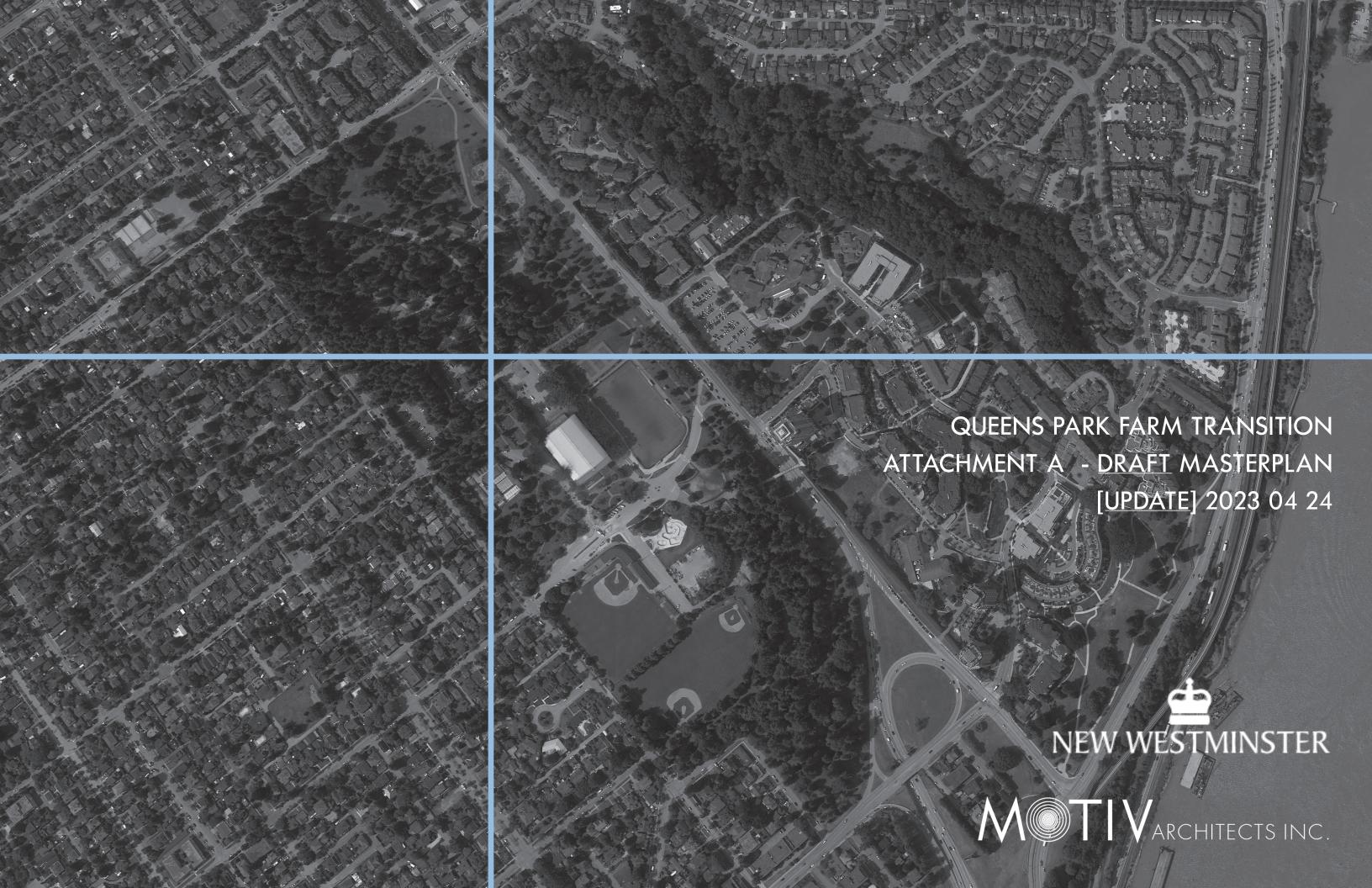


Attachment A: Queen's Park Farm Master Plan



We recognize and respect that New Westminster is on the unceded and unsurrendered land of the Halkomelem speaking Peoples. We acknowledge that colonialism has made invisible their histories and connections to the land. As a city, we are learning and building relationships with the people whose lands we are on.



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The City of New Westminster is embarking on a transition of the Queen's Park farm into a hub within the park that maintains a strong connection to education, ecology and the coming together of community, with flexibility provided for complimentary programming that is highly integrated with the adjacent uses within the park. Considerations include programs and activities that are barrier free and family-friendly.

MOTIV architects was retained in June of 2022 to engage in a masterplanning and conceptualization process that draws from public consultation completed in 2021 to re-imagine what this area of the park could be. A phased approach is desired to facilitate funding and potential partnerships, as well as allow for flexibility in programming as the public engages with a renewed space with alternate possible uses.

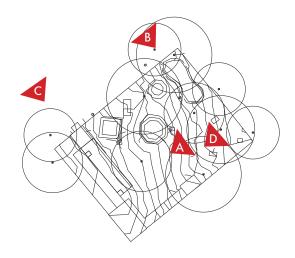
The analysis and design work that follows tells the story of our design process, continued engagement with stakeholders and the public, incorporation of feedback into a preferred design scheme, and the development of an implementation plan for build-out in phases, and for programming the space into the future.

DOCUMENTS DRAWN FROM:

- » Engagement Summary, graphic snapshot and verbatim input (2021)
- » New Westminster Official Community Plan 2041 (2017)
- » Queen's Park Master Plan (2013)
- » The Parks and Recreation Comprehensive Plan (2008)
- » Trail and Greenway Master Plan (2000)
- » City's GIS Data
- » Envision 2032 Sustainability Plan



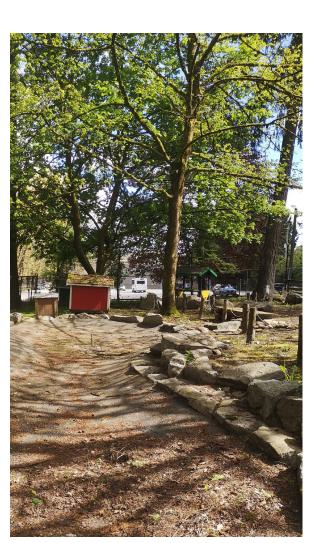
PROJECT CONTEXT THE FARM SITE - PHOTOS



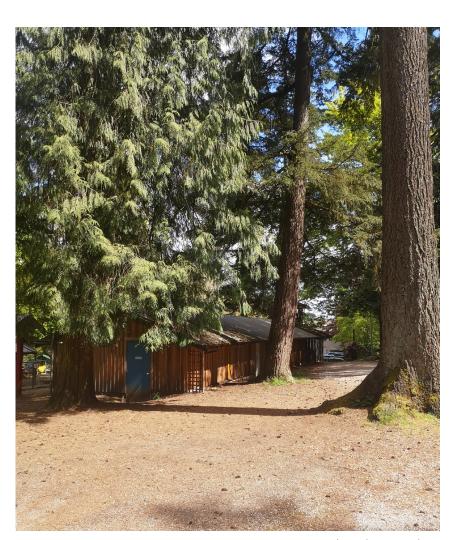
Key Plan



View A - Looking West



View B - East edge



View C - North and West Edges



View D - Aviary

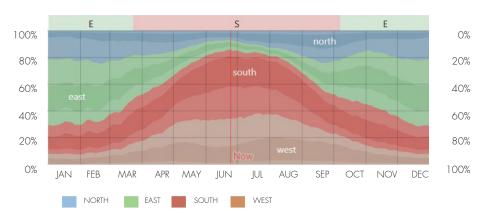


SUN PATH DIAGRAM

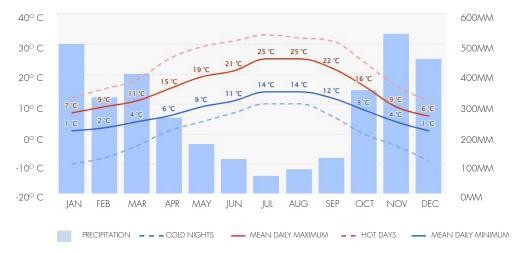
PROJECT CONTEXT

THE FARM SITE - WIND AND RAIN

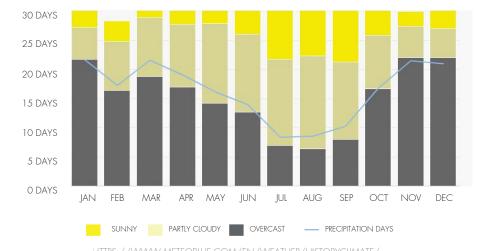
WIND DIRECTION



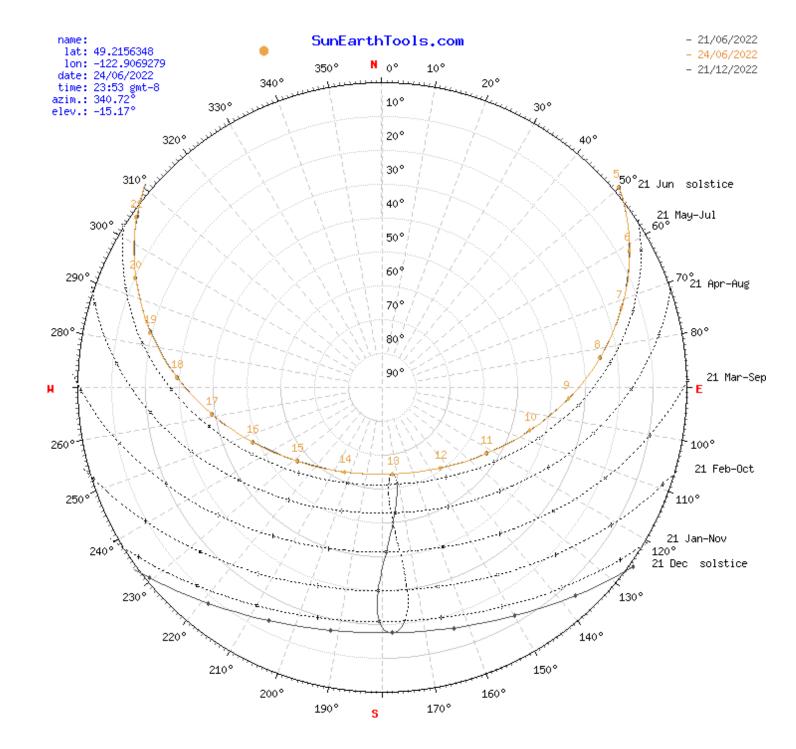
AVERAGE TEMPERATURES AND PRECIPITATION



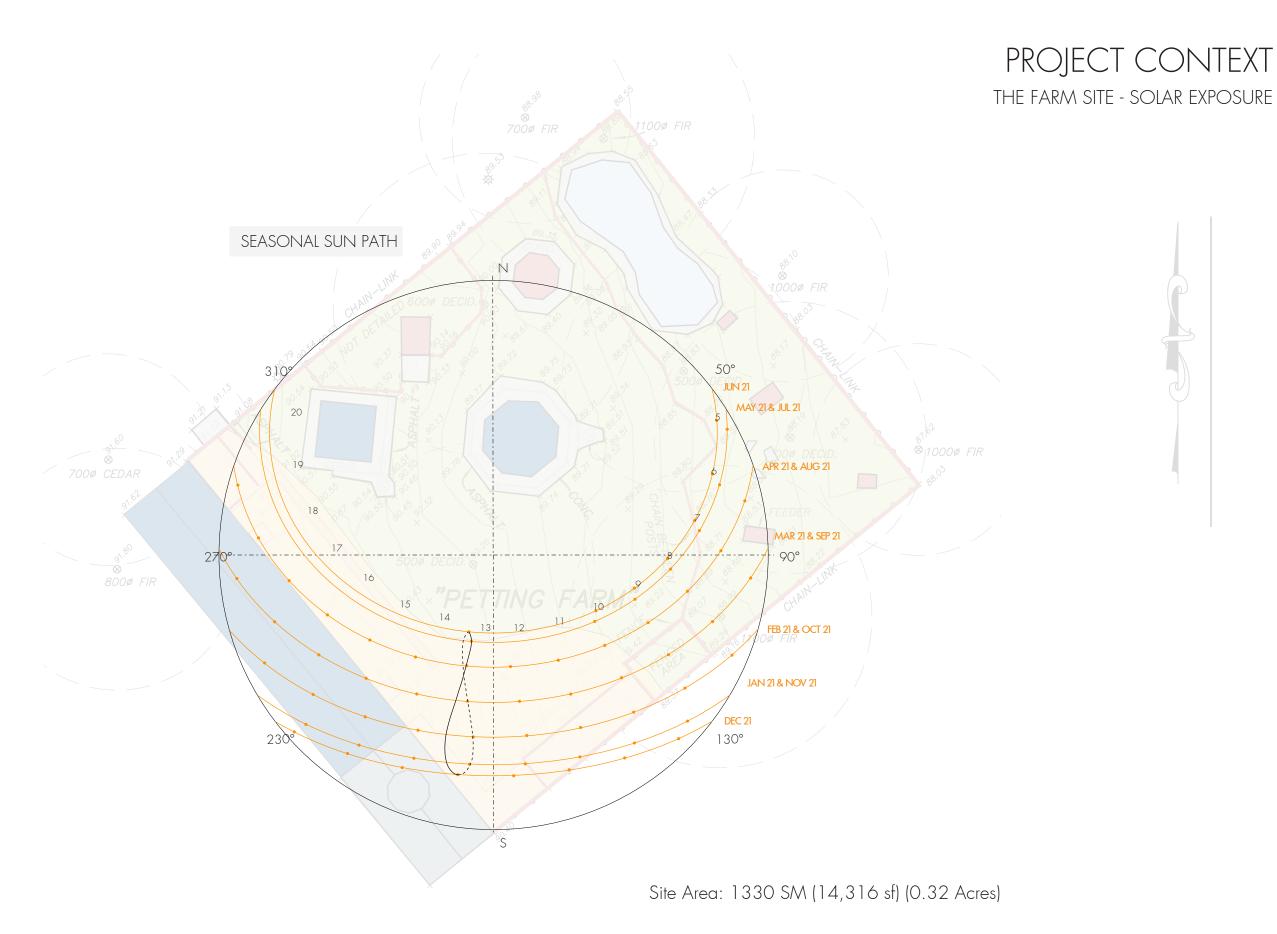




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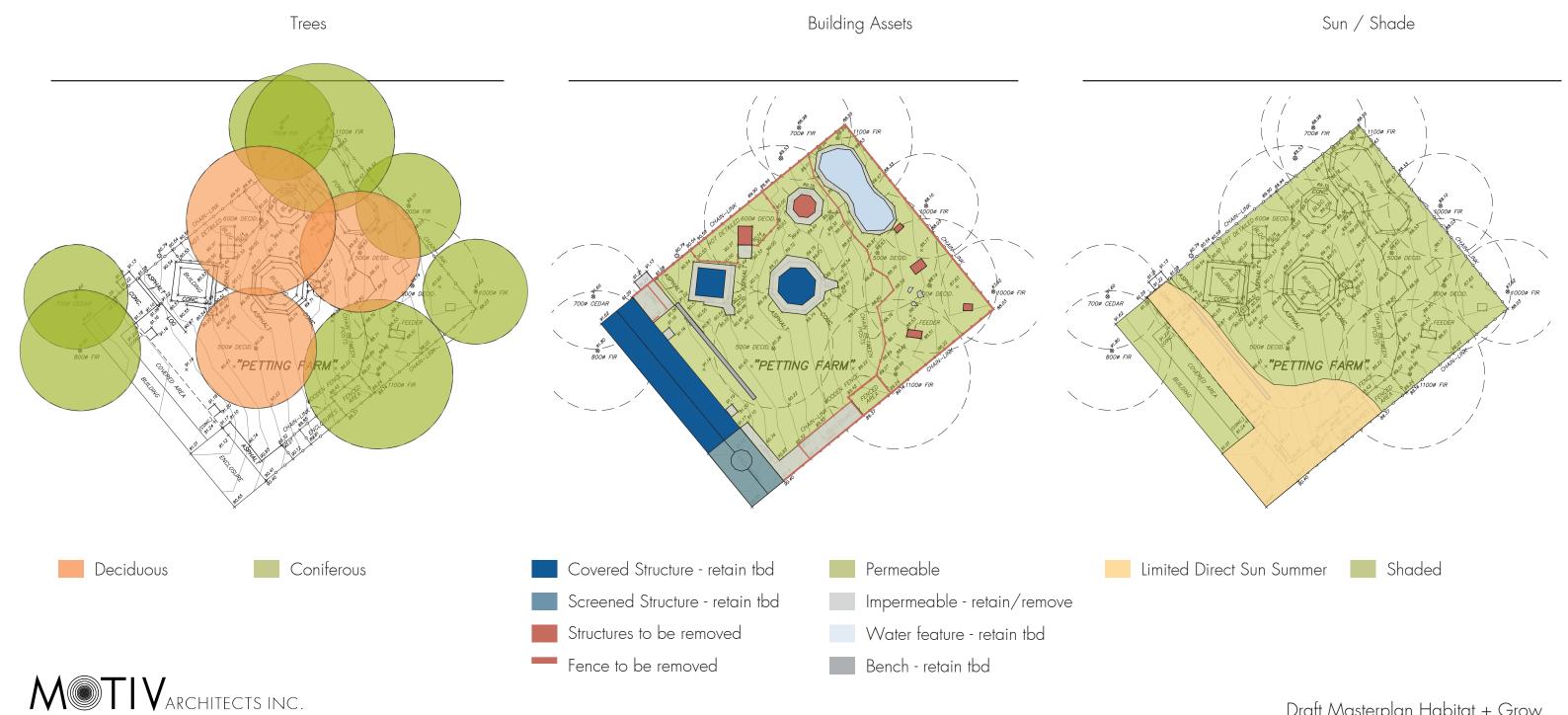


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PROJECT CONTEXT OPPORTUNITIES AND CONSTRAINTS



DESIGN OPTIONS









2022-007 - Queens Park Farm

HABITAT

Concept

The HABITAT scheme focuses on habitat – within the immediate landscape, within the larger park and beyond to other locations connected via camera or phone application. The existing topography and sunlight exposure are utilized to created three biomes; a pollinator meadow, a shrub and understorey transition and an infiltration/ wetland area. Each biome supports specific types of creatures that live in close relation to the specific moisture, temperature, plant species and natural or structured habitats in the immediate context.

Planting would be organized in zones based on sunlight and topography. Built habitats structure movement through the site and offer visual interest. This scheme also plays off of the existing gabion aesthetic with insect gabion walls filled with different objects, such as logs, old bricks, and pine cones. The wetland occupies the lowest level of the site and is the receptor of waste water from the splash park.

Educational component

Observation and recording are the key to the educational component of this scheme. This would be achieved with storytelling panels along the pathways and within the workshop building, along with active workshops and teaching. The observation station is a place where magnified views and opportunities to record sitings – through a log or a live upload of images tracks change and growth. Live cameras and infrared cameras could provide views into nests and dens typically out of sight and a nocturnal story also typically unknown.

Play component

Play is accommodated with a snag forest play area and a snag sculpture, along with an insect gallery/ maze-like entry sequence. The nature of observation inherent in the site concept also has a hide-and-seek or I Spy With My Little Eye quality – which could be incorporated into the storytelling panels.

Art overlay

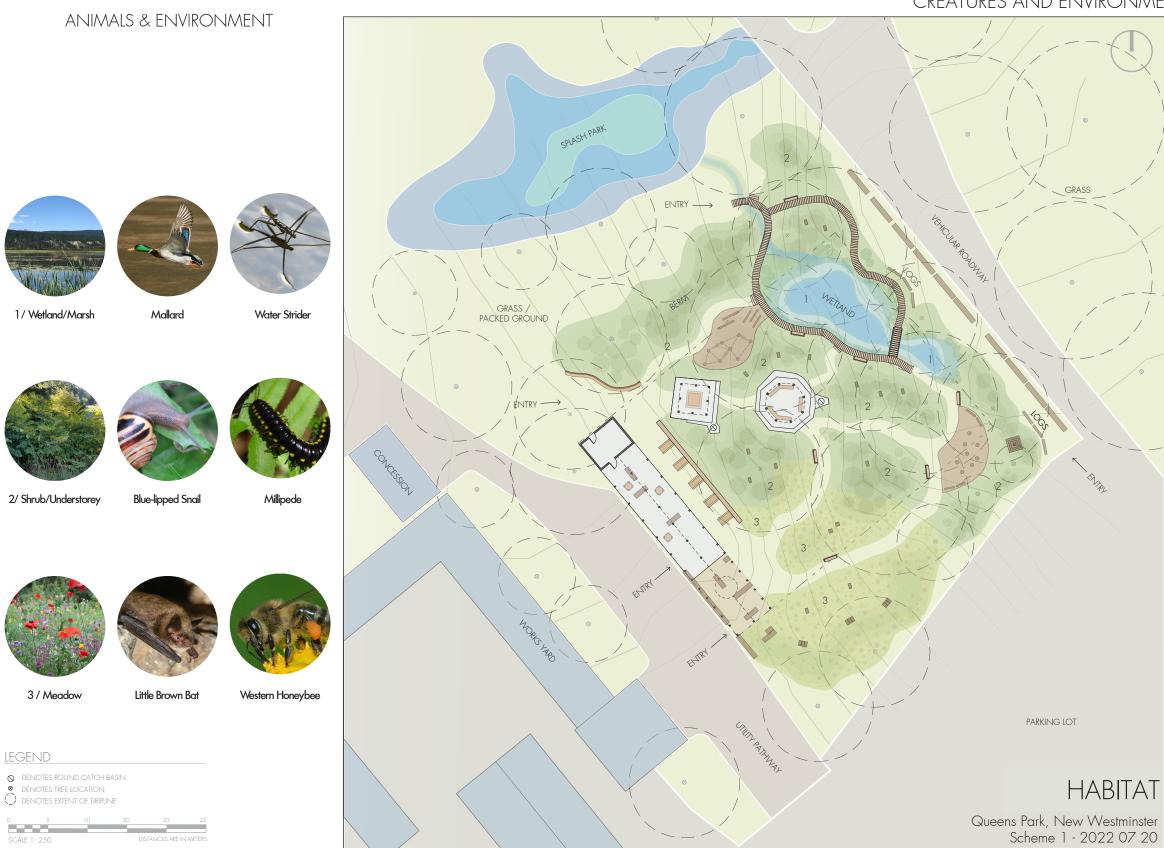
Art is incorporated through a snag sculpture and built habitats that could be commissioned or painted to accentuate the site. The insect walls create a distinct visual that could also be commissioned/ crafted as a piece of art.

Infrastructure

The long building is retained as a workshop with information displays and storage. The west wall of the structure is opened up to allow a permeable edge to the site with glimpses through to the planting and structures beyond. The aviary is transformed into an insect gallery/ maze using natural gabion structures that are also used to structure edges along the low easterly edge of the site. The octagonal structure would house the observation station – possibly with stationary binoculars. The square structure would be left open with a table and seats for weather protected conversations.

SCHEME 1 - HABITAT

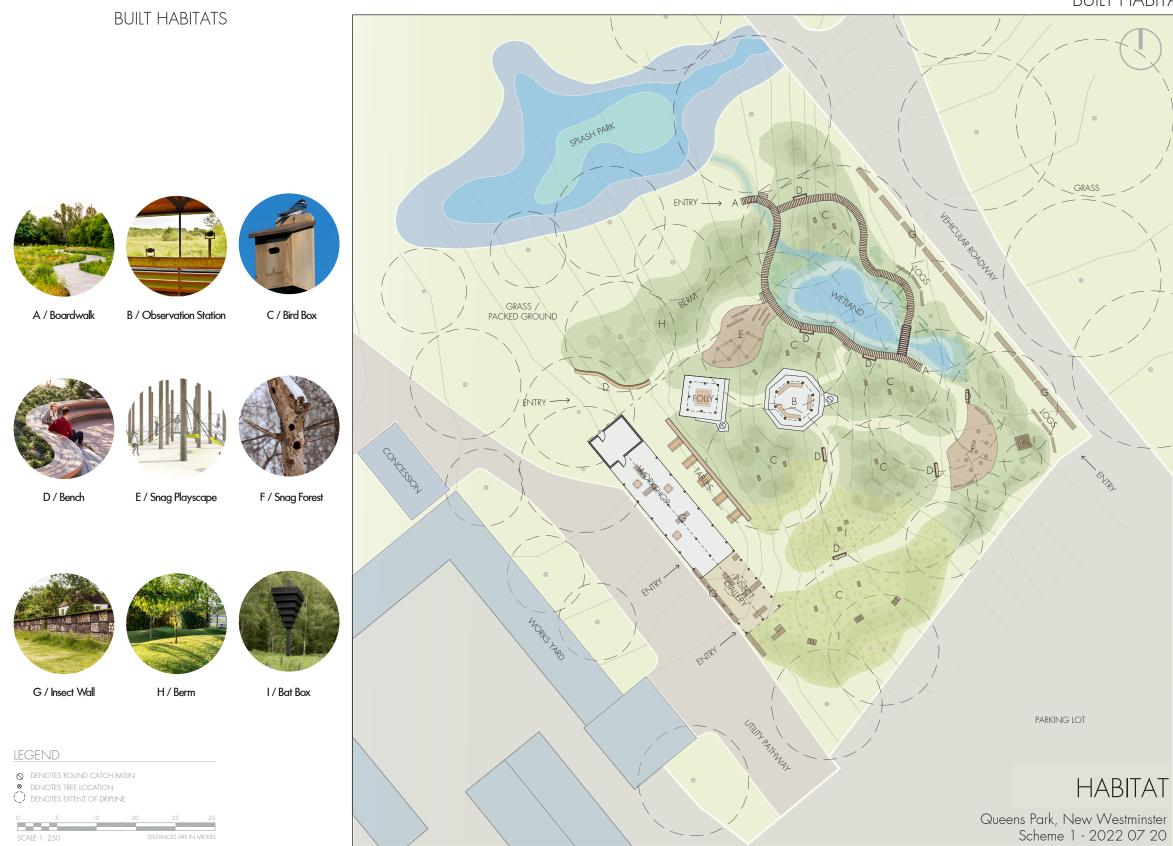
CREATURES AND ENVIRONMENT





SCHEME 1 - HABITAT

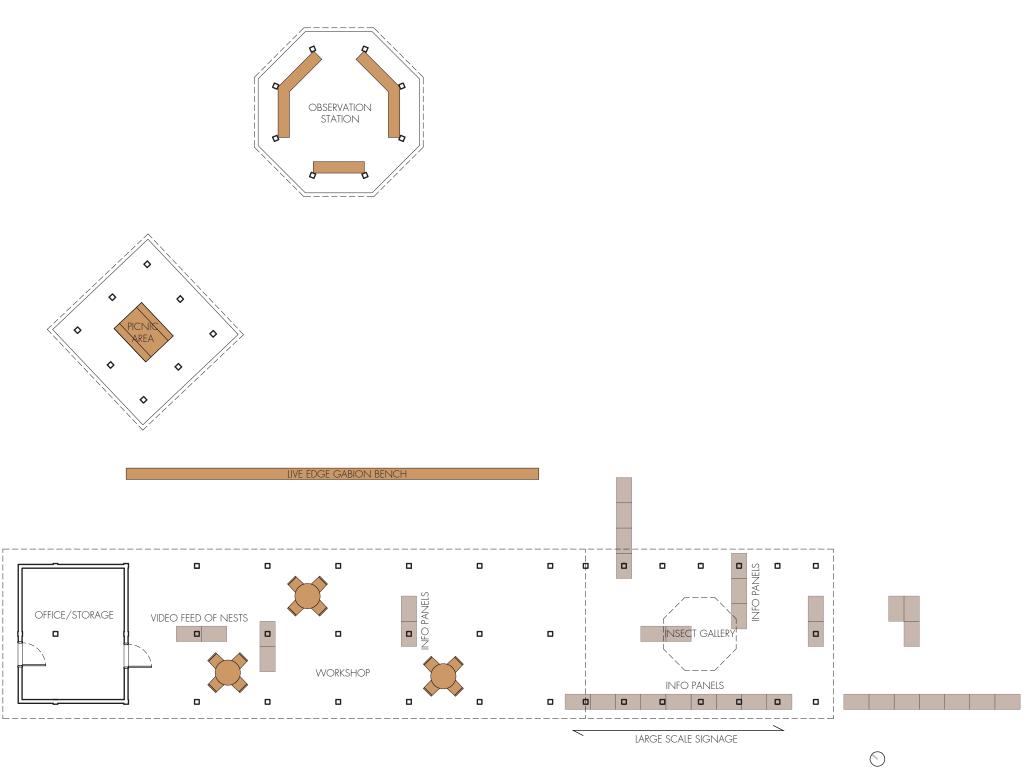
BUILT HABITATS





SCHEME 1 - HABITAT

SCHEME INFRASTRUCTURE & PROGRAMMING



PERSPECTIVES

Large Scale Signage

Insect Habitat Gabion Walls

Bird Box





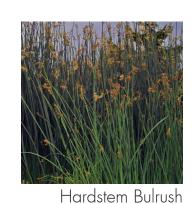


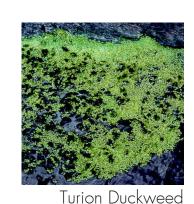
View from NW View from South View from East

SCHEME 1 - HABITAT PLANTS SPECIES











PLANT SPECIES – WETLAND/MARSH

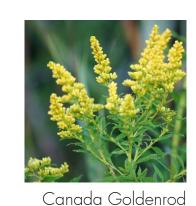


Nodding Onion









PLANT SPECIES – MEADOW











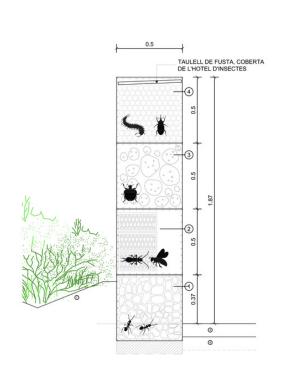
PLANT SPECIES - SHRUB/UNDERSTOREY



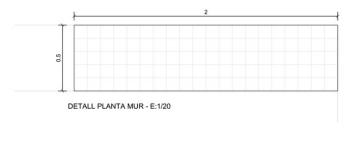
SCHEME 1 - THE HABITAT

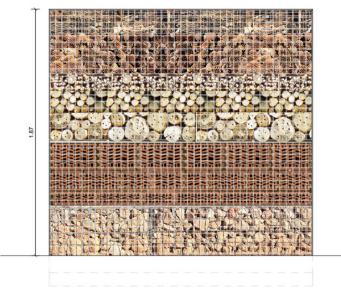
INSECT GALLERY EXAMPLES





CASTLE GARDEN INSECT HOTEL, MALMO BY LINA HIRSCH





INSECT HOTEL @ PARCVALLMORA, BARCELONA BY BATLLE I ROIG ARQUITECTES







GROW

Concept

The GROW scheme focuses on a shade tolerant edible landscape. Built elements play off of the aesthetic of the existing gabion and live slab edge bench – extending the opportunity for long table/ large group gathering around food down the slope of the landscape.

Planting would be organized in natural "mounds" with low-lying plants adjacent to pathways and tiering up to higher plant screening - creating visual interest and changing view-scapes. Rainwater is traced from the roofs of the structures through the site with small irrigation channels – gravity fed from top to bottom of the site topography with small bridges when they cross pathways.

Educational component

Planting would be used for educational purposes to demonstrate natural and potentially indigenous foodways and also medicinal uses for specific flowers, leaves and roots. This would be achieved with storytelling panels along the pathways and within the workshop building, along with active workshops and teaching.

Play component

Play is accommodated with a hoop trellis/tunnel supporting a crawling vine variety, a small slide alongside the edge of the berm and a tube/tunnel through the berm. Log rounds also provide natural seats and jumping points

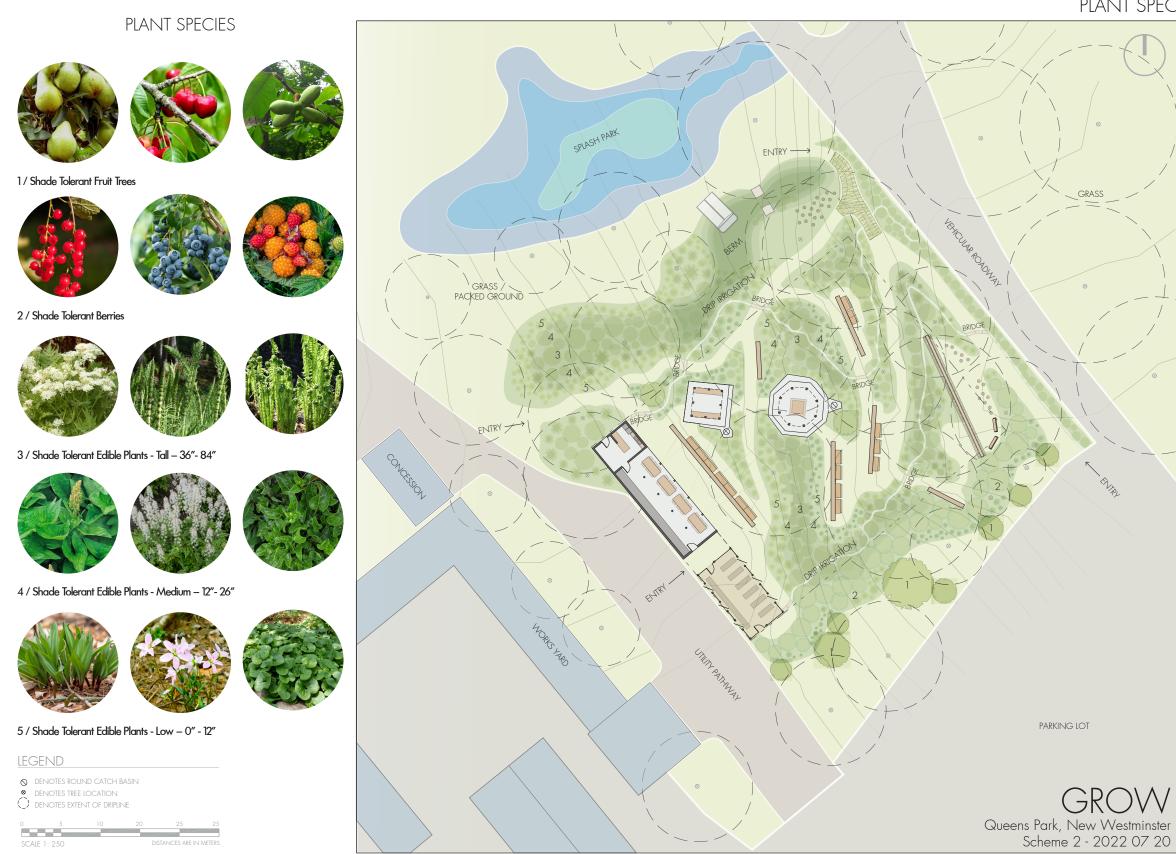
Art overlay

Art is incorporated through a large Kaleidoscope that reflects and refracts imagery of the high level tree canopy. This could also incorporate found objects accessible from a lower level such as pinecones, leaves and flower petals. A sky canopy is also provided, with a rope string system for drying died fabrics, natural patterns prints and paintings and could also have twinkle lights/be used for celebrations with bunting, balloons, etc...

Infrastructure

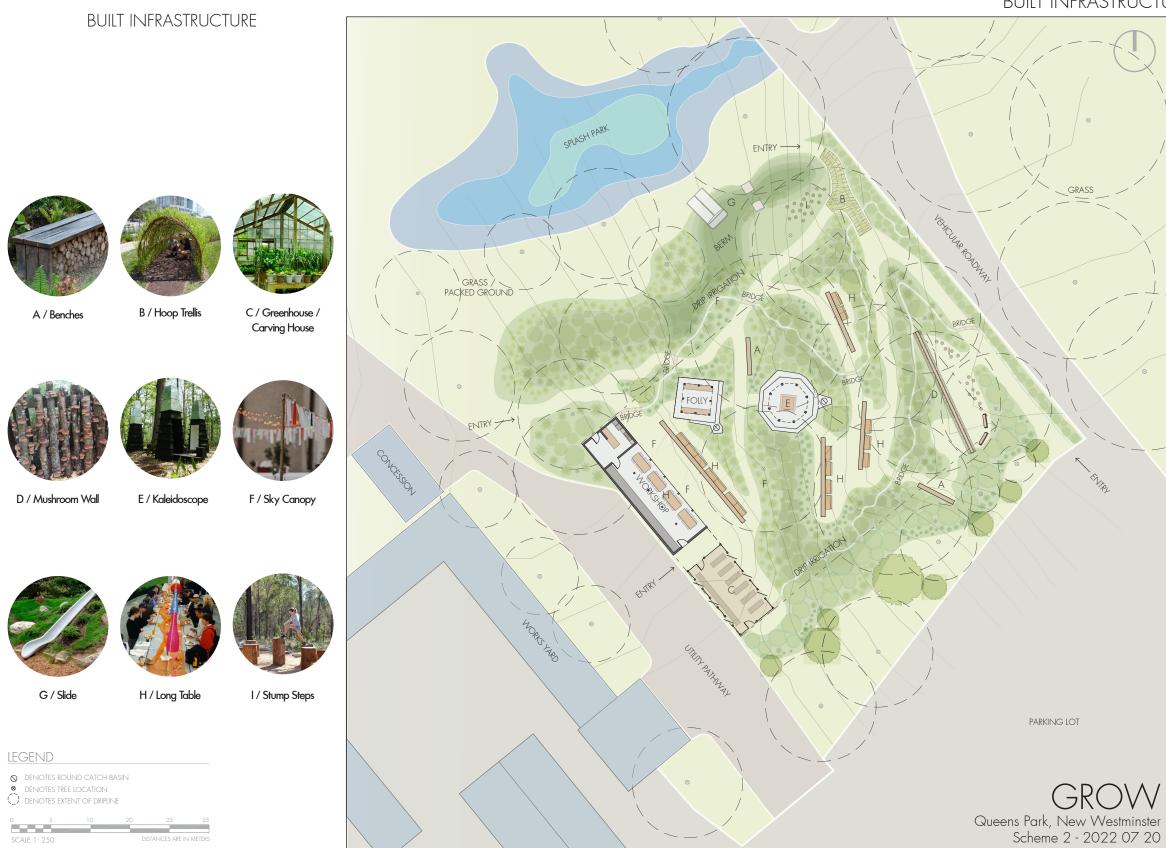
The long building is retained as a workshop and wash station with extensive storage for different groups, with a new entry punched through the west edge, leading with colour and bold signage off of the utility pathway. The aviary is transformed into either a greenhouse for propagating plants or alternatively a carving house – combining the art component of programming with the utility of the existing structure. The octagonal structure would house the kaleidoscope with either a vertical or horizontal format. The square structure would be left open with buffet height counters or alternatively benches for weather protected conversations.

PLANT SPECIES



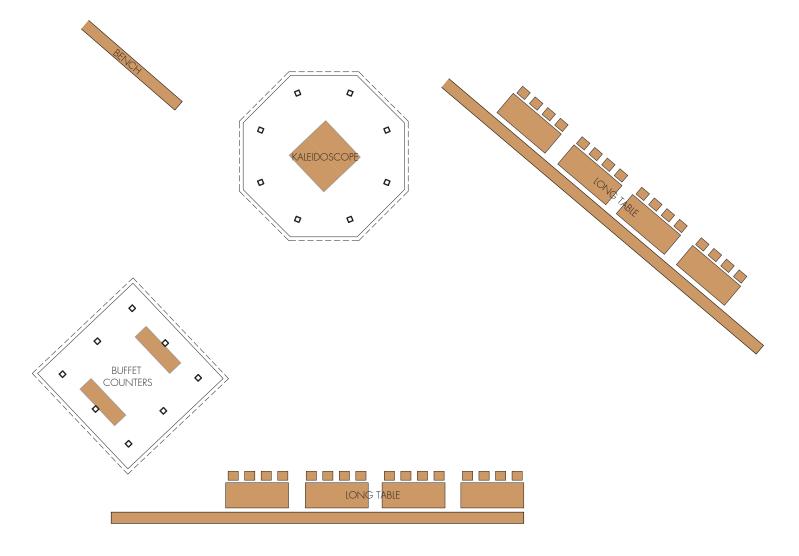


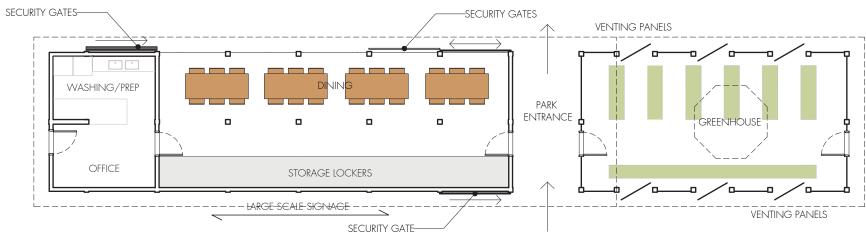
BUILT INFRASTRUCTURE





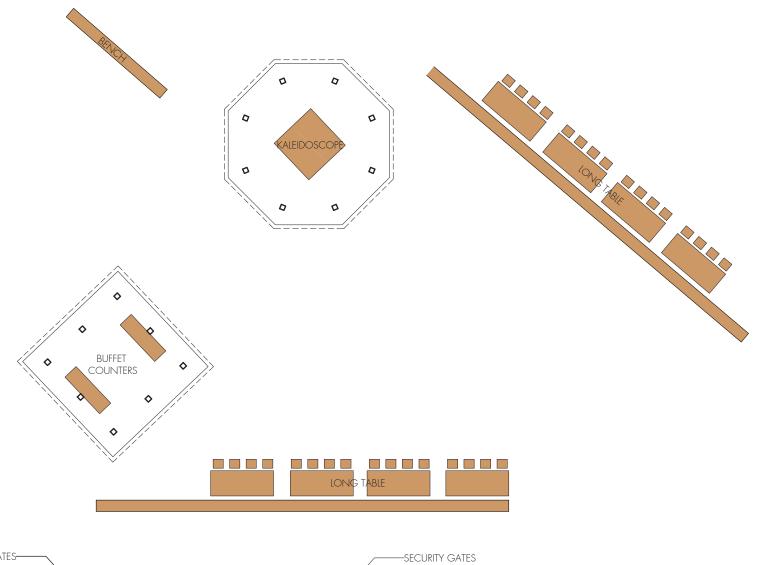
SCHEME INFRASTRUCTURE & PROGRAMING

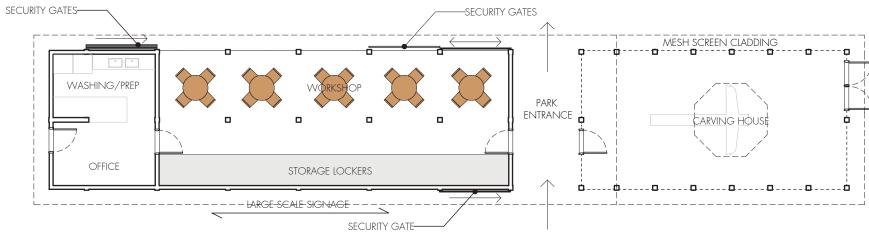






SCHEME INFRASTRUCTURE & PROGRAMING





PERSPECTIVES

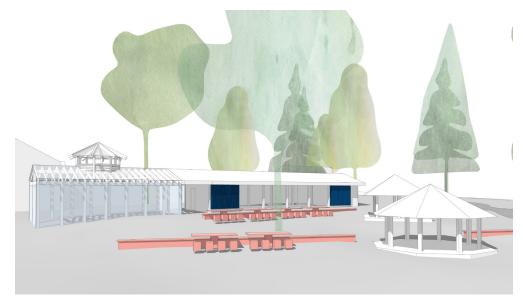
Large Scale Signage

Gabion Bench Dining Tables

Sliding Security Gates







View from NW

View from South

View from East

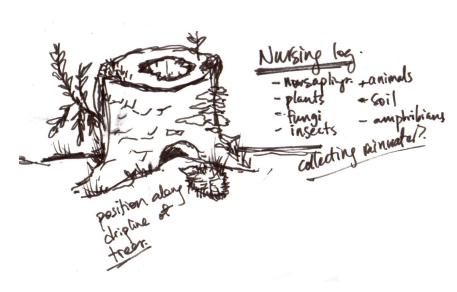


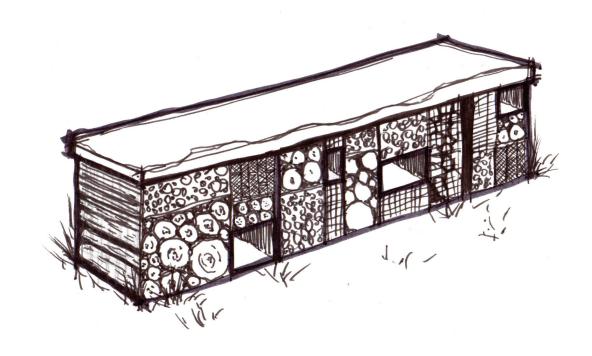
HABITAT RESTORATION

What are the descriptors of habitat?

- » Shelter and protection nest, in-ground, host/feeder, water/reeds
- » Moisture level
- Temperature
- » Food source
- » Overlook







Edge

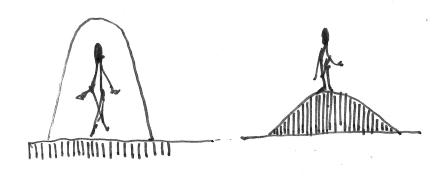
Small Host

Large & Diverse Host

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24

EXPERIENTIAL QUALITY











Within

On top of

Between

On the edge

Down low

Amplification

CREATURES



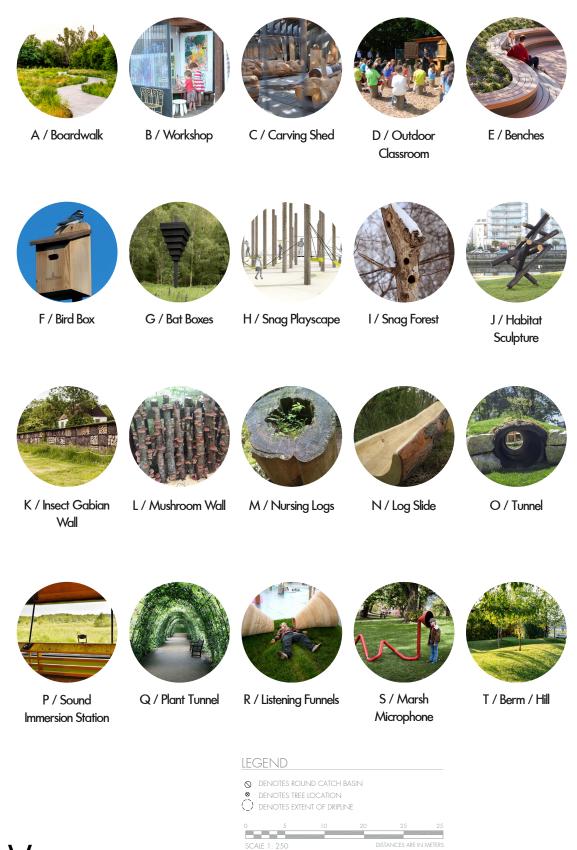
LEGEND

DENOTES ROUND CATCH BASIN
 DENOTES TREE LOCATION
 DENOTES EXTENT OF DRIPLINE





SENSORY EXPERIENCES

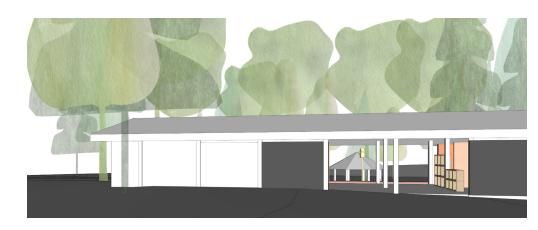




PREFERRED OPTION: HABITAT + GROW SCHEME STRUCTURES







View from parking lot

View looking south

View through cut







View of east face

View of outdoor classroom

View from wetland

IMPLEMENTATION & PHASING



IMPLEMENTATION & PHASING

SCHEME PHASING

Phase 1 Prepare for new programming - Budget \$160,000 Construction 2023

Phase 1 includes retrofit of the structures to remain on site including the long narrow building and the two gazebo structures, as well as removal of 6 huts and feeder structures that are not scheduled for reuse in the project.

Long Narrow Building

- Remove all pens, interior walls
- Remove exterior sinks
- Clean gutters reinstate rainwater leaders as required
- Structurally reinforce as required (tbd)
- Cut in new openings (2)
- Install new barn sliding doors for 2 new openings
- Insulate and heat small office / storage area
 Relocate stainless steel double sink/counter to small office (plumbing supply existing)
- Install double reach in cooler
- Install lockable storage for community group use
- Retrofit electrical to support display / workshop space
- Install exterior and interior lighting
- Provide corrugated acrylic roof to the aviary portion of the structure including the top of the cupola structure for rain protection
- Paint exterior
- Install new "Habitat" signage
- Install picnic tables / long tables for workshop / picnic use
- Build insect gabion walls

Gazebos

- Remove all fencing, rails and cage wire to leave open pole structures
- Paint

Design team required:

- Indigenous Advisor
- Architect (coordinating professional)
- Structural engineer
- Mechanical engineer
- Electrical engineer





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IMPLEMENTATION & PHASING

SCHEME PHASING

Phase 2 Re-establish Habitat – Budget \$350,000

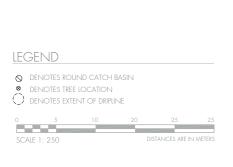
Phase 2 includes demolition of existing concrete pads and pond. Excavate and build infiltration / marsh area inclusive of boardwalk. Build berm, grade and plant to re-establish three zones of pollinator meadow, shrub/understorey and wetland.

- » Excavation and demolition of pond and concrete dependent on reasonable conditions under pond membrane
- » Build new infiltration marsh area
- » Boardwalk 100m with one bridge
- » Berm, planting and grading

*note the cost and viability of this phase will be contingent on geotechnical investigation to determine subsoil and infiltration capability

Design team required:

- » Indigenous Advisor
- » Coordinating professional
- » Geotechnical engineer
- » Landscape architect
- » Civil engineer





2022-007 - Queens Park Farm

* Budgets are high level and have been developed with a scope of work defined by MOTIV architects and reviewed by Fricia Construction Inc. Actual cost may be extremely variable - dependent on design detail, ground conditions as well as market volatility. Additional costing will be required once project parameters are defined.

IMPLEMENTATION & PHASING

SCHEME PHASING

Phase 3 Integrate edges - install narrative Budget - \$205,000

Phase 3 includes construction of the adjacent edges to include a play elements of a hill slide and snag features with additional planting along the south grass strip to establish the pollinator meadow adjacent to the parking.

- » Play elements hill slide and snag features
- » Planting and landscaping
- » Remove Chain-link add Split Rail
- » Bird, bat houses mushroom wall
- » Wayfinding and storytelling
- » Educational components, live feed screens
- » Storage
- » Remaining benches

Design team required:

- » Indigenous advisor
- » Coordinating professional
- » Landscape architect
- » Habitat storytelling curator / designer





PROGRAMMING OPPORTUNITIES



PROGRAMMING OPPORTUNITIES

FOOD AND GROWING / ECOLOGICAL

Theme - Food and Growing

| | Programming potential | Key user groups | Revenue Potential | Infrastructure required | Constraints |
|----|---|--|-------------------|--|---|
| 1 | Potlucks | community | no | | |
| | | | | Ideally supported by a warming kitchen - | |
| 2 | Long table dinners | community, community organizations that might host | yes | power, water | |
| 3 | Pizza or bread oven | community | yes | oven - wood supply or power | Special knowledge required/security |
| | | | | Ideally supported by a kitchen, power/ | |
| 4 | Canning /smoking workshops | community - school groups | no | water | |
| 5 | Drying workshops - flowers/ herbs/ fruit | community - school groups | no | hanging matrix / clothesline | |
| 6 | Edible garden / children's garden | community - school groups | no | didactic panels | |
| | Education garden - what grows where - understanding habitat - pollinator pathways - the nutrients and | | | | |
| 7 | friends of food - traditional and modern uses | community - school groups | no | didactic panels | |
| 8 | Fibre processing workshops - hemp, roots, flax | community - school groups | no | hanging matrix / clothesline - water | |
| 9 | Weaving workshops - cedar and synthetic | community - school groups | no | | |
| | Education centre re: the global and local food distribution system - a place to disseminate information on | | | | |
| | programs, access to affordable and culturally appropriate food - a community bulletin board type space | | | | |
| 10 | with active programming - potential partners - EcoDairy | community - school groups | no | didactic panels - power | |
| 11 | Community fridge | community | no | a fridge! Power and shelving | Significant volunteer effort for upkeep |
| | Education centre re: Queen's Park - connecting the different pieces (greenhouses, tree nursery, apiary club | | | | |
| 12 | - a park HUB | community | no | didactic panels - power | |

Theme - Ecological

| Programming potential | Key user groups | Revenue Potential | Infrastructure required | Constraints |
|---|---------------------------|-------------------|-----------------------------------|-------------|
| Education centre for habitat within the park - learning about creatures in their habitat rather than bringing them to a caged area. Live tracking of growth within the park - both animals and plants/trees. Live video | | | | |
| feeds of nests, etc could be with screens in situ or through mobile devices - potential partner Animal | | | | |
| 1 Sanctuary | community - school groups | | didatic panels, power, tv screens | |
| Education centre for larger ecological education - preserving habitat, understanding our local microclimate, other microclimates, human interface with nature and the impacts. Potential to connect to | | | | |
| 2 other sites in the region - partners - Scienceworld. Mapping migratory routes, pollinator pathways | community - school groups | | didatic panels, power, tv screens | |
| Water regeneration cycles - the cleansing rituals of nature - potential to use the water from the spray park | | | | |
| 3 in interesting ways? Infiltration gardens, erosion, gravity feeds, etc | community - school groups | | | |
| 4 Biodiversity workshops related to above | community - school groups | | | |
| 5 Birding workshops | community - school groups | | | |
| 6 Decomposers/soil / funghi workshops and sitings | community - school groups | | | |
| 7 Insect identifier workshops and sitings | community - school groups | | | |
| 8 Animal meet and greet - animal sanctuary | community - school groups | | | |
| 9 Urban wildlife education - coyotes, racoons, pigeons, crows, seagulls | community - school groups | | | |
| Urban scientist library - binoculars - active log of sitings - magnifying glasses, pocket mirrors, rainproof | | | | |
| 10 notepads, pens - the urban Biokit | community - school groups | | | |



PROGRAMMING OPPORTUNITIES

ARTS AND CULTURE

Theme - Art and Culture

| | Programming potential | Key user groups | Revenue Potential | Infrastructure required | Constraints |
|---|---|---------------------------|-------------------|---|-------------|
| | | | | large covered space - viewed from | |
| 1 | Carving - artist in residence and smaller scale workshops | community - school groups | | perimeter even when not active | |
| | | | | water, storage, hanging matrix or | |
| 2 | Painting workshops | community - school groups | | clothesline | |
| | | | | water, power, storage, hanging matrix or | |
| 3 | Natural fabric dying workshops | community - school groups | | clothesline | |
| | | | | power, water, storage, hanging matrix for | |
| 4 | Natural plant dye workshops - making paint from plants | community - school groups | | drying | |
| 5 | Eco art workshops leaf stamps, herbarium workshops | community - school groups | | storage | |
| | | | | | |
| 6 | Movie screenings | community - school groups | | power, roll down screen, portable projector | |

Other program opportunities with Arts & Culture, Farmer's Market and Tourism New West will be explored.

Thank you from all of us here at MOTIV Architects.

It has been a pleasure to work with the City of New Westminster, stakeholders, and broader community throughout this concept design process.

We look forward to being part of the approvals process and to moving the project forward in the future.

