color while replacing deteriorated materials. The proposed project, noted Mr. Iwicki, was determined that it is not in compliance with the standard that states, "Distinctive features, finishes and construction techniques or examples of craftsmanship that characterize a historic property shall be preserved." Originally, he explained, a distinctive brick-laying technique was used on each side of the second-floor "bump out" where bricks were laid in an angular manner that visually follow the slope of the gable, while those on the first floor were laid horizontally. Staff, he stated, believes such craftsmanship would provide a subtle flow and continuity between each floor and suggests incorporating such techniques on the second floor. Similar techniques, he noted, are used throughout the downtown district. Mr. Iwicki outlined AAC action on the case.

#### Petitioner's Presentation & Commission Discussion

Adam Clabaugh stated that the Petitioners tried to get as close as they could to "what I know everybody wants, while keeping the functionality of the building." He expressed appreciation for an "awesome" idea from Commissioner Mees for a side entrance, though deemed it unworkable. Discussion ensued about door width, with Ms. Gosling pointing to space, including ADA, challenges. She also said she'd favor duplicating the brick pattern and original color schemes for authenticity.

Commissioner Goranov suggested placing the vestibule parallel to the street. Ms. Gosling expressed a fear that this approach would restrict natural daylight and limit functionality of a space that should promote community “connection.” Commissioner Goranov argued that the conference room is detached from the street, anyway, and his concept would still allow for light as well as would provide a buffer from busy Main Street, thereby enabling quiet, and make the configuration less chopped up. Commissioner Albrecht agreed that this design would maintain the centered entry door, in line with the original building. Ms. Gosling indicated that Mr. Goranov’ proposed design would interfere with the fireplace, though the Commissioner insisted the (nonfunctional) fireplace could be relocated. Mr. Nast said that the fireplace chimneys “go all the way up,” and that attempting to move them would pose a danger of negatively affecting neighbors and the integrity of the building. In response an assertion by Ms. Gosling that the fireplace serves in structural and aesthetic capacities, Mr. Goranov replied that the fireplace is not a structural element and proposed placing the mailboxes in its place. Ms. Gosling countered that moving the fireplace would be costly and have negative impact on the structure, while Mr. Nast complained that the suggested scenario loses “the allure” of window seats. In agreement, Commissioner Rahn noted the desire from a Village standpoint to “activate” the storefront. Commissioner Mees perceived a need to help the Petitioners meet Board directives, to which Commissioner Rahn requested more insight into the Board’s position. Commissioner Albrecht emphasized adherence to established standards, which she concluded prohibit changing the door location. Mr. Nast recalled the “spirit” of the Board’s direction being that the Petitioner had to “holistically... get much closer” to the original architectural expression. “But the fact is,” declared Commissioner Goranov, “this is a historical building.” Sr. Planner Fard said that, based on what she was told about the Board meeting, Mr. Nast’s recollection is accurate, and added that she feels that ADA compliance matters more than strict observance of historic character, as well as is mindful of budget constraints.

Commissioner Sallwasser asked if a diagonal brick treatment is planned, to which Ms. Gosling expressed a willingness to embrace this application, a decision that received AAC support. Ms. Gosling said she performed considerable research to identify colors close to existing hues. Commissioner Rahn discerned that the updated concept for the upper portion of the building is in keeping with its character, but that the ground floor would typically be stone and brick, so suggests not taking the detailing down to street level, for which Ms. Gosling sought the priority. Commissioner Albrecht voiced a preference for Option 2, specifically identifying the color palette. Commissioners Goranov also preferred Option 2 (for which Commissioners Mees and Jacobson also opted), but took exception to the second-floor window configuration shown. The Petitioners agreed to executing – with new materials, the existing arrangement. For Option 2 Mr. Goranov suggested a brick base (in lieu of stucco) under the three windows for greater durability; Mr. Rahn concurred.

Expressing budget concerns, Mr. Nast mentioned the possibility of receiving Village assistance to cover the costs, while Ms. Gosling posed the idea of “repurposing” line items. Ms. Fard said she didn’t know how the grant program works, Commissioner Sallwasser suggested prioritizing items. Ms. Gosling pointed out that the design concept calls for integrated recessed lighting in the canopy over the entry way, which Chairperson Jacobson said she is “okay” with being off-centered. Ms. Gosling outlined a potential passage configuration associated with the entrance. Elimination of a window was suggested as a compromise, and the Petitioner outlined anticipated vestibule activity.

Ms. Sallwasser asked Ms. Gosling if the rendering would be modified to present the recommended concept to the Trustees; Ms. Gosling responded affirmatively, and Ms. Fard said she could send around an updated drawing reflecting conditions. Mr. Nast reiterated the desire for windows that allow natural light and maintain seating, as well as noted the need to accommodate the fire-rated stairwell. Mr. Goranov argued that ADA compliance could still be achieved with a centered door, and asserted that the existing door is recessed. Ms. Albrecht said that, in light of the effort made, she could “wriggle” on the door location. Relating that the plans say no exterior changes should happen, Ms. Fard said the ordinance was approved when there was no AAC and a permit issued for the interior work. With a coordination gap she didn’t see these plans, she said, and the Building Division cautioned against doing exterior work, but people in the field didn’t follow the plans. Mr. Nast said that the situation is confusing to workers, but proclaimed that the Petitioners feel confident they can meet Village expectations “based on the vibe” of the Board meeting. Mr. Goranov said a brick treatment on the first floor would not compete with the Tudor detail of the second. Audience member and Plan Commission Chairman Tim Loftus presented a 1930’s image of the building, in which a centered door was observed. Duplication of windows and angled brick were specified for the second-floor. No corner detail in wood on the first floor was also mentioned. Commissioner Mees moved for the following:

After conducting a public meeting and deliberating on the request of the petitioner, Adam Clabaugh on behalf of Brick and Mortar, for approval of an exterior appearance review for 411 N. Main Street in the C5A Central Retail Core Subdistrict, the Architectural Appearance Commission hereby recommends approval based on the findings of fact, as discussed or amended at the Architectural Appearance Commission public meeting on March 8, 2023, which are hereby incorporated into the Motion by reference as though fully set forth herein, and a copy of which will be attached to the minutes of this meeting and kept on file as part of the permanent records of the Village. The Architectural Appearance Commission makes this recommendation of approval with the following conditions:

1. That the project shall be constructed in substantial conformance with the plans and drawings as submitted and the testimony presented at the March 8, 2023 Architectural Appearance Commission meeting with modifications proposed by AAC, and before the Village Board of Trustees.
2. That the project be constructed in substantial conformance with the goals set forth in the *2020-2022 Strategic Plan*.
3. That a building permit shall be required for the exterior alterations.
4. On the second floor new windows will be installed to duplicate the configuration of the existing windows.
5. That brick at the second floor will be angled to duplicate the existing brick pattern.
6. The first-floor exterior will be horizontal brick, with a limestone sill under the window, and brown signage band with cream lettering to match the stucco.

Seconded by Commissioner Albrecht, the motion passed with Commissioners Mees, Albrecht, Rahn and Sallwasser, and Chairperson Jacobson voting, “YES,” and Commissioner Goranov voting, “NO.” Courtyard considerations were briefly discussed.

**Adjournment**

The meeting was adjourned by Chairperson Jacobson at 8:58 p.m. following a voice vote on a motion made by Commissioner Mees and seconded by Commissioner Sallwasser.

Respectfully submitted,

Barbara Dutton-Thomas

Recording Secretary

## STAFF REPORT

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**TO:** Glen Ellyn Architectural Appearance Commission  
**FROM:** Martin Scott, Director of Community Development  
**FOR:** April 12, 2023 Public Meeting  
**SUBJECT:** 525 S. Park Blvd. – Exterior Appearance Approval

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**PETITIONER:** The petitioner is the Forest Preserve District of DuPage County; Willowbrook Wildlife Center at 525 S. Park Blvd.

**REQUEST:** The petitioner is requesting an Exterior Appearance Review for the Willowbrook Wildlife Center located at 525 S. Park Blvd., including the renovation the existing propagation/research building, construction of a new clinic and visitor center, and a variety of outdoor rehabilitation enclosures. (Phase A is noted in the plans but was approved last year and is currently under construction. The buildings in this application are within phases B-D). In order to proceed with the project, the petitioner will need to receive approval of the Exterior Appearance of the project.

**LOCATION & ZONING** The subject property is located at 525 S. Park Blvd., on the west side of the street. Fawell Blvd. intersects with the entrance to the Center’s main access driveway.

The property is currently zoned CR Conservation/Recreation District. The land use and zoning of the properties in the surrounding area are identified below:

| <u>Land Use</u>                              | <u>Zoning</u>      |
|----------------------------------------------|--------------------|
| North: Single Family Residential             | R1                 |
| South: Single Family Residential             | DuPage County/Res. |
| East: Single Family Residential              | DuPage County/Res. |
| West: Community College District/Residential | CC/R1              |

**COMP PLAN:** According to the 2001 Comprehensive Plan, the subject property is designated as Parks and Open Space. The current use is appropriate since it includes park-like features along with open space.

### PROJECT SUMMARY:

1. Buildings. The petitioner is proposing construction of a new clinic and visitor center, and a variety of outdoor rehabilitation enclosures.

*Clinic and visitor center, existing propagation/research building and outdoor rehabilitation enclosures:* The petitioner has proposed a mix of natural stone, cooper, fiber cement, glass, and wood for all elevations of the Clinic and

Visitor Center. The various materials feature mostly natural hues with a mix of both textured and smooth finishes. All windows and doors will feature dark metal framing.

Section 1.2 of the Appearance Review Guidelines states, “Materials and finishes not recommended include...aluminum siding, trim or panel systems; glass storefront wall systems that extend to the ground.” The proposed storefront includes aluminum framing and panels, as well as the glass storefront portion that extends to the ground. Also, Section 3.3.3 of the Appearance Review Guidelines states, “windows and doors should be inset behind the plane of the wall, clearly defined by wood or masonry trim.” The AAC should consider the function and location of this building (and others) in regard to materials. It appears the materials were thoughtfully chosen as a consistent theme to fit a natural setting. The materials were also chosen not only to be attractive but also durable. This approach carries over into the existing building renovation materials and improvements such as the trash enclosure.

The clinic and visitor center walls, which extend to the ground and are constructed of glass or “leaf anatomy inspired” metal screens, also do not comply with Section 1.2 of the Guidelines. However, the AAC should consider that this type of design is common in nature centers, zoos, and similar facilities. In some cases, the design and use of materials may be functional, while at other times it is artistic and is part of the overall building program.

The outdoor enclosures are very utilitarian buildings with proposed materials similar to the visitor’s center but truly focused on durability.

Interior Renovation. The interior of the existing propagation and research building will be renovated as part of the project. As with other aspects of these improvements, the interior work is very specialized for animal welfare. A building permit will be required of the petitioner.

2. Site Improvements. Improvements to the site include new driveways and paths to serve the existing and new buildings. Also proposed is new fencing within the site that is a mix of aluminum picket and rail, steel tube and rail, and coated chain link fence with mesh. These fences are within the existing site and comply with the code.
3. Lighting. The petitioner has submitted a photometric plan and cut sheets. The fixtures would have a dark finish that would complement the architecture and function of the existing and new buildings as well as the overall site. Cut sheets of the proposed fixtures are included in the petitioner’s application packet. The proposed fixtures comply with the shielding requirements in the Zoning Code.

4. Landscaping. The petitioner has submitted a landscape which focuses on the front and side yards of the visitor's center. Also included in the plan are new planting areas to the north adjacent to the parking lot, existing buildings, and the trash enclosure. The plan provides an abundant amount of new shade and ornamental trees, shrubs, and native plantings. Once mature, this landscape plan will nicely complement the building and grounds.

**AAC****ACTION:**

The Architectural Appearance Commission is being asked to consider the petitioner's request for exterior appearance and make a recommendation to the Village Board for approval, approval with conditions, or denial. In reviewing the request, the Commission should consider how the proposed exterior appearance conforms to the Appearance Review Guidelines.

Staff would recommend the AAC consider the following conditions of approval:

1. That the project is constructed in substantial conformance with the plans as presented and the testimony presented at the April 12, 2023, Architectural Appearance Commission meeting.
2. A building permit shall be required for the exterior alterations.

**ATTACHMENTS:**

1. Application for Exterior Appearance
2. Summary of Operations Narrative
3. Petitioner's Narrative Statement and supporting documents packet (including project location, existing site photos, phasing, site plan, building plans and elevations, other documents)
4. Landscape plan
5. Site lighting photometric plan
6. Draft Motion to Approve

cc: Martin Scott, Community Development Director

**EXTERIOR APPEARANCE REVIEW**  
**APPLICATION**

CLEAR ALL PAGES

Please complete and return this form to the Community Development Department, 535 Duane St.,  
Glen Ellyn, IL 60137. If you have questions, please phone: 630.547.5250

**I. APPLICATION INFORMATION:**

A. Date Filed: 10/27/2022 B: Application No. \_\_\_\_\_

C. Project Name: Willowbrook Wildlife Center Additions and Renovations

D. Project Description:

**Additions and renovations to the Willowbrook Wildlife Center including a new rehabilitation center, new outdoor animal enclosures, existing propagation building renovations, and related sitework.**

E. Address of Property: Willowbrook Wildlife Center 525 S. Park Blvd. Glen Ellyn, IL 60137

F. Permanent Index No.: 05-26-200-001 G. Zoning: CR Conservation Recreation

H. Name of Applicant: Kevin Horsfall/Assistant Director of Resource Management and Development

I. Address of Applicant: 2500 N. Fontage Rd., Darien, IL 60561

J. Phone No. (Business): 630-933-7200 (Home) \_\_\_\_\_

K. (Mobile) \_\_\_\_\_ (Other) 630-933-7242 (direct)

L. Fax No.: \_\_\_\_\_

M. E-mail Address of Applicant: khorsfall@dupageforest.org

N. Name of Property Owner: Forest Preserve District of DuPage County

O. Address of Property Owner: 3S580 Naperville Rd. Wheaton, IL 60189

P. Phone No. (Business): 630-933-7200 (Home) \_\_\_\_\_

Q. E-Mail Address of Property Owner: kfrilling@dupageforest.org / Executive Director Forest Preserve District of DuPage County

**II. CONFORMANCE WITH APPEARANCE REVIEW GUIDELINES:**

(You may attach separate sheets of paper as needed to answer any of the following questions)

R. Please explain why the proposed architectural style was chosen.

**Designed to fit into the natural landscape, the new Clinic and Visitor Center is planned around significant oak and walnut trees on the property. The front entrance features an oak tree that forms a soft separation between the animal intake entry and public visitor entry. Low slope roofs with long horizontal edges provide a low profile to the building while vertical and horizontal textures blend the building into the surrounding trees and grasses. Layers of structure and extended canopies help the profile of the architecture visually dissolve into the forest. Elements of sustainability and wellness are incorporated into the project in addition to features that support healthy wildlife such as bird-friendly glass and screening elements.**

**New outdoor enclosures that will be used for animal rehabilitation and will not be open to the public. The architectural style of the animal enclosures are designed to meet functional requirements of animal rehabilitation and durability of materials for their safety and security, rather than aesthetic.**



S. Provide information about the architectural style and exterior materials of the buildings in the surrounding area:

**The Willowbrook Wildlife Center site is surrounded by incorporated and unincorporated residential uses to the north, east, and south and a school and church to the west. The residential areas are buffered by over 275 feet of forest. Many of the surrounding residences are single family with traditional materials including horizontal siding, brick, and sloped- shingle roofs. The school and church are single and multi-story structures with brick, concrete, metal and wood trim, and glass with flat and sloped roofs. All adjacent developments are heavily buffered by a parkway along Park Avenue or trees within Willowbrook Forest Preserve.**

T. Please explain how the project complies with the Appearance Review Guidelines:

As a non-residential principle building, the new Clinic and Visitor Center is designed to fit in the context of the site and complement the architectural character of the existing structures on the site. Exterior materials of composite wood siding, exposed wood beams, and natural stone are selected to blend with the natural environment and complement the landscaping.

The new Clinic and Visitor Center is located in the center of the site, out of direct view from South Park Boulevard. The public entrance with sidewalk leading to an entrance canopy that clearly identifiable.

Outdoor enclosures have minimally sloped roofs to keep overall height at a minimum. Enclosures are set back from the street more than the required setbacks. Enclosures are located in the center of the site, screened from direct view from South Park Boulevard with landscaping.

U. Please explain why any deviations from the Appearance Review Guidelines are proposed:

**Refer to attached Appearance Review Guidelines Deviations Summary**

Signature: Kevin Horsfall Date: 10/27/2022

## SIGNAGE WORKSHEET

**List all proposed new, and existing signs to remain, on the establishment,  
building and property for the specific type of facility**

CLEAR PAGE

**FACILITY TYPES:**

- ☐ NONRESIDENTIAL ESTABLISHMENT *(For one establishment in one building on one property)*
- ☐ NONRESIDENTIAL ESTABLISHMENT *(For one establishment if more than one establishment is in the building or on the property)*
- ☐ MULTI-TENANT DEVELOPMENT *(For a development with more than two establishments on one property)*
- ☐ OFFICE COMPLEX *(For a development with more than one business office on one property)*
- ☐ RESIDENTIAL DEVELOPMENT *(For a development with more than twenty dwelling units on one property)*
- ☒ MULTI-FAMILY DWELLING *(For a development with more than three dwelling units on one property)*
- ☒ PARK OR PUBLIC RECREATION FACILITY
- ☒ OTHER FACILITY - *DESCRIBE:* Animal Rehabilitation Center

**SIGN TYPES: (\*Please specify one of the following sign types)**

Awning, Breezeway, Common Program, Drive-thru Canopy, Freestanding, Indexing, Marquee, Menu Board, Message Board, Nameplate, Off-premises, Office Directory, Order Confirmation, Political Campaign, Portable, Private Parking Lot, Traffic Directional, Wall, Video Display, and Window Sign. *(Sign Definitions Section 4-5-3)*

| Sign                                                     | New                                 | Existing                 | Sign Type *            | Dimensions<br>(Length x Width) | Sign Area | Height |
|----------------------------------------------------------|-------------------------------------|--------------------------|------------------------|--------------------------------|-----------|--------|
| 1                                                        | <input checked="" type="checkbox"/> | <input type="checkbox"/> | Individual Letter Sign | 10'-4" X 9"                    | 8 SF      | 2"     |
| Words/Symbols: WILDLIFE HOSPITAL                         |                                     |                          |                        |                                |           |        |
| 2                                                        | <input checked="" type="checkbox"/> | <input type="checkbox"/> | Individual Letter Sign | 9'-6" X 2'-8"                  | 22 SF     | 2"     |
| Words/Symbols: WILLOWBROOK WILDLIFE CENTER VISITOR ENTRY |                                     |                          |                        |                                |           |        |
| 3                                                        | <input type="checkbox"/>            | <input type="checkbox"/> |                        |                                |           |        |
| Words/Symbols:                                           |                                     |                          |                        |                                |           |        |
| 4                                                        | <input type="checkbox"/>            | <input type="checkbox"/> |                        |                                |           |        |
| Words/Symbols:                                           |                                     |                          |                        |                                |           |        |
| 5                                                        | <input type="checkbox"/>            | <input type="checkbox"/> |                        |                                |           |        |
| Words/Symbols:                                           |                                     |                          |                        |                                |           |        |
| 6                                                        | <input type="checkbox"/>            | <input type="checkbox"/> |                        |                                |           |        |
| Words/Symbols:                                           |                                     |                          |                        |                                |           |        |
| 7                                                        | <input type="checkbox"/>            | <input type="checkbox"/> |                        |                                |           |        |
| Words/Symbols:                                           |                                     |                          |                        |                                |           |        |
| 8                                                        | <input type="checkbox"/>            | <input type="checkbox"/> |                        |                                |           |        |
| Words/Symbols:                                           |                                     |                          |                        |                                |           |        |

**(DRAFT) MOTION TO RECOMMEND APPROVAL OF AN EXTERIOR  
APPEARANCE REVIEW FOR 525 S. PARK BLVD.**

After conducting a public meeting and deliberating on the request of the petitioner, the Forest Preserve District of DuPage County, for approval of an exterior appearance review for 525 S. Park Blvd. in the CR Conservation/Recreation District, the Architectural Appearance Commission hereby recommends approval based on the findings of fact, as discussed or amended at the Architectural Appearance Commission public meeting on April 12, 2023, which are hereby incorporated into the Motion by reference as though fully set forth herein, and a copy of which will be attached to the minutes of this meeting and kept on file as part of the permanent records of the Village. The Architectural Appearance Commission makes this recommendation of approval with the following conditions:

1. That the project be constructed in substantial conformance with the plans and testimony presented at the Architectural Appearance Commission public meeting and before the Village Board of Trustees.
2. A building permit shall be required for the exterior alterations.

Motion by: \_\_\_\_\_ Seconded by: \_\_\_\_\_



**WILLOWBROOK WILDLIFE CENTER**  
**Phase 2 Master Plan Improvements**  
Willowbrook Forest Preserve  
525 S. Park Blvd.  
Glen Ellyn, Illinois 60137

November 2, 2022  
Project No. M-340-000

## **Summary of Operations**



*Prepared by:*  
**Forest Preserve District of DuPage County**  
**Office of Planning**  
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## **INTRODUCTION**

In 2021, the District hired Wight & Company to revise the Phase 2 Master Plan for Willowbrook Wildlife Center, based on recent changes to the programming and vision for the center, as well as updated guidelines provided by National Wildlife Rehabilitators Association (NWRA) and International Wildlife Rehabilitation Council (IWRC) Minimum standards for Wildlife Rehabilitation. Phase 1 Master Plan improvements were constructed in 2013 and complete in 2014. With these changes to programming and guidelines, the Phase 2 Master Plan required an update.

## **HISTORY**

Willowbrook Forest Preserve is located near the center of the county on approximately 50 acres of land within the incorporated village limits of Glen Ellyn, Illinois. The Willowbrook Wildlife Center functions primarily as a wildlife rehabilitation and environmental education center. The facility has been in operation for over 50 years and attracts an estimated 120,000 visitors annually, which includes vehicular and pedestrian guests, who come to enjoy the exhibits at the center as well as the walking trails and interpretive experiences offered throughout the preserve. The staff there provides medical treatment to more than 10,000 sick or injured native wildlife that are brought to the center each year. Once restored to health, they are released back into their native habitat. The Center also provides learning experiences for citizens to help them live in closer harmony with native Northeastern Illinois wildlife and to better understand the natural world. The District wants to transform the Willowbrook Wildlife Center to be more closely aligned with its Mission and has established a new vision and program for the facility.

## **SUMMARY OF PROPOSED OPERATIONS**

Willowbrook Wildlife Center at Willowbrook Forest Preserve in Glen Ellyn is a native wildlife rehabilitation facility that provides care and medical treatment to injured and orphaned wild animals. It also serves as a resource to teach DuPage County's residents about living in harmony with local wildlife. Willowbrook partners with organizations and individuals, including the Lincoln Park Zoo, Illinois Department of Natural Resources, Chicago Area Bird Collision Monitors, county and local municipal animal control agencies, and private wildlife rehabilitators. In 2021, Willowbrook rehabilitated 219 unique species.

With the proposed Phase 2 improvements, a brand new clinic and rehabilitation building with visitor center will be constructed. Forty percent of the building is dedicated to animal care – including an animal intake area, triage area, exam room, surgery room, and indoor recovery areas. Thirteen percent of the building will house offices for staff and volunteers who treat and care for the wildlife and provide interpretation services for the public. Office areas will include a conference room and library for research and classroom for training and programs. Sixteen percent of the building will be used for public engagement and interpretation of wildlife rehabilitation and human impacts to wildlife including climate change. The remaining portions of the building is for the bathrooms, circulation, mechanical equipment and storage.



## VISION PROGRAM

### *Outreach*

Willowbrook aims to be inclusive in our outreach to audiences of different ages, experiences, and socioeconomic backgrounds and provide a shared experience where all members of the community can feel closer to their environment and native wildlife.

### ***Willowbrook Mission***

Willowbrook Wildlife Center at Willowbrook Forest Preserve in Glen Ellyn is a native wildlife rehabilitation facility that provides care and medical treatment to injured, sick and orphaned wild animals. It also serves as a resource to teach DuPage residents about living in harmony with local wildlife.

### ***Willowbrook Vision***

Willowbrook Wildlife Center is state of the art wildlife rehabilitation facility that is a national leader in engaging visitors in veterinary science, medical care and wildlife rehabilitation in action while championing healthy interconnected ecosystems to foster and promote safe, healthy, and sustainable communities for all living things in DuPage County and beyond.

*Goals:* (Critical success factors / key performance indicators, mandates)

1. Over the next 10 years, Willowbrook will transition away from having a collection of 54 non-releasable animals to focusing on 100% rehabilitation and reintroduction into the wild by 2031.
2. To improve the safety and conditions of the facilities for the rehabilitation and restoration of animals and animal species.
3. To improve safety and efficiency of facilities and work environment for Willowbrook staff and volunteers
4. To improve the ability of the facilities to engage and immerse the public in the wildlife rehabilitation processes and ecosystem environments that make up of 26,000 acres of DuPage County open space consisting of restored savannahs, woodlands, wetlands, and prairie environments to foster a greater appreciation for the native species, animal habitats, ecosystem functions and the interconnectivity of natural systems
5. To make the facility more sustainable utilizing the latest in energy efficient, LEED, and green infrastructure design principles.
6. To support the captive propagation of at-risk species and research projects that will advance wildlife medicine and wildlife rehabilitation.



## WILLOWBROOK WILDLIFE CENTER Phase 2 Master Plan Improvements

Willowbrook Forest Preserve  
525 S. Park Blvd.  
Glen Ellyn, Illinois 60137

October 26, 2022  
Project No. M-340-000

### Comparison of Existing and Proposed Uses

|                    | Existing   | Proposed   |
|--------------------|------------|------------|
| Visitor Experience | 2,022 SF   | 3,140 SF   |
| Classroom          | 325 SF     | 802 SF     |
| Office             | 1,235 SF * | 3,199 SF ^ |
| Clinic ¥           | 1,090 SF   | 3,569 SF   |
| Rehab              | 420 SF     | 6,417 SF   |

#### Notes:

\* Includes 922 s.f. of office space in separate propagation building.

^ Includes open office, private offices, conference room, and library.

¥ Clinic areas do not include exterior enclosures or existing propagation building to remain.

See attached floor plans of the Existing Clinic/Visitor Center and Proposed Clinic/Visitor Center.







## **INTRODUCTION**

The Forest Preserve District of DuPage County is a nationally recognized conservation agency that envisions a community in which all citizens share a connection with nature and an appreciation for cultural history. As part of the Forest Preserve District of DuPage County, Willowbrook Wildlife Center provides native wildlife rehabilitation services to care for injured, sick, or orphaned wild animals. Historically Willowbrook Wildlife Center has been a pioneer in the field of wildlife medicine and strives to become a state-of-the-art facility that is a national leader in engaging visitors in veterinary science, medical care, and wildlife rehabilitation.

Willowbrook Wildlife Center serves as a resource for residents of DuPage County to learn about living in harmony with local wildlife and champions the interconnection between healthy wildlife and healthy ecosystems to foster and promote safe, healthy, and sustainable communities for all living things in DuPage County and beyond.

The architectural style for the new Clinic and Visitor Center is designed to fit into the natural landscape and is planned around significant oak and walnut trees on the property. The front entrance features an oak tree that forms a soft separation between the animal intake entry and public visitor entry. Low slope roofs with long horizontal edges provide a low profile to the building, creating an intimate scale. Layers of structure and extended canopies help the profile of the architecture visually dissolve into the forest. Elements of sustainability and wellness are incorporated into the project in addition to features that support healthy wildlife such as bird-friendly glass and screening elements. The material, color, and texture of the exterior walls is designed to blend into the surrounding forest.

As a net-zero energy designed facility, the proposed design minimizes impacts on the environment while promoting nature and wildlife preservation and sustainability. The proposed site and building design will enhance the current use as a wildlife center and continue to be a source of pride that will attract new residents, business, and investments.

The Proposed Phase B-D Work is planned to start in Spring 2023. All additional information on implementation schedules is outlined in the following pages and is the subject of this overall special-use/development plan submittal.



**PROPOSED CURRENT WORK**

Existing Clinic & Education Building

1. To be demolished.

Existing Propagation Building

1. Existing 4,940 SF single story building to be renovated to support the captive propagation of at-risk species and research projects that will advance wildlife medicine and rehabilitation.

Proposed New Clinic Building:

1. A new 28,088 SF Clinic and Visitor Center designed to support an efficient and safe rehabilitation process.

Outdoor Animal Rehabilitation Enclosures

1. A variety of Outdoor Rehabilitation Enclosures approximately 9,140 SF are designed to prepare animals for release into the wild. The new enclosures will be enhanced to increase the quality of life for the animals and will not be visitable by the public.

Zoning Variations

1. Accessory Structure floor Area: Variance request for increase for the accessory structure allowable area required for animal housing to meet wildlife rehabilitation standards.
2. Fence Height: Variance request for increase in height to meet wildlife rehabilitation standards.
3. Landscaping: Variance request for quantity and types of landscaping to support Forest Preserves mission to use exclusively native plants and managed landscape areas.
4. Building Sign Quantity: Variance request for increase in sign quantity from one sign to two signs as needed to distinguish separate intake and exhibit services available to the public.
5. Accessory Structure Setback: Variance request to locate the ground mount Photovoltaic Array (accessory structure) in front the new Clinic (primary structure).
6. Building Height: Variance to allow for the maximum building height to be measured from the approach and parking areas in lieu of the 'average existing grade' defined in the ordinance.
7. Fence Openness Factor: Variance request for decrease in openness factor to meet wildlife rehabilitation standards.

Miscellaneous

1. The trash enclosure will be constructed away from public view and enclosed by screen walls designed to match the finish of the adjacent primary structure (propagation building).
2. A new decorative fence will be constructed to visually screen and control public access to the ground-mounted solar PV array adjacent to the parking lot.
3. A new fence shall also be constructed around the outdoor animal enclosures for the safety and security of the animals.



## PROJECT\_NARRATIVE

Forest Preserve District of DuPage County – Willowbrook Wildlife Center  
Special-Use Phase B-D Submittal

### Site

1. New walking paths shall be constructed throughout the site for routine maintenance of the outdoor animal enclosures. The walking paths will not be accessible to the public.
2. New bio-infiltration areas (landscaped depressional areas) are anticipated within the exhibit area to act as an additional stormwater BMP (Best Management Practice).

*NOTE: The BMPs will reduce stormwater quantity/runoff by promoting infiltration as well as improve stormwater quality by filtering contaminants.*

### Schedule for Implementation:

1. Construction is anticipated to start in Spring of 2023 and be complete in fall of 2024.





## FOREST PRESERVE DISTRICT OF DUPAGE COUNTY | **WILLOWBROOK WILDLIFE CENTER**

PROJECT OVERVIEW  
1.12.2023

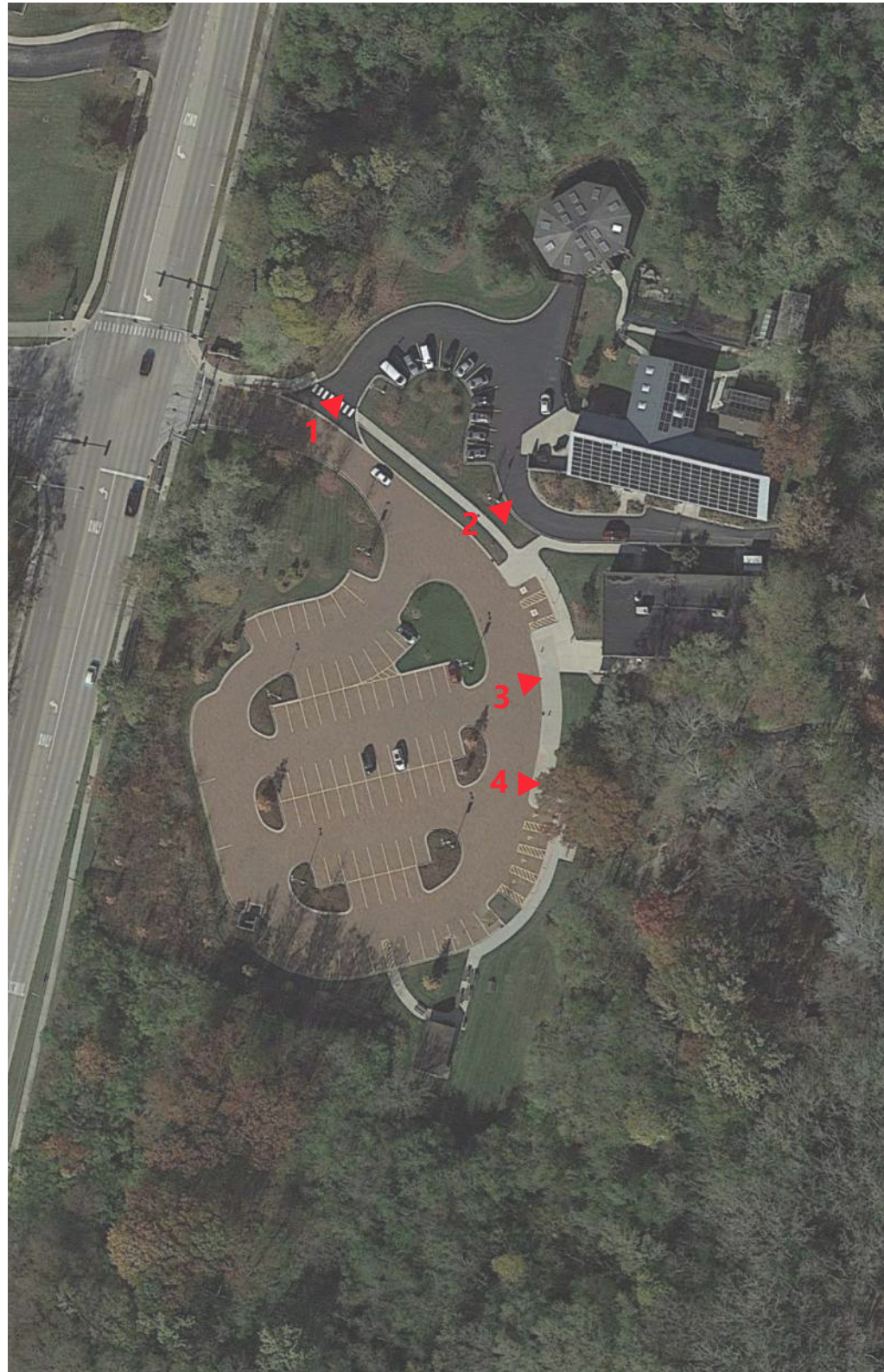
SITE DESIGN







# SITE DESIGN EXISTING SITE PHOTOS



EXISTING SITE



PHOTO 1 - EXISTING STAFF PARKING



PHOTO 2 - EXISTING SPECIES PROPAGATION BUILDING



PHOTO 3 - EXISTING CLINIC BUILDING



PHOTO 4 - NEW CLINIC SITE



# SITE DESIGN PHASING PLAN

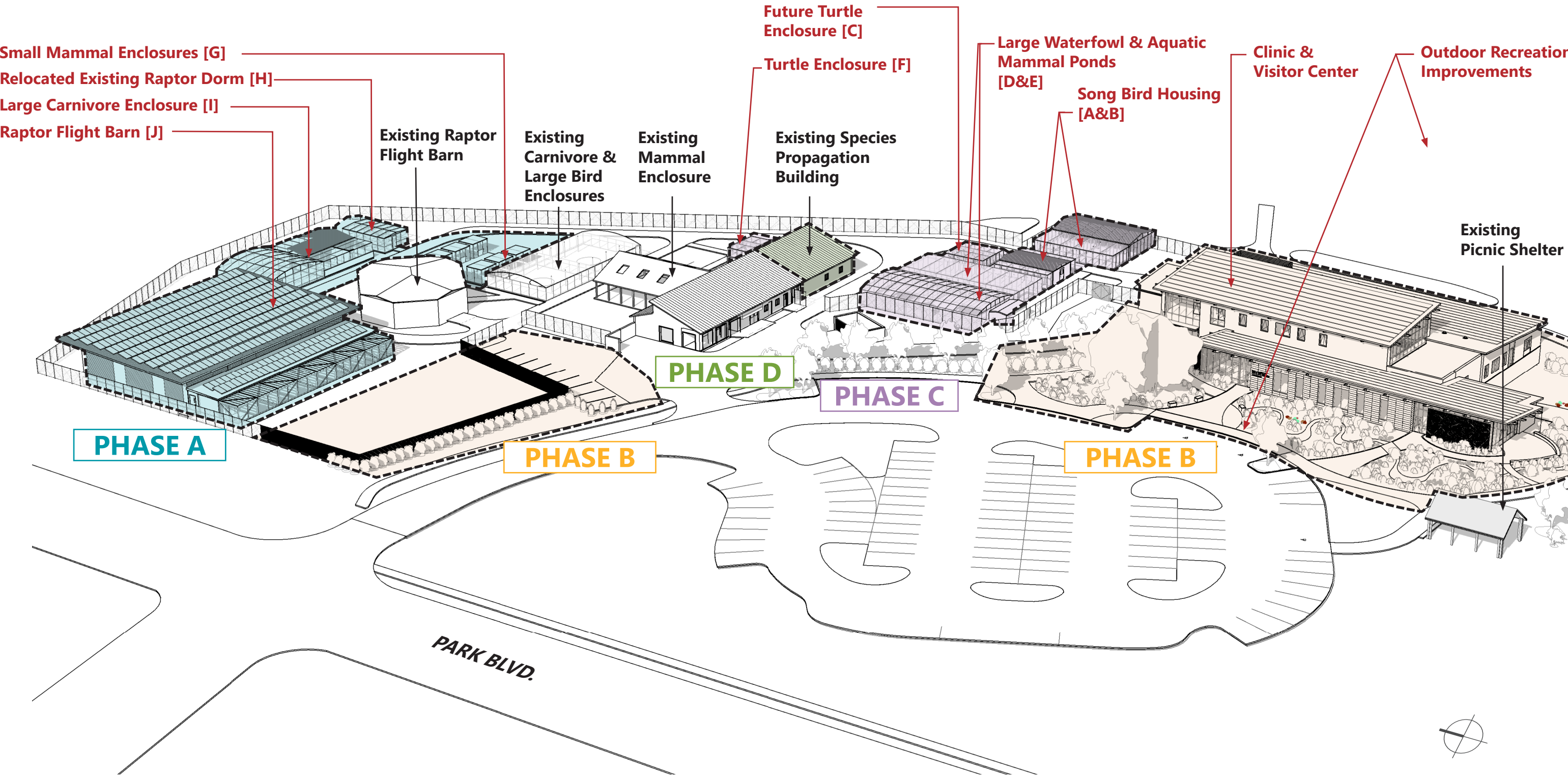


- PHASE A - SUMMER 2022**
- Outdoor Rehabilitation Phase I
  - Removal of Dilapidated Enclosures
  - Relocation of Existing Resident Animals to New Enclosures
- PHASE B - SPRING 2023**
- New animal rehabilitation and visitor center
  - Site Development (Site Prep, drainage, paving, etc.)
  - Transition from old clinic to new clinic
  - Staff Parking and PV installation
- PHASE C - SPRING 2024**
- Demo old clinic
  - Remaining Outdoor Enclosures
- PHASE D - FALL 2024**
- Species Propagation Building - Conversion of existing office space to turtle propagation



**PHASE A THROUGH D**  
Completion Fall 2024 (Standard Schedule)

SITE DESIGN  
**PHASING DIAGRAM**





# SITE DESIGN ENLARGED SITE PLAN



- Ⓐ Song Bird Housing
- Ⓑ Resident Song Bird Housing
- Ⓒ Turtle Enclosure
- Ⓓ Waterfowl & Aquatic Mammal Ponds
- Ⓔ Large Waterfowl Enclosure
- Ⓕ Blanding's Turtle Enclosure
- Ⓖ Future-ready pad for Small Mammal Enclosure
- Ⓗ Relocated Existing Raptor Dorm
- Ⓘ Large Carnivore Enclosure
- Ⓝ Raptor Flight Barn / Resident Raptor with roof mounted PV solar panles
- Ⓚ Existing Raptor Barn
- Ⓛ Existing Enclosure
- Ⓜ Existing Mammal Enclosure
- Ⓝ Existing Species Propagation Building
- Ⓞ Extended Service Drive
- Ⓟ Isolation Run
- Ⓠ Clinic & Visitor's Center with roof mounted PV solar panles
- Ⓡ Entry Plaza
- Ⓢ Outdoor Learning
- Ⓣ Reconfigured Interpretive Trail
- Ⓤ Existing Shelter
- Ⓥ Ground mounted PV Solar Panel



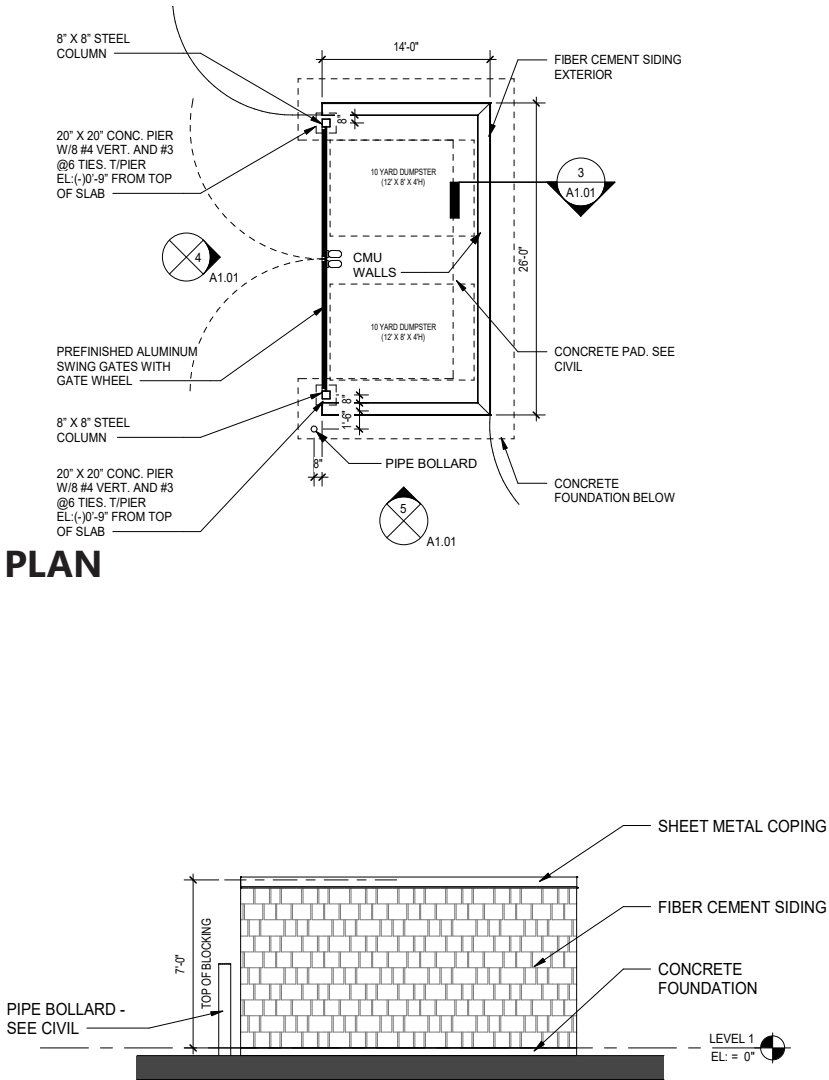
SITE DESIGN  
TRASH ENCLOSURE DESIGN



SITE PLAN

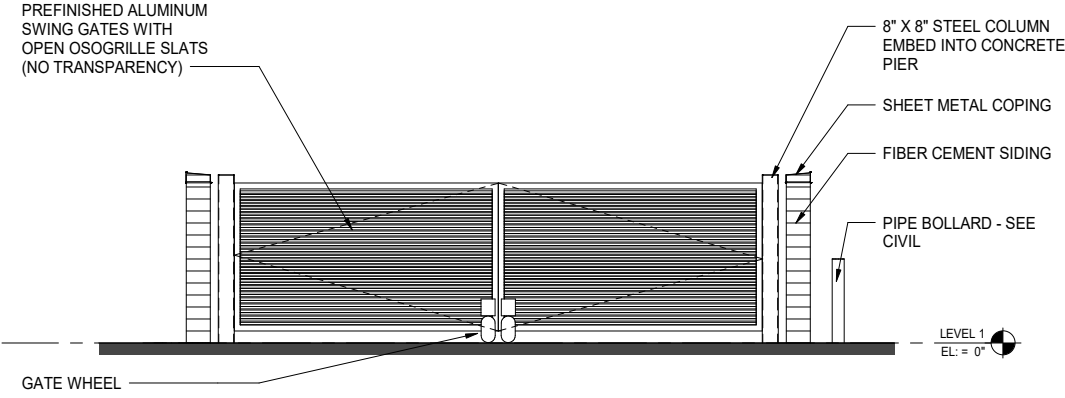


VIEW FROM PUBLIC ENTRANCE AND PARKING



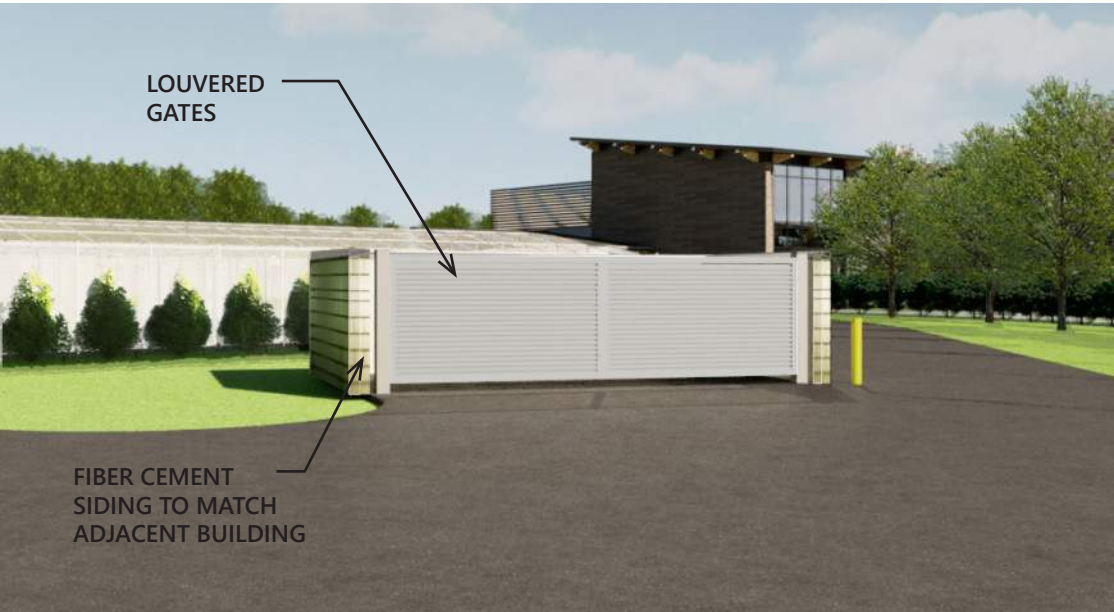
ELEVATION - SIDE

SECTION



ELEVATION - FRONT





TRASH ENCLOSURE - FRONT VIEW



TRASH ENCLOSURE PLAN

**EXTERIOR MATERIALS**



SHINGLE FIBER CEMENT SIDING -  
TAUPE COLOR



TRASH ENCLOSURE - BACK VIEW



EXISTING PROPAGATION BUILDING



SHEET METAL COPING AND GATES -  
LIGHT GREY COLOR



SITE DESIGN  
FENCING TYPES

LEGEND



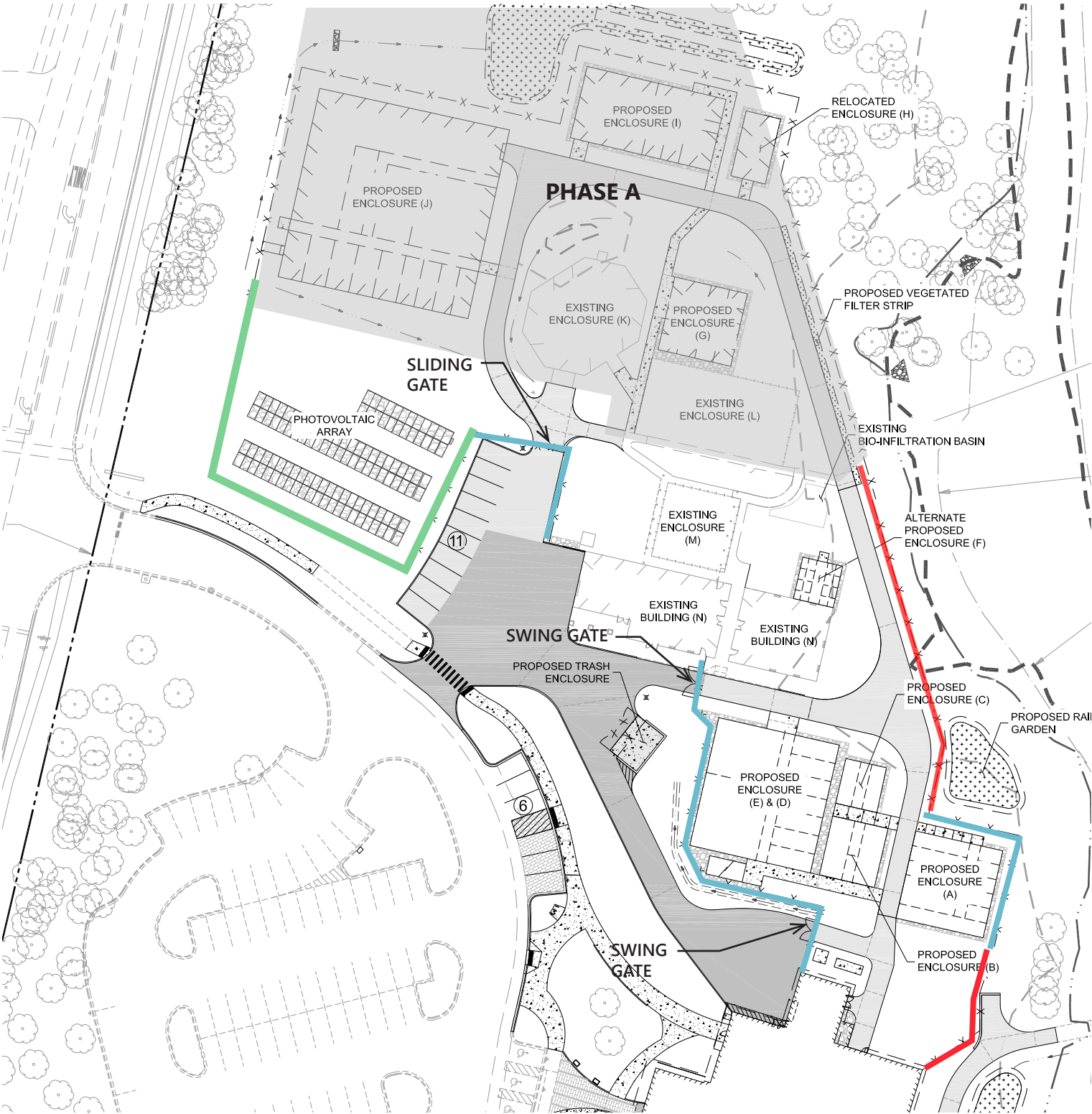
8 FOOT HIGH PICKET AND RAIL FENCE  
CONSTRUCTED OF PREFINISHED ALUMINUM  
TUBE COMPONENTS. BLACK FINISH



8 FOOT HIGH STANDARD CHAIN LINK FENCE  
WITH SHADE CLOTH CONSTRUCTED OF  
PREFINISHED STEEL TUBES AND RAILS WITH 2"  
CHAIN LINK MESH. BLACK FINISH.



8 FOOT HIGH STANDARD CHAIN LINK FENCE  
WITH NO SHADE CLOTH CONSTRUCTED OF  
PREFINISHED STEEL TUBES AND RAILS WITH 2"  
CHAIN LINK MESH. BLACK FINISH



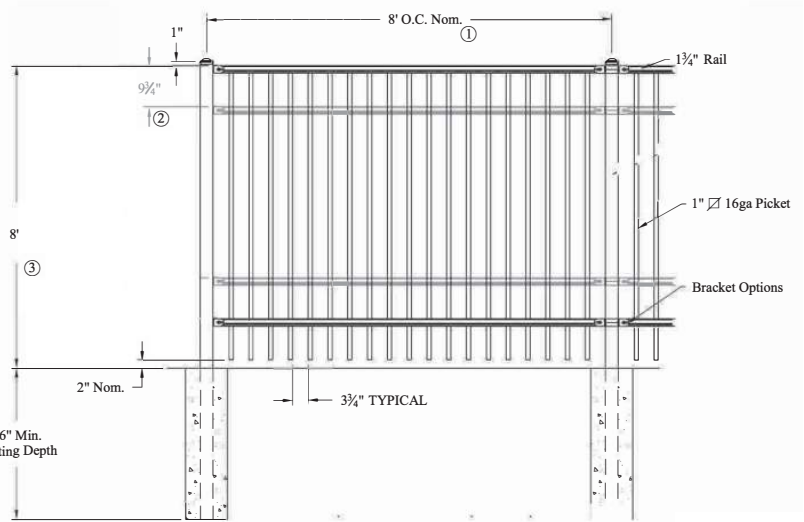
SITE PLAN - PROPOSED FENCING TYPES



SITE DESIGN  
PV ARRAY SCREENING DESIGN



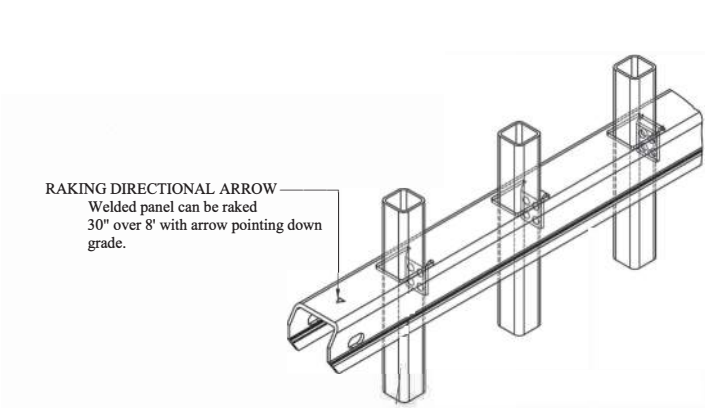
SITE PLAN



FENCE CONSTRUCTION



FENCE INSTALLATION



FENCE COMPONENTS



FENCE DETAIL



VIEW FROM ENTRANCE DRIVE



VIEW FROM PUBLIC PARKING



NEW CLINIC DESIGN

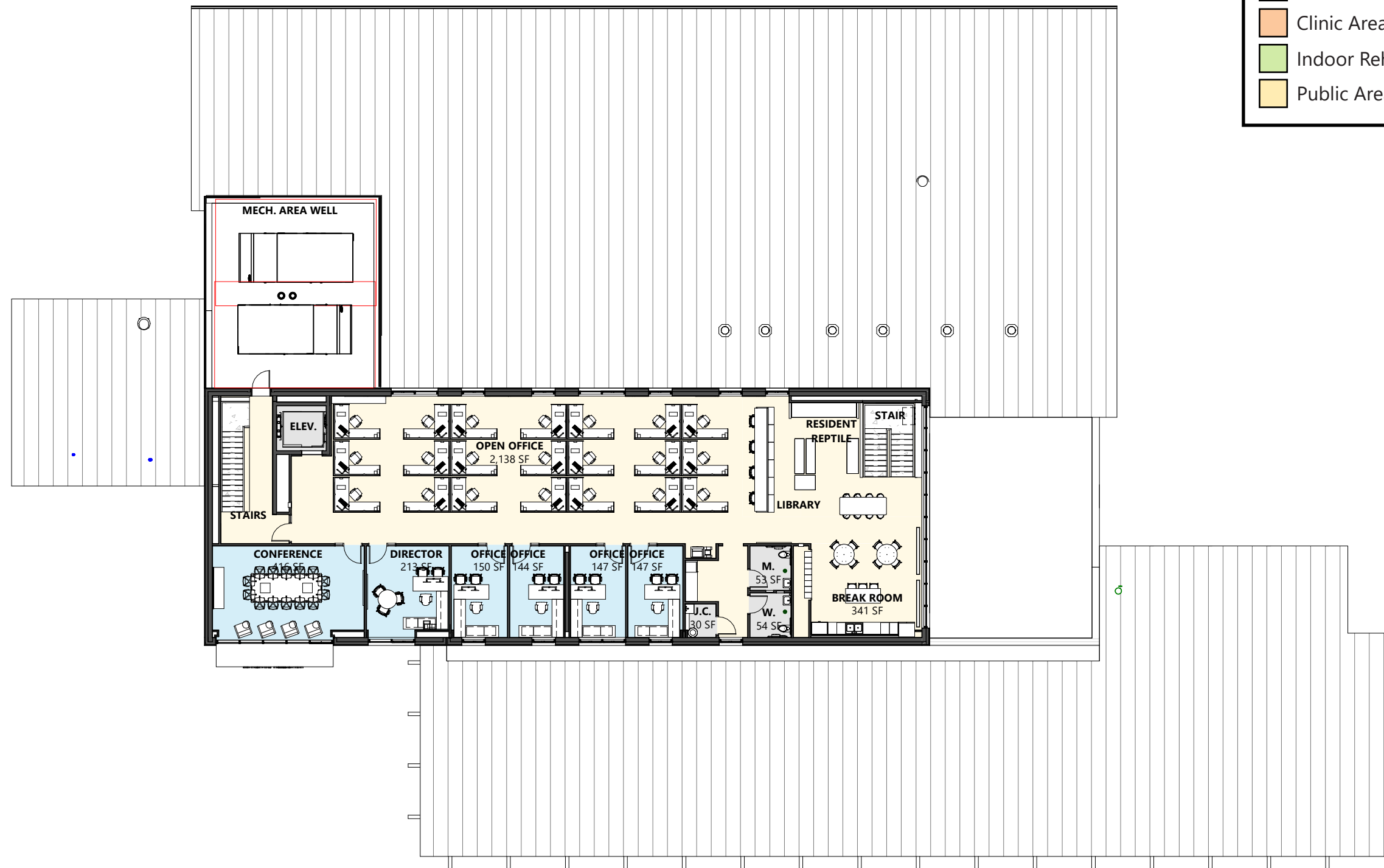


NEW CLINIC DESIGN  
FIRST FLOOR PLAN



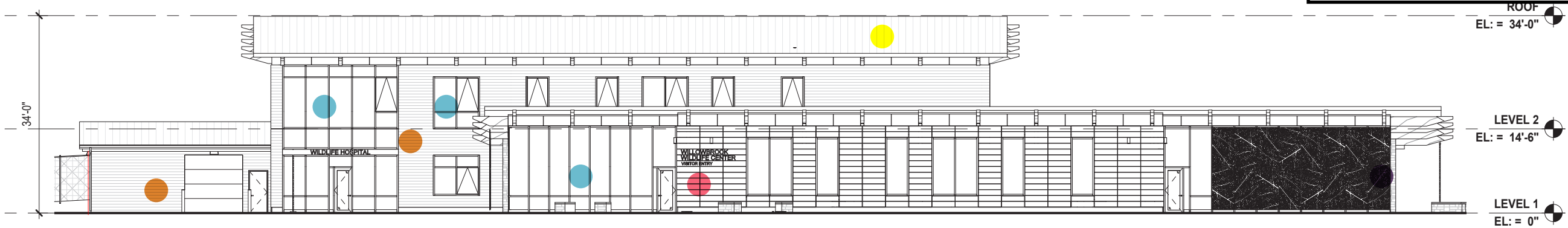
# NEW CLINIC DESIGN SECOND FLOOR PLAN

- Administration
- Clinic Area
- Indoor Rehabilitation / Housing Area
- Public Areas & Education



NEW CLINIC DESIGN  
ELEVATIONS - BUILDING MATERIALS

- Curtainwall w/ Operable Lites as shown
- Perforated Metal Sunshade/Bird Deterrent
- Fiber Cement Plank Rainscreen Wall
- Copper Anodized Rainscreen Wall
- Stone Masonry Cavity Wall: Cast Limestone
- Standing Seam Metal Roof (w/ PV as shown)



WEST ELEVATION

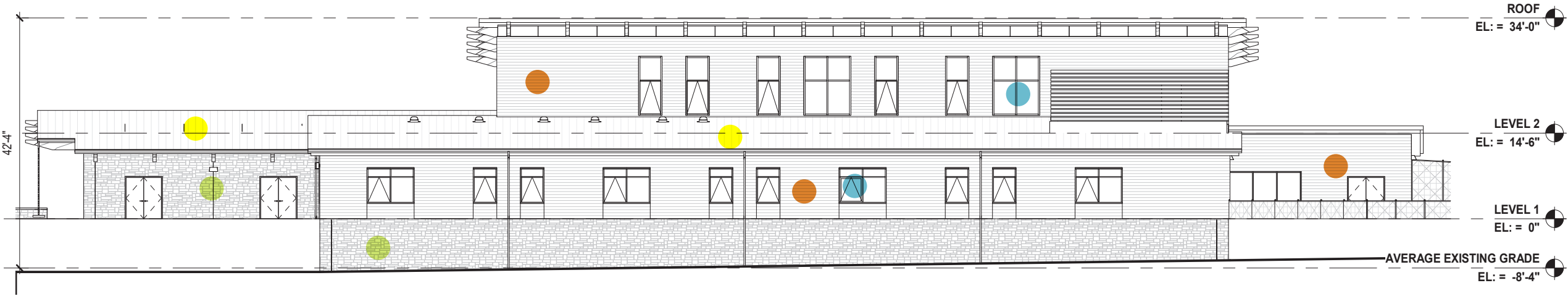


SOUTH ELEVATION

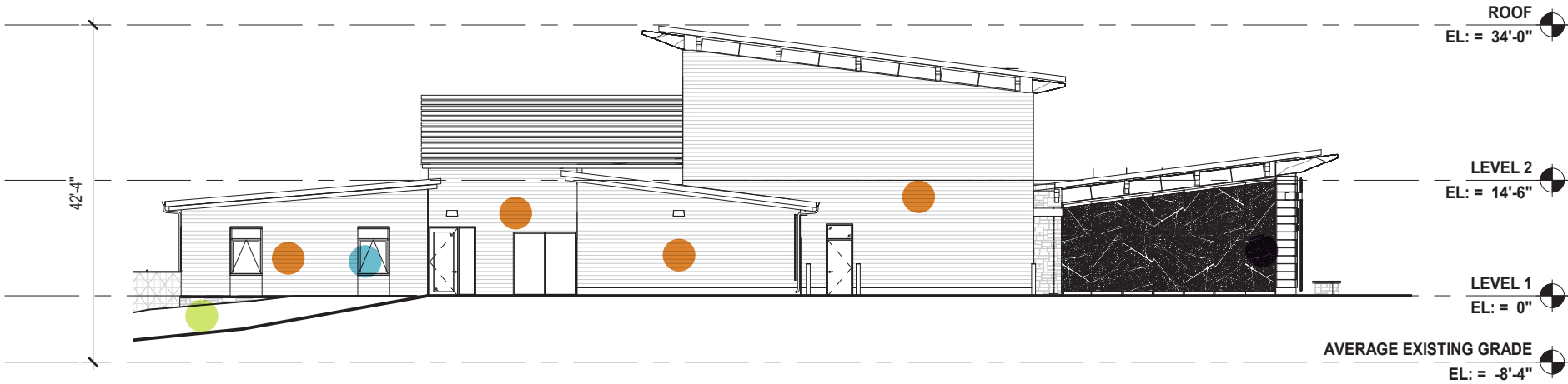


NEW CLINIC DESIGN  
ELEVATIONS - BUILDING MATERIALS

- Curtainwall w/ Operable Lites as shown
- Perforated Metal Sunshade/Bird Deterrent
- Fiber Cement Plank Rainscreen Wall
- Copper Anodized Rainscreen Wall
- Stone Masonry Cavity Wall: Cast Limestone
- Standing Seam Metal Roof (w/ PV as shown)

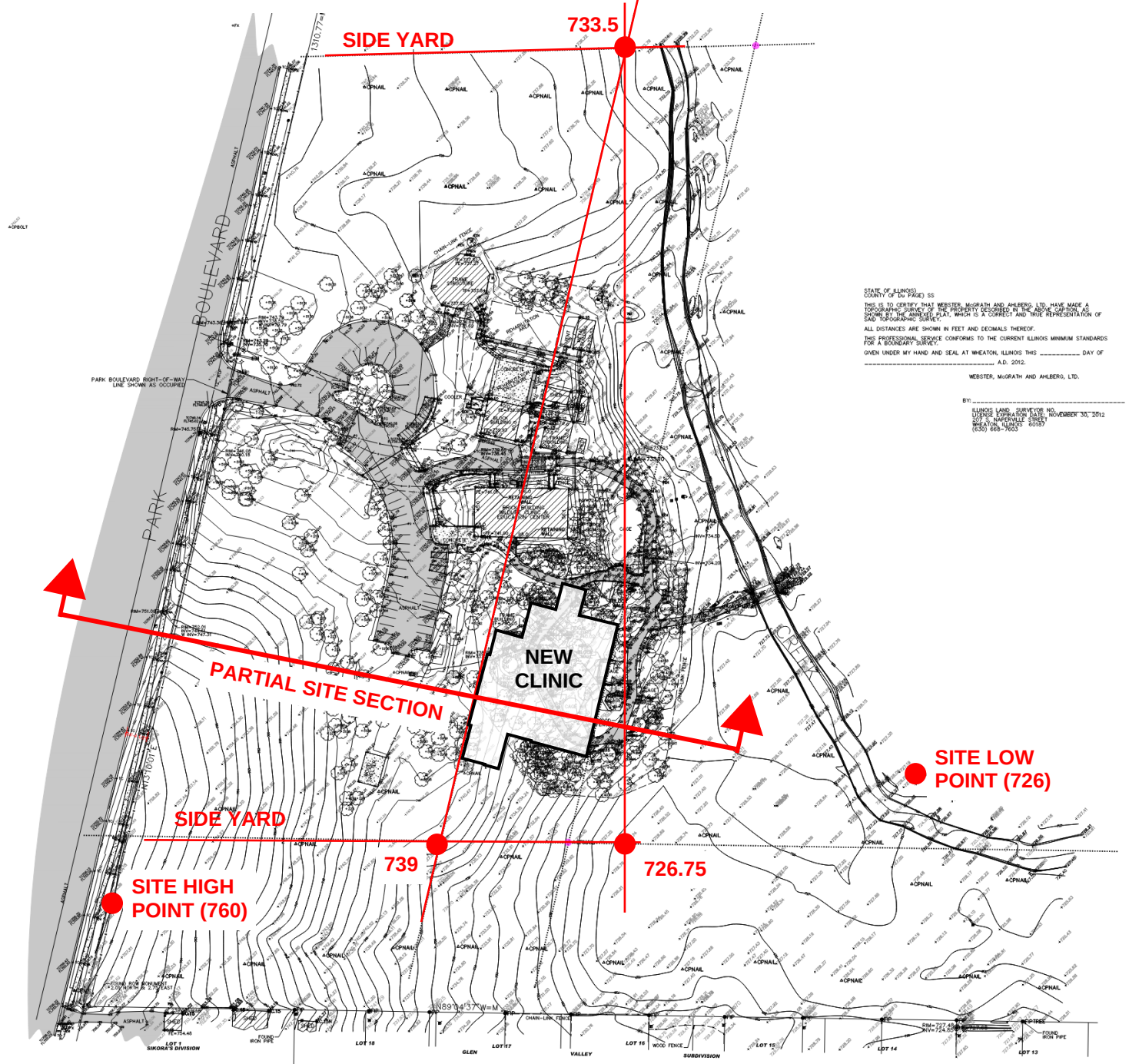
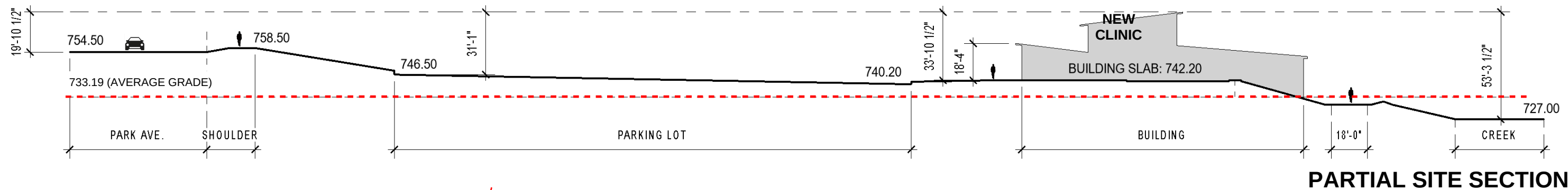


EAST ELEVATION



NORTH ELEVATION

# AVERAGE EXISTING GRADE CALCULATION



The physical conditions of the property present particular hardship to meeting the requested building height requirements of the ordinance based on the 'average existing grade' defined in Section 10-11-12. The existing topography of the property slopes significantly toward the creek in the middle of the site that equates to an 'average existing grade' that is approximately 9 feet lower than the proposed elevation of the new clinic. The building height relative to the existing parking lot meets the zoning ordinance 10-4-3(D) height requirement of 35 feet.

Limiting the building height relative to the average grade would require a single-story structure with a larger footprint. A larger footprint would increase the environmental disturbance of the site as well as reduce the operational efficiencies of the clinic.

**Average Existing Grade Definition:** The average grade is calculated from the grade elevations at the four points where an imaginary line parallel to the front and rear yard setback lines drawn through the furthest front and rear portion of the proposed structure respectively, intersects the required sideyard setback lines

**AVERAGE GRADE =**  
 $733.5 + 733.5 + 739 + 726.75 = 2,932.75$   
**DIVIDED BY 4 = 733.19**

PARTIAL GRADING PLAN



# NEW CLINIC DESIGN BUILDING MATERIALS

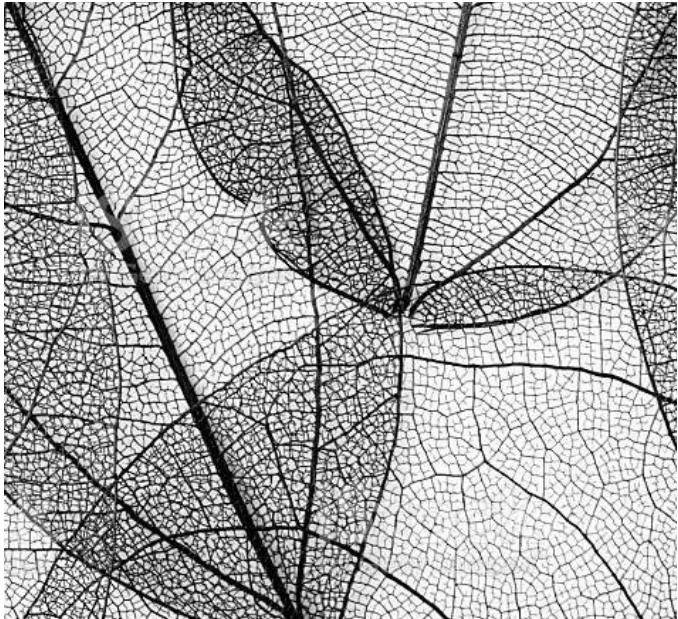
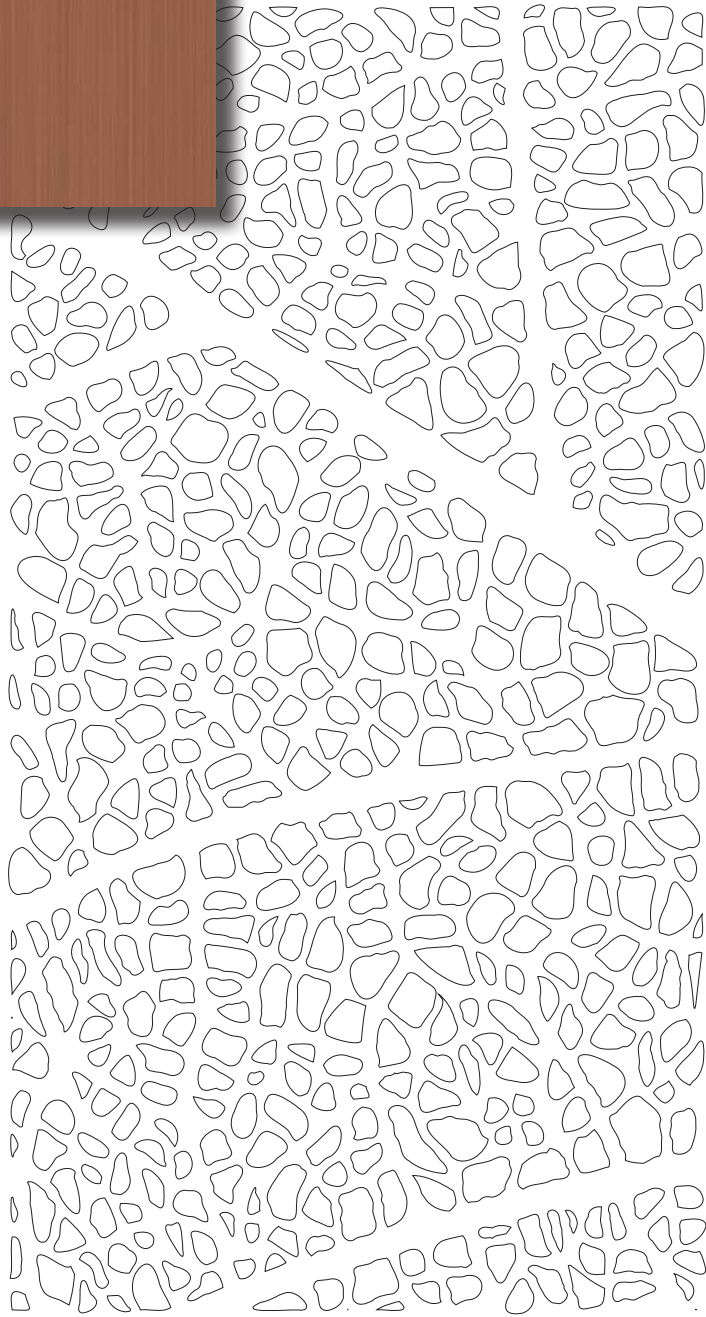


- 1 HALQUIST STONE - CHILTON BROWN
- 2 COPPER ANODIZED RAINSCREEN WALL
- 3 PERFORATED METAL BIRD SCREEN
- 4 FIBER CEMENT PLANK  
RAINSCREEN WALL
- 5 CURTAIN WALL
- 6 GLASS WITH ACID ETCH PATTERN
- 7 STRUCTURAL GLULAM SYSTEM
- 8 DOUGLAS FIR WOOD SPECIES





Anodized Copper Finish



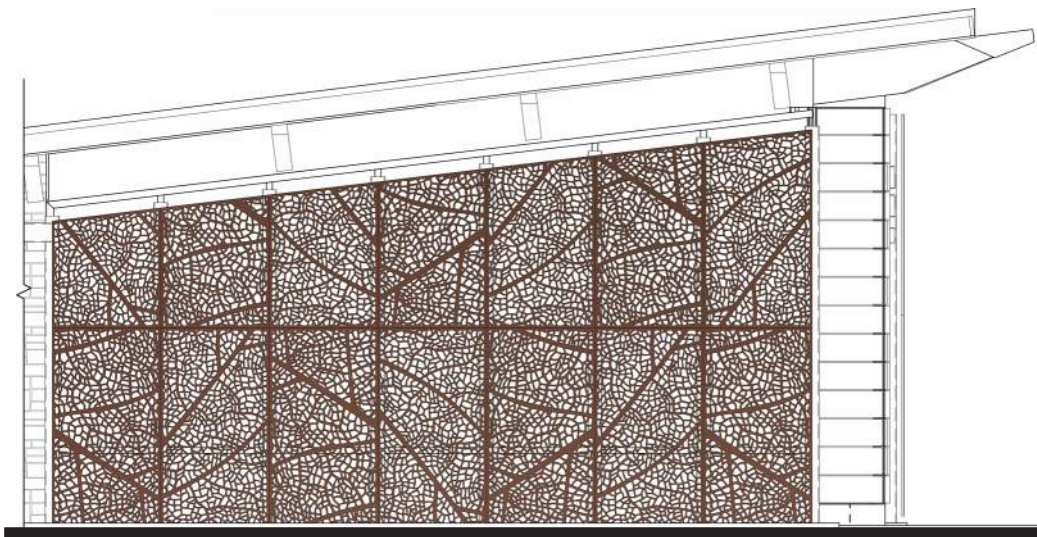
Leaf anatomy inspiration



Laser cut metal panel example



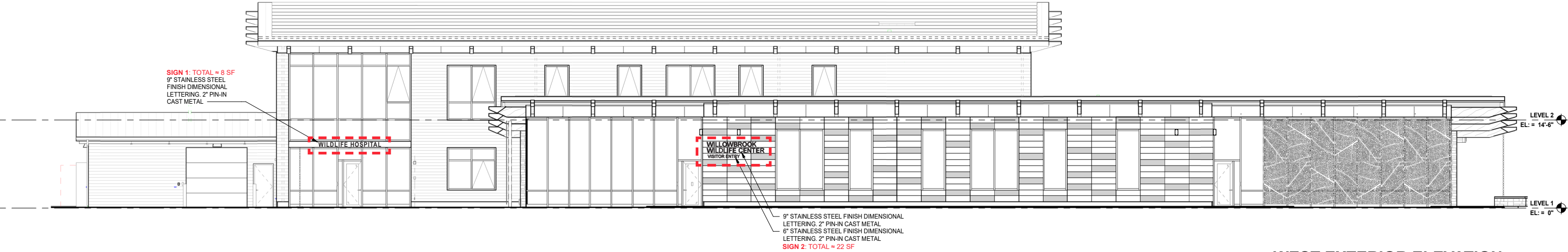
ELEVATION NORTH



ELEVATION WEST



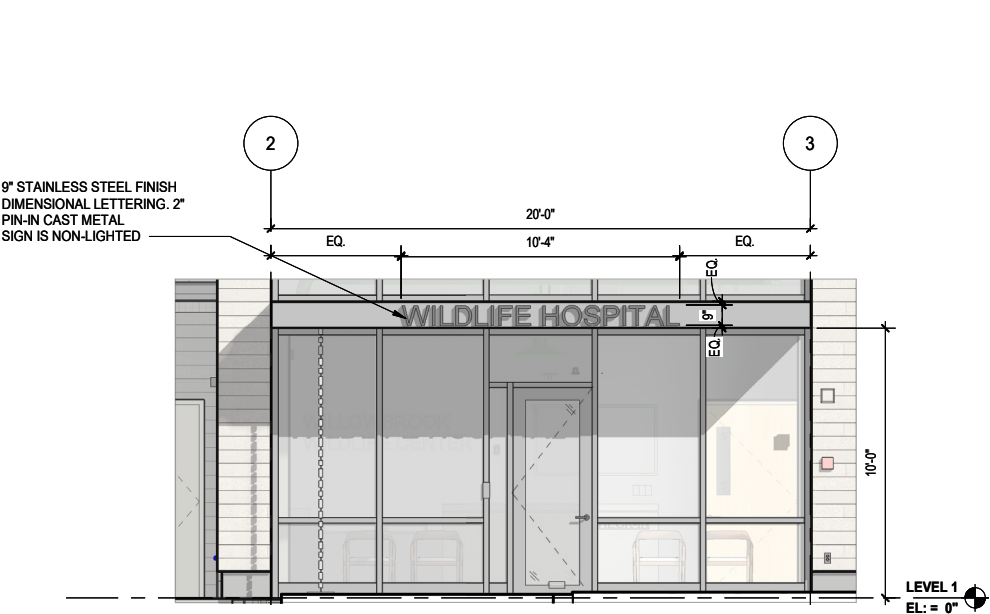
NEW CLINIC DESIGN  
EXTERIOR SIGNAGE



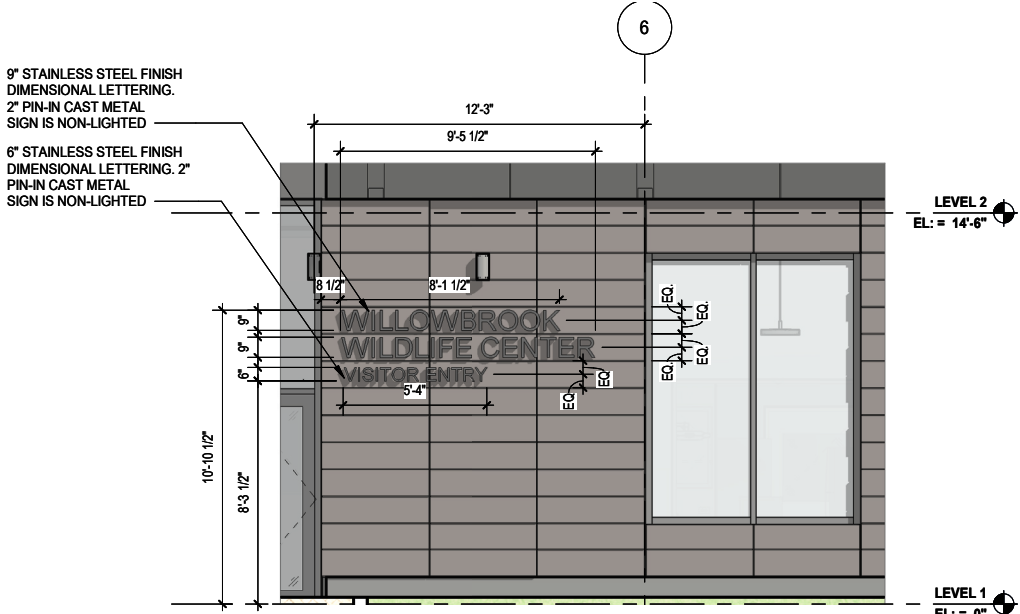
WEST EXTERIOR ELEVATION



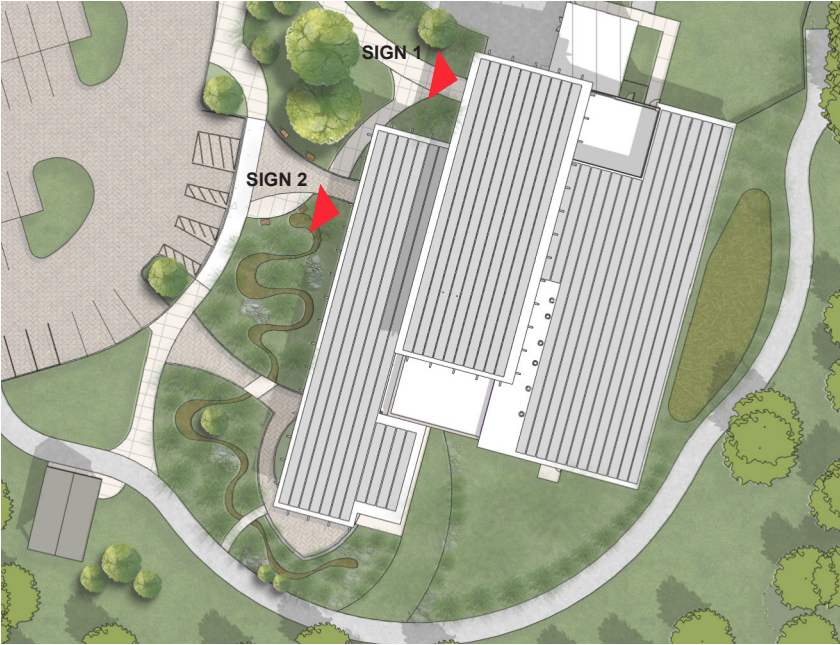
STAINLESS STEEL LETTER SIGN  
EXAMPLE



SIGN 1



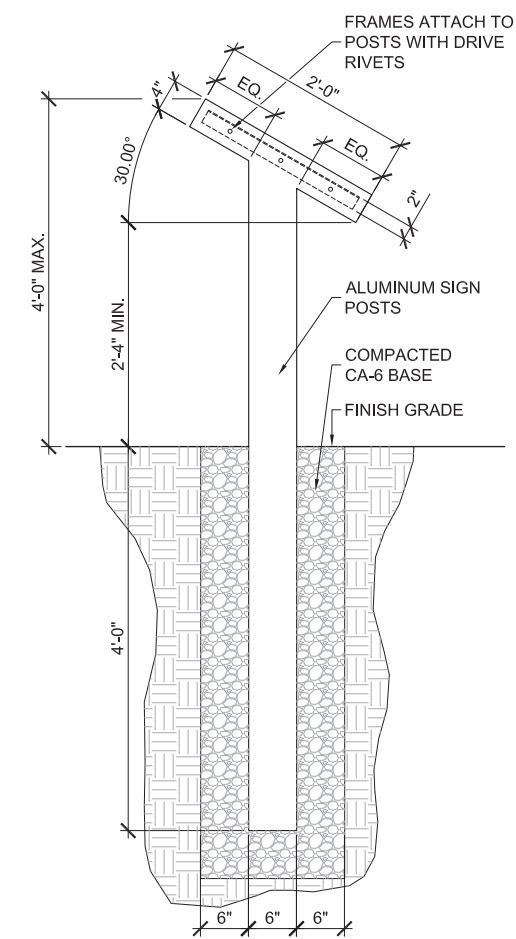
SIGN 2



SITE PLAN

NEW CLINIC DESIGN

EXTERIOR FREESTANDING INTERPRETIVE SIGNAGE



A3

L4.01

INTERPRETIVE PANEL DETAILS

SCALE: 1" = 1'-0"

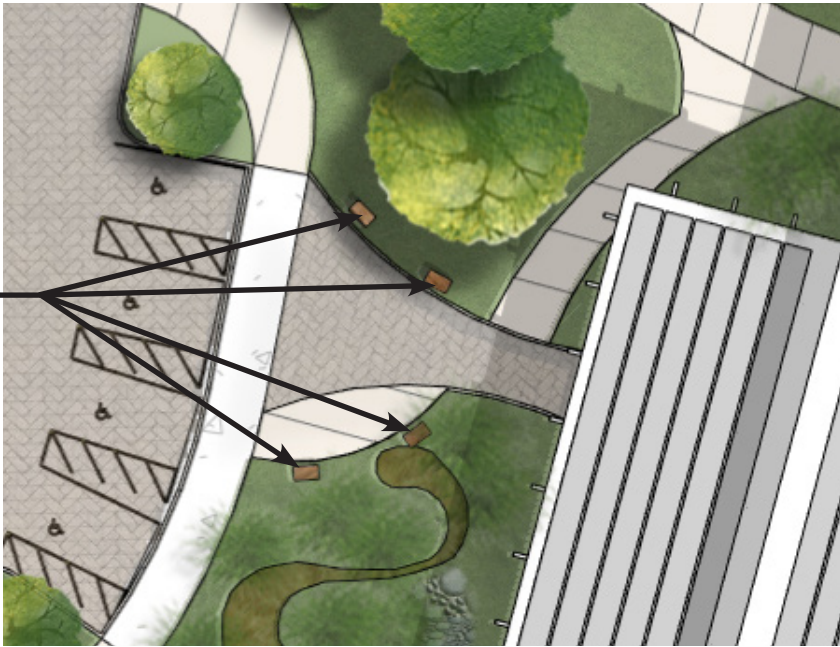


TYPICAL INSTALLATION



TYPICAL INSTALLATION

FREESTANDING  
INTERPRETIVE  
SIGNS



SITE PLAN



NEW CLINIC DESIGN  
COLOR BUILDING RENDERINGS - VIEW TO INTAKE & ENTRY



A separate animal patient entry and public entry welcome visitors to Willowbrook Wildlife Center.



NEW CLINIC DESIGN

COLOR BUILDING RENDERINGS - VIEW FROM PARKING LOT





NEW CLINIC DESIGN  
**COLOR BUILDING RENDERINGS - VIEW FROM PICNIC SHELTER**



A wildlife garden greets visitors as the building gradually steps back on the site as it gets taller, allowing it to blend into the environment.



NEW CLINIC DESIGN  
**COLOR BUILDING RENDERINGS - VIEW TO CLASSROOM**





NEW CLINIC DESIGN

**COLOR BUILDING RENDERINGS - VIEW FROM SOUTH EAST TRAIL**



South of the building, a new trailhead connects visitors to the east half of the site which includes interpretive and observation nodes.



NEW CLINIC DESIGN

**COLOR BUILDING RENDERINGS -VIEW FROM SITE ENTRY**

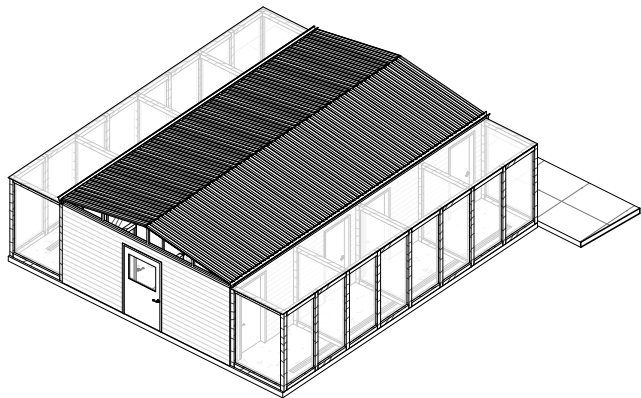


The new visitor center draws the public into the site while blending in to the natural environment.

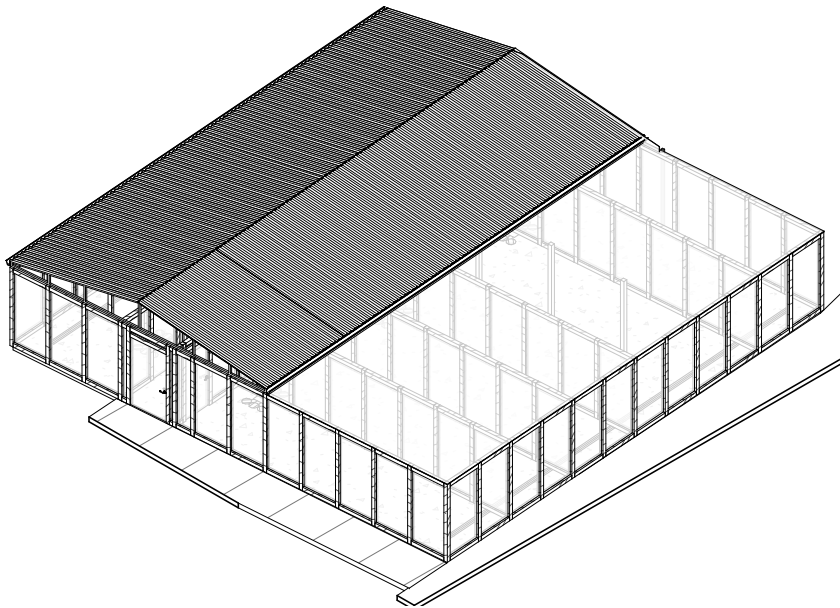
## OUTDOOR ENCLOSURES DESIGN



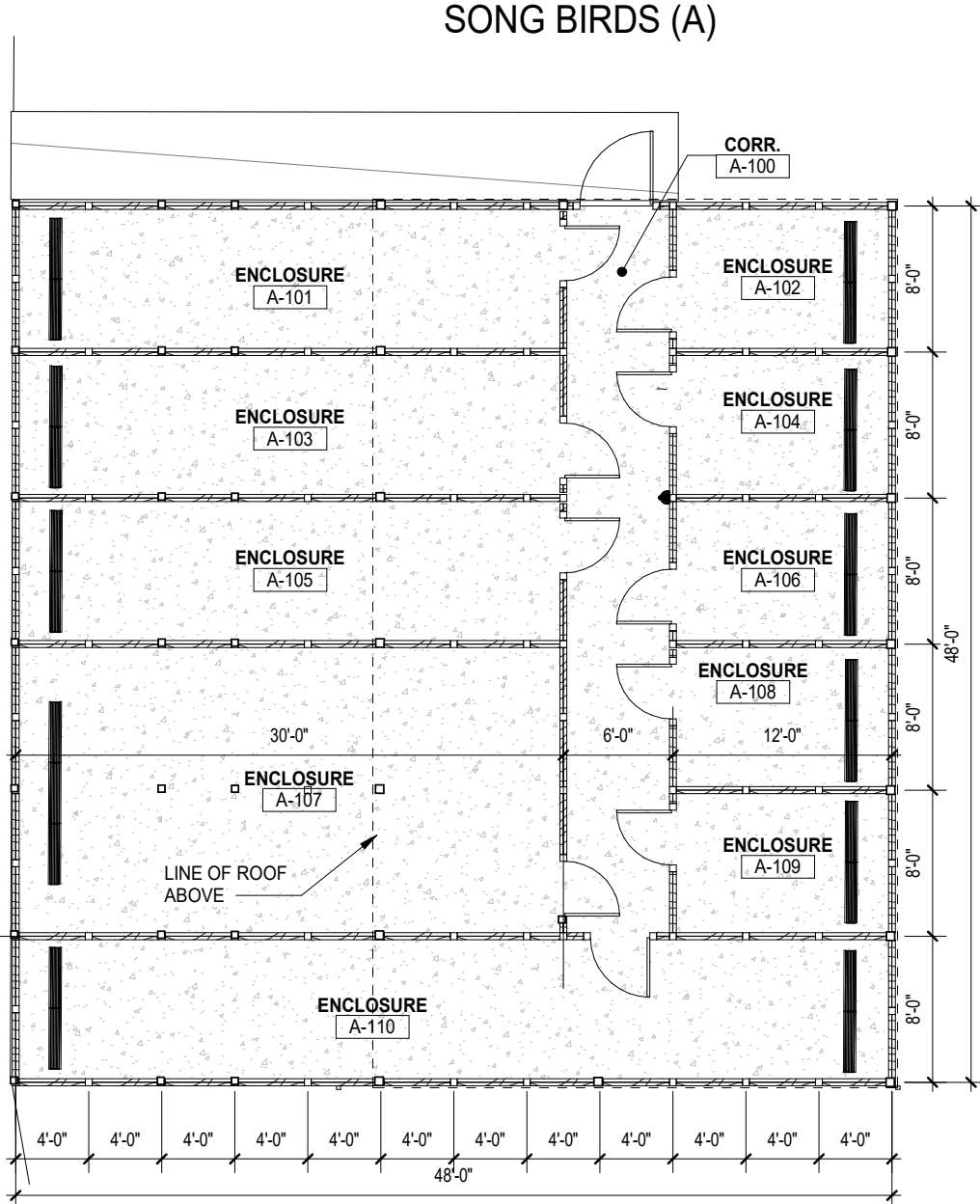
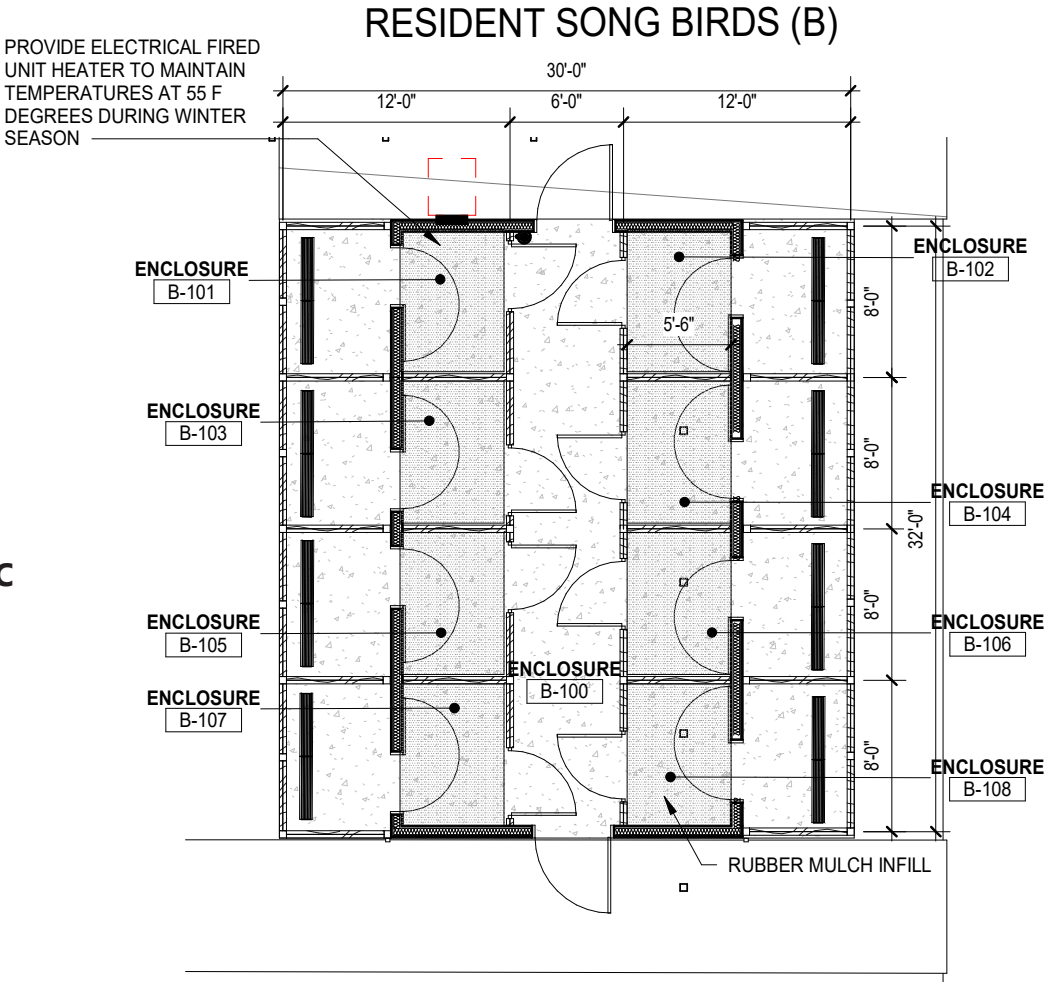
OUTDOOR ENCLOSURES DESIGN  
SONG BIRD ENCLOSURES (A,B)



RESIDENT SONG BIRD ENCLOSURE (B) AXONOMETRIC

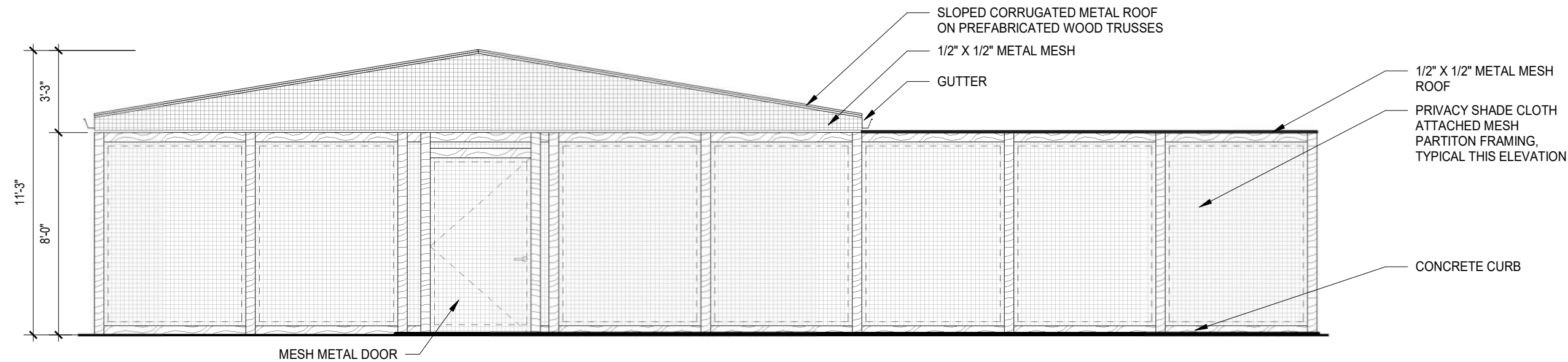


SONG BIRD ENCLOSURE (A) AXONOMETRIC

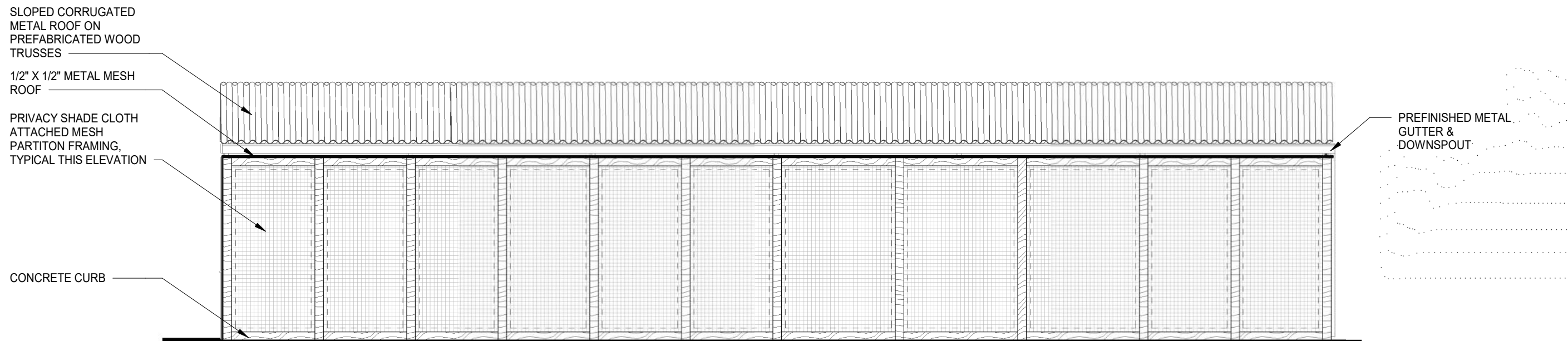


OUTDOOR ENCLOSURES DESIGN

# SONG BIRD ENCLOSURE (A,B) EXTERIOR ELEVATIONS



**1** BUILDING A - NORTH  
SCALE: 1/4" = 1'-0"

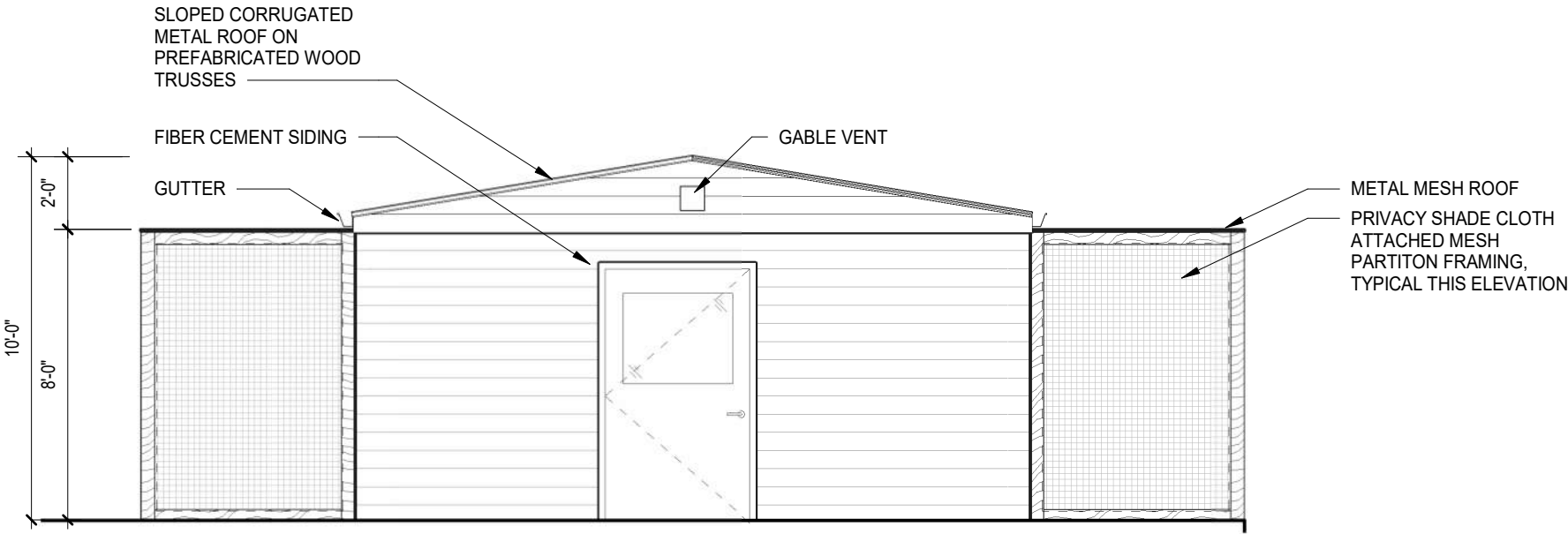


**2** BUILDING A - WEST  
SCALE: 1/4" = 1'-0"

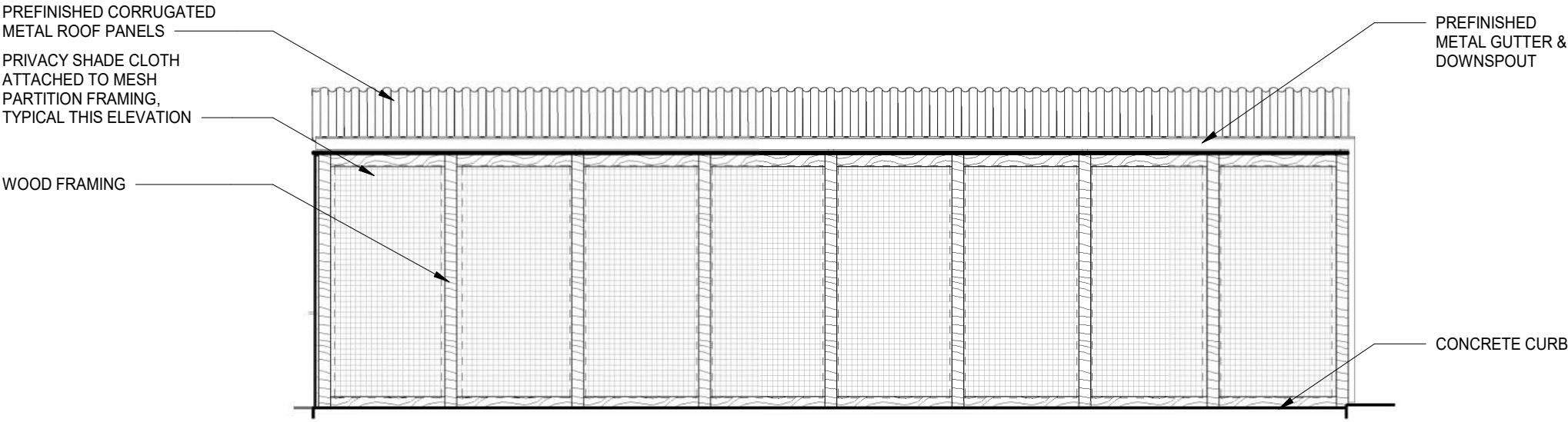


OUTDOOR ENCLOSURES DESIGN

# SONG BIRD ENCLOSURE (A,B) EXTERIOR ELEVATIONS

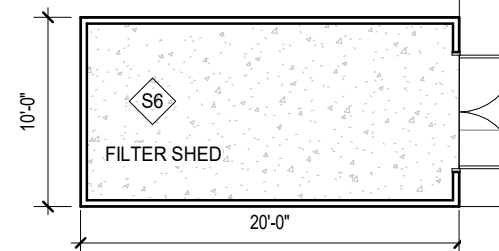


3 BUILDING B - NORTH  
SCALE: 1/4" = 1'-0"



4 BUILDING B - WEST  
SCALE: 1/4" = 1'-0"

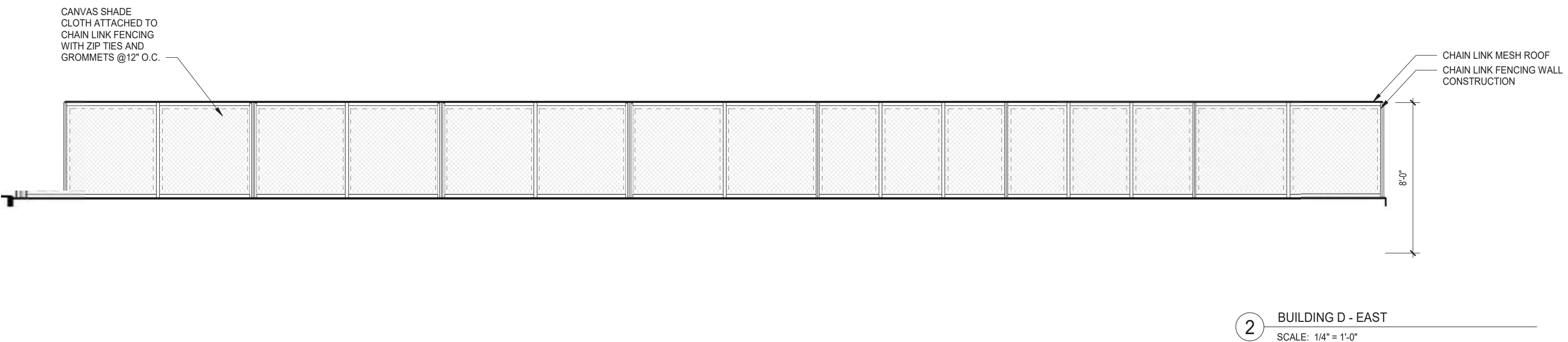
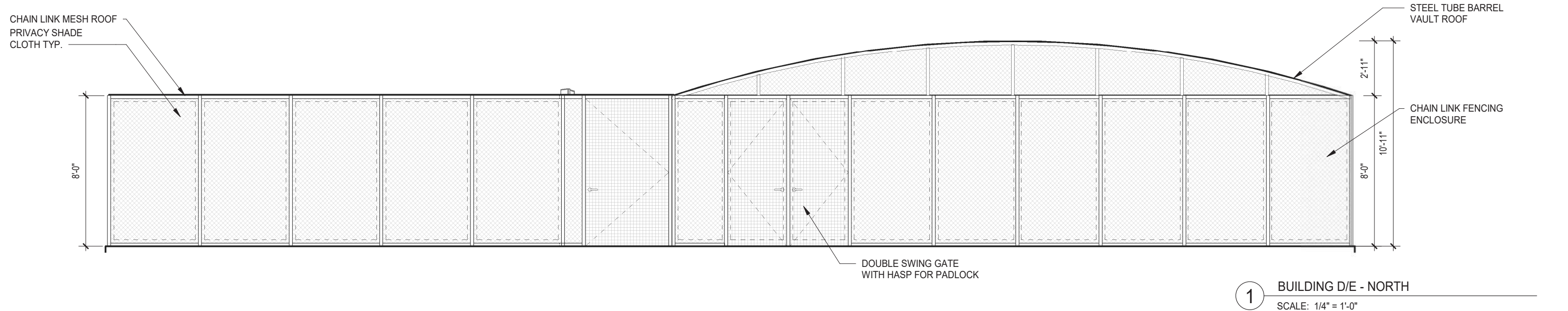
## OUTDOOR ENCLOSURES DESIGN





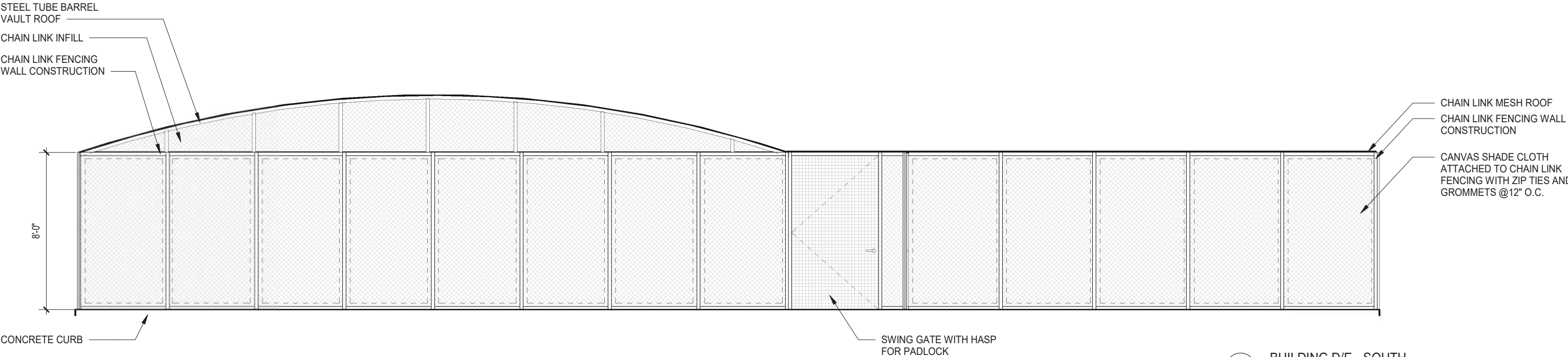
OUTDOOR ENCLOSURES DESIGN

LARGE WATERFOWL & AQUATIC MAMMAL PONDS ENCLOSURE (D,E) EXTERIOR ELEVATIONS



OUTDOOR ENCLOSURES DESIGN

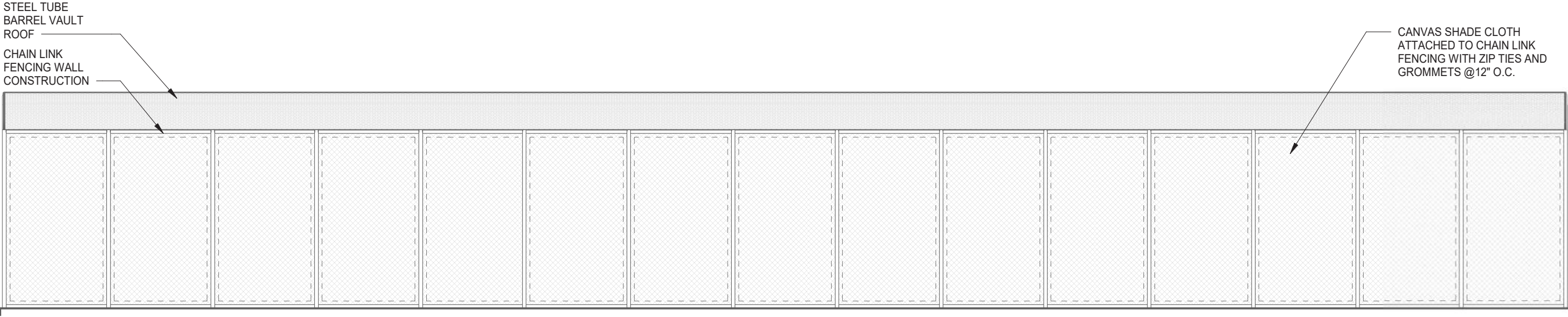
LARGE WATERFOWL & AQUATIC MAMMAL PONDS ENCLOSURE (D,E) EXTERIOR ELEVATIONS



3

BUILDING D/E - SOUTH

SCALE: 1/4" = 1'-0"



4

BUILDING E - WEST

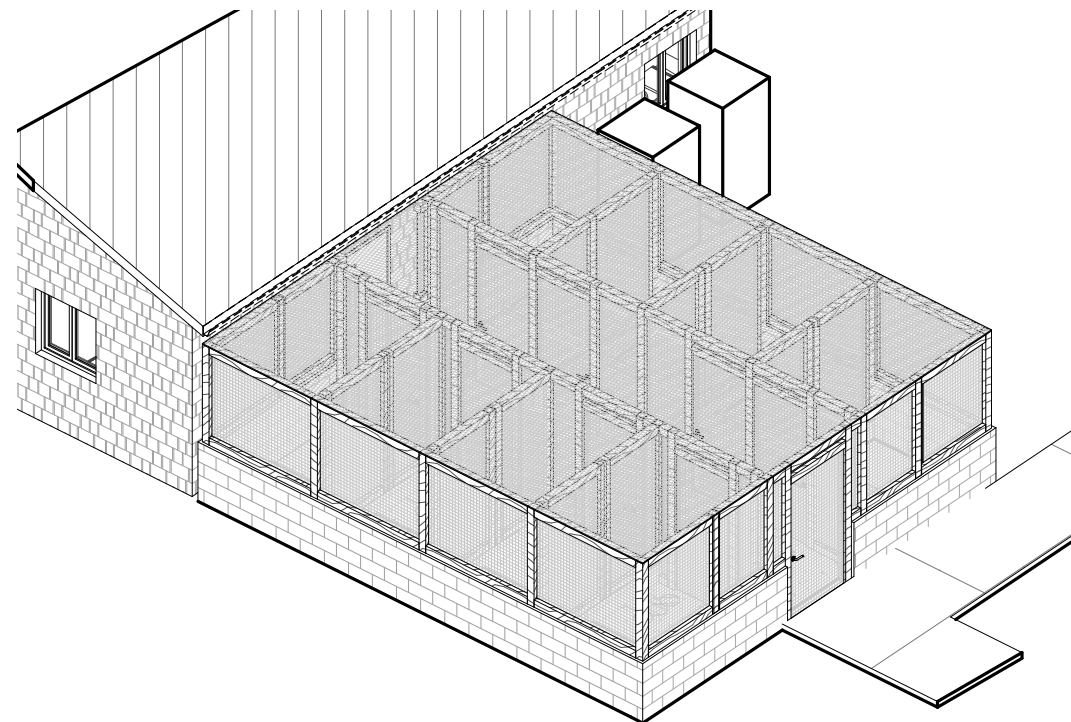
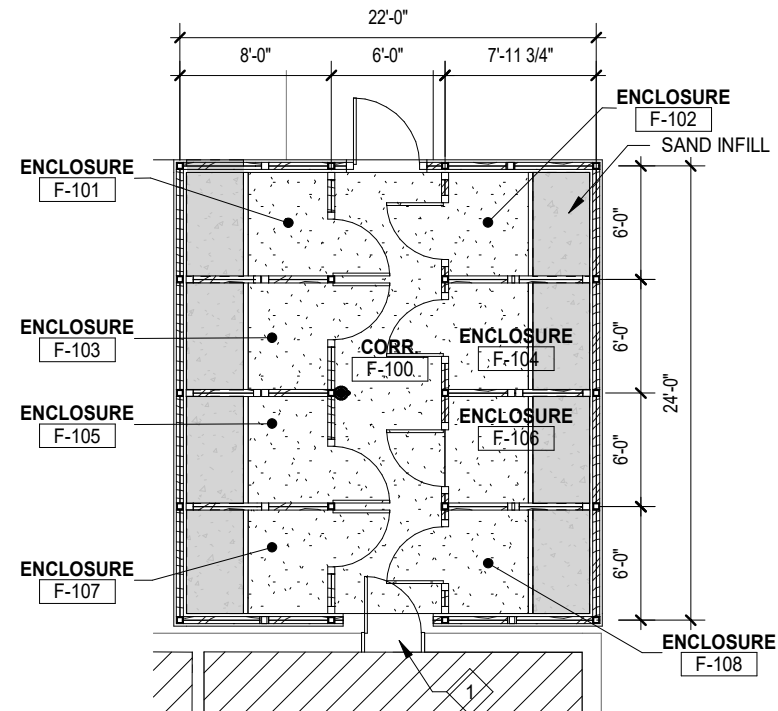
SCALE: 1/4" = 1'-0"



# OUTDOOR ENCLOSURES DESIGN

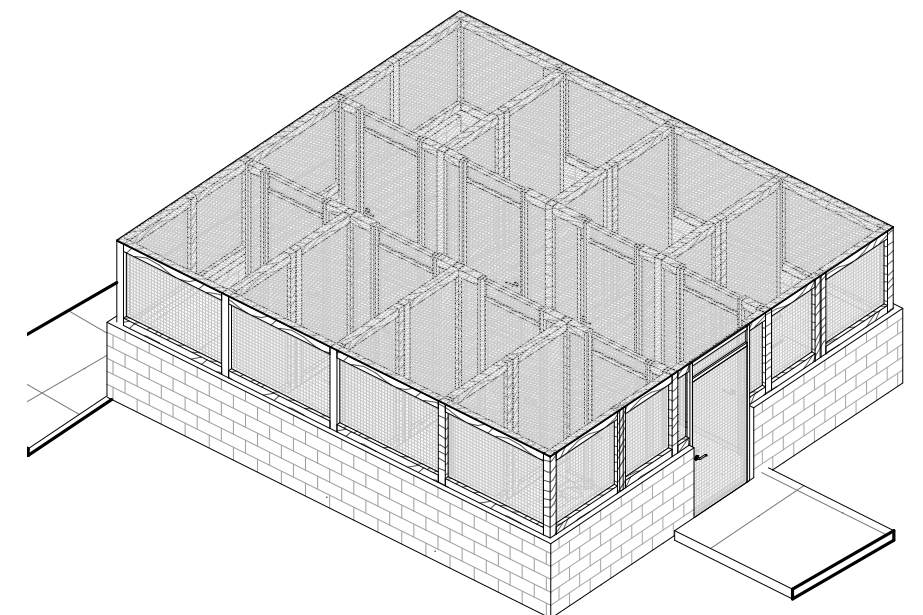
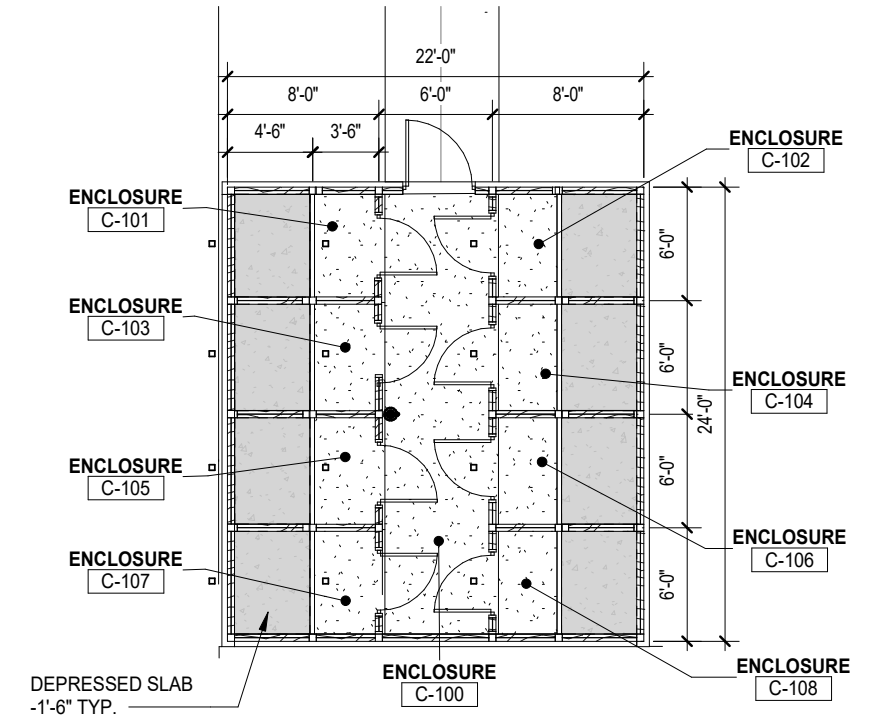
## TURTLE ENCLOSURES (C,F)

TURTLE  
ENCLOSURE  
(F)



TURTLE ENCLOSURE (F) AXONOMETRIC

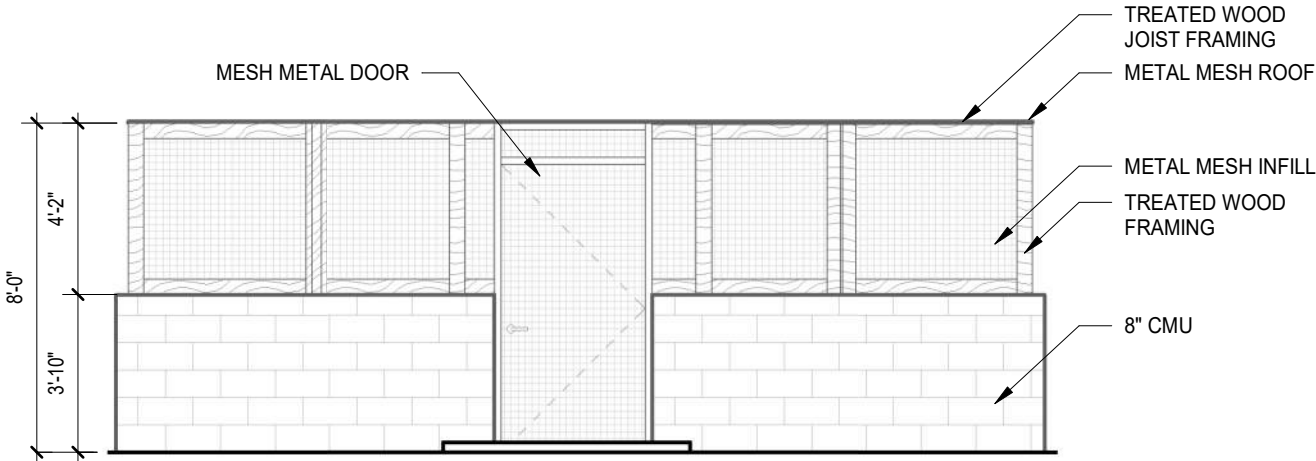
TURTLE ENCLOSURE (C)



TURTLE ENCLOSURE (C) AXONOMETRIC

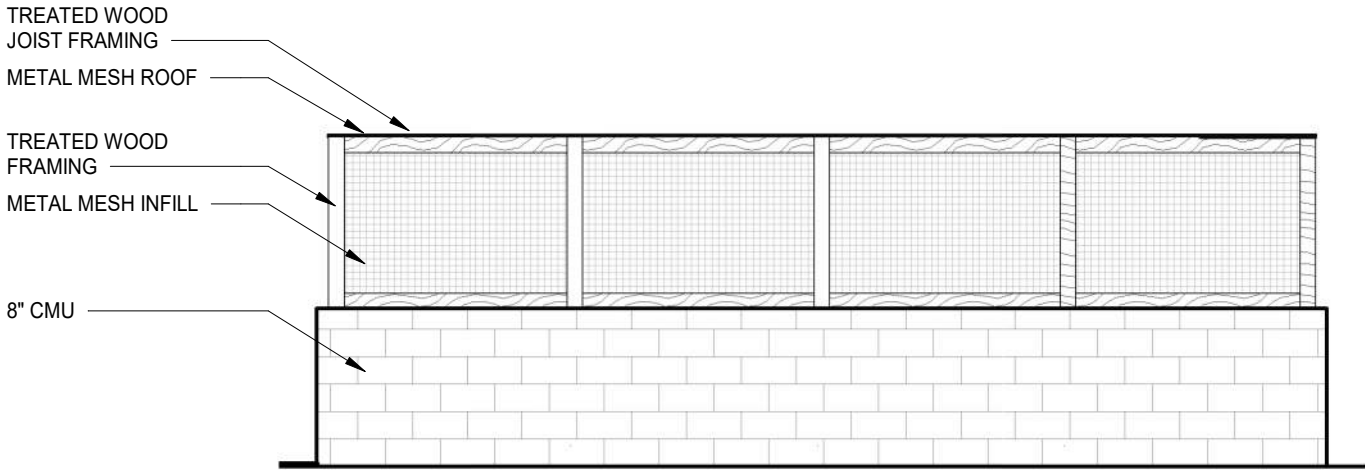
OUTDOOR ENCLOSURES DESIGN

**TURTLE ENCLOSURES (C,F) EXTERIOR ELEVATION**



**5** BUILDING C/F - NORTH

SCALE: 1/4" = 1'-0"



**6** BUILDING C/F - EAST

SCALE: 1/4" = 1'-0"



# OUTDOOR ENCLOSURES DESIGN

## EXTERIOR MATERIALS



WELDED WIRE MESH - GREY - GALVANIZED



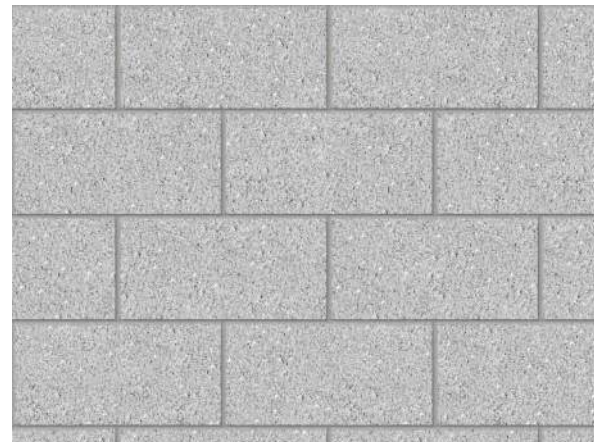
HORIZONTAL CEMENT SIDING - TAUPE COLOR



PRESSURE TREATED PLYWOOD  
SHEATHING - NATURAL (NO SATIN)



CHAIN LINK FENCING - GREY - GALVANIZED



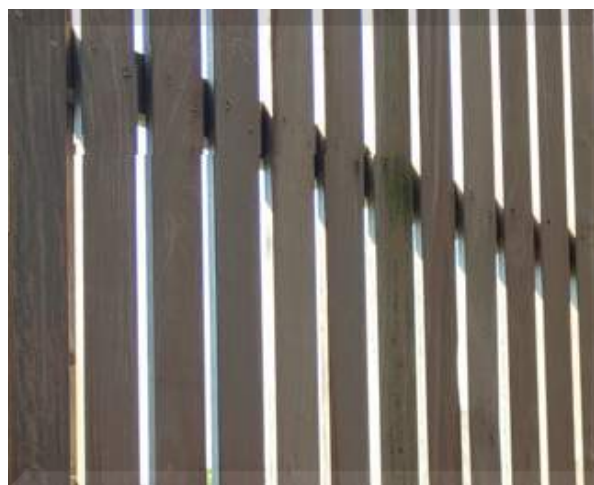
CONCRETE MASONRY UNIT - NATURAL GREY



HDPE SOLID PLASTIC PRIVACY PANELS - WHITE



PRIVACY CANVAS SHADE CLOTH - GREEN OR BLACK



PRESSURE TREATED WOOD CLADDING  
BOARDS - NATURAL (NO SATIN)



STANDING SEAM ROOF - LIGHT GREY



OUTDOOR ENCLOSURES DESIGN  
**EXTERIOR RENDERINGS**

**SONG BIRD ENCLOSURE (A)**





**LARGE WATERFOWL AND AQUATIC MAMMAL ENCLOSURES (D,E)  
SONG BIRD ENCLOSURE (B)**





OUTDOOR ENCLOSURES DESIGN  
**EXTERIOR RENDERINGS**

**TURTLE ENCLOSURE (C)**  
**LARGE WATERFOWL AND AQUATIC MAMMAL ENCLOSURES (D,E)**





# OWNERSHIP BY A CORPORATION

Date: **07/07/2022**

Address: **525 S. Park Blvd., Glen Ellyn, IL 60137**

## Legal Description:

PIN 05-26-200-001

Legal Description as per Chicago Title and Trust Company Policy 240879

That part of the north half of Section 26, Township 39 North, Range 10 East of the third principal meridian, described as follows: beginning at the intersection of the center line of Joliet Road (also known as Park Boulevard) with the north line of said Section 26 and running thence North 89° 36' East 1305.2 feet to fence corner; thence South 0° 52' West 1324.0 feet to fence corner; thence north 88° 17' West along fence line 1591 feet, more or less, to the center of Joliet Road (also known as Park Boulevard); thence North 13° 30' East along the center of Joliet Road (also known as Park Boulevard) 1307 feet, more or less, to the point of beginning, in DuPage County, Illinois.

## LIST ALL SHAREHOLDERS AND OFFICERS/DIRECTORS (AND % OF INTEREST OWNED IN EXCESS OF 5% OF STOCK)

|                  |                |         |
|------------------|----------------|---------|
| Name: <b>N/A</b> | Address: _____ | % _____ |
| Name: <b>N/A</b> | Address: _____ | % _____ |
| Name: <b>N/A</b> | Address: _____ | % _____ |
| Name: <b>N/A</b> | Address: _____ | % _____ |
| Name: <b>N/A</b> | Address: _____ | % _____ |
| Name: <b>N/A</b> | Address: _____ | % _____ |
| Name: <b>N/A</b> | Address: _____ | % _____ |
| Name: <b>N/A</b> | Address: _____ | % _____ |
| Name: <b>N/A</b> | Address: _____ | % _____ |
| Name: <b>N/A</b> | Address: _____ | % _____ |
| Name: <b>N/A</b> | Address: _____ | % _____ |
| Name: <b>N/A</b> | Address: _____ | % _____ |
| Name: <b>N/A</b> | Address: _____ | % _____ |
| Name: <b>N/A</b> | Address: _____ | % _____ |
| Name: <b>N/A</b> | Address: _____ | % _____ |
| Name: <b>N/A</b> | Address: _____ | % _____ |

## Affidavit Affirming No Conflict of Interest

The undersigned, being duly sworn and under oath, states as follows:

1. My name is **Karie Frilling**, and I hold the position of **Executive Director** for **Forest Preserve District of Dupage County** ("**Applicant**").
2. I have personal knowledge of all facts stated in this Affidavit, and if called to testify, I could and would testify competently thereto.
3. I am authorized by the Applicant to make the representations and statements in this Affidavit on the Applicant's behalf in support of the application for development approval ("**Application**") the Applicant filed with the Village of Glen Ellyn ("**Village**").
4. To the best of my knowledge, and as of the Application's date, no individual that is employed by the Village or sits on an elected or appointed Village board or commission has a financial interest in the Applicant, the Application, or the project proposed by the Applicant.
5. To the best of my knowledge, and as of the Application's date, no individual that is related to any person that is employed by the Village or sits on an elected or appointed Village board or commission has a financial interest in the Applicant, the Application, or the project proposed by the Applicant.
6. I will immediately notify the Village if the Applicant learns of the material inaccuracy of any statement within this Affidavit.

Further affiant sayeth naught.



Name: **Karie Frilling**

Title: **Executive Director**

Applicant's Name: *Karie Frilling*

Subscribed and sworn to me this

27 day of October, 2022.

*Mary Frances P. Sheahan*  
Notary Public



## AFFIDAVIT OF AUTHORIZATION

I, Karie Frilling - Executive Director, Forest Preserve District of DuPage County owner of the property described as

**Willowbrook Wildlife Center at Willowbrook Forest Preserve 525 S. Park Ave. Glen Ellyn, IL**

verify that Kevin Horsfall - Assistant Director of Resource Management and Development is duly authorized to apply and represent my interests before the Glen Ellyn Plan Commission, Village Board and/or Zoning Board of Appeals. Owner acknowledges that any notice given applicant is actual notice to owner.



Karie Frilling  
OWNER SIGNATURE  
12/28/2022  
DATE

Subscribed and sworn to before me this

28 day of December, 2022

Mary Frances P. Sheahan

Notary Public

## REIMBURSEMENT OF FEES AGREEMENT

Village of Glen Ellyn Acct: # \_\_\_\_\_

Initial Deposit Amount: \_\_\_\_\_

- I. DESCRIPTION OF PROJECT: Construction of a new clinic building, 5 outdoor wildlife rehabilitation enclosures for song birds (960 SF and 2,304 SF), turtles (2 @ 528 SF) and waterfowl (4,620 SF), related site work, and light renovation of the existing propagation building.
- II. OWNER:
- A. Owner of Property: Forest Preserve District of DuPage County
- B. Owner's Address: 3S580 Naperville Road, Wheaton, IL 60189
- C. Owner's Home Phone Number: 630-933-7200 Fax: 630-933-7686
- D. Owner's Work Phone Number: 630-933-7225
- E. Owner's E-mail: kfrilling@dupageforest.org / Executive Director Forest Preserve District of DuPage County
- F. If Owner is a Land Trust or Corporation, the attached disclosures of interest should be filled out.
- III. PERSON MAKING REQUEST (Petitioner):
- A. Name of Petitioner: Kevin Horsfall/Assistant Director of Resource Management and Development
- B. Petitioner's Address: 3S580 Naperville Rd. Wheaton, IL 60189
- C. Petitioner's Phone Number: 630-933-7200
- D. Petitioner's Work Number: 630-933-7242 (direct)
- E. Petitioner's E-mail: khorsfall@dupageforest.org
- IV. LOCATION OF PROPERTY:
- A. General Location of Property: 525 S. Park Blvd., Glen Ellyn, IL
- B. Acreage of Parcel: 43.08 Acres
- C. Permanent Index Number(s): PIN 05-26-200-001
- D. Legal Description (Please attach)
- V. REIMBURSEMENT OF FEES:

The Ordinances of the Village require the owners of property, or individuals seeking to utilize property, to receive approval by ordinance or the issuance of a permit to undertake various uses or improvements of property in the Village. These uses can include requests for textual or map changes in the Zoning Ordinance, applications for building permits, requests for zoning relief and other similar requests. The Village has established a fee schedule for the anticipated use of staff time in processing such petitions or applications. In many cases, however the Village cannot reasonably evaluate the validity or compliance of the petition or application with the Ordinances of the Village without the use of reports from various consultants. In some cases, the application or petition requires among other things, public hearings and associated public notice costs, preparation of minutes or transcripts from the public hearing or meeting, recording costs of Ordinances and the



preparation of reports by consultants whose services require the payment of out-of-pocket expenses by the Village. These expenses would not have been incurred but for the petition or application. The Village does not intend to seek to make a profit on its utilization of such consultants, but requires that the applicant, or the person receiving benefit, shall be obligated to reimburse the out-of-pocket expenses incurred by the Village. The Village shall seek to employ consultants who shall charge rates consistent with those paid by private parties who seek similar consulting services. The Village intends, through this Agreement, to cause the payment of out-of-pocket expenses and to require the creation of an escrow fund to guarantee that the petition or application will not result in the citizens of the Village being required to pay for costs incurred at the request of the owner or applicant.

This document shall constitute a contract when an application is made for a license, permit, request for zoning relief or other approval involving the use of real property. Should the Village, in its sole and exclusive discretion, determine that it is necessary or desirable for the Village to obtain professional services, including, but not limited to, attorneys, engineers, planners, architects, surveyors, court reporters, traffic, drainage or other consultants, including full and/or part time site inspection services during the actual construction of any required improvements, and/or to incur costs related to any required notices or recordations, in connection with any application or petition filed by the petitioner then the petitioner and owner shall be jointly and severally liable for the payment of such professional fees and costs, as shall actually be incurred by the Village. The Community Development Director is hereby authorized to assign the above described services to the Village staff or to consultants, as the Director deems appropriate and without prior notification to the petitioner.

Any application or petition to be reviewed by the Community Development Department or by the Plan Commission shall require the petitioner to establish an escrow account with the Village in an amount determined by the Community Development Director to reimburse the Village for all out of pocket costs associated with the request. These out of pocket costs will cover such things as services provided by the Village's consulting engineer, consulting attorney, consulting planner, traffic consultant, wetland consultant, landscape consultant, architectural consultant, appraiser and transcriber, among others, as well as reproduction costs, public hearing notice costs, recording costs, etc. Along with the application the petitioner shall also submit a signed copy of this agreement thereby acknowledging and agreeing to reimburse the Village for all out of pocket costs associated with the application or petition.

This agreement shall be accompanied by an initial deposit in an amount to be determined by the Director of Community Development but shall be no less than \$500. The Village will provide an itemized list of Village expenses incurred related to any charge to the escrow account, and the petitioner shall deposit funds to reimburse the Village for those expenses upon notice from the Village that the deposit has dropped below \$300. If the expenses are not reimbursed, then reviews meetings and permits associated with out of pocket costs will cease, and the request will not be moved forward through the review process. At the completion of the review process, and development of the project, if appropriate, any remaining balance from the deposit will be returned to the petitioner, without interest, after all expenses have been paid.

The Village shall deduct the incurred expenditures and costs from the funds deposited. If the remaining deposit balance falls below \$300.00, the petitioner, upon notice by the Village, shall be required to replenish the deposit to its initial amount. The Village shall mail the petitioner regular invoices for the fees and costs incurred. The petitioner shall replenish the deposit amount within thirty (30) days of issuance of each such invoice directing replenishment of the deposit.

A petitioner who withdraws his or her petition may apply in writing to the Community Development Director for a refund of his or her remaining escrow balance. The Community Development Director may, at his or her discretion, approve such refund less any actual fees and costs, which the Village has already paid or incurred relative to the application.

Upon the failure of the petitioner or owner to reimburse the Village in accordance with this Agreement, no further action shall be undertaken on the application by the Village President and Board of Trustees, or by any other official or quasi-official individual or body thereunder, including the conduct of any hearings or deliberations, reviews of any plans or applications, the granting of any relief or approvals, issuance of any permits or occupancies, performance of inspections and the

execution or recording of any documents, until all such outstanding fees are paid in full and/or the initial deposit is restored to its full amount. Upon any failure to reimburse the Village in accordance with this Section, the Village may in its discretion, apply any or all of the initial deposit to the outstanding balance due.

The remedies available to the Village as set forth hereinabove are non-exclusive and nothing herein shall be deemed to limit or waive the Village's right to seek relief of such fees against any or all responsible parties in a court of competent jurisdiction.

Any remaining balance of any funds deposited pursuant to this Agreement shall be refunded at such time as the completion of Village deliberation on the petition or application, recordation of all necessary documents associated with the petition or application, issuance of a building permit, approval of a final inspection, or issuance of a final certificate of occupancy upon the real property in question whichever occurs later.

BY SIGNING BELOW, THE PETITIONER AND OWNER ACKNOWLEDGE THAT EACH OF THEM HAS READ THE FOREGOING PARAGRAPHS AND EACH OF THEM FULLY UNDERSTANDS AND AGREES TO COMPLY WITH THE TERMS SET FORTH HEREIN. FURTHER, BY SIGNING BELOW, EACH SIGNATORY WARRANTS THAT HE/SHE/IT POSSESSES FULL AUTHORITY TO SO SIGN.

THE PETITIONER AND OWNER AGREE THAT PETITIONER AND OWNER SHALL BE JOINTLY AND SEVERALLY LIABLE FOR PAYMENT OF FEES REFERRED TO IN APPLICABLE SECTIONS OF THE ORDINANCES OF THE VILLAGE OF GLEN ELLYN, AND THE OBLIGATIONS FOR PAYMENT RELATING TO THE FILING OF PETITION OR APPLICATION, AS SET FORTH HEREIN.

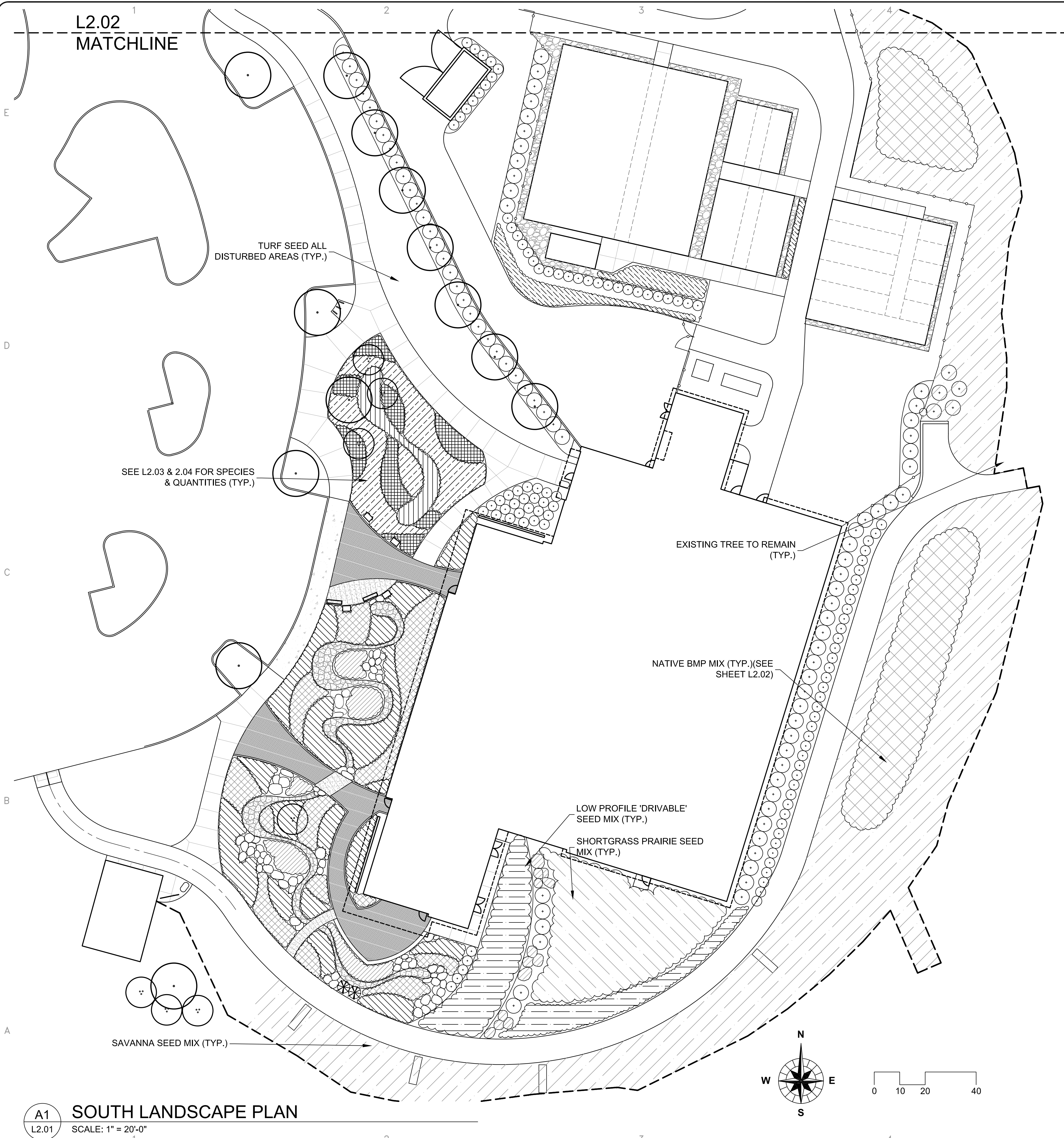
Kevin Horsfall  
Petitioner  
Katie Fuley  
Owner  
Date: 10/27/2022

Village of Glen Ellyn

By: \_\_\_\_\_  
Community Development Director

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





**A1**  
L2.01

**SOUTH LANDSCAPE PLAN**

SCALE: 1" = 20'-0"

**D5**  
L2.01

**MASTER PLANT LIST**

| Shortgrass Prairie Seed Mix         |                              |            |           |
|-------------------------------------|------------------------------|------------|-----------|
| Botanical Name                      | Common Name                  | Lb. / Acre | Oz / Acre |
| <i>Andropogon scoparius</i>         | Little Bluestem              | 3,000      | 48        |
| <i>Bouteloua curtipendula</i>       | Side-oats Grama              | 3,000      | 48        |
| <i>Carex bicknellii</i>             | Copper-shouldered Oval Sedge | 2,000      | 32        |
| <i>Elymus canadensis</i>            | Canada Wild Rye              | 2,000      | 32        |
| <i>Koeleria macrantha</i>           | June Grass                   | 0.125      | 2         |
| <i>Allium cernuum</i>               | Nodding Onion                | 0.500      | 8         |
| <i>Aquilegia canadensis</i>         | Wild Columbine               | 0.250      | 4         |
| <i>Asclepias tuberosa</i>           | Butterfly Weed               | 1,000      | 16        |
| <i>Dalea purpurea</i>               | Purple Prairie Clover        | 0.250      | 4         |
| <i>Eryngium yuccifolium</i>         | Rattlesnake Master           | 0.500      | 8         |
| <i>Echinacea purpurea</i>           | Purple Coneflower            | 1,000      | 16        |
| <i>Penstemon digitalis</i>          | Foxglove Beard Tongue        | 0.250      | 4         |
| <i>Rudbeckia hirta</i>              | Black-eyed Susan             | 0.250      | 4         |
| <i>Rudbeckia fulgida</i>            | Orange Coneflower            | 0.500      | 8         |
| <i>Symphyotrichum novae-angliae</i> | New England Aster            | 0.250      | 4         |
| Total Weight of Seeds               |                              | 14.875     | 238       |

| Low Profile/ Drivable Seed Mix |                 |            |           |
|--------------------------------|-----------------|------------|-----------|
| Botanical Name                 | Common Name     | Lb. / Acre | Oz / Acre |
| <i>Andropogon scoparius</i>    | Little Bluestem | 10,000     | 160       |
| <i>Bouteloua curtipendula</i>  | Side-oats Grama | 10,000     | 160       |
| <i>Koeleria macrantha</i>      | June Grass      | 0.125      | 2         |
| Total Weight of Seeds          |                 | 6,000      | 96        |

| Savanna Mix                   |                   |            |           |
|-------------------------------|-------------------|------------|-----------|
| Botanical Name                | Common Name       | Lb. / Acre | Oz / Acre |
| <i>Andropogon scoparius</i>   | Little Bluestem   | 3,000      | 48        |
| <i>Bouteloua curtipendula</i> | Side-oats Grama   | 3,000      | 48        |
| <i>Carex grisea</i>           | Wood Gray Sedge   | 0.500      | 8         |
| <i>Carex molesta</i>          | Field Oval Sedge  | 0.500      | 8         |
| <i>Carex vulpinoidea</i>      | Brown Fox Sedge   | 0.500      | 8         |
| <i>Elymus hystrix</i>         | Bottlebrush Grass | 2,000      | 32        |
| <i>Elymus virginicus</i>      | Virginia Wild Rye | 5,000      | 80        |

|                                     |                       |       |    |
|-------------------------------------|-----------------------|-------|----|
| <i>Asclepias exaltata</i>           | Poke Milkweed         | 0.500 | 8  |
| <i>Aquilegia canadensis</i>         | Wild Columbine        | 0.250 | 4  |
| <i>Dodecatheon meadia</i>           | Shooting Star         | 0.125 | 2  |
| <i>Echinacea purpurea</i>           | Purple Coneflower     | 1,000 | 16 |
| <i>Geranium maculatum</i>           | Wild Geranium         | 0.500 | 8  |
| <i>Penstemon digitalis</i>          | Foxglove Beard Tongue | 0.250 | 4  |
| <i>Polemonium reptans</i>           | Jacobs Ladder         | 0.500 | 8  |
| <i>Rudbeckia hirta</i>              | Black-eyed Susan      | 0.250 | 4  |
| <i>Solidago ulmifolia</i>           | Elm-leaved Goldenrod  | 0.063 | 1  |
| <i>Symphyotrichum novae-angliae</i> | New England Aster     | 0.250 | 4  |
| <i>Zizia aurea</i>                  | Golden Alexanders     | 0.250 | 4  |
| Total Weight of Seeds               |                       | 3,500 | 56 |

| Native Area Cover Crop |             |            |           |
|------------------------|-------------|------------|-----------|
| Botanical Name         | Common Name | Lb. / Acre | Oz / Acre |
| <i>Avena sativa</i>    | Oats        | 32         | 512       |

Note: all seeded areas to include erosion control blanket per civil plans.

**A5**  
L2.01

**NATIVE SEED LISTS**

| Willowbrook Master Plan Phase B Plant List |                                     |                                |          |           |                 |
|--------------------------------------------|-------------------------------------|--------------------------------|----------|-----------|-----------------|
| Symbol                                     | Botanical Name                      | Common Name                    | Quantity | Size      | Notes           |
| Trees                                      |                                     |                                |          |           |                 |
| AME-L                                      | <i>Amelanchier laevis</i>           | Allegheny Shadblow             | 3        | 2" cal.   | Ornamental      |
| CEL-O                                      | <i>Celtis occidentalis</i>          | Hackberry                      | 3        | 3" cal.   | Shade           |
| CER-C                                      | <i>Cercis canadensis</i>            | Redbud                         | 3        | 2" cal.   | Ornamental      |
| CRA-V                                      | <i>Crataegus viridis</i>            | Green Hawthorn                 | 1        | 2" cal.   | Ornamental      |
| GYM-D                                      | <i>Gymnocladus dioica</i>           | Kentucky Coffeetree            | 3        | 3" cal.   | Shade           |
| QUE-B                                      | <i>Quercus bicolor</i>              | Swamp White Oak                | 7        | 3" cal.   | Shade           |
| QUE-R                                      | <i>Quercus rubra</i>                | Red Oak                        | 2        | 3" cal.   | Shade           |
| Shrubs                                     |                                     |                                |          |           |                 |
| ARO-M                                      | <i>Aronia melanocarpa</i>           | Black Chokeberry               | 31       | 5 Gal.    | Deciduous Shrub |
| COR-A                                      | <i>Corylus americana</i>            | Hazelnut                       | 83       | 5 Gal.    | Deciduous Shrub |
| DIE-L                                      | <i>Diervilla lonicera</i>           | Dwarf Honeysuckle              | 59       | 5 Gal.    | Deciduous Shrub |
| HAM-V                                      | <i>Hamamelis virginiana</i>         | Common Witchhazel              | 16       | 5 Gal.    | Deciduous Shrub |
| HYD-A                                      | <i>Hydrangea arborescens</i>        | Smooth Hydrangea               | 24       | 5 Gal.    | Deciduous Shrub |
| VIB-P                                      | <i>Viburnum prunifolium</i>         | Blackhaw Viburnum              | 11       | 5 Gal.    | Deciduous Shrub |
| TAX-M                                      | <i>Taxus x media 'Taunton'</i>      | Taunton Yew                    | 29       | 5 Gal.    | Evergreen Shrub |
| Grasses                                    |                                     |                                |          |           |                 |
| AND-S                                      | <i>Andropogon scoparius</i>         | Little Bluestem                | 711      | 2.5" Plug | 18" O.C.        |
| BOU-C                                      | <i>Bouteloua curtipendula</i>       | Side-oats Grama                | 760      | 2.5" Plug | 18" O.C.        |
| SPO-H                                      | <i>Sporobolus heterolepis</i>       | Prairie Dropseed               | 1145     | 2.5" Plug | 18" O.C.        |
| PAN-V                                      | <i>Panicum virgatum</i>             | Switchgrass                    | 426      | 2.5" Plug | 18" O.C.        |
| CAR-G                                      | <i>Carex gracillima</i>             | Purple Sheathed Graceful Sedge | 236      | 2.5" Plug | 18" O.C.        |
| CAR-P                                      | <i>Carex pensylvanica</i>           | Penn Sedge                     | 776      | 2.5" Plug | 18" O.C.        |
| CAR-R                                      | <i>Carex rosea</i>                  | Curly-styled Wood Sedge        | 439      | 2.5" Plug | 18" O.C.        |
| Forbs                                      |                                     |                                |          |           |                 |
| ASC-I                                      | <i>Asclepias incarnata</i>          | Swamp Milkweed                 | 40       | 2.5" Plug | 18" O.C.        |
| PEN-D                                      | <i>Penstemon digitalis</i>          | Foxglove                       | 69       | 2.5" Plug | 18" O.C.        |
| ECH-P                                      | <i>Echinacea purpurea</i>           | Purple Coneflower              | 30       | 2.5" Plug | 18" O.C.        |
| DOD-M                                      | <i>Dodecatheon media</i>            | Shooting Star                  | 100      | Pint      | Field Layout    |
| MER-V                                      | <i>Mertensia virginica</i>          | Virginia Bluebells             | 100      | Pint      | Field Layout    |
| RUD-F                                      | <i>Rudbeckia fulgida speciosa</i>   | Black Eyed Susan               | 135      | 2.5" Plug | 18" O.C.        |
| SYM-N                                      | <i>Symphyotrichum novae-angliae</i> | New England Aster              | 59       | 2.5" Plug | 18" O.C.        |

OWNER:

STREET ADDRESS:  
3 S 580 NAPERVILLE ROAD  
WHEATON, IL 60189-8761

MAILING ADDRESS:  
P.O. BOX 5000  
WHEATON, IL 60189-5000

CONTACT NUMBERS:  
PH# 630-933-7200  
FAX# 630-933-7204

ARCHITECT LICENSE:

ENGINEER LICENSE:

SIGNED:

DATE:

LIC#:

EXP:

SIGNED:

DATE:

LIC#:

EXP:

ILLINOIS

**WILLOWBROOK WILDLIFE CENTER**

**WILLOWBROOK MASTER PLAN PHASE 2**

PH#:

FAX#:

SUBCONSULTANT:

PH#:

FAX#:

CONSULTANT:

Address

MARK:

DATE:

DESCRIPTION:

PROJECT NO: M-340-000

DRAWN BY: MJA

CHECKED BY: KG

DATE: 1/27/2022

SCALE: 1" = 20'-0"

SHEET TITLE:

**SOUTH LANDSCAPE PLAN**

SHEET NO:

**L2.01**

SHEET 0 of 00



1 2 3 4 5 6

F

D

C

B

A

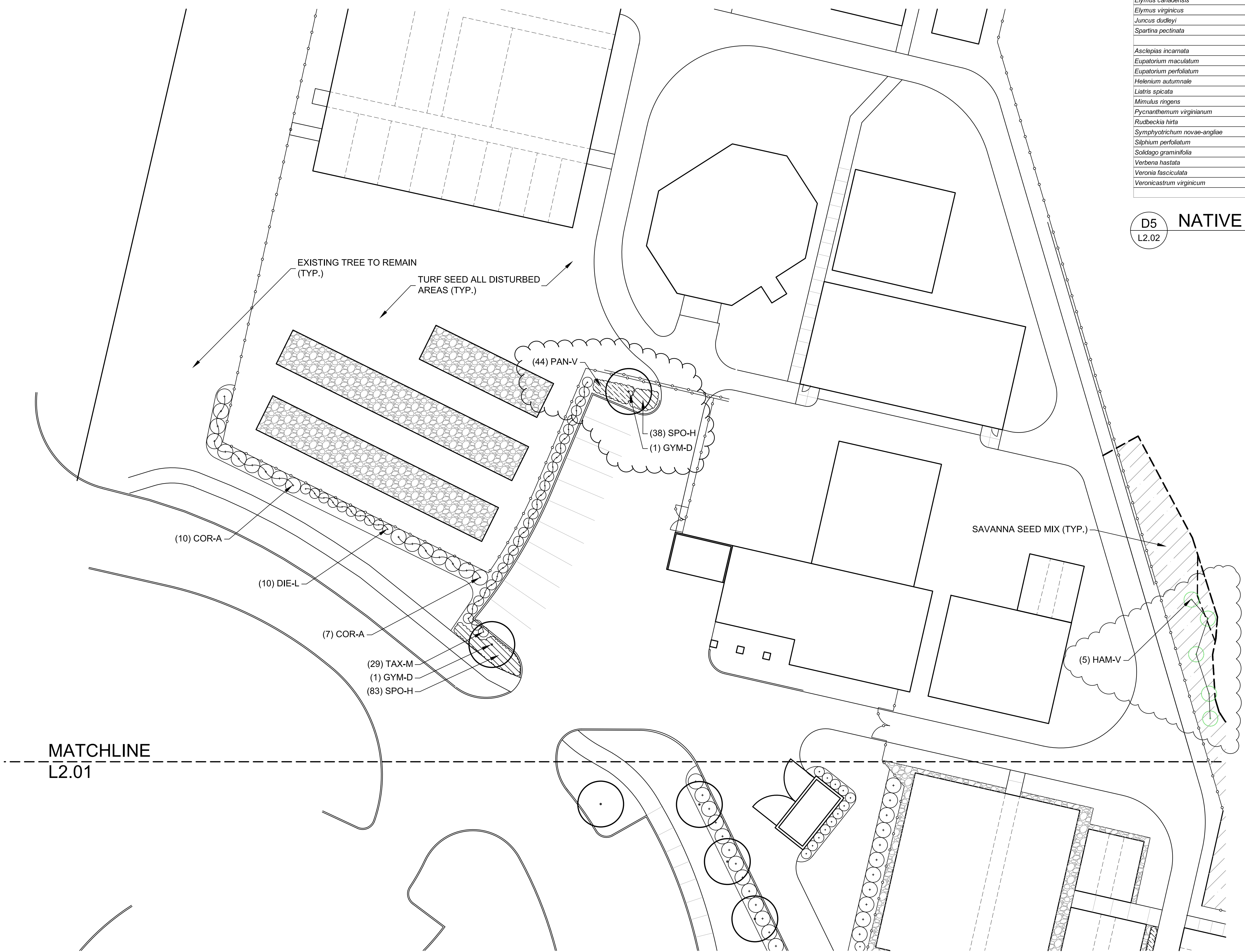
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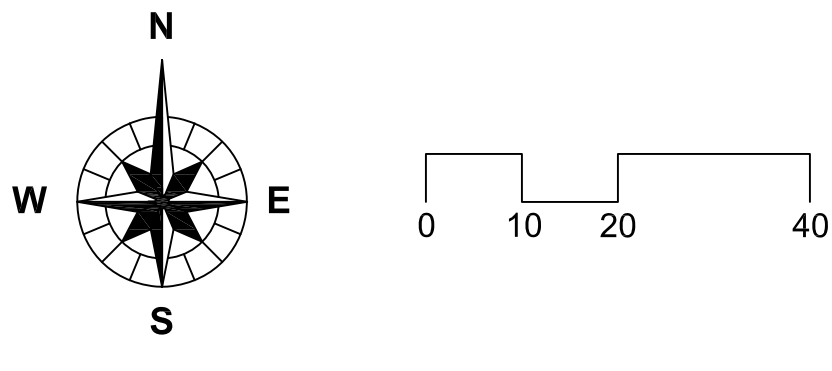


A1 NORTH LANDSCAPE PLAN  
L2.02 SCALE: 1" = 20'-0"

1 2 3 4 5 6

| BMP Seed Mix                       |                        |            |            |
|------------------------------------|------------------------|------------|------------|
| Botanical Name                     | Common Name            | Lb. / Acre | Oz. / Acre |
| <i>Andropogon scoparius</i>        | Little Bluestem        | 3,000      | 48         |
| <i>Bouteloua curtipendula</i>      | Side-oats Grama        | 3,000      | 48         |
| <i>Calamagrostis canadensis</i>    | Blue Joint Grass       | 0.125      | 2          |
| <i>Carex vulpinoidea</i>           | Brown Fox Sedge        | 0.250      | 4          |
| <i>Elymus canadensis</i>           | Canada Wild Rye        | 3,000      | 48         |
| <i>Elymus virginicus</i>           | Virginia Wild Rye      | 5,000      | 80         |
| <i>Juncus dudleyi</i>              | Dudley's Rush          | 0.031      | 0.5        |
| <i>Spartina pectinata</i>          | Prairie Cord Grass     | 2,000      | 32         |
| <i>Asclepias incarnata</i>         | Swamp Milkweed         | 0.250      | 4          |
| <i>Eupatorium maculatum</i>        | Spotted Joe Pye Weed   | 0.250      | 4          |
| <i>Eupatorium perfoliatum</i>      | Boneset                | 0.125      | 2          |
| <i>Helenium autumnale</i>          | Sneezeweed             | 0.500      | 8          |
| <i>Liatris spicata</i>             | Spiked Gayfeather      | 0.375      | 6          |
| <i>Mimulus ringens</i>             | Monkey Flower          | 0.031      | 0.5        |
| <i>Pycnanthemum virginianum</i>    | Common Mountain Mint   | 0.250      | 4          |
| <i>Rudbeckia hirta</i>             | Black-eyed Susan       | 0.250      | 4          |
| <i>Symphotrichum novae-angliae</i> | New England Aster      | 0.250      | 4          |
| <i>Silphium perfoliatum</i>        | Cup Plant              | 0.250      | 4          |
| <i>Solidago graminifolia</i>       | Grass-leaved goldenrod | 0.125      | 2          |
| <i>Verbena hastata</i>             | Blue Vervain           | 0.125      | 2          |
| <i>Veronica fasciculata</i>        | Common Ironweed        | 0.500      | 8          |
| <i>Veronicastrum virginicum</i>    | Culvers Root           | 0.063      | 1          |
| Total Weight of Seeds              |                        | 19,750     | 316        |

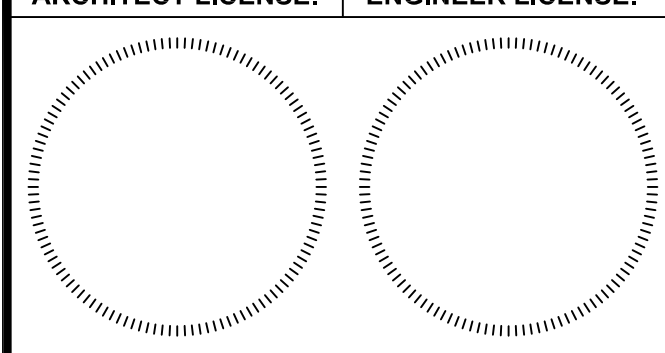
D5 NATIVE BMP SEED LIST  
L2.02



NOTE: SEE SHEET L2.01 FOR PLANT SCHEDULE

OWNER: STREET ADDRESS:  
3 S 580 NAPERVILLE ROAD  
WHEATON, IL 60189-8761  
MAILING ADDRESS:  
P.O. BOX 5000  
WHEATON, IL 60189-5000  
CONTACT NUMBERS:  
PH# 630-933-7200  
FAX# 630-933-7204

ARCHITECT LICENSE: ENGINEER LICENSE:



SIGNED: SIGNED:  
DATE: DATE:  
LIC#: LIC#:  
EXP: EXP:

ILLINOIS

WILLOWBROOK WILDLIFE CENTER  
WILLOWBROOK MASTER PLAN PHASE 2

Address

PH#: FAX#  
SUBCONSULTANT:  
CONSULTANT: PH#: FAX#

| MARK: | DATE:      | DESCRIPTION:             |
|-------|------------|--------------------------|
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|       |            |                          |
|       |            |                          |
|       | 2/13/2023  | Village Comment Response |
|       | 1/19/2023  | Issue for Bid Group 3    |
|       | 1/13/2023  | PERMIT REVISION #1       |
|       | 11/18/2022 | BID GROUP 3              |

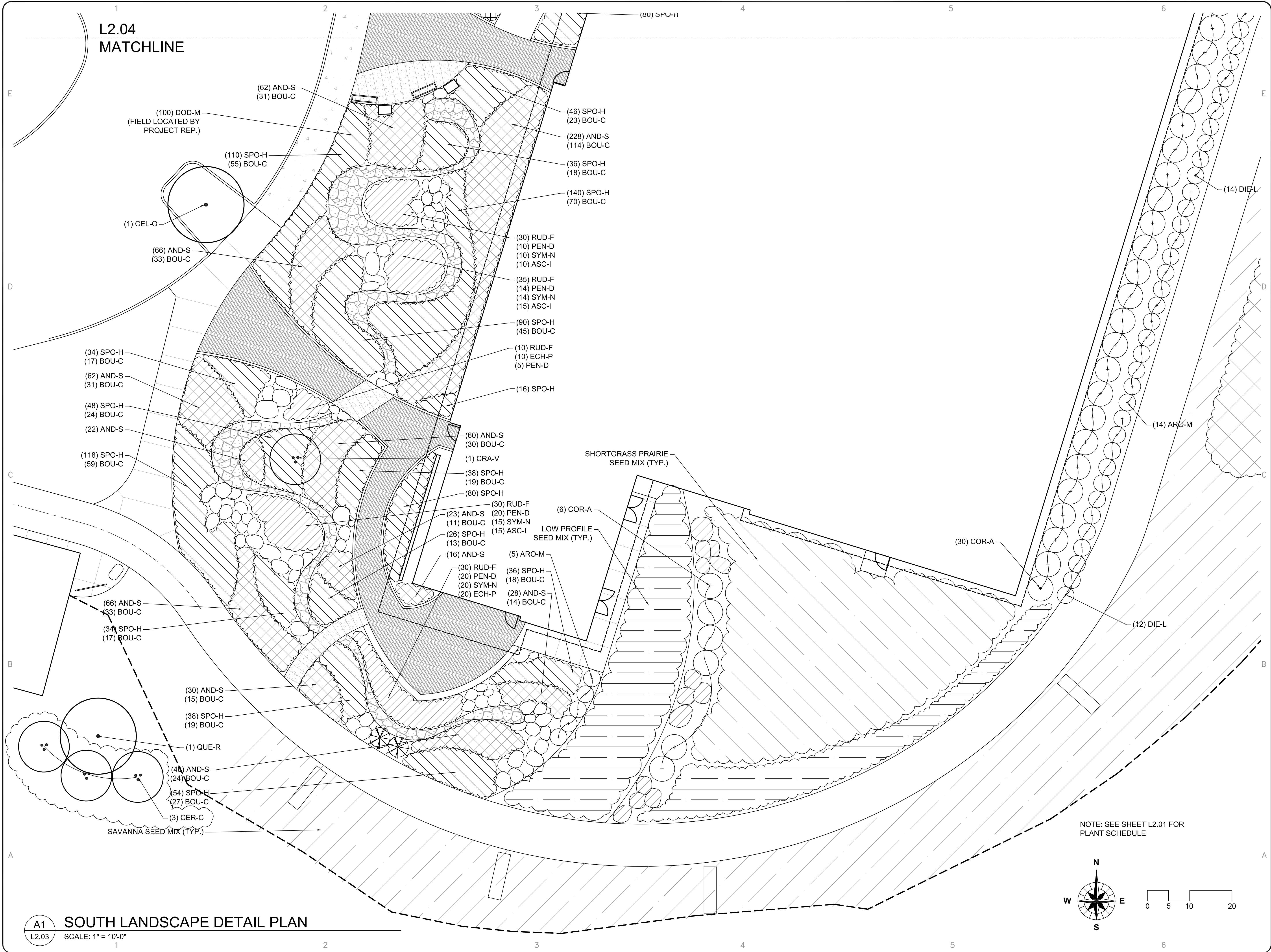
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| PROJECT NO: | M-340-000   |
| DRAWN BY:   | MJA         |
| CHECKED BY: | KG          |
| DATE:       | 1/27/2022   |
| SCALE:      | 1" = 20'-0" |

SHEET TITLE:  
**NORTH LANDSCAPE PLAN**

SHEET NO:  
**L2.02**  
SHEET 0 of 00

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OWNER: STREET ADDRESS:  
3 S 580 NAPERVILLE ROAD  
WHEATON, IL 60189-8761

MAILING ADDRESS:  
P.O. BOX 5000  
WHEATON, IL 60189-5000

CONTACT NUMBERS:  
PH# 630-933-7200  
FAX# 630-933-7204

ARCHITECT LICENSE: ENGINEER LICENSE:

SIGNED: DATE: LIC#: EXP:

SIGNED: DATE: LIC#: EXP:

ILLINOIS

WILLOWBROOK WILDLIFE CENTER  
WILLOWBROOK MASTER PLAN PHASE 2

Address

PH#: FAX#

SUBCONSULTANT:

PH#: FAX#

CONSULTANT:

MARK: DATE: DESCRIPTION:

2/13/2023 Village Comment Response

1/19/2023 Issue for Bid Group 3

1/13/2023 PERMIT REVISION #1

11/18/2022 BID GROUP 3

PROJECT NO: M-340-000

DRAWN BY: MJA

CHECKED BY: KG

DATE: 1/27/2022

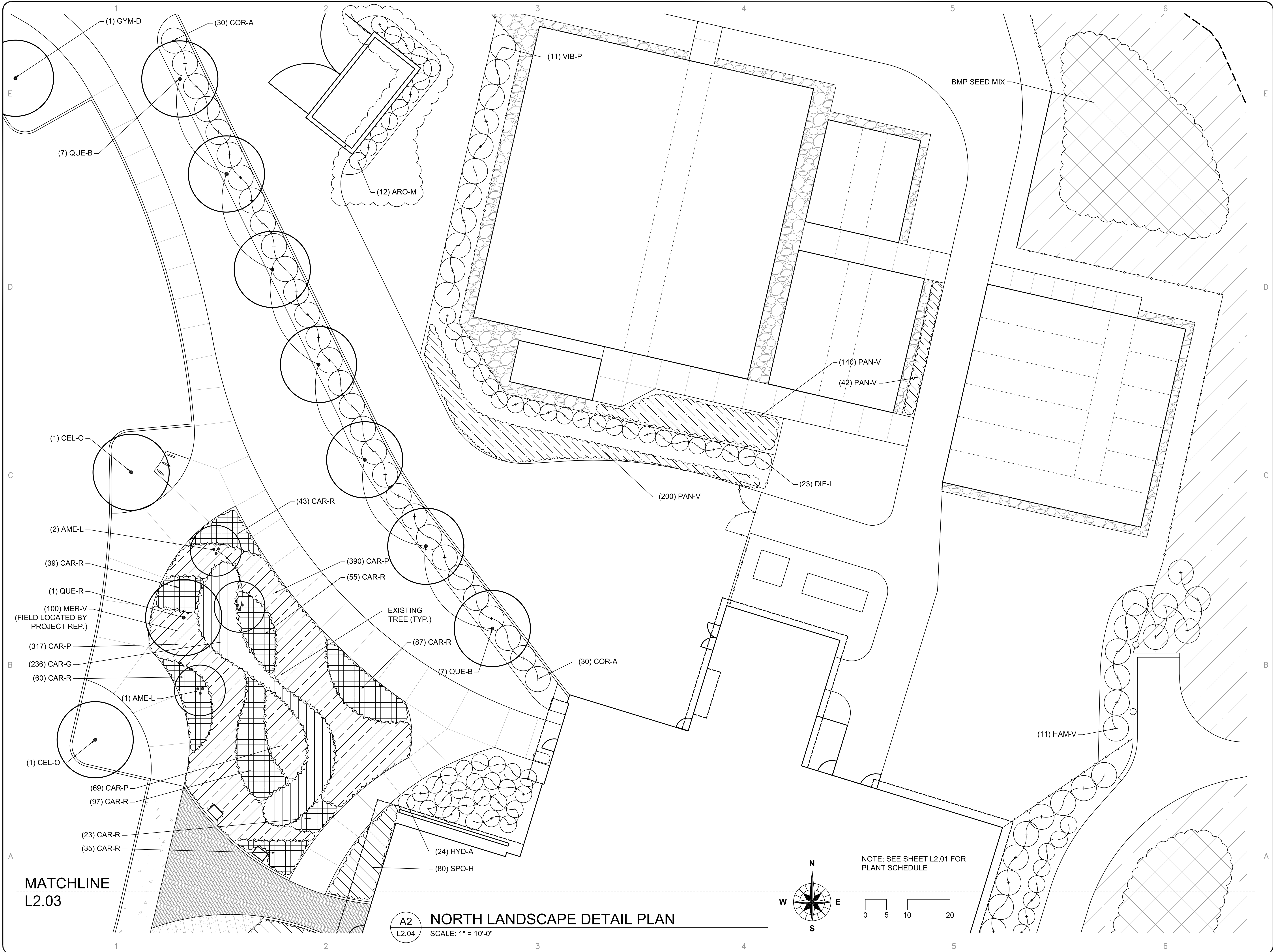
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SHEET TITLE:  
**LANDSCAPE  
DETAIL PLAN**

SHEET NO:  
**L2.03**

SHEET 0 of 00





OWNER:

STREET ADDRESS:

3 S 580 NAPERVILLE ROAD  
WHEATON, IL 60189-8761

MAILING ADDRESS:

P.O. BOX 5000  
WHEATON, IL 60189-5000

CONTACT NUMBERS:

PH# 630-933-7200  
FAX# 630-933-7204

ARCHITECT LICENSE:

ENGINEER LICENSE:

SIGNED:

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LIC#:

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ILLINOIS

WILLOWBROOK WILDLIFE CENTER

WILLOWBROOK MASTER PLAN PHASE 2

Address

CONSULTANT:

PH#:

FAX#:

SUBCONSULTANT:

PH#:

FAX#:

| MARK: | DATE:      | DESCRIPTION:             |
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|       |            |                          |
|       | 2/13/2023  | Village Comment Response |
|       | 1/19/2023  | Issue for Bid Group 3    |
|       | 1/13/2023  | PERMIT REVISION #1       |
|       | 11/18/2022 | BID GROUP 3              |

PROJECT NO:

M-340-000

DRAWN BY:

MJA

CHECKED BY:

KG

DATE:

1/27/2022

SCALE:

1" = 10'-0"

SHEET TITLE:

LANDSCAPE

DETAIL PLAN

SHEET NO:

L2.04

SHEET

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of

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Page 73 of 94







DESCRIPTION

The Galleon™ LED luminaire delivers exceptional performance in a highly scalable, low-profile design. Patented, high-efficiency AccuLED Optics™ system provides uniform and energy conscious illumination to walkways, parking lots, roadways, building areas and security lighting applications. IP66 rated and UL/cUL Listed for wet locations.

|             |                             |                                   |
|-------------|-----------------------------|-----------------------------------|
| Catalog #   | GLEON-AA-04-LED-E1-5WQ-AP   | Type                              |
| Project     | Willowbrook Wildlife Center | A2 (DUAL HEAD)<br>C (SINGLE HEAD) |
| Comments    |                             | Date                              |
| Prepared by |                             | 10-11-13                          |

SPECIFICATION FEATURES

Construction

Extruded aluminum driver enclosure thermally isolated from Light Squares for optimal thermal performance. Heavy-wall, die-cast aluminum end caps enclose housing and die-cast aluminum heat sinks. A unique, patent pending interlocking housing and heat sink provides scalability with superior structural rigidity. 3G vibration tested. Optional tool-less hardware available for ease of entry into electrical chamber. Housing is IP66 rated.

Optics

Choice of 12 patented, high-efficiency AccuLED Optics™ manufactured from injection molded acrylic. Optics are precisely designed to shape the distribution maximizing efficiency and application spacing. AccuLED Optics create consistent distributions with the scalability to meet customized application requirements. Offered standard in

4000K (+/- 275K) CCT and nominal 70 CRI. Optional 6000K CCT and 3000K CCT (80 CRI).

Electrical

LED drivers are mounted to removable tray assembly for ease of maintenance. 120-277V 50/60Hz, 347V 60Hz or 480V 60Hz operation. Shipped standard with Cooper Lighting proprietary circuit module designed to withstand 10kV of transient line surge. The Galleon LED luminaire is suitable for operation in -40°C to 40°C ambient environments. For applications with ambient temperatures exceeding 40°C, specify the HA (High Ambient) option. Light Squares are IP66 rated. 90% lumen maintenance expected at 60,000 hours.

Mounting

Extruded aluminum arm includes internal bolt guides allowing for easy positioning of fixture during assembly. Designed for pole or

wall mounting. When mounting two or more luminaires at 90° and 120° apart, the EA extended arm may be required. Refer to the arm mounting requirement table on page 3. For wall mounting, specify wall mount bracket option. 3G vibration rated.

Finish

Housing finished in Super durable TGIC polyester powder coat paint, 2.5 mil nominal thickness for superior protection against fade and wear. Heat sink is powder coated black. Standard colors include black, bronze, grey, white, dark platinum and graphite metallic. RAL and custom color matches available.

Warranty

Five-year warranty.



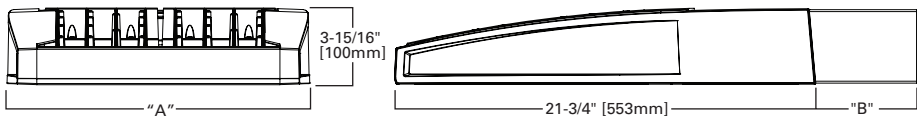
GAN  
GALLEON LED

1-10 Light Squares  
Solid State LED

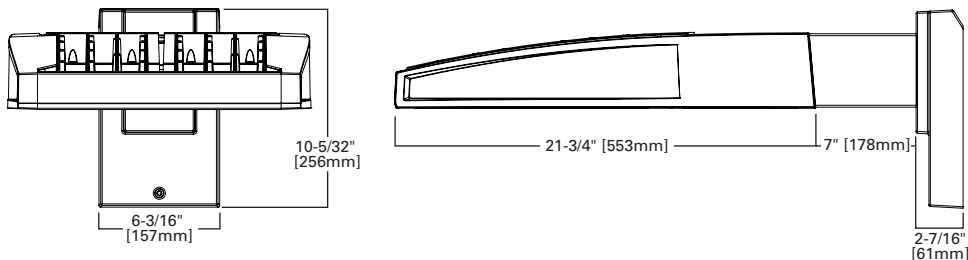
AREA / ROADWAY LUMINAIRE

DIMENSIONS

POLE MOUNT



WALL MOUNT



DIMENSION DATA

| Number of Light Squares | "A" Width       | "B" Standard Arm Length | "B" Optional Arm Length <sup>1</sup> | Weight with Arm (lbs.) | EPA with Arm <sup>2</sup> (Sq. Ft.) |
|-------------------------|-----------------|-------------------------|--------------------------------------|------------------------|-------------------------------------|
| 1-4                     | 15-1/2" (394mm) | 7" (178mm)              | 10" (254mm)                          | 33 (15.0 kgs.)         | 0.96                                |
| 5-6                     | 21-5/8" (549mm) | 7" (178mm)              | 10" (254mm)                          | 44 (20.0 kgs.)         | 1.00                                |
| 7-8                     | 27-5/8" (702mm) | 7" (178mm)              | 13" (330mm)                          | 54 (24.5 kgs.)         | 1.07                                |
| 9-10                    | 33-3/4" (857mm) | 7" (178mm)              | 16" (406mm)                          | 63 (28.6 kgs.)         | 1.12                                |

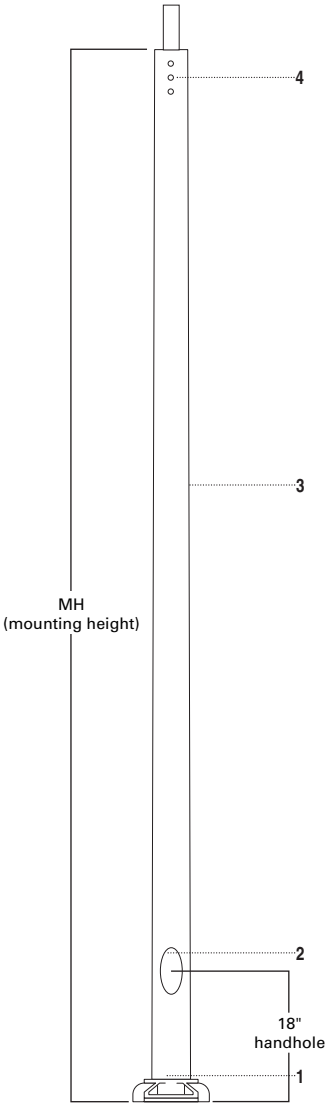
NOTES: 1. Optional arm length to be used when mounting two fixtures at 90° on a single pole. 2. EPA calculated with optional arm length.



# RTA ROUND TAPERED ALUMINUM

10'—40' MOUNTING HEIGHT

Willowbrook Wildlife Center  
Type S1 pole  
part # RTA6L20ABM2



POLE HEIGHT FROM GRADE  
TO FIXTURE = 23'-0"

SPECIFICATION FEATURES

- 1···Cast aluminum alloy shoe base with aluminum alloy bolt covers or base cover dependent upon base type.

2···Flush reinforced 2 3/8" x 4 1/2" for 4" shafts. Hand hole assembly with internal reinforcing frame. 3" x 5" for 5" and 6" shafts, 4" x 6" for 7", 8", 10" shafts. Ground lug located opposite hand hole opening drilled & tapped for 3/8" 16NC-2 grounding screw.

3···Tapered aluminum lighting shaft with polished finish.
- 4···Drilled or Tenon (specify).

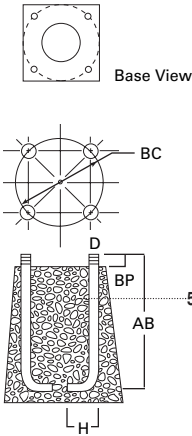
5···Anchor bolt per ASTM A576 with (1) nut, (1) flat washer, and (2) shims. Nuts, washers and threaded portion of bolt are hot dip galvanized.

FOUR BOLT ANCHORAGE [See ordering information]

BC=Bolt Circle  
BP=Bolt Projection  
AB=Bolt Dimensions  
D=Bolt Diameter  
H=Bolt Dimensions

FINISH COLORS [See ordering information. Other finish colors available.]

B=Clear Anodized  
C=Dark Bronze Anodized  
D=Black Anodized  
E=Medium Bronze Anodized  
F=Dark Bronze Powder Coat  
V=Grey Powder Coat  
W=White Powder Coat  
X=None (natural aluminum)  
Y=Black Powder Coat



WARNING: THE USE OF UNAUTHORIZED ACCESSORIES SUCH AS BANNERS, SIGNS OR PENNANTS FOR WHICH THE POLE WAS NOT DESIGNED FOR VOIDS THE COOPER LIGHTING WARRANTY AND MAY RESULT IN POLE FAILURE CAUSING SERIOUS INJURY OR PROPERTY DAMAGE. COOPER LIGHTING'S POLE WARRANTY IS ALSO VOIDED IF LUMINAIRE IS NOT INSTALLED AT TIME OF POLE INSTALLATION.



# WST LED

## Architectural Wall Sconce



Catalog  
Number

Notes

Type

**TYPE:F16**

Hit the Tab key or mouse over the page to see all interactive elements.

### A+ Capable Luminaire

This item is an A+ capable luminaire, which has been designed and tested to provide consistent color appearance and system-level interoperability.

- All configurations of this luminaire meet the Acuity Brands' specification for chromatic consistency
- This luminaire is A+ Certified when ordered with DTL® controls marked by a **shaded background**. DTL DLL equipped luminaires meet the A+ specification for luminaire to photocontrol interoperability<sup>1</sup>
- This luminaire is part of an A+ Certified solution for ROAM® or XPoint™ Wireless control networks, providing out-of-the-box control compatibility with simple commissioning, when ordered with drivers and control options marked by a **shaded background**<sup>1</sup>

To learn more about A+, visit [www.acuitybrands.com/aplus](http://www.acuitybrands.com/aplus).

See ordering tree for details.

A+ Certified Solutions for ROAM require the order of one ROAM node per luminaire. Sold Separately: [Link to Roam](#); [Link to DTL DLL](#)

## Specifications

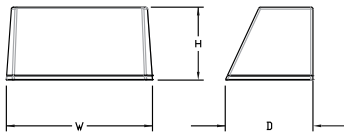
### Luminaire

**Height:** 8-1/2"  
(21.59 cm)

**Width:** 17"  
(43.18 cm)

**Depth:** 10-3/16"  
(25.9 cm)

**Weight:** 20 lbs  
(9.1 kg)

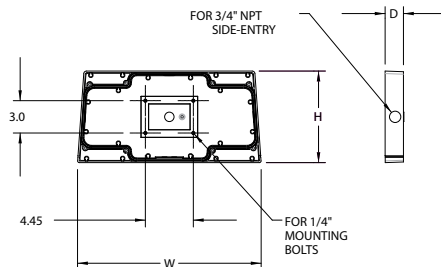


### Optional Back Box (PBBW)

**Height:** 8.49"  
(21.56 cm)

**Width:** 17.01"  
(43.21 cm)

**Depth:** 1.70"  
(4.32 cm)

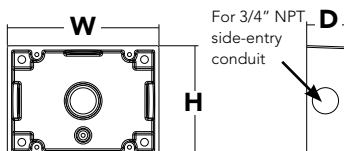


### Optional Back Box (BBW)

**Height:** 4"  
(10.2 cm)

**Width:** 5-1/2"  
(14.0 cm)

**Depth:** 1-1/2"  
(3.8 cm)



COMMERCIAL OUTDOOR

One Lithonia Way • Conyers, Georgia 30012 • Phone: 800-705-SERV (7378) • [www.lithonia.com](http://www.lithonia.com)  
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WST-LED  
Rev. 11/22/21



## Ordering Information

**EXAMPLE: WST LED P1 40K VF MVOLT DDBTXD**

| WST LED |                        |                   |                                 |                    |                  |                                                                                                                                                                                               |
|---------|------------------------|-------------------|---------------------------------|--------------------|------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Series  | Performance Package    | Color temperature | Distribution                    | Voltage            |                  | Mounting                                                                                                                                                                                      |
| WST LED | P1 1,500 Lumen package | 27K 2700 K        | VF Visual comfort forward throw | MVOLT <sup>1</sup> | 277 <sup>2</sup> | <b>Shipped included</b><br>(blank) Surface mounting bracket<br><b>Shipped separately</b><br>BBW Surface-mounted back box <sup>3</sup><br>PBBW Premium surface-mounted back box <sup>3,4</sup> |
|         | P2 3,000 Lumen package | 30K 3000 K        | VW Visual comfort wide          | 120 <sup>2</sup>   | 347 <sup>2</sup> |                                                                                                                                                                                               |
|         | P3 6,000 Lumen package | 40K 4000 K        |                                 | 208 <sup>2</sup>   | 480 <sup>2</sup> |                                                                                                                                                                                               |
|         |                        | 50K 5000 K        |                                 | 240 <sup>2</sup>   |                  |                                                                                                                                                                                               |

| Options      |                                                                                                        |        | Finish (required)                                                                                |        |                           |
|--------------|--------------------------------------------------------------------------------------------------------|--------|--------------------------------------------------------------------------------------------------|--------|---------------------------|
| NLTAIR2 PIR  | nLIGHT AIR Wireless enabled motion/ambient sensor for 8'-15' mounting heights <sup>5,6,7</sup>         | E7WC   | Emergency battery backup, CA Title 20 Noncompliant (cold, 7W) <sup>7,12</sup>                    | DDBXD  | Dark bronze               |
| NLTAIR2 PIRH | nLIGHT AIR Wireless enabled motion/ambient sensor for 15'-30' mounting heights <sup>5,6,7</sup>        | E7WHR  | Remote emergency battery backup, CA Title 20 Noncompliant (remote 7W) <sup>7,13</sup>            | DBLXD  | Black                     |
| PE           | Photoelectric cell, button type <sup>8</sup>                                                           | E20WH  | Emergency battery pack 18W constant power, Certified in CA Title 20 MAEDBS <sup>7</sup>          | DNAXD  | Natural aluminum          |
| PER          | NEMA twist-lock receptacle only (controls ordered separate) <sup>9</sup>                               | E20WC  | Emergency battery pack -20°C 18W constant power, Certified in CA Title 20 MAEDBS <sup>7,12</sup> | DWHXD  | White                     |
| PER5         | Five-wire receptacle only (controls ordered separate) <sup>9</sup>                                     | E23WHR | Remote emergency battery backup, CA Title 20 Noncompliant (remote 20W) <sup>7,12,14</sup>        | DSSXD  | Sandstone                 |
| PER7         | Seven-wire receptacle only (controls ordered separate) <sup>9</sup>                                    | LCE    | Left side conduit entry <sup>15</sup>                                                            | DDBTXD | Textured dark bronze      |
| PIR          | Motion/Ambient Light Sensor, 8-15' mounting height <sup>5,6</sup>                                      | RCE    | Right side conduit entry <sup>15</sup>                                                           | DBLBXD | Textured black            |
| PIR1FC3V     | Motion/ambient sensor, 8-15' mounting height, ambient sensor enabled at 1fc <sup>5,6</sup>             | BAA    | Buy America(n) Act Compliant                                                                     | DNATXD | Textured natural aluminum |
| PIRH         | 180° motion/ambient light sensor, 15-30' mounting height <sup>5,6</sup>                                |        |                                                                                                  | DWHGXD | Textured white            |
| PIRH1FC3V    | Motion/ambient sensor, 15-30' mounting height, ambient sensor enabled at 1fc <sup>5,6</sup>            |        |                                                                                                  | DSSTXD | Textured sandstone        |
| SF           | Single fuse (120, 277, 347V) <sup>2</sup>                                                              |        |                                                                                                  |        |                           |
| DF           | Double fuse (208, 240, 480V) <sup>2</sup>                                                              |        |                                                                                                  |        |                           |
| DS           | Dual switching <sup>10</sup>                                                                           |        |                                                                                                  |        |                           |
| DMG          | 0-10V dimming extend out back of housing for external control (control ordered separate) <sup>11</sup> |        |                                                                                                  |        |                           |
| E7WH         | Emergency battery backup, Non CEC compliant (7W) <sup>7</sup>                                          |        |                                                                                                  |        |                           |
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## Accessories

Ordered and shipped separately.

|                    |                                                     |
|--------------------|-----------------------------------------------------|
| WSTVCPBBW DDBXD U  | Premium Surface - mounted back box                  |
| WSBBW DDBTXD U     | Surface - mounted back box                          |
| RBPW DDBXD U       | Retrofit back plate                                 |
| DLL127F 1.5 JU     | Photocell - SSL twist-lock (120-277V) <sup>17</sup> |
| DLL347F 1.5 CUL JU | Photocell - SSL twist-lock (347V) <sup>17</sup>     |
| DLL480F 1.5 CUL JU | Photocell - SSL twist-lock (480V) <sup>17</sup>     |

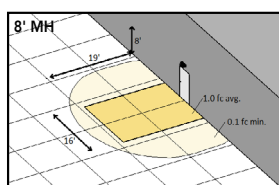
## NOTES

- MVOLT driver operates on any line voltage from 120-277V (50/60 Hz).
- Single fuse (SF) requires 120V, 277V or 347V. Double fuse (DF) requires 208V, 240V or 480V.
- Also available as a separate accessory; see accessories information.
- Top conduit entry standard.
- Not available with VG or WG. See PER Table.
- Reference Motion Sensor table.
- Not available with 347/480V.
- Need to specify 120, 208, 240 or 277 voltage.
- Photocell ordered and shipped as a separate line item from Acuity Brands Controls. Shorting Cap included.
- Not available with Emergency options, PE or PER options.
- DMG option not available with standalone or networked sensors/controls.
- Battery pack rated for -20° to 40°C.
- Comes with PBBW.
- Warranty period is 3-years.
- Not available with BBW.
- Must order with fixture; not an accessory.
- Requires luminaire to be specified with PER, PER5 or PER7 option. See PER Table.

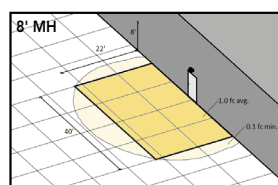
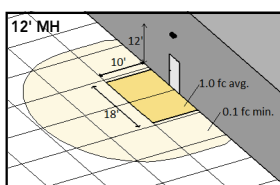
## Emergency Battery Operation

The emergency battery backup is integral to the luminaire — no external housing required! This design provides reliable emergency operation while maintaining the aesthetics of the product. All emergency backup configurations include an independent secondary driver with an integral relay to immediately detect AC power loss, meeting interpretations of [NFPA 70/NEC 2008 - 700.16](#). The emergency battery will power the luminaire for a minimum duration of 90 minutes (maximum duration of three hours) from the time supply power is lost, per [International Building Code Section 1006](#) and [NFPA 101 Life Safety Code Section 7.9](#), provided luminaires are mounted at an appropriate height and illuminate an open space with no major obstructions. The examples below show illuminance of 1 fc average and 0.1 fc minimum of the P1 power package and VF distribution product in emergency mode.

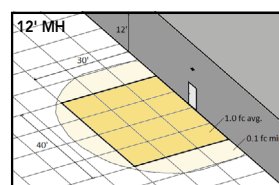
10' x 10' Gridlines  
8' and 12' Mounting Height



WST LED P1 27K VF MVOLT E7WH



WST LED P2 40K VF MVOLT E20WH



## Performance Data

### Lumen Ambient Temperature (LAT) Multipliers

Use these factors to determine relative lumen output for average ambient temperatures from 0-40°C (32-104°F).

| Ambient |       | Lumen Multiplier |
|---------|-------|------------------|
| 0°C     | 32°F  | 1.03             |
| 10°C    | 50°F  | 1.02             |
| 20°C    | 68°F  | 1.01             |
| 25°C    | 77°F  | 1.00             |
| 30°C    | 86°F  | 0.99             |
| 40°C    | 104°F | 0.98             |

### Projected LED Lumen Maintenance

Values calculated according to IESNA TM-21-11 methodology and valid up to 40°C.

| Operating Hours          | 0   | 25,000 | 50,000 | 100,000 |
|--------------------------|-----|--------|--------|---------|
| Lumen Maintenance Factor | 1.0 | >0.95  | >0.92  | >0.87   |

### Electrical Load

| Performance package | System Watts | Current (A) |      |      |      |      |      |
|---------------------|--------------|-------------|------|------|------|------|------|
|                     |              | 120         | 208  | 240  | 277  | 347  | 480  |
| P1                  | 11           | 0.1         | 0.06 | 0.05 | 0.04 | ---  | ---  |
|                     | 14           | ---         | ---  | ---  | ---  | 0.04 | 0.03 |
| P1 DS               | 14           | 0.12        | 0.07 | 0.06 | 0.06 | ---  | ---  |
| P2                  | 25           | 0.21        | 0.13 | 0.11 | 0.1  | ---  | ---  |
|                     | 30           | ---         | ---  | ---  | ---  | 0.09 | 0.06 |
| P2 DS               | 25           | 0.21        | 0.13 | 0.11 | 0.1  | ---  | ---  |
| P3                  | 50           | 0.42        | 0.24 | 0.21 | 0.19 | ---  | ---  |
|                     | 56           | ---         | ---  | ---  | ---  | 0.16 | 0.12 |
| P3 DS               | 52           | 0.43        | 0.26 | 0.23 | 0.21 | ---  | ---  |

### Motion Sensor Default Settings

| Option                | Dimmed State    | High Level (when triggered) | Photocell Operation | Ramp-up Time | Dwell Time | Ramp-down Time |
|-----------------------|-----------------|-----------------------------|---------------------|--------------|------------|----------------|
| *PIR or PIRH          | 3V (37%) Output | 10V (100%) Output           | Enabled @ 5FC       | 3 sec        | 5 min      | 5 min          |
| PIR1FC3V or PIRH1FC3V | 3V (37%) Output | 10V (100%) Output           | Enabled @ 1FC       | 3 sec        | 5 min      | 5 min          |

\*for use with site wide Dusk to Dawn control

### PER Table

| Control                    | PER (3 wire) | PER5 (5 wire) |                                  | PER7 (7 wire) |                                  |                             |
|----------------------------|--------------|---------------|----------------------------------|---------------|----------------------------------|-----------------------------|
|                            |              |               | Wire 4/Wire5                     |               | Wire 4/Wire5                     | Wire 6/Wire7                |
| Photocontrol Only (On/Off) | ✓            | ⚠             | Wired to dimming leads on driver | ⚠             | Wired to dimming leads on driver | Wires Capped inside fixture |
| ROAM                       | ✗            | ✓             | Wired to dimming leads on driver | ⚠             | Wired to dimming leads on driver | Wires Capped inside fixture |
| ROAM with Motion           | ✗            | ⚠             | Wired to dimming leads on driver | ⚠             | Wired to dimming leads on driver | Wires Capped inside fixture |
| Futureproof*               | ✗            | ⚠             | Wired to dimming leads on driver | ✓             | Wired to dimming leads on driver | Wires Capped inside fixture |
| Futureproof* with Motion   | ✗            | ⚠             | Wired to dimming leads on driver | ✓             | Wired to dimming leads on driver | Wires Capped inside fixture |

✓ Recommended

✗ Will not work

⚠ Alternate

\*Futureproof means: Ability to change controls in the future.

### Lumen Output

Lumen values are from photometric tests performed in accordance with IESNA LM-79-08. Data is considered to be representative of the configurations shown, within the tolerances allowed by Lighting Facts.

| Performance Package | System Watts (MVOLT <sup>1</sup> ) | Dist. Type | 27K (2700K, 70 CRI) |   |   |   |     | 30K (3000K, 70 CRI) |   |   |   |     | 40K (4000K, 70 CRI) |   |   |   |     | 50K (5000K, 70 CRI) |   |   |   |     |
|---------------------|------------------------------------|------------|---------------------|---|---|---|-----|---------------------|---|---|---|-----|---------------------|---|---|---|-----|---------------------|---|---|---|-----|
|                     |                                    |            | Lumens              | B | U | G | LPW | Lumens              | B | U | G | LPW | Lumens              | B | U | G | LPW | Lumens              | B | U | G | LPW |
| P1                  | 12W                                | VF         | 1,494               | 0 | 0 | 0 | 125 | 1,529               | 0 | 0 | 0 | 127 | 1,639               | 0 | 0 | 0 | 137 | 1,639               | 0 | 0 | 0 | 137 |
|                     |                                    | VW         | 1,513               | 0 | 0 | 0 | 126 | 1,548               | 0 | 0 | 0 | 129 | 1,659               | 0 | 0 | 0 | 138 | 1,660               | 0 | 0 | 0 | 138 |
| P2                  | 25W                                | VF         | 3,163               | 1 | 0 | 1 | 127 | 3,237               | 1 | 0 | 1 | 129 | 3,469               | 1 | 0 | 1 | 139 | 3,468               | 1 | 0 | 1 | 139 |
|                     |                                    | VW         | 3,201               | 1 | 0 | 0 | 128 | 3,276               | 1 | 0 | 0 | 131 | 3,512               | 1 | 0 | 0 | 140 | 3,512               | 1 | 0 | 0 | 140 |
| P3                  | 50W                                | VF         | 6,025               | 1 | 0 | 1 | 121 | 6,165               | 1 | 0 | 1 | 123 | 6,609               | 1 | 0 | 1 | 132 | 6,607               | 1 | 0 | 1 | 132 |
|                     |                                    | VW         | 6,098               | 1 | 0 | 1 | 122 | 6,240               | 1 | 0 | 1 | 125 | 6,689               | 1 | 0 | 1 | 134 | 6,691               | 1 | 0 | 1 | 134 |



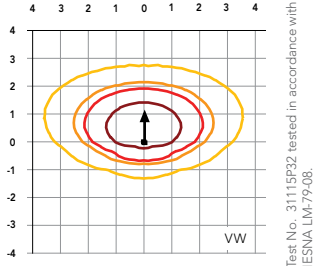
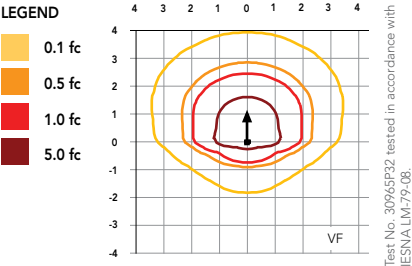
COMMERCIAL OUTDOOR

One Lithonia Way • Conyers, Georgia 30012 • Phone: 800-705-SERV (7378) • [www.lithonia.com](http://www.lithonia.com)  
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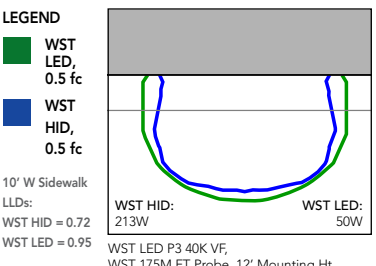
WST-LED  
Rev. 11/22/21



Isofootcandle plots for the WST LED P3 40K VF and VW. Distances are in units of mounting height (10').



Distribution overlay comparison to 175W metal halide.



## FEATURES & SPECIFICATIONS

### INTENDED USE

The classic architectural shape of the WST LED was designed for applications such as hospitals, schools, malls, restaurants, and commercial buildings. The long life LEDs and driver make this luminaire nearly maintenance-free.

### CONSTRUCTION

The single-piece die-cast aluminum housing integrates secondary heat sinks to optimize thermal transfer from the internal light engine heat sinks and promote long life. The driver is mounted in direct contact with the casting for a low operating temperature and long life. The die-cast door frame is fully gasketed with a one-piece solid silicone gasket to keep out moisture and dust, providing an IP65 rating for the luminaire.

### FINISH

Exterior parts are protected by a zinc-infused Super Durable TGIC thermoset powder coat finish that provides superior resistance to corrosion and weathering. A tightly controlled multi-stage process ensures a minimum 3 mils thickness for a finish that can withstand extreme climate changes without cracking or peeling. Standard Super Durable colors include dark bronze, black, natural aluminum, sandstone and white. Available in textured and non-textured finishes.

### OPTICS

Well crafted reflector optics allow the light engine to be recessed within the luminaire, providing visual comfort, superior distribution, uniformity, and spacing in wall-mount applications. The WST LED has zero uplight and qualifies as a Nighttime Friendly™ product, meaning it is consistent with the LEED® and Green Globes™ criteria for eliminating wasteful uplight.

### ELECTRICAL

Light engine(s) consist of 98 high-efficacy LEDs mounted to a metal core circuit board and integral aluminum heat sinks to maximize heat dissipation and promote long life (100,000 hrs at 40°C, L87). Class 2 electronic driver has a power factor >90%, THD <20%. Easily-serviceable surge protection device meets a minimum Category B (per ANSI/IEEE C62.41.2).

### INSTALLATION

A universal mounting plate with integral mounting support arms allows the fixture to hinge down for easy access while making wiring connections.

### LISTINGS

CSA certified to U.S. and Canadian standards. Luminaire is IP65 rated. PIR and back box options are rated for wet location. Rated for -30°C to 40°C ambient.

DesignLights Consortium® (DLC) Premium qualified product. Not all versions of this product may be DLC Premium qualified. Please check the DLC Qualified Products List at [www.designlights.org/QPL](http://www.designlights.org/QPL) to confirm which versions are qualified.

### BUY AMERICAN

Product with the BAA option is assembled in the USA and meets the Buy America(n) government procurement requirements under FAR, DFARS and DOT. Please refer to [www.acuitybrands.com/buy-american](http://www.acuitybrands.com/buy-american) for additional information.

### WARRANTY

5-year limited warranty. Complete warranty terms located at: [www.acuitybrands.com/support/warranty/terms-and-conditions](http://www.acuitybrands.com/support/warranty/terms-and-conditions)

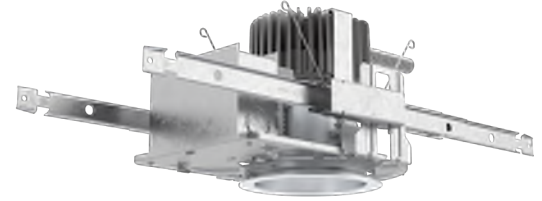
**Note:** Actual performance may differ as a result of end-user environment and application. All values are design or typical values, measured under laboratory conditions at 25 °C. Specifications subject to change without notice.



## General Illumination Round Downlight

4"

TYPE:F17



### Feature Set

- Bounding Ray™ optical design
- Unitized optics mechanically attach the light engine to the lower reflector for complete optical alignment.
- 45° cutoff to source and source image
- Fully serviceable and upgradeable lensed LED light engine
- 70% lumen maintenance at 60,000 hours
- 2.5 SDCM; 85 CRI typical, 90+ CRI optional
- Fixtures are wet location, covered ceiling
- Available with 10% dimming, 1% dimming, or dim to dark
- Batwing distribution with feathered edges provides even illumination on horizontal and vertical surfaces
- ENERGY STAR® certified product

### Distribution



### Superior Performance

| Nominal Lumens   | 250  | 500  | 750   | 1000  | 1500  | 2000  | 2500  | 3000 | 3500 |
|------------------|------|------|-------|-------|-------|-------|-------|------|------|
| Delivered Lumens | 271  | 573  | 808   | 1001  | 1527  | 1994  | 2580  | 3110 | 3612 |
| Wattage          | 3.1  | 7.2  | 7.9   | 8.8   | 13.7  | 19.5  | 25.7  | 31.2 | 38.4 |
| Lumens per Watt  | 87.4 | 79.6 | 102.3 | 113.8 | 111.5 | 102.3 | 100.4 | 99.7 | 94.1 |

### Coordinated Apertures | Multiple Layers of Light



General Illumination Layer | EVO



High Center Beam Layer | Incito



EVO + Incito — Multiple Layers of Light

### Core



Downlight



Adjustable



Open Wallwash



Lensed Wallwash



Cylinder



Pinhole



Bevel



Hyperbolic

### Healthcare



MRI



Surgical Suite



Patient Room

### Special Applications



Dynamic



Food Service



Vandal/Tamper



Clean Room

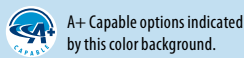


Shower



Steam Room





**Design2Ship Quick Ship Program:** Options in green text qualify for Design2Ship — 5 business days from order entry to ship. Refer to Design2Ship Brochure for complete program details. **Maximum Order Quantity: 100 units; 50 for Chicago Plenum.**

Luminaire Type:

Catalog Number:

EXAMPLE: EV04 35/25 AR MWD LSS 120 EZ1

| Series | Color Temperature | Nominal Lumen Values | Reflector & Flange Color                | Trim Style                            | Distribution               | Finish            | Voltage            |
|--------|-------------------|----------------------|-----------------------------------------|---------------------------------------|----------------------------|-------------------|--------------------|
| EV04   | 27/ 2700 K        | 02 250 lumens        | AR Clear                                | (blank) Self-flanged<br>FL Flangeless | MD Medium (0.9 s/mh)       | LSS Semi-specular | MVOLT              |
|        | 30/ 3000 K        | 05 500 lumens        | PR Pewter                               |                                       |                            | LD Matte-diffuse  | 120                |
|        | 35/ 3500 K        | 07 750 lumens        | WTR Wheat                               |                                       | MWD Medium wide (1.0 s/mh) | LS Specular       | 277                |
|        | 40/ 4000 K        | 10 1000 lumens       | GR Gold                                 |                                       | WD Wide (1.2 s/mh)         |                   | 347 <sup>2,3</sup> |
|        | 50/ 5000 K        | 15 1500 lumens       | WR <sup>1</sup> White                   |                                       |                            |                   |                    |
|        |                   | 20 2000 lumens       | BR <sup>1</sup> Black                   |                                       |                            |                   |                    |
|        |                   | 25 2500 lumens       | WRAMF <sup>1</sup> White Anti-microbial |                                       |                            |                   |                    |
|        |                   | 30 3000 lumens       |                                         |                                       |                            |                   |                    |
|        |                   | 35 3500 lumens       |                                         |                                       |                            |                   |                    |
|        |                   | 40 4000 lumens       |                                         |                                       |                            |                   |                    |
|        |                   | 45 4500 lumens       |                                         |                                       |                            |                   |                    |

| Driver <sup>4</sup>                                                                                                                                                                                 | Control Interface                                                                                                                                 | Options                                                                                                                                                                                             |
|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| GZ10 0-10V driver dims to 10%                                                                                                                                                                       | NLT <sup>5</sup> nLight <sup>®</sup> dimming pack controls                                                                                        | SF Single Fuse. Specify 120V or 277V                                                                                                                                                                |
| GZ1 0-10V driver dims to 1%                                                                                                                                                                         | NLTER <sup>2,6,10</sup> nLight <sup>®</sup> dimming pack controls emergency circuit                                                               | TRW <sup>7</sup> White painted flange                                                                                                                                                               |
| EZ10 eldoLED 0-10V EC0drive. Linear dimming to 10% min.                                                                                                                                             | NLTAIR2 <sup>13</sup> nLight <sup>®</sup> Air enabled                                                                                             | TRBL <sup>8</sup> Black painted flange                                                                                                                                                              |
| EZ1 eldoLED 0-10V EC0drive. Linear dimming to 1% min.                                                                                                                                               | NLTAIRER2 <sup>10,13</sup> nLight <sup>®</sup> AIR Dimming Pack Wireless Controls. Controls fixtures on emergency circuit                         | EL <sup>9</sup> Emergency battery pack, 10W, with integral test switch                                                                                                                              |
| EZB eldoLED 0-10V SOLOdrive. Logarithmic dimming to <1%.                                                                                                                                            | NLTAIREM2 <sup>13</sup> nLight <sup>®</sup> AIR Dimming Pack Wireless Controls. Controls fixtures on emergency circuit with battery pack options. | ELR <sup>9</sup> Emergency battery pack, 10W, with remote test switch                                                                                                                               |
| EDAB <sup>4</sup> eldoLED SOLOdrive DALI. Logarithmic dimming to <1%.                                                                                                                               | EXA1 XPoint Wireless, eldoLED 0-10V EC0drive. Linear dimming to 1%. Refer to XPoint tech sheet.                                                   | ELSD <sup>9</sup> Emergency battery pack, 10W, with self-diagnostics, integral test switch                                                                                                          |
| EDXB <sup>4</sup> eldoLED POWERdrive DMX with RDM (remote device management). Square Law dimming to <1%. Minimum 1000 lumens. Includes termination resistor. Refer to <a href="#">DMXR Manual</a> . | EXAB XPoint Wireless, eldoLED 0-10V SOLOdrive. Logarithmic dimming to <1%. Refer to XPoint tech sheet.                                            | ELRSD <sup>9</sup> Emergency battery pack, 10W, with self-diagnostics, remote test switch                                                                                                           |
| ECOS2 <sup>5</sup> Lutron <sup>®</sup> Hi-Lume <sup>®</sup> 2-wire forward-phase driver. 120V only. Minimum dimming level 1%. Min: 1000LM; Max: 2500LM                                              |                                                                                                                                                   | E10WCP <sup>9</sup> Emergency battery pack, 10W Constant Power, CA Title 20 compliant with integral test switch                                                                                     |
| ECOD <sup>5</sup> Lutron Ecosystem digital Hi-Lume 1% soft-on, fade to black. Min: 2500LM; Max: 4000LM.                                                                                             |                                                                                                                                                   | E10WCPR <sup>9</sup> Emergency battery pack, 10W Constant Power, CA Title 20 compliant with remote test switch                                                                                      |
|                                                                                                                                                                                                     |                                                                                                                                                   | N80 <sup>11</sup> nLight <sup>®</sup> Lumen Compensation                                                                                                                                            |
|                                                                                                                                                                                                     |                                                                                                                                                   | BGTD Bodine generator transfer device. Specify 120V or 277V.                                                                                                                                        |
|                                                                                                                                                                                                     |                                                                                                                                                   | 90CRI High CRI (90+)                                                                                                                                                                                |
|                                                                                                                                                                                                     |                                                                                                                                                   | CP <sup>12</sup> Chicago Plenum. Specify 120V or 277V for 5000lm and above.                                                                                                                         |
|                                                                                                                                                                                                     |                                                                                                                                                   | RRL RELOC <sup>®</sup> -ready luminaire connectors enable a simple and consistent factory installed option across all ABL luminaire brands. Refer to <a href="#">RRL</a> for complete nomenclature. |

**ACCESSORIES — order as separate catalog numbers (shipped separately)**

|           |                                                                                                                                                                     |
|-----------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| SCA4      | Sloped ceiling adapter. Degree of slope must be specified (5D, 10D, 15D, 20D, 25D, 30D). Ex: SCA4 10D. Refer to <a href="#">TECH-190</a> .                          |
| CTAEV04   | 4" Aperture ceiling thickness adapter (extends mounting frame to accommodate ceiling thickness up to 5").                                                           |
| CTA4-8 YK | 4"-8" Aperture ceiling thickness adapter (extends mounting frame to accommodate ceiling thickness up to 5"). For use with CWW/DWW trims, EDXB, CP or nTune options. |
| ISD BC    | 0-10V wallbox dimmer. Refer to <a href="#">ISD-BC</a> .                                                                                                             |

**ORDERING NOTES**

- Not available with finishes.
- Not available with emergency battery pack options.
- Supplied with factory installed step down transformer.
- Refer to [TECH-240](#) for compatible dimmers.
- Not available with nLight<sup>®</sup> and XPoint options.
- Must specify voltage.
- For use with different reflector finish only (i.e. AR, PR, WTR, GR options). Not applicable with WR (white reflector) or FL (flangeless) option.
- For use with different reflector finish only (i.e. AR, PR, WTR, GR options). Not applicable with BR (black reflector) or FL (flangeless) option.
- 11" of plenum depth or top access required for battery pack maintenance.
- ER for use as UL924 Emergency Operation via power sense lead. Will require an emergency hot feed and normal hot feed. EM for use as UL924 Emergency Operation via power interrupt detection.
- Fixture begins at 80% light level. Must be specified with NLT or NLTER. Only available with EZ10 and EZ1 drivers.
- Not available with ELR, HAO, EXA1, or EXAB options.
- Not available DALI or DMX drivers. Not available with CP or N80 options. Not recommended for metal ceiling installations.

## Optical Assembly

Fully serviceable and upgradeable lensed LED light engine suitable for field maintenance or service from below the ceiling. Optical design is a Bounding Ray™ design with 45° cutoff to source and source image. Top-down flash characteristic for superior glare control. Unitized optics shall have mechanical attachment of the light engine to the lower reflector for complete optical alignment.

## Electrical

The luminaire shall operate from a 50 or 60 Hz  $\pm 3$  Hz AC line over a voltage ranging from 120 VAC to 277 VAC. The fluctuations of line voltage shall have no visible effect on the luminous output. The luminaire shall have a power factor of 90% or greater at all standard operating voltages and full luminaire output. Sound Rated A+. Driver shall be >80% efficient at full load across all input voltages. Input wires shall be 18AWG, 300V minimum, solid copper.

## Controls

Luminaire shall be equipped with interface for nLight wired or wireless network with integral power supply as per specification.

## Dimming

The luminaire shall be capable of continuous dimming without perceivable stroboscopic flicker as measured by flicker index (ANSI/IES RP-16-10) over a range of 100 – 10%, 100 – 1.0% or 100 – 0.1% of rated lumen output with a smooth shut off function to step to 0%. eldoLED LED drivers shall conform to IEEE P1789 standards. Alternatively, manufacturers must demonstrate conformance with product literature and testing which demonstrates this performance. Systems that do not meet IEEE P1789 will not be considered. Driver is inaudible in 24dB environment, and stable when input voltage conditions fluctuate over what is typically experienced in a commercial environment.

## Construction

Luminaire housing shall be constructed of 20-gauge galvanized steel and have telescopic mounting bars with maximum 26" and minimum 15" extension and 4" vertical adjustment. Luminaires shall be suitable for installation in ceilings up to 1½" thick. (specify ceiling thickness adapter to extend frame to accommodate ceiling thickness up to 2"). Tool-less adjustments shall be possible after installation. The assembly and manufacturing process for the luminaire shall be designed to assure all internal components are adequately supported to withstand mechanical shock and vibration. 25°C ambient temperature standard (1/2" clearance on all sides from non-combustible materials in non-IC applications, unless marked spacing noted otherwise). For use in insulated ceilings, a 3" clearance on all sides from insulation is required (unless marked spacing noted otherwise).

## Listings

Fixtures are CSA certified to meet US and Canadian Standards: All fixtures manufactured in strict accordance with the appropriate and current requirements of the "Standards for Safety" to UL, wet location covered ceiling. Luminaire configurations are Energy Star certified through testing in EPA-recognized laboratories, with the results reviewed by an independent, accredited certification organization. Visit [www.energystar.gov](http://www.energystar.gov) for specific configurations listed.

## Buy American

This product is assembled in the USA and meets the Buy America(n) government procurement requirements under FAR, DFARS and DOT. Please refer to <https://www.acuitybrands.com/resources/buy-american> for additional information.

## Photometrics

LEDs tested to LM-80 standards. Measured by IESNA Standard LM-79-08 in an accredited lab. Lumen output shall not decrease by more than 30% over the minimum operational life of 60,000 hours. Color appearance from luminaire to luminaire of the same type and in all configurations, shall be consistent both initially and at 6,000 hours and operate within a tolerance of <2.5 MacAdam ellipse as defined by a point at the intersection of the CCT line and the black body locus line in CIE chromaticity space.

## Warranty

5-year limited warranty. Complete warranty terms located at: [www.acuitybrands.com/support/warranty/terms-and-conditions](http://www.acuitybrands.com/support/warranty/terms-and-conditions)

## Note:

Actual performance may differ as a result of end user environment and application. All values are design or typical values, measured under laboratory conditions at 25 °C.

## A+ Capable Luminaire

This item is an A+ capable luminaire, which has been designed and tested to provide consistent color appearance and out-of-the-box control compatibility with simple commissioning.

- All configurations of this luminaire meet the Acuity Brands' specification for chromatic consistency
- This luminaire is part of an A+ Certified solution for nLight® control networks when ordered with drivers marked by a shaded background\*
- This luminaire is part of an A+ Certified solution for nLight® control networks, providing advanced control functionality at the luminaire level, when selection includes driver and control options marked by a shaded background\*

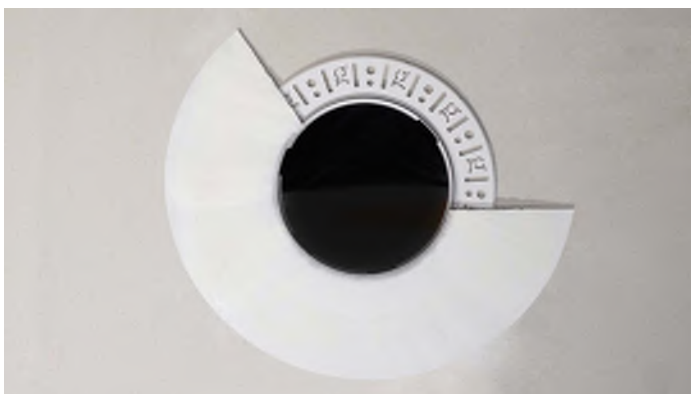
To learn more about A+, visit [www.acuitybrands.com/aplus](http://www.acuitybrands.com/aplus).

\*See ordering tree for details





Partially finished mud ring, showing cross-section detail.



An EVO downlight requires only approximately 3" of plaster to finish.



EVO with flangeless trim

### Flangeless Installation

Gotham's flangeless option utilizes a micro-thin polymer mud ring that minimizes the amount of drywall compound required to finish the ceiling. The end result is a virtually undetectable flangeless downlight installation.

The polymer mud ring is installed independent of the of the recessed frame, therefore floating with the ceiling. This innovation minimizes any surface cracks during reflector installation, ceiling movement and any future service to the recessed frame, wiring, electronics, etc.

| EVO - eldoLED Driver Default Dimming Curve |             |                  |                    |
|--------------------------------------------|-------------|------------------|--------------------|
| Nomenclature                               | Min Dimming | Driver Dim Curve | Control Dim Curve  |
| EZ10                                       | 10%         | Linear           | Linear/Logarithmic |
| EZ1                                        | 1%          | Linear           | Linear/Logarithmic |
| EXA1                                       | 1%          | Linear           | Linear/Logarithmic |
| EZB                                        | <1%         | Logarithmic      | Linear             |
| EDAB                                       | <1%         | Logarithmic      | Linear             |
| EXAB                                       | <1%         | Logarithmic      | Linear             |
| EDXB                                       | <1%         | Logarithmic      | Linear             |

| Distributions |      |
|---------------|------|
| Distribution  | Beam |
| MD            | 51   |
| MWD           | 57   |
| WD            | 73   |

| CCT/CRI Multiplier Table |       |            |
|--------------------------|-------|------------|
| CRI                      | CCT   | Multiplier |
| 80                       | 2700K | 0.96       |
|                          | 3000K | 1.00       |
|                          | 3500K | 1.00       |
|                          | 4000K | 1.01       |
|                          | 5000K | 1.07       |
| 90                       | 2700K | 0.80       |
|                          | 3000K | 0.83       |
|                          | 3500K | 0.85       |
|                          | 4000K | 0.87       |
|                          | 5000K | 0.91       |

| Reflector Finish Multiplier |            |
|-----------------------------|------------|
| Reflector Finish            | Multiplier |
| LS - Specular               | 1          |
| LSS - Semi Specular         | 0.956      |
| WR - White                  | 0.87       |
| LD - Matte Diffuse          | 0.85       |
| BR - Black                  | 0.73       |

| Driver       |                          | Control Provided<br>(note: 347V/UVOLT versions provided with 347 option selected) |                |                |                   |                   |
|--------------|--------------------------|-----------------------------------------------------------------------------------|----------------|----------------|-------------------|-------------------|
| Nomenclature | Description              | NLT                                                                               | NLTER          | NLTAIR2        | NLTAIR2ER         | NLTAIREM2         |
| GZ10         | 0-10V driver dims to 10% | nPP16 D EFP                                                                       | nPP16 D ER EFP | RPP20 D 24V G2 | RPP20 D 24V ER G2 | RPP20 D 24V ER G2 |
| GZ1          | 0-10V driver dims to 1%  | nPP16 D EFP                                                                       | nPP16 D ER EFP | RPP20 D 24V G2 | RPP20 D 24V ER G2 | RPP20 D 24V ER G2 |
| EZ10         | eldoLED 0-10V ECOdrive   | nPS 80 EZ                                                                         | nPS 80 EZ ER   | RPP20 D 24V G2 | RPP20 D 24V ER G2 | RPP20 D 24V ER G2 |
| EZ1          | eldoLED 0-10V ECOdrive   | nPS 80 EZ                                                                         | nPS 80 EZ ER   | RPP20 D 24V G2 | RPP20 D 24V ER G2 | RPP20 D 24V ER G2 |
| EZB          | eldoLED 0-10V SOLOdrive  | nPS 80 EZ                                                                         | nPS 80 EZ ER   | RPP20 D 24V G2 | RPP20 D 24V ER G2 | RPP20 D 24V ER G2 |

### How to Estimate Delivered Lumens in Emergency Mode

**Delivered Lumens = 1.25 x P x LPW**

P = Output power of emergency driver. P = 10W for PS1055CP

LPW = Lumen per watt rating of the luminaire. This information is available on the ABL luminaire spec sheet.



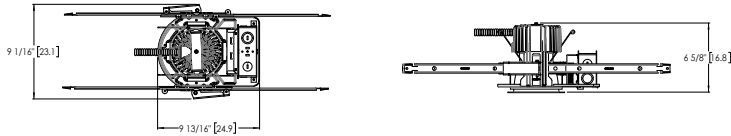
Aperture: 4-5/16" (11)

Ceiling Opening: 5-1/8" (13) self-flanged

Overlap trim: 5-7/16" (13.8)

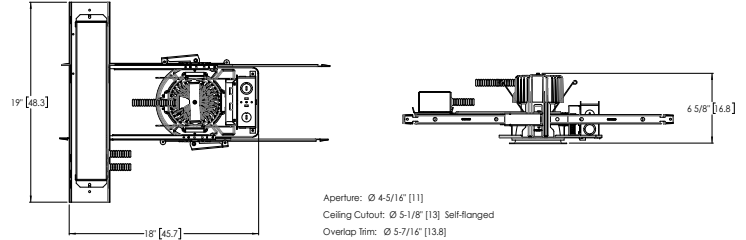
5-1/4" (13.3) flangeless

Standard



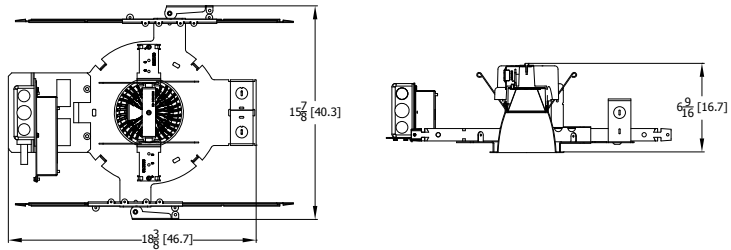
Aperture:  $\varnothing$  4-5/16" [11]  
Ceiling Cutout:  $\varnothing$  5-1/8" [13] Self-flanged  
Overlap Trim:  $\varnothing$  5-7/16" [13.8]  
Ceiling Cutout:  $\varnothing$  5-1/4" [13.3] Flangeless

Battery Pack

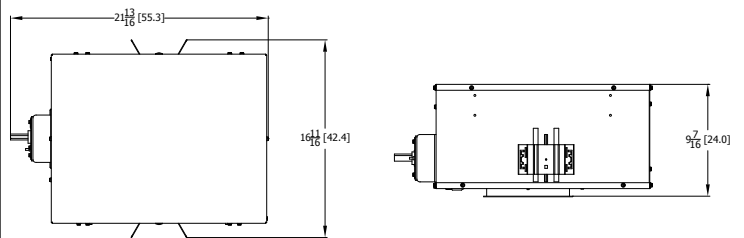


Aperture:  $\varnothing$  4-5/16" [11]  
Ceiling Cutout:  $\varnothing$  5-1/8" [13] Self-flanged  
Overlap Trim:  $\varnothing$  5-7/16" [13.8]  
Ceiling Cutout:  $\varnothing$  5-1/4" [13.3] Flangeless

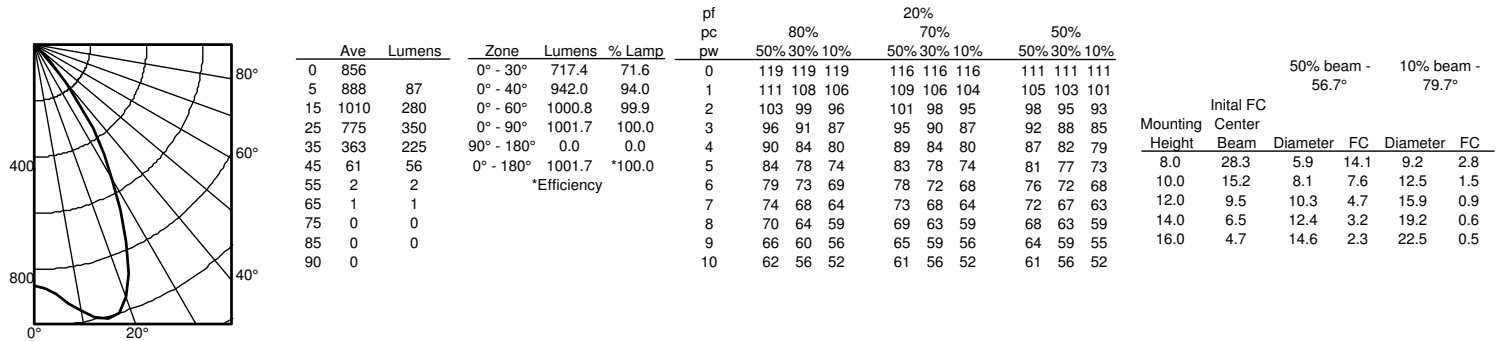
CP Standard



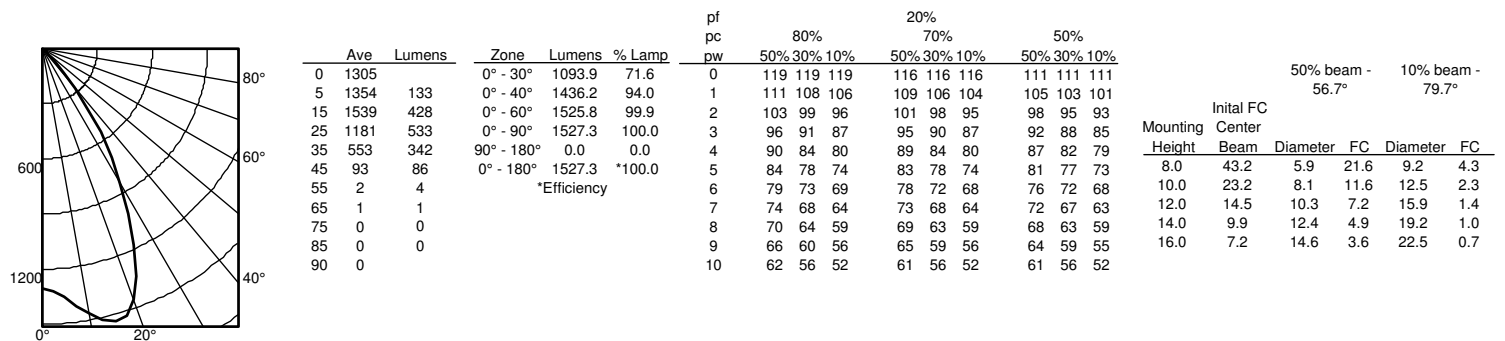
CP Enclosed For Use With Battery Pack & nLight



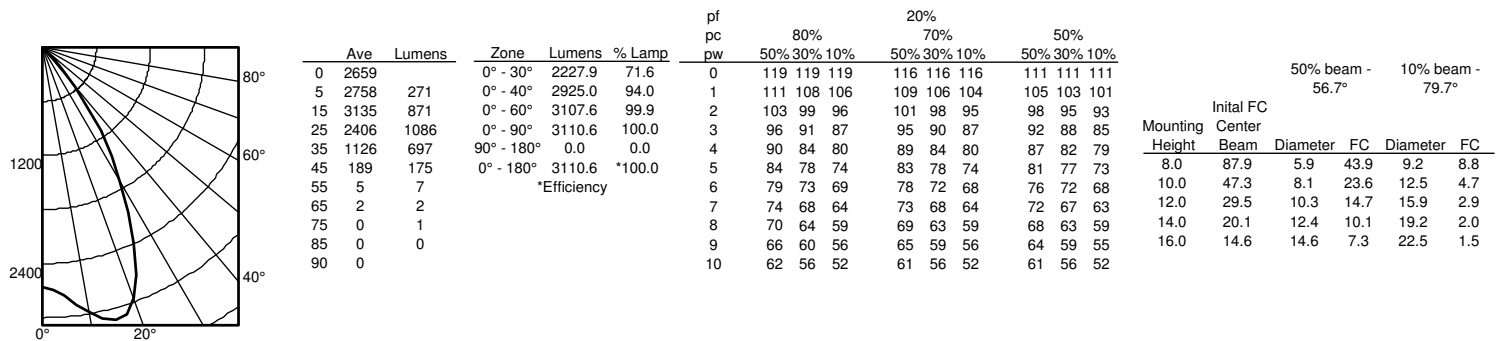
**EV04 35/10 MWD LS INPUT WATTS: 8.8W, DELIVERED LUMENS: 1001.7LM, LPW = 113.8, 1.08 S/MH, TEST NO. LTL27786P131**



**EV04 35/15 MWD LSS INPUT WATTS: 13.7W, DELIVERED LUMENS: 1527.3LM, LPW = 111.4, 1.08 S/MH, TEST NO. LTL27786P137**



**EV04 35/30 MWD LSS INPUT WATTS: 31.2W, DELIVERED LUMENS: 3110.6LM, LPW = 99.6, 1.08 S/MH, TEST NO. LTL27786P155**





**nLight® AIR** is the ideal solution for retrofit or new construction spaces where adding communication wiring is cost prohibitive. The integrated nLight AIR rPP20 Power Pack is part of each EVO Luminaire ordered with the NLTAIR option. These individually addressable controls offer the ultimate in flexibility during initial setup and for space repurposing.

#### nLight® AIR Control Accessories

Order as separate catalog number. Visit [nLight AIR](#).

##### Wall Switches

| Model Number                     |                        |
|----------------------------------|------------------------|
| On/Off single pole               | rPODB (color) G2       |
| On/Off two pole                  | rPODB 2P (color) G2    |
| On/Off & raise/lower single pole | rPODB DX (color) G2    |
| On/Off & raise/lower two pole    | rPODB 2P DX (color) G2 |

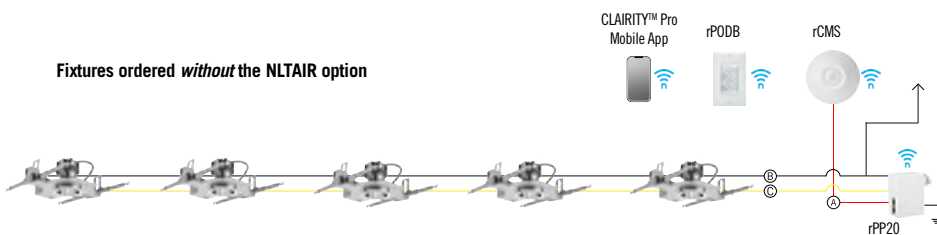
#### nLight® AIR Control Accessories (cont.)

##### Occupancy Sensors (PIR/dual tech)

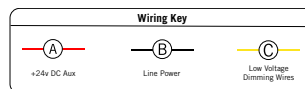
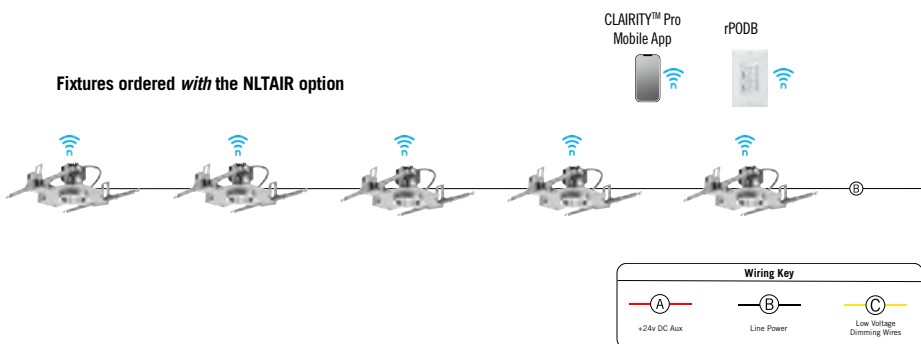
| Model Number               |                       |
|----------------------------|-----------------------|
| Small motion 360°, ceiling | rCMS 9 / rCMS PDT 9   |
| Large motion 360°, ceiling | rCMS 10 / rCMS PDT 10 |

#### Possibilities for nLight® AIR

##### Fixtures ordered *without* the NLTAIR option



##### Fixtures ordered *with* the NLTAIR option



**nLight®** The nLight® solution is a digital networked lighting control system that provides both energy savings and increased user configurability by cost effectively integrating time-based, daylight-based, sensor-based and manual lighting control schemes.

#### nLight® Wired Control Accessories

Order as separate catalog number. Visit [nLight](#).

##### Wall Switches

| Model Number                     |                     |
|----------------------------------|---------------------|
| On/Off single pole               | nPODM (color)       |
| On/Off two pole                  | nPODM 2P (color)    |
| On/Off & raise/lower single pole | nPOD DX (color)     |
| On/Off & raise/lower two pole    | nPODM 2P DX (color) |
| Graphic touchscreen              | nPOD GFX (color)    |

##### Photocell Controls

|         |          |
|---------|----------|
| Dimming | nCM ADCX |
|---------|----------|

#### nLight® Wired Control Accessories (cont.)

##### Occupancy Sensors (PIR/dual tech)

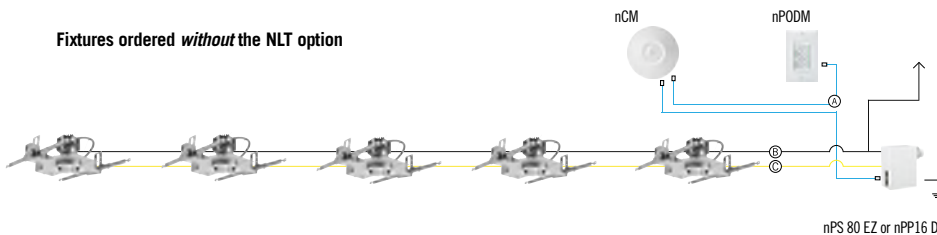
| Model Number                 |                             |
|------------------------------|-----------------------------|
| Small motion 360°, ceiling   | nCM 9 / nCM PDT 9           |
| Large motion 360°, ceiling   | nCM 10 / nCM PDT 10         |
| Wide View                    | nWV 16 / nWV PDT 16         |
| Wall switch with raise/lower | nWSX LV DX / nWSX PDT LV DX |

##### Cat-5 Cables (plenum rated)

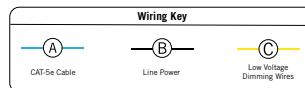
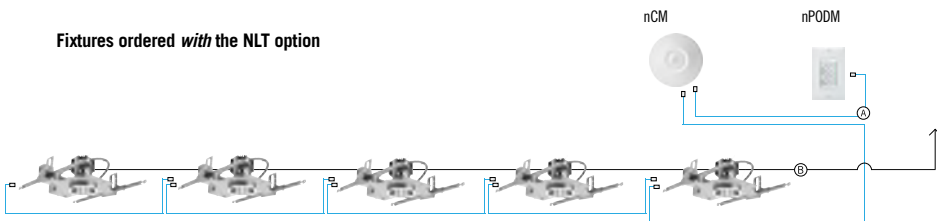
|           |              |
|-----------|--------------|
| 10', CAT5 | CAT5 10FT J1 |
| 15', CAT5 | CAT5 15FT J1 |

#### Possibilities for nLight® wired

##### Fixtures ordered *without* the NLT option



##### Fixtures ordered *with* the NLT option



Application

LED wall luminaires with directed narrow beam light distribution on one side that can be oriented ~~upward~~ or downward. Arranged individually or in groups, they are great design elements for a host of lighting applications.

Materials

Luminaire housing and faceplate constructed of die-cast marine grade, copper free ( $\leq 0.3\%$  copper content) A360.0 aluminum alloy  
Clear safety glass  
Reflector made of pure anodized aluminum  
High temperature silicone gasket  
Mechanically captive stainless steel fasteners

**NRTL** listed to North American Standards, suitable for wet locations  
Protection class IP 65  
Weight: 6.6 lbs

Electrical

Operating voltage 120-277V AC  
Minimum start temperature  $-30^{\circ}\text{C}$   
LED module wattage 18.1 W  
System wattage 21.0 W  
Controllability 0-10V dimmable  
Color rendering index  $Ra > 80$   
Luminaire lumens 1,725 lumens (3000K)  
Lifetime at  $T_a = 15^{\circ}\text{C}$  395,000 h (L70)  
Lifetime at  $T_a = 30^{\circ}\text{C}$  295,000 h (L70)

LED color temperature

- ☐ 4000K - Product number + **K4**
- ☐ 3500K - Product number + **K35**
- ☐ 3000K - Product number + **K3**
- ☐ 2700K - Product number + **K27**

**BEGA** can supply you with suitable LED replacement modules for up to 20 years after the purchase of LED luminaires - see website for details

Finish

All BEGA standard finishes are matte, textured polyester powder coat with minimum 3 mil thickness.

- Available colors ☐ Black (BLK) ☐ White (WHT) ☐ RAL:  
☐ Bronze (BRZ) ☐ Silver (SLV) ☐ CUS:

Type:

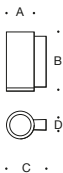
BEGA Product:

Project:

Modified:

TYPE:F18

fixture to be mounted downward



| LED wall luminaire - one-sided light output |        |              |   |                 |                |                | Required wiring box |
|---------------------------------------------|--------|--------------|---|-----------------|----------------|----------------|---------------------|
|                                             | LED    | $\beta$      | A | B               | C              | D              |                     |
| 24 035                                      | 18.1 W | $15^{\circ}$ | 6 | $11\frac{3}{4}$ | $7\frac{7}{8}$ | $1\frac{5}{8}$ | 19 537              |

$\beta$  = Beam angle

Available Accessories

- ☐ **79 547** Surface mounted wiring box
- See individual accessory spec sheet for details.







**WILLOWBROOK WILDLIFE CENTER**  
**Phase 2 Master Plan Improvements**  
Willowbrook Forest Preserve  
525 S. Park Blvd.  
Glen Ellyn, Illinois 60137

November 2, 2022  
Project No. M-340-000

## **Summary of Operations**



*Prepared by:*  
**Forest Preserve District of DuPage County**  
**Office of Planning**  
3 S. 580 Naperville Road  
P.O. Box 5000  
Wheaton, Illinois 60189  
630-933-7200 tel | 630-933-7686 fax



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## **INTRODUCTION**

In 2021, the District hired Wight & Company to revise the Phase 2 Master Plan for Willowbrook Wildlife Center, based on recent changes to the programming and vision for the center, as well as updated guidelines provided by National Wildlife Rehabilitators Association (NWRA) and International Wildlife Rehabilitation Council (IWRC) Minimum standards for Wildlife Rehabilitation. Phase 1 Master Plan improvements were constructed in 2013 and complete in 2014. With these changes to programming and guidelines, the Phase 2 Master Plan required an update.

## **HISTORY**

Willowbrook Forest Preserve is located near the center of the county on approximately 50 acres of land within the incorporated village limits of Glen Ellyn, Illinois. The Willowbrook Wildlife Center functions primarily as a wildlife rehabilitation and environmental education center. The facility has been in operation for over 50 years and attracts an estimated 120,000 visitors annually, which includes vehicular and pedestrian guests, who come to enjoy the exhibits at the center as well as the walking trails and interpretive experiences offered throughout the preserve. The staff there provides medical treatment to more than 10,000 sick or injured native wildlife that are brought to the center each year. Once restored to health, they are released back into their native habitat. The Center also provides learning experiences for citizens to help them live in closer harmony with native Northeastern Illinois wildlife and to better understand the natural world. The District wants to transform the Willowbrook Wildlife Center to be more closely aligned with its Mission and has established a new vision and program for the facility.

## **SUMMARY OF PROPOSED OPERATIONS**

Willowbrook Wildlife Center at Willowbrook Forest Preserve in Glen Ellyn is a native wildlife rehabilitation facility that provides care and medical treatment to injured and orphaned wild animals. It also serves as a resource to teach DuPage County's residents about living in harmony with local wildlife. Willowbrook partners with organizations and individuals, including the Lincoln Park Zoo, Illinois Department of Natural Resources, Chicago Area Bird Collision Monitors, county and local municipal animal control agencies, and private wildlife rehabilitators. In 2021, Willowbrook rehabilitated 219 unique species.

With the proposed Phase 2 improvements, a brand new clinic and rehabilitation building with visitor center will be constructed. Forty percent of the building is dedicated to animal care – including an animal intake area, triage area, exam room, surgery room, and indoor recovery areas. Thirteen percent of the building will house offices for staff and volunteers who treat and care for the wildlife and provide interpretation services for the public. Office areas will include a conference room and library for research and classroom for training and programs. Sixteen percent of the building will be used for public engagement and interpretation of wildlife rehabilitation and human impacts to wildlife including climate change. The remaining portions of the building is for the bathrooms, circulation, mechanical equipment and storage.



## VISION PROGRAM

### *Outreach*

Willowbrook aims to be inclusive in our outreach to audiences of different ages, experiences, and socioeconomic backgrounds and provide a shared experience where all members of the community can feel closer to their environment and native wildlife.

### ***Willowbrook Mission***

Willowbrook Wildlife Center at Willowbrook Forest Preserve in Glen Ellyn is a native wildlife rehabilitation facility that provides care and medical treatment to injured, sick and orphaned wild animals. It also serves as a resource to teach DuPage residents about living in harmony with local wildlife.

### ***Willowbrook Vision***

Willowbrook Wildlife Center is state of the art wildlife rehabilitation facility that is a national leader in engaging visitors in veterinary science, medical care and wildlife rehabilitation in action while championing healthy interconnected ecosystems to foster and promote safe, healthy, and sustainable communities for all living things in DuPage County and beyond.

*Goals:* (Critical success factors / key performance indicators, mandates)

1. Over the next 10 years, Willowbrook will transition away from having a collection of 54 non-releasable animals to focusing on 100% rehabilitation and reintroduction into the wild by 2031.
2. To improve the safety and conditions of the facilities for the rehabilitation and restoration of animals and animal species.
3. To improve safety and efficiency of facilities and work environment for Willowbrook staff and volunteers
4. To improve the ability of the facilities to engage and immerse the public in the wildlife rehabilitation processes and ecosystem environments that make up of 26,000 acres of DuPage County open space consisting of restored savannahs, woodlands, wetlands, and prairie environments to foster a greater appreciation for the native species, animal habitats, ecosystem functions and the interconnectivity of natural systems
5. To make the facility more sustainable utilizing the latest in energy efficient, LEED, and green infrastructure design principles.
6. To support the captive propagation of at-risk species and research projects that will advance wildlife medicine and wildlife rehabilitation.





**WILLOWBROOK WILDLIFE CENTER**  
**Phase 2 Master Plan Improvements**  
 Willowbrook Forest Preserve  
 525 S. Park Blvd.  
 Glen Ellyn, Illinois 60137

October 26, 2022  
 Project No. M-340-000

**Comparison of Existing and Proposed Uses**

|                           | Existing   | Proposed   |
|---------------------------|------------|------------|
| <b>Visitor Experience</b> | 2,022 SF   | 3,140 SF   |
| <b>Classroom</b>          | 325 SF     | 802 SF     |
| <b>Office</b>             | 1,235 SF * | 3,199 SF ^ |
| <b>Clinic ¥</b>           | 1,090 SF   | 3,569 SF   |
| <b>Rehab</b>              | 420 SF     | 6,417 SF   |

**Notes:**

\* Includes 922 s.f. of office space in separate propagation building.

^ Includes open office, private offices, conference room, and library.

¥ Clinic areas do not include exterior enclosures or existing propagation building to remain.

See attached floor plans of the Existing Clinic/Visitor Center and Proposed Clinic/Visitor Center.

