



DUPAGE COUNTY FOREST PRESERVE | **WILLOWBROOK WILDLIFE CENTER**

SCHEMATIC DESIGN PROGRESS UPDATE
08.17.2021

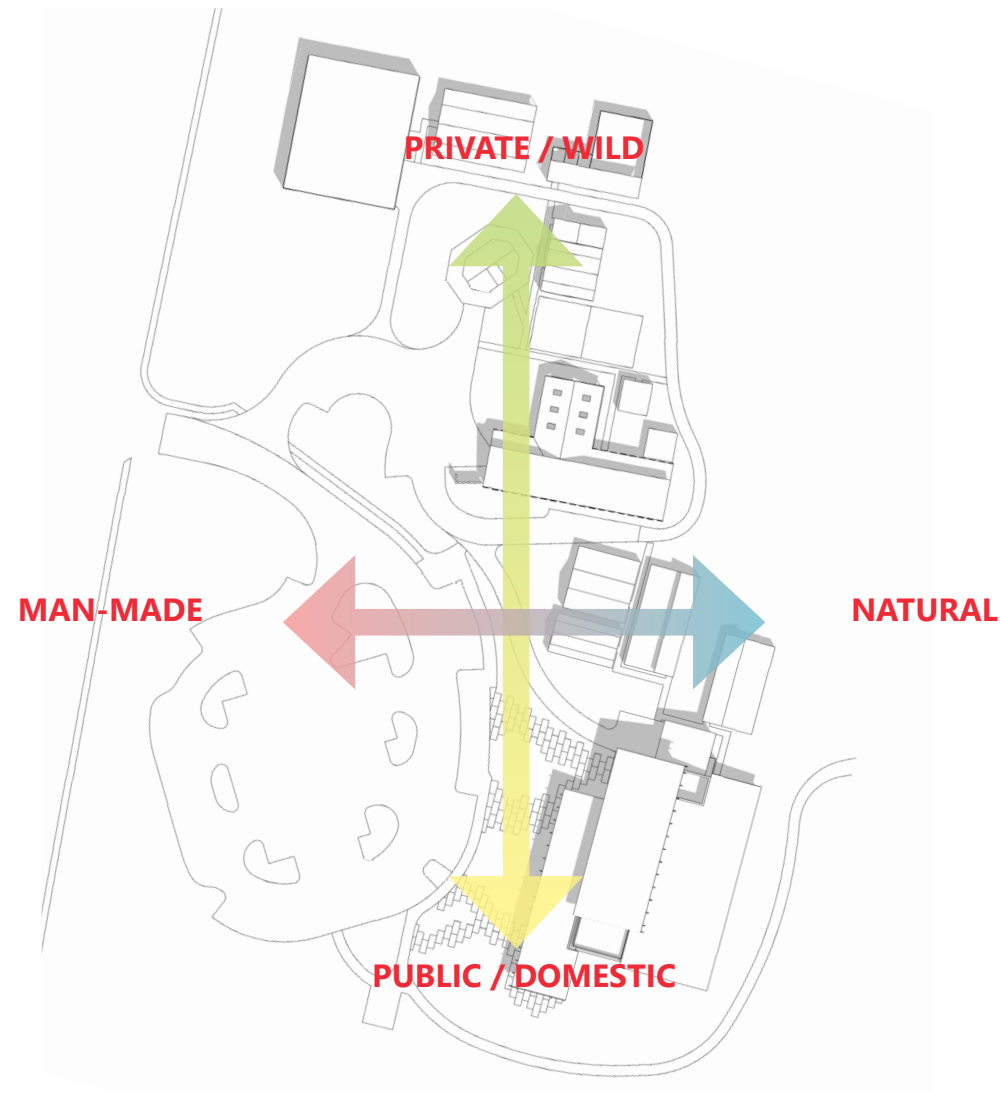
WILLOWBROOK WILDLIFE CENTER
EXISTING SITE AERIAL



WILLOWBROOK WILDLIFE CENTER PROPOSED SITE DIAGRAM



1. A CONTINUUM OF EXPERIENCES FOR ALL INHABITANTS



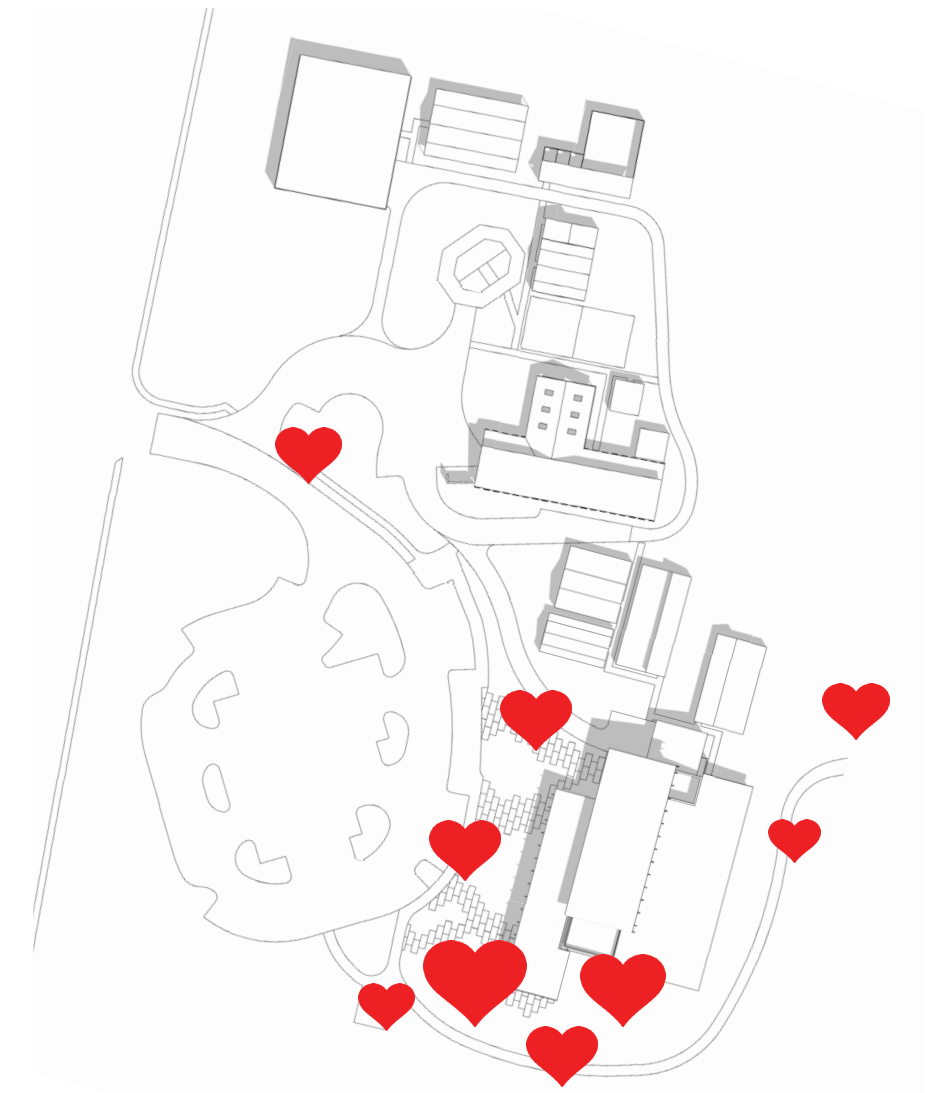
The layout of the facility should blur interior environment with the outdoors to allow inhabitants to experience and connect with nature. As animals move through the facility they can gradually work their way towards autonomy to survive independently in the wild.

2. SUPPORTING SUSTAINABILITY



From the orientation of the site components and the careful consideration of the site conditions to the engineering of each element, the new facility should embrace sustainability and act as a leader in the field of sustainable development.

3. ENGAGE AND INSPIRE HARMONY WITH OUR ECOSYSTEM

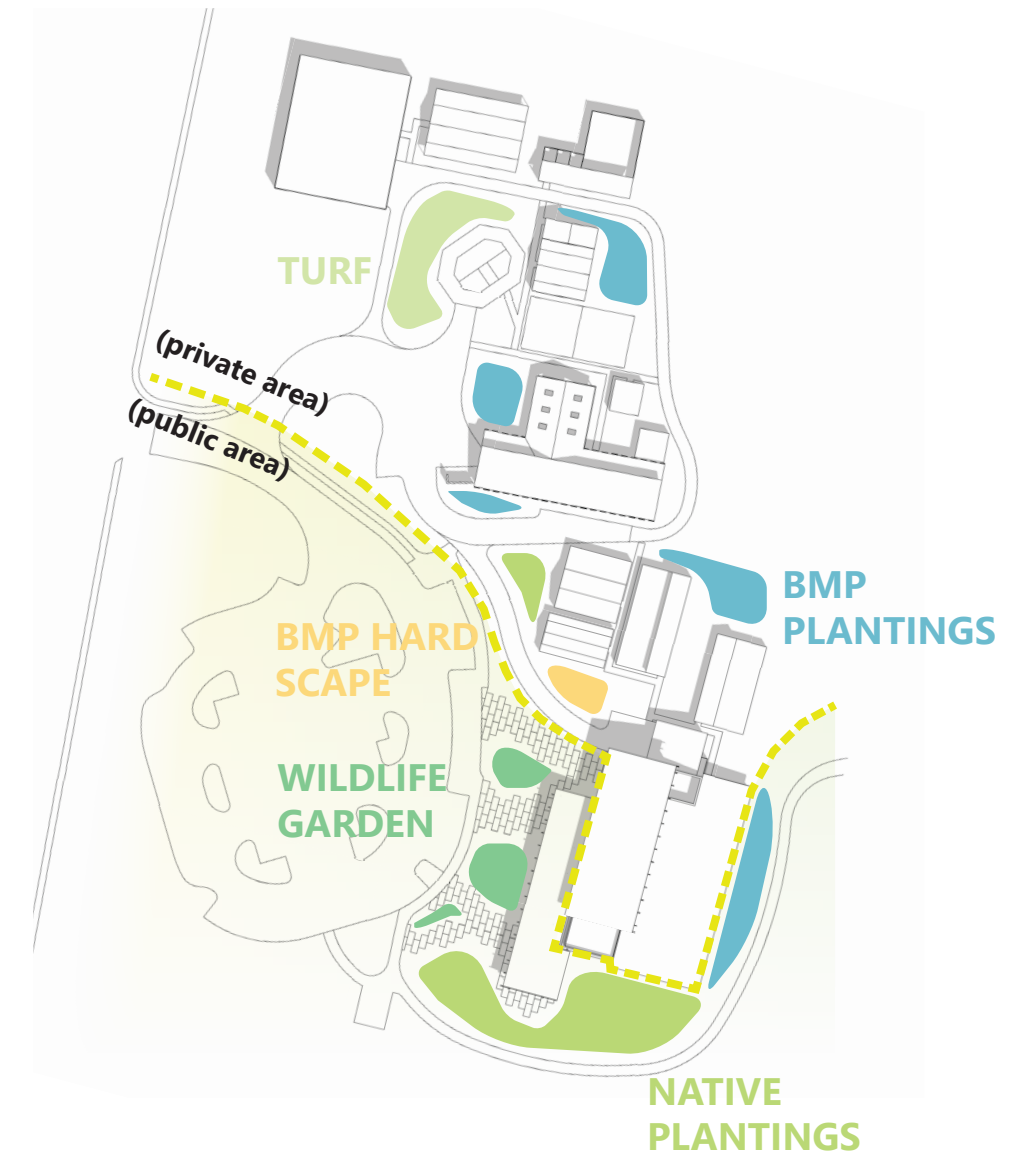
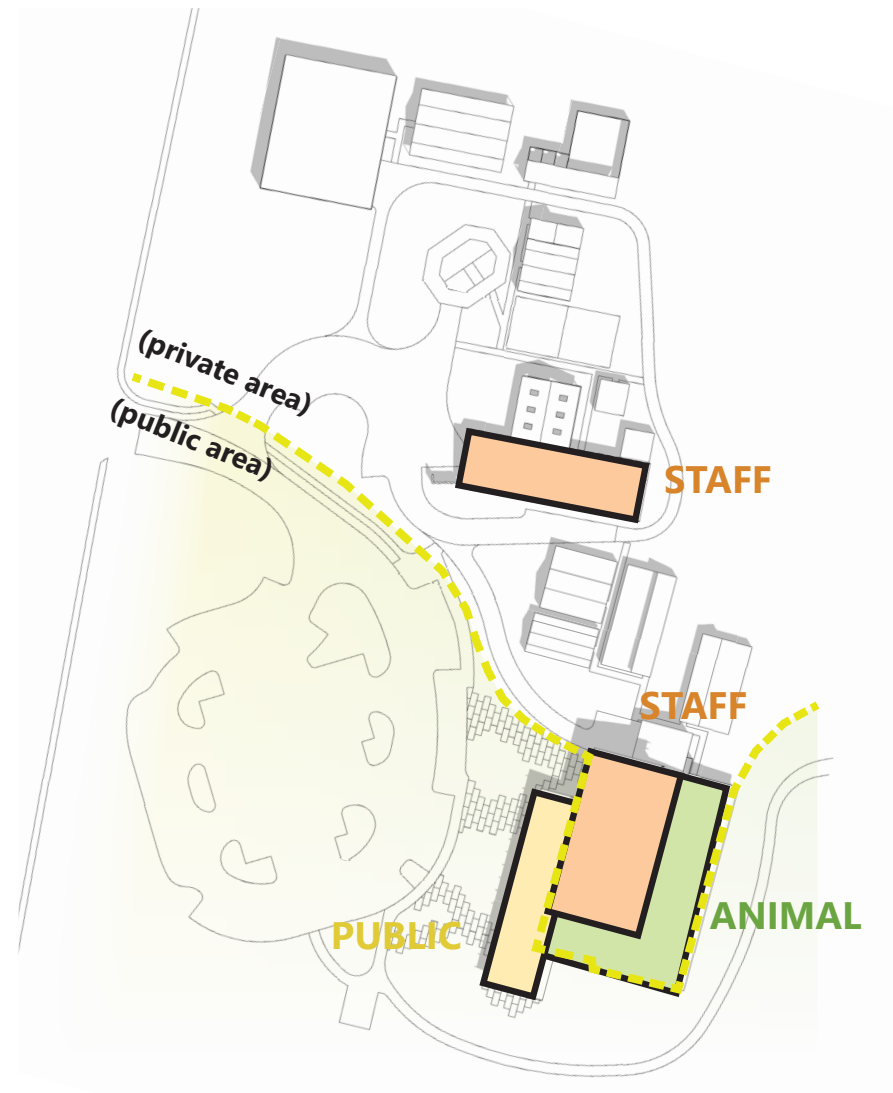
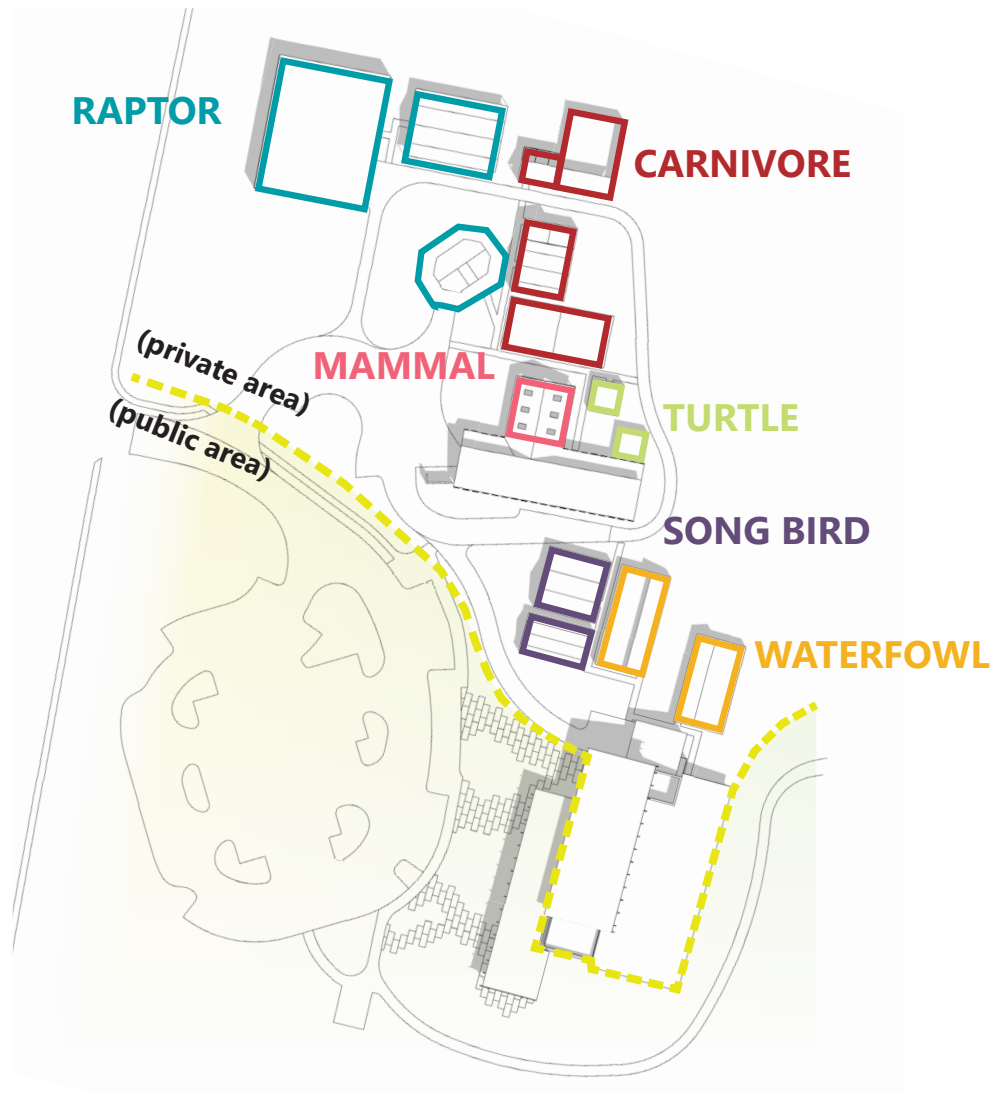


Create an atmosphere that inspires the public and staff to live in harmony within our ecosystem and act as good stewards of our environment.

1. OUTDOOR PROGRAM ORGANIZATION

2. INDOOR PROGRAM ORGANIZATION

3. LANDSCAPE ORGANIZATION

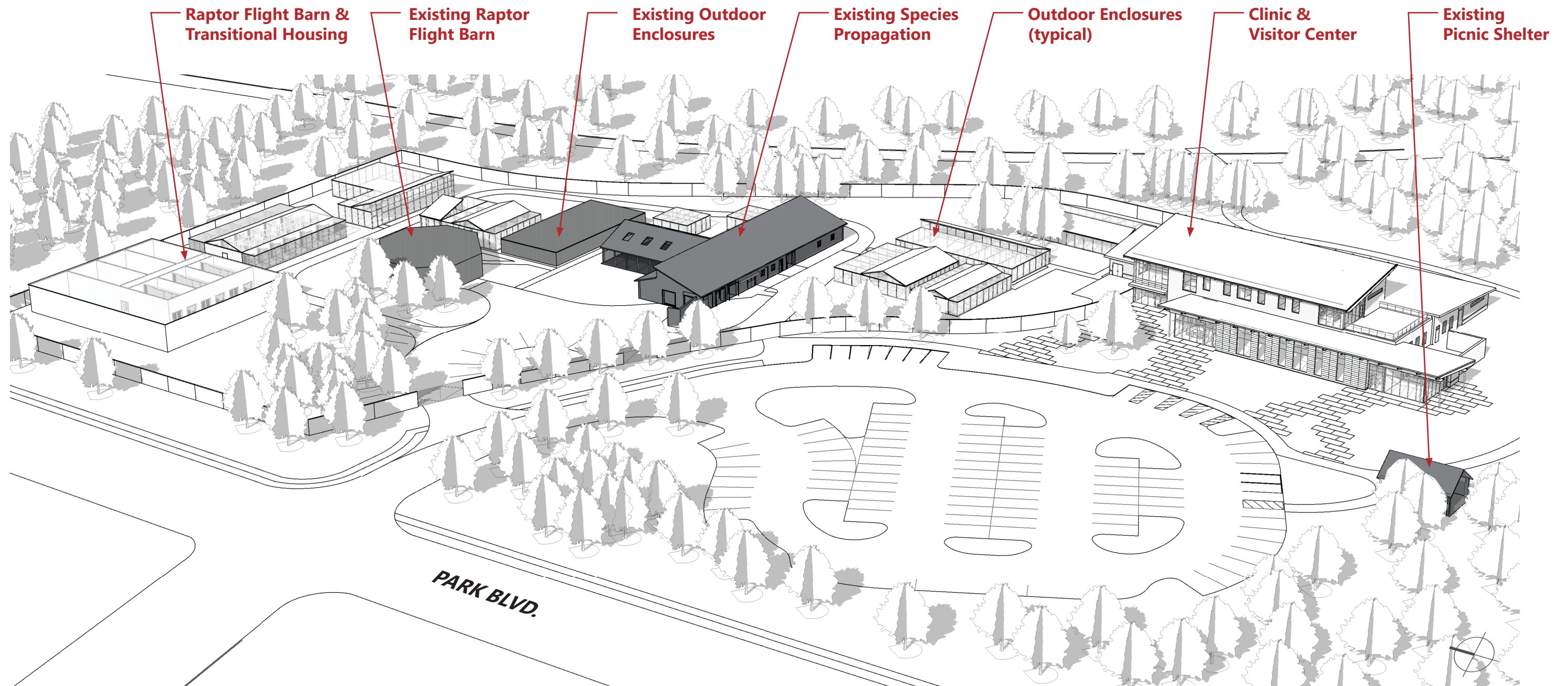


ENLARGED SITE AREA



- (A) Clinic and Visitor Center
- (B) Entry Plaza
- (C) Outdoor Learning
- (D) Outdoor Rehabilitation & Isolation Runs
- (E) Wildlife Gardens
- (F) Native Buffer Garden
- (G) Reconfigured Interpretive Trail
- (H) Service Drive
- (I) Song Bird Housing (Including Resident)
- (J) Day Duck and Aquatic Mammal Ponds Enclosure
- (K) Large Waterfowl Enclosure
- (L) Large Carnivore Enclosure
- (M) Large Carnivore Transitional Enclosure
- (N) Existing Species Propagation Building
- (O) Turtle Enclosure
- (P) Existing Mammal Enclosure
- (Q) Resident Carnivore Enclosure
- (R) Existing Enclosure
- (S) Small Carnivore Transitional Enclosure
- (T) Existing Raptor Barn
- (U) Raptor Flight & Raptor Transitional Barn
- (V) Resident Raptor Outdoor/Indoor Enclosure
- (W) Resident Raptor Outdoor Enclosure
- (X) Expanded Rescue Parking
- (Y) Existing Staff Parking
- (Z) Existing Visitor / Staff Parking
- (1) Existing Shelter
- (2) Fencing w/ Gates
- (3) Native Landscape / BMPs
- (4) Wetland
- (5) Glen Crest Creek

PROJECT MASSING



FLOOR PLAN DIAGRAM & FEATURES



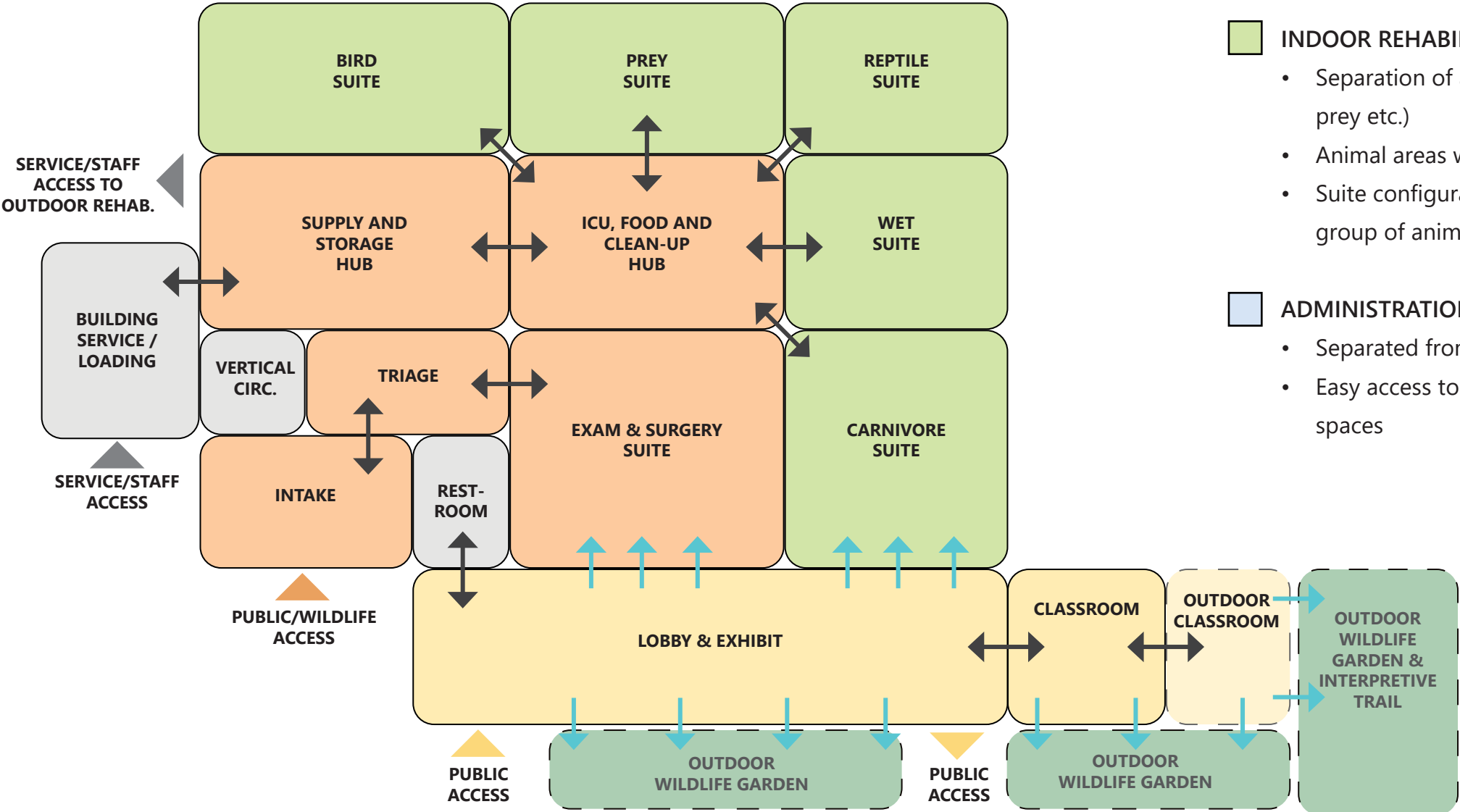
SECOND FLOOR

- PUBLIC**
 - Visibility into animal rehabilitation and clinic
 - Connection to outdoors and wildlife gardens
 - Indoor classroom opens to outdoor classroom space

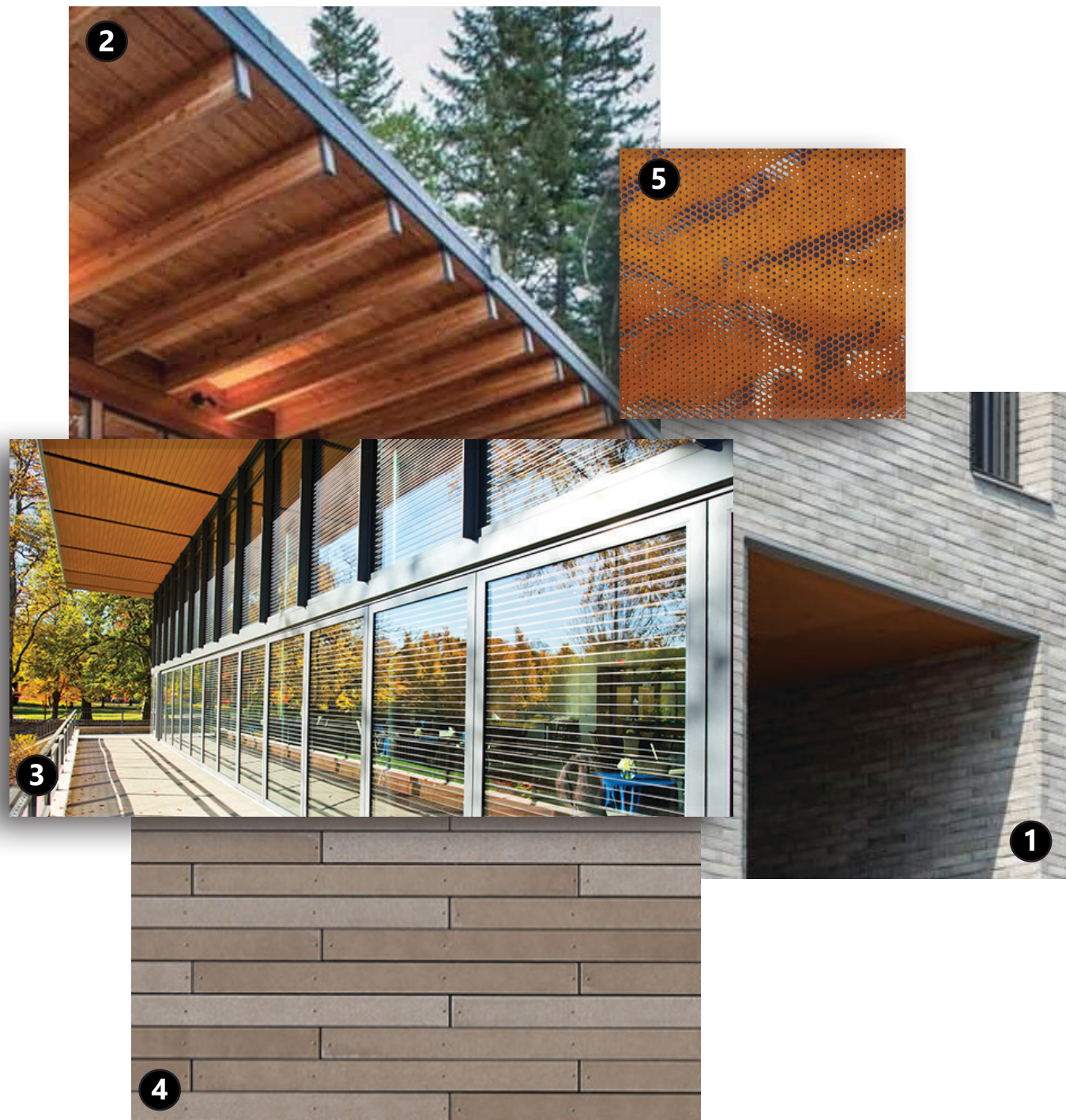
- CLINIC**
 - Animal intake areas separate from public lobby but easily accessible
 - Transparency of operations to the public for education

- INDOOR REHABILITATION**
 - Separation of animal types (predators not adjacent to prey etc.)
 - Animal areas with natural daylight
 - Suite configuration for service and storage for each group of animals

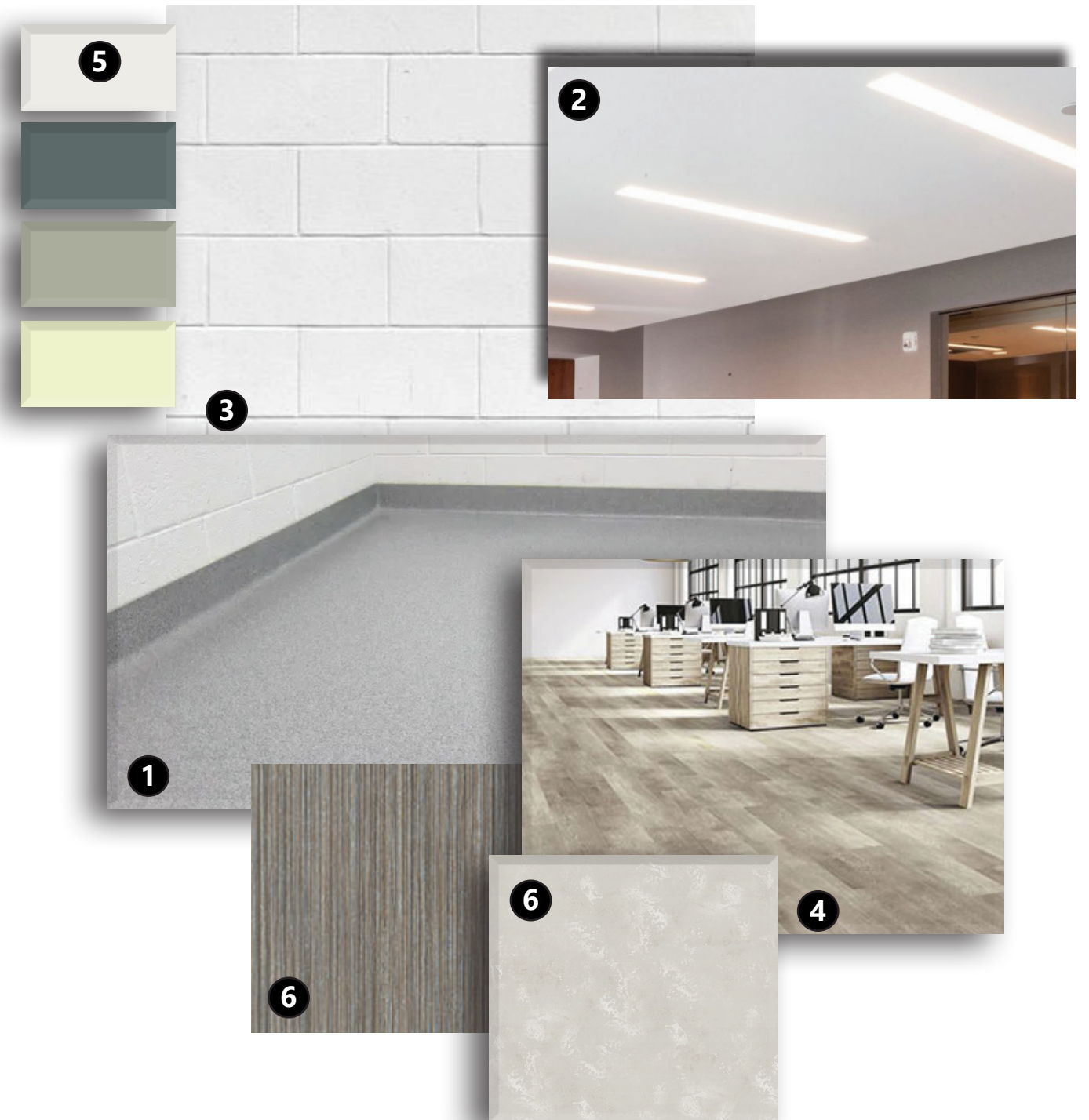
- ADMINISTRATION**
 - Separated from Clinic and Rehabilitation spaces
 - Easy access to indoor and outdoor rehabilitation spaces



FIRST FLOOR



- 1 BRICK MASONRY
- 2 WOOD STRUCTURE
- 3 BIRD FRIENDLY GLASS
- 4 FIBER CEMENT SIDING
- 5 SUNSHADE /BIRD DETER DEVICE

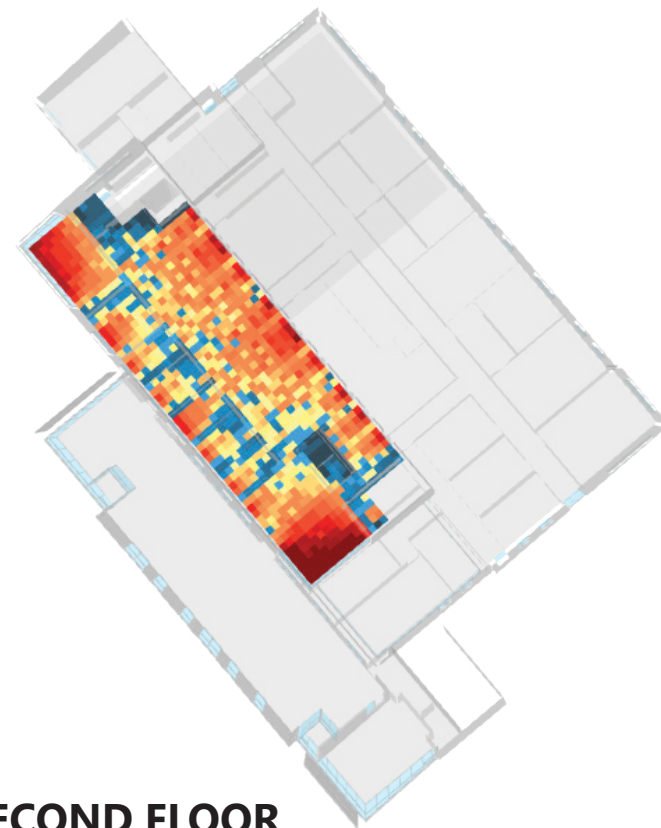


- 1 EPOXY FLOORING
- 2 HARD CEILING FINISH
- 3 PAINTED CMU WALLS
- 4 LVT FLOORING (ADMINISTRATION)
- 5 PAINT COLOR PALETTE EXAMPLE
- 6 CASEWORK MATERIAL

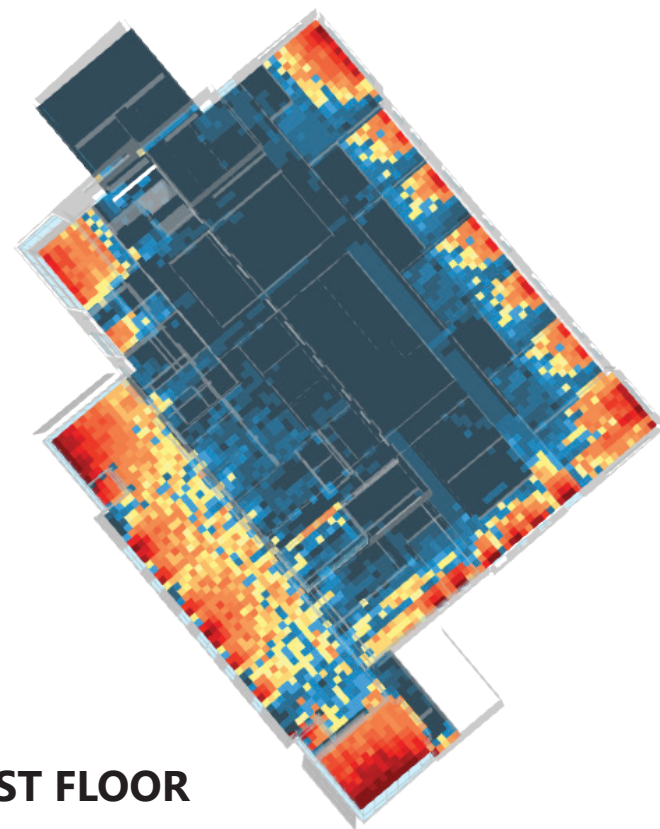
SPATIAL DAYLIGHT AUTONOMY STUDY



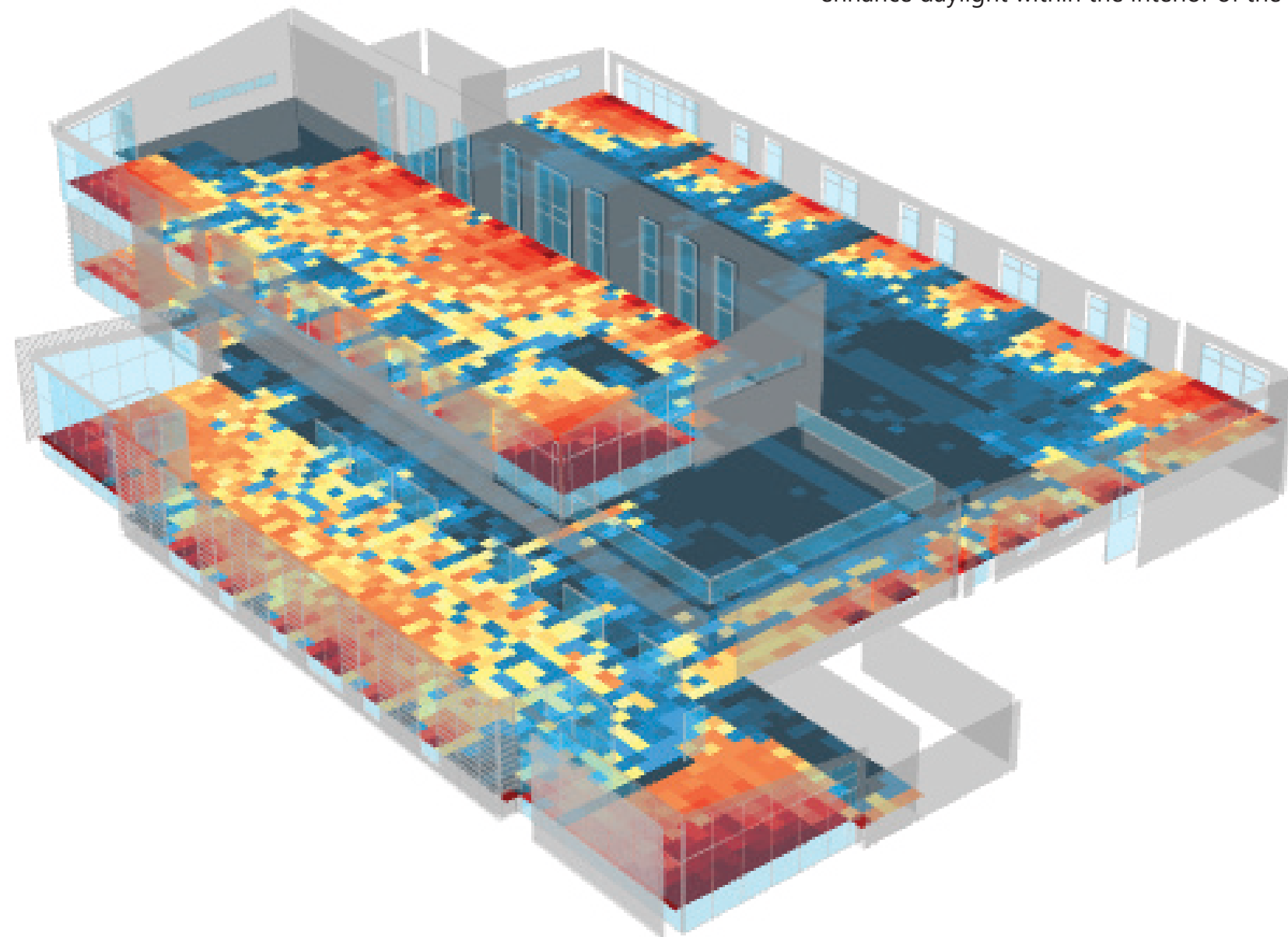
Spatial Daylight Autonomy (sDA) measures spaces that receive 30fc of light for at least 50% of the day. For the project this calculates to 24% which does not meet the recommended minimum of 55%. The shortfall is primarily due to having internal spaces without windows. The required close spatial relationships of the project drive the compact layout and daylight preference has been given to areas consistently occupied with people and animals. Solatube or borrowed lites may be used to further enhance daylight within the interior of the building.



SECOND FLOOR

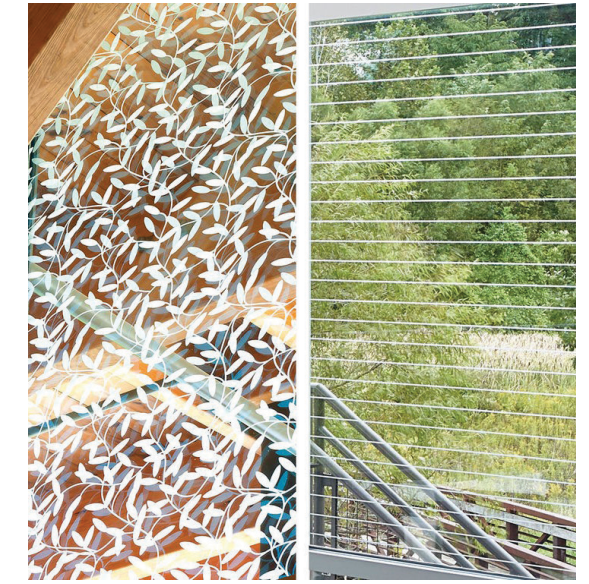


FIRST FLOOR



Features included within the project:

- NATIVE & DROUGHT TOLERANT PLANTINGS
- BMPS FOR STORM WATER POLLUTION PREVENTION AND RAINWATER CONTROL
- HEAT ISLAND REDUCTION
- SOLAR-READY STRUCTURE AND INFRASTRUCTURE
- BIRD FRIENDLY GLASS
- HIGH PERFORMANCE BUILDING ENVELOPE
- DAYLIGHT OPTIMIZATION
- LOW-VOC MATERIALS
- RECYCLED MATERIALS
- LOW EMBODIED CARBON MATERIALS
- HIGH EFFICIENCY MECHANICAL SYSTEMS
- LOW-FLOW PLUMBING FIXTURES
- REDUCED LIGHTING POWER DENSITY
- DARK SKY LIGHTING DESIGN



Potential features for future inclusion:

- GEOTHERMAL
- RAINWATER HARVESTING
- PHOTO VOLTAIC PANELS

