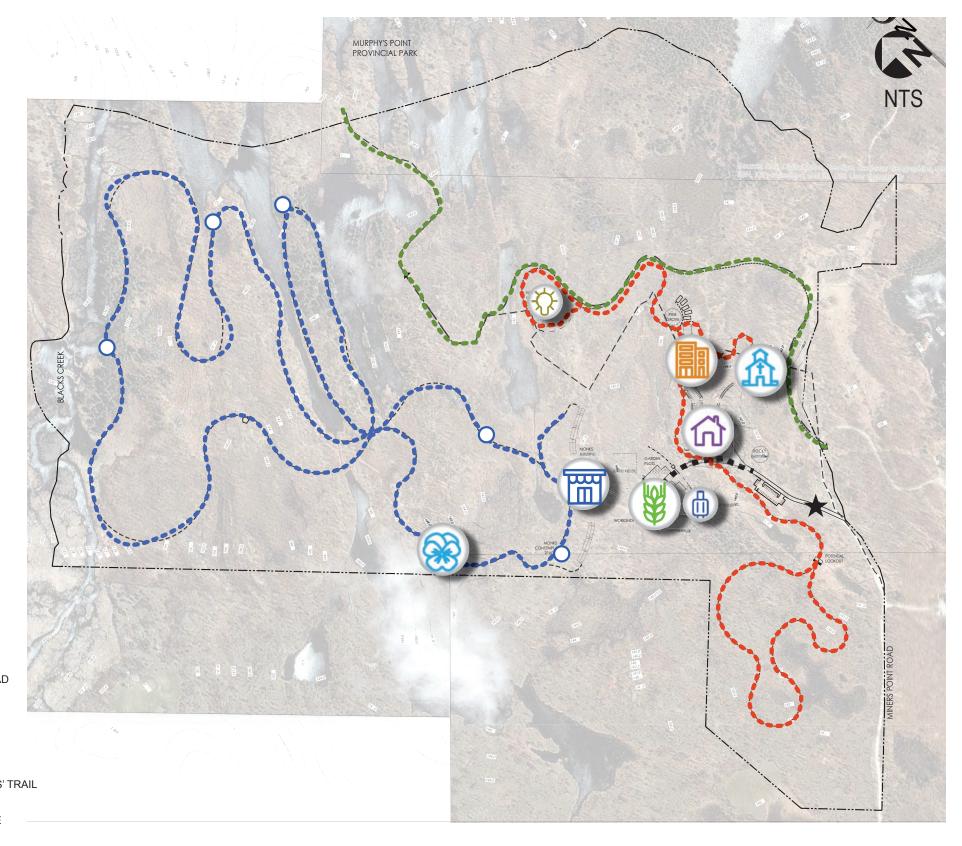
# PREFERRED **PLAN**

#### A CAMPUS

Each of the options explored presented opportunities and challenges. The exercise allowed all stakeholders to evaluate the benefits and weaknesses which led to a preferred plan which tries to balance different dynamics. There is a desire to place buildings within the landscape as best as possible, yet be located in near proximity to one another. The Monks' Building must be in a secluded location, but have good access to the rest of the sites for service and operation practices. The preferred campus plan as proposed maximizes seclusion while having direct and easy access to other major campus elements.

The landscape of the site greately informed the building designs and placement. The Monks' Building is situated at the top of a ridge to maximize views to the natural water bodies. St. Mina's Lodge and the Church rest atop ridges formed by the ancient glacial scouring. Pathways and trails provide connectivity throughout and follow existing topography to minimize the amount of disturbance required for installation. Overall the proposed campus plan develops only 6% of the whole site area, protecting and preserving as much land as possible for quiet reflection and connection to nature.



#### LEGEND



## PREFERRED PLAN

A CAMPUS



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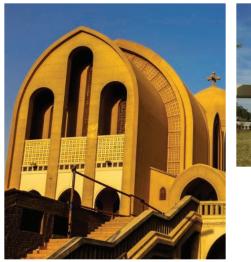
### **ARCHITECTURAL EXPRESSION & CONCEPTS**

ST. ANTHONY'S COPTIC ORTHODOX MONASTERY | MASTER PLAN

Coptic churches and monasteries throughout the world largely follow the same architectural styling of the religion dating back to 451 AD. The origin of the architecture, derived in part from Egyptian styling, tends to be simple in design, featuring barrel vaulted roofs, domes, and a tripartite apse. Modern interpretations of this styling are present in contemporary Coptic Churches around the globe.

The creation of Canada's first Coptic Monastery presents an opportunity to reinterpret these forms. Inspired by the existing structure on site, and the desire from the Monastery to complement its surroundings, the inspiration for new buildings will be a blend of old and new. Old world stylings from Coptic architecture around the world will integrate with contemporary simple design.

Inspired by the rural vernacular architecture of eastern Ontario, buildings of the monastery could take the look of contemporary barns or cabins, where buildings can express the materiality that is within the landscape, from wood interior finishes, to hewn stone exteriors. This strategy would complement the existing structure on site and also provide a distinct an innovative look to the monastery.









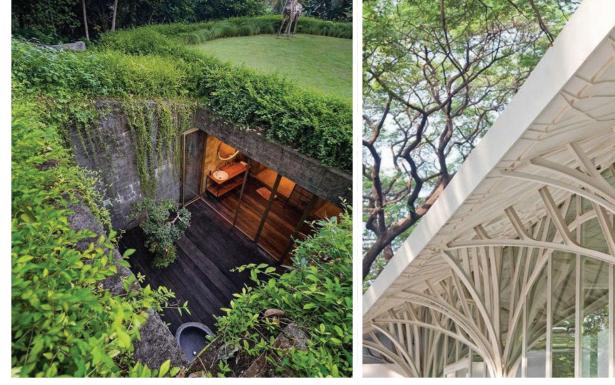


CABIN AT MURPHY'S POINT PROVINCIAL PARK









HIDDEN AND CONTEMPLATIVE SPACES

BUILDING ARCHITECTURE THAT REFLECTS NATURE



PERCHED BUILDING OVERLOOKING LANDSCAPE

CLASSIC MEETS MODERN DESIGN





When considering the outdoor spaces, from classrooms to contemplative elements, there are many considerations. Inspired by nature, structures could be designed in ways to note the point of view, to give the visitor a guidepost that this is a place to stop. To Reflect. To take a moment. This can be achieved through architectural design of the structures themselves, either in dramatic form using shape and colour. This can also be done by using natural materials to integrate into the landscape, or using living materials in innovative ways to grow a structure over time. Consideration to Coptic religious symbols, orientation, and patterns can be incorporated to further reinforce the notion of place within the landscape.



FORMAL, NATURAL LANDSCAPING



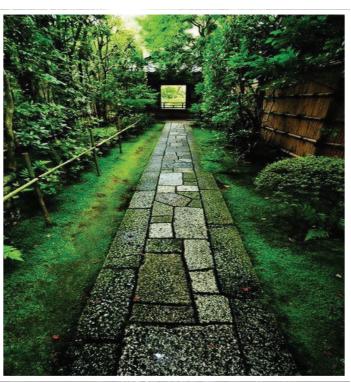
ARCHITECTURE THAT REFERENCES GLACIAL SCOURING



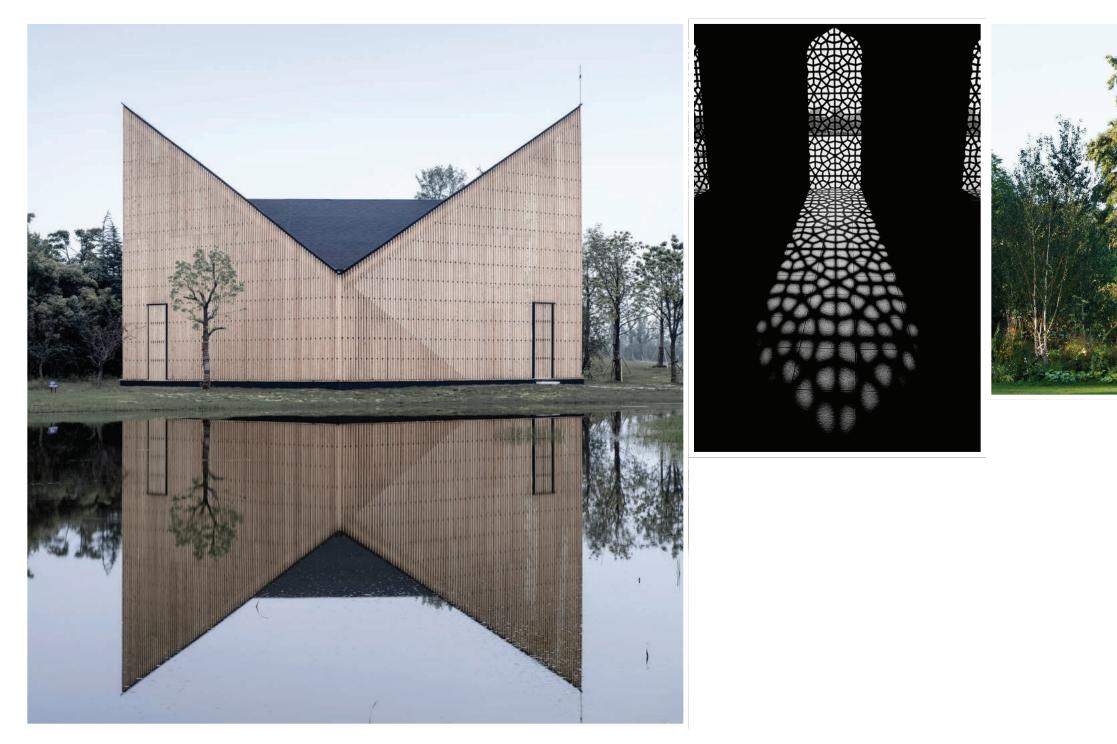
RUSTIC MODERN ARCHITECTURE



INNOVATIVE SMALL BUILDING DESIGN FOR CABINS



GARDENS

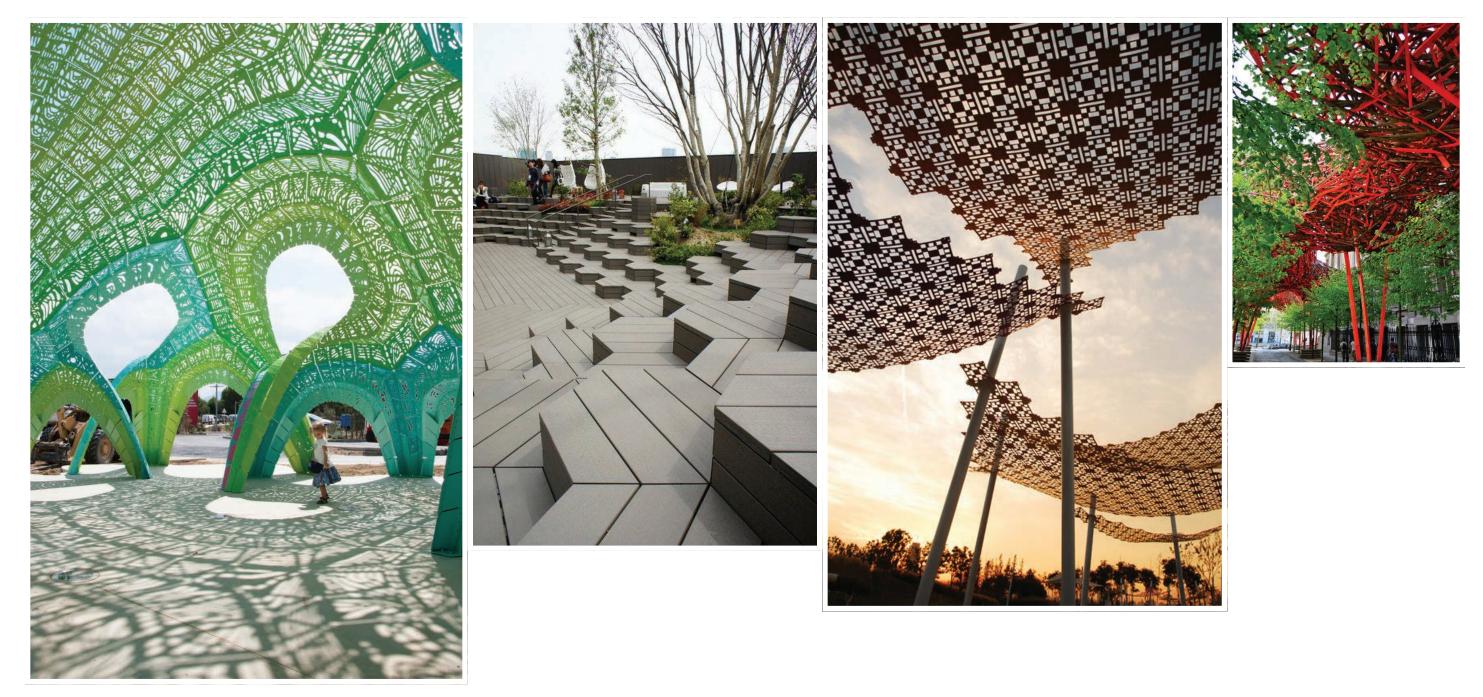












#### MONKS' BUILDING PLAN



This plan is diagrammatic, and is to be used for information purposes only. The information contained herein is subject to further site design and engineering.

NOT FOR CONSTRUCTION

LEVEL ONE: CORE FACILITIES AND AMENITIES



| MONKS' CELL | S |  |
|-------------|---|--|
|             |   |  |
|             |   |  |



#### MONKS' BUILDING ELEVATION



NORTH ELEVATION

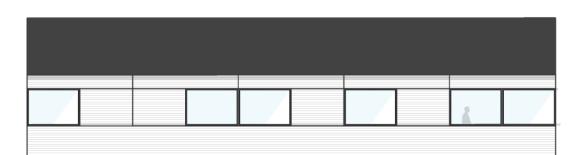
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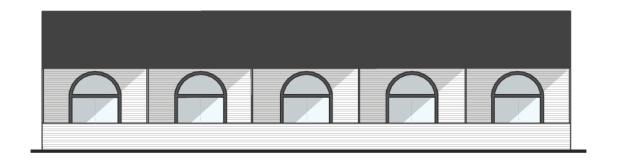


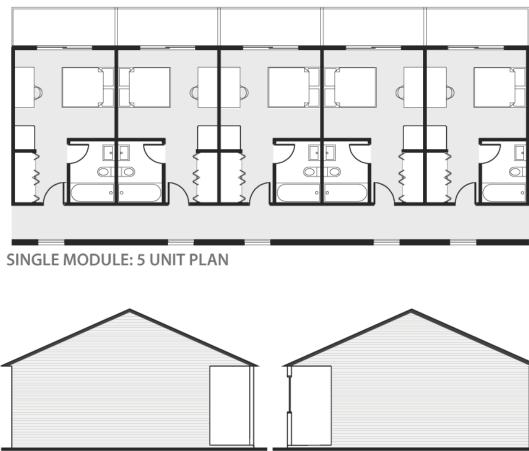
ST. ANTHONY'S COPTIC ORTHODOX MONASTERY | MASTER PLAN | 28

#### MONKS' BUILDING ELEVATION



**CIRCULATION ELEVATION** 





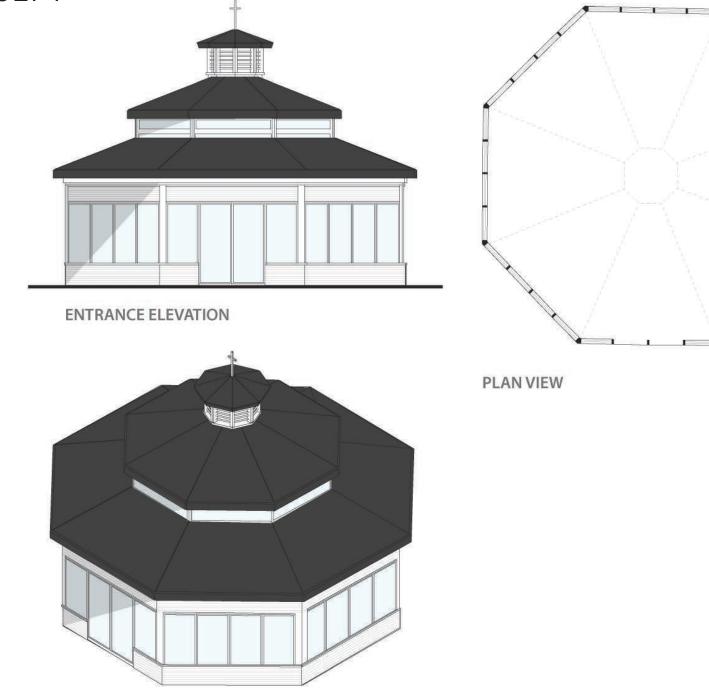
PATIO ELEVATION

SIDE ELEVATIONS

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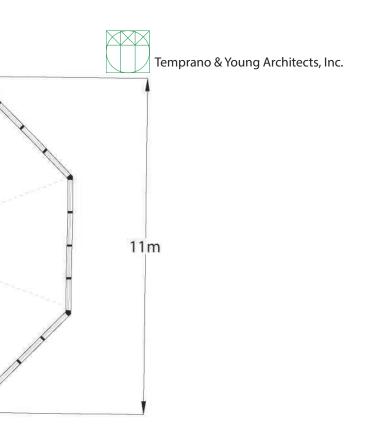


#### PRAYER PAVILLION CONCEPT

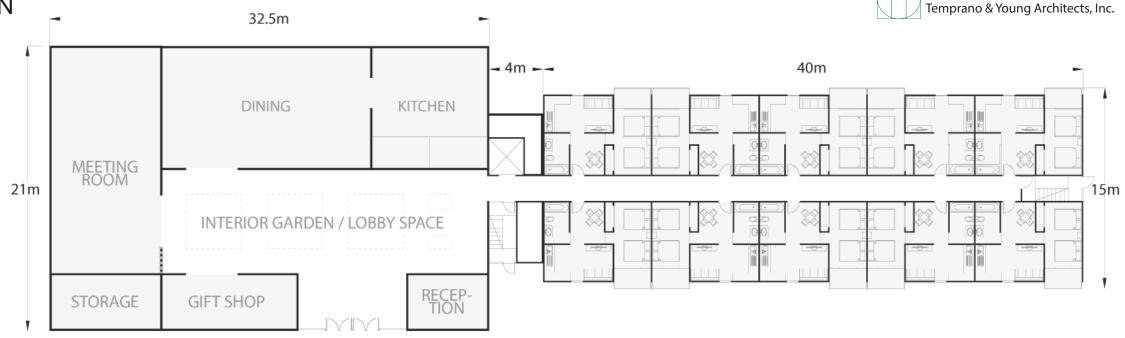


AXONOMETRIC PERSPECTIVE

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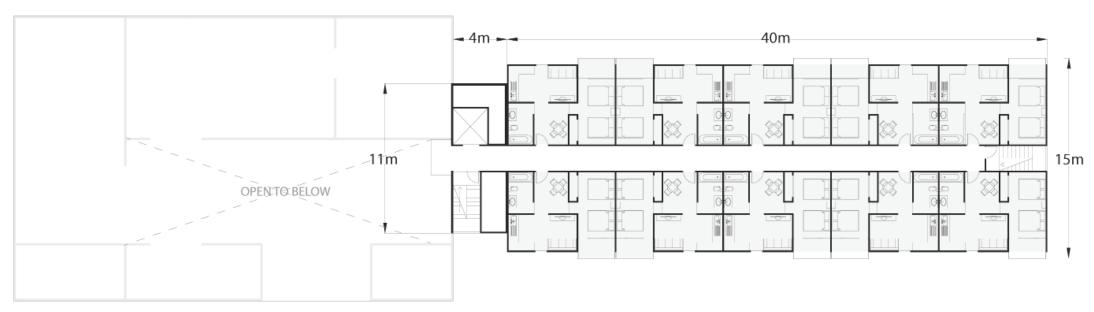


ST. MINA'S LODGE PLAN

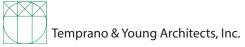


#### LEVEL ONE: LODGE AMENITIES

LEVEL TWO: ADDITIONAL ROOMS



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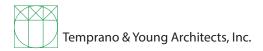


#### ST. MINA'S LODGE ELEVATIONS

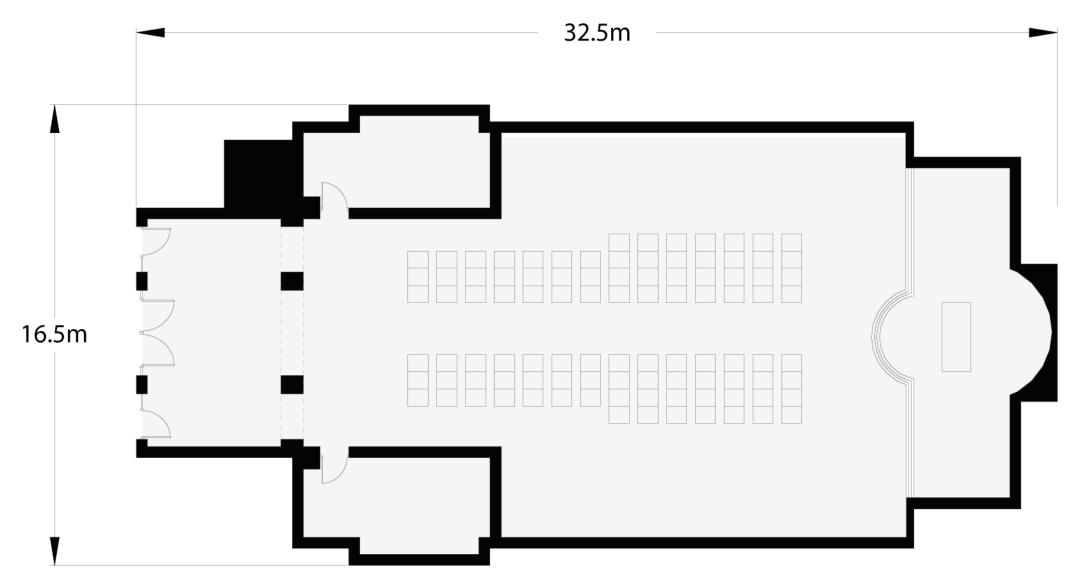




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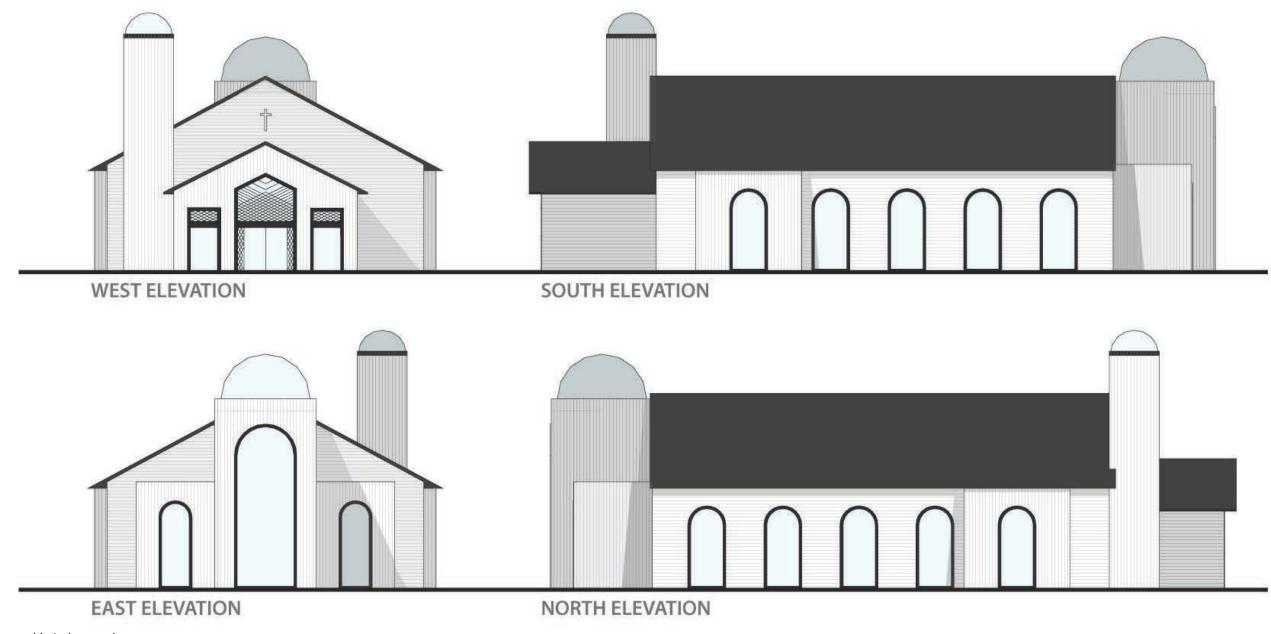
CHURCH PLAN



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#### CHURCH PLAN



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## LANDSCAPE EXPRESSION & PLANTING

ST. ANTHONY'S COPTIC ORTHODOX MONASTERY | MASTER PLAN

#### NATURE AS A GUIDE

Development that must occur on site in order to realize the full vision of the moastery should be respectful of the land once complete. 6% of the total land area of the monastery property will be disturbed for the implementation of the master plan over the next 50 years.

The landscape expression proposed in this master plan is one that restores any disturbed land back to a naturalized state that fits within the existing landscape and enhances the natural beauty. This chapter helps describe these planting areas around the monastery campus, their intended planting strategy and a detailed plant list for use during implementation of all development projects.

#### **RETREAT POND ACCESS**

As section of the Retreat Pond shoreline should be regraded to a gentler grade and established as a mown grass area to allow easy access to this open pond area. A small dock could be erected, and canoes or row boats could use the open water for recreational purposes.



#### HORTICULTURAL ENHANCEMENTS

The entrance areas for the Monks' Building and the Church are indicated to be enhanced with garden ornamental plant species. Any additional floral enhancements are proposed to consist of strategically placed masses of locally native wildflowers (Blue flag iris, brown-eyed Susan, etc.) in fine fescue meadows or bioretention areas.

#### TURF AREAS

A combination of mown lawn and fine fescue meadows has been delineated to address variable degrees of site usage and to provide a more natural transition from manicured areas to existing natural areas.





#### SHRUB AND RIPARIAN MEADOW SHORELINE STABILIZATION

The edges of the Retreat Pond are over steepened and eroding. Eroded areas should be regraded to smooth out gullies, then it should be seeded with a riparian meadow mix and covered with an erosion control blanket. Riparian shrub species, such as willow, dogwood and Meadow Sweet could be planted using plugs or live stakes to provide some overhanging vegetation.



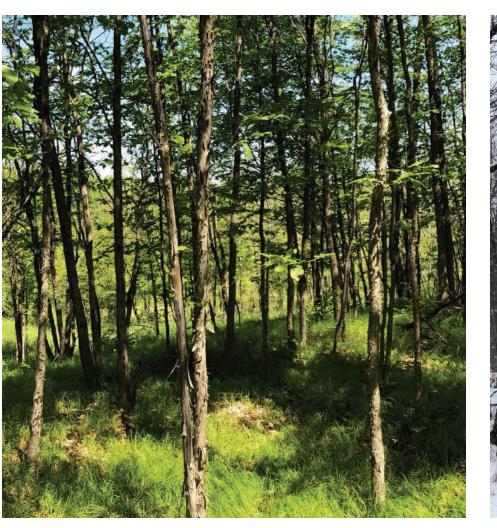
#### NATURE AS A GUIDE

#### WOODLOT MANAGEMENT

Several areas in front of the Monks' Building and in front of St. Mina's Lodge have been designated for woodlot management. This entails selection thinning of dead trees, invasive species, and fallen woody debris to provide filtered views of the adjacent wetlands. Care needs to be take to not overly thin the woodlot, because some saplings are required to ensure an ongoing forest cover.

#### FOREST CLEARING

during construction:



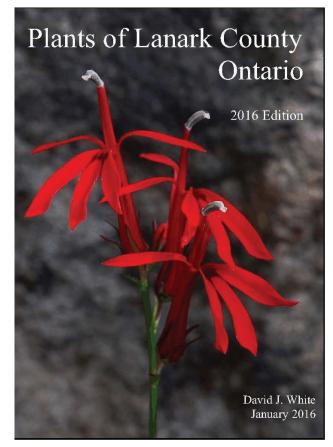
Where required, the following wood clearing principles should be adhered to

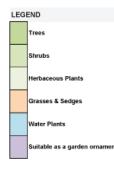
- A 10-metre offset should be used for clearing around major buildings - A 5-metre offset should be used for clearing around small buildings



#### MASTER PLANT LIST

A master plant list has been developed using a publication Plants of Lanark County (2016) to identify common, locally native trees, shrubs and vascular plants that would be appropriate for use in reforestation, slope stabilization and ornamental garden enhancements.





| Ripari | liparian Fringe (periodically inundated- extends 30-120 cm above normal water level) |   |  |  |   |   |  |
|--------|--|---|--|--|---|---|--|
|        | SCIENTIFIC   | COMMON  | TYPE   | GARDEN<br>USE7   | PREFERRED HABITAT   | DESCRIPTION   |  |
|        | Athyrium filix-femine  | Lady Fem  | Forest Edge  | Yes  | Shade or part shade   |   |  |
|        | Betula alleghaniensis  | Yellow Birch  | Forest   | No   | moist to fresh upland sites, wet organic sites, all soil<br>textures; rich, moderately shade talerant   | Hardwood, deciduous, up to 22 m. ht., wide-epreading root<br>system with some larger roots on or above surface,   |  |
|        | Comus sericee  | Red Osier Dogwood   | Shoreline Fringe   | rea  | Extended inundation; wet organic hardwood and<br>confer swamps; moist upland sites; low damp<br>ground along shores, river flats, edges of marshes, in<br>damp open woods and thickets.   | Deciduous shrub, 1-3 m. HL, bright red to purplish<br>branches, creamy-white flat-topped clusers of flowers in<br>June-July   |  |
|        | Matteuccia<br>struthiopteris   | Ostrich Fern  | Wooded   | Yes  | share maple and elm wet woods   | tsil, clark green, broad-leaved fern; grows in large fufts with<br>plume-like contral leaf; forms huge stands   |  |
|        | Viburnum lentego   | Nanyberry   | Meadow   | Yes  | wet riversheres and low thickets; readily transplanted,<br>withstand calcareous and dry soils, sum or half strad,<br>prefers well-drained, loamy soils, swamps and<br>marshes, along shores and edges of low woods and<br>thickets. | tell (5.5.5 m ht), thicket forming strub with leatheny,<br>tapered leaves, crearry flowers in early to mid-May, large<br>clusters of blacking, foul-smalling berries in tate summer   |  |
| Flood  | iplain Terrace (Infr   | equently inundated  | – from 2 year  |  | 00 year flood levels)   |   |  |
|        | SCIENTIFIC   | COMMON  | TYPE   | GARDEN<br>USE7   | PREFERRED HABITAT   | DESCRIPTION   |  |
|        | Elymus virginicus  | Virginia Wild Rye   | Neadow   | No   | along rivers and wet meadows; pioneer species,<br>rhaomatous, herbaceous, on sandy, gravely, rocky<br>sol, stabilizes sandy surfaces  | Crean to gray-grean leaves with nocking grean bristly<br>toxtails that sum tan; grow in a wide variety of soils and<br>habitats, dhen used as nuise crops for meadow mose as<br>they are quick to grow and provide cover for alswer<br>growing plants; full sun, adequate mesture, but thinly<br>drought tolerant; besutiful in diffs and groups. |  |
|        | Osmunda<br>cinnamomea  | Cinnamon Fern   | Wooded   | No   | dominant in sandy, wet ground under hardwoods;<br>muddy soil, 4-8.4 pH substrate;   | tall (1 5 m), broad-leaved, pale green fern growing in<br>robust dumps, easy to cultivate, prefers light shade  |  |
|        | Osmunda regalls Royal Fam Farast Edge Yes Shado or part s                            |   | Shade or part shade  |  |   |   |  |
|        | Physicarpus Ninebark Forest Edge Yes dry   |   | sun or part shada, withstands acid and alkaline solis,<br>dry situations, renew by outting to ground in late<br>winter | Upright-spreading shrub, rounded and donse growing to<br>1.5-3 m. ht. flat green leaves in summer turn yellow to<br>pronce in fail                     |   |   |  |
|        |  |   | moist to dny, playey to sandy upland sites; swamps,<br>streambanks   | Deciduous strub, 2-3 m, sometimes 10 m ht. spreads<br>from roots and often forms thicksts, white flowers in May-<br>June; deep red chemes in Aug-Sept. |   |   |  |
|        | Smilacina stellata   | strue stellate Palso soloman's Saal Maadow No Secondary species, intermeticas, occurs on<br>or situatel shores, good for enceon control |  | Secondary species, thizomatious, occurs on gravely<br>or alluvial shores, good for erosion control   |   |   |  |
|        | Spiraea alba   | Narrow-Leaved Meadow<br>Swoot   | Shoreline Fringe   | No   | Extended inundation, Low moist fields, sedge<br>meadows, swamps, shorelines.  | Deciduous shrub, erect, up to 1.5 m ht; white flowers in<br>June-Sept;  |  |
|        | Spiraea tomentosa  | Steeplebush   | Shoreline Fringe   | No   | marshy or rocky, usually acid solls; along edges of   | steepte-shaped shrub to 1 m. ht., with amail, dark green<br>leaves (pale below), danse spikes of pinkish-purple flower<br>st branch ends  |  |
|        | Thuja occidentalis   | Eastern White Cedar   | Flood Fringe/<br>Forest  | Yes  | wet organic sites, molst to dry, fine loamy to sandy<br>uplands; swampy areas undertain with limestone,<br>very shallow dry soils over flat limestone   | Evergreen up to 15 m. ht.; in pure stands or assocated wit<br>hardwoods, slow growing   |  |
|        | Tsuga canadensis<br>(Floodplain Terrace and<br>above)                                | Eastern Hemlock   | Forest   | No   | cool, moist alies in maple forests and shaded elopes;<br>tolerates inunciation, very sensitive to compaction,<br>requires cool moist sites, very strade tolerant (small<br>trees pensist in closed stands for decades)              | shaggy, dark green confer growing up to 30 m. ht, shaflow<br>wide-spreading root system, graceful tree, forms elande,<br>tolerates all sunshade conditions and acido soil   |  |
|        | Vitis riparia  | Frost Grape   | Wet Thickets   | No   | Full sun  | Valuable for trailing over rocks and riprap   |  |
|        |  |   |  | 1  | 1   |   |  |

| SCIENTIFIC   | COMMON               | TYPE                                       | GARDEN<br>USE? | PREFERRED HABITAT  | DESCRIPTION   |  |
|--|----------------------|--|----------------|--|---|--|
| Acer rubra (shore)ne<br>fringe and higher)                                 | Rod Maple            | Emergent,<br>Woody, pariodic<br>Inundation | Yes            | Tolerates inundation; 0.05-0.2 m. max. water<br>depth, 0-70% flooding duration.  | Medium sized tree up to 25 m. Ht, hybridizes readily<br>silver maple, bright red fail foliage; rapid growth, tole<br>acido solis  |  |
| Acer saccharinum Silver Maple  |                      | Emergent,<br>Woody, Flood<br>Fringe        | No             | 0.05-0.2 m. max. water depth, 0.70% flooding<br>duration, moist to wel hardword warmpe, level in<br>rich, moizt bottomiands bordening streams, swamps<br>and lakes, less shade tolerant than red maple   | Medium sized tree up to 35 m. ht., hybridizes readily<br>red maple, duller autumn ociour than other maples,<br>aggressive root system   |  |
| Carex rosee (also<br>shallow water bench)                                  | Stellate Sedge       |  | No             | less than 15 cm waler depth.   |   |  |
| Deschampsia<br>caespitosa (Shoreline<br>fringe and higher)                 | Tufted Hair Grass    | Garden<br>Ornamental                       | Yes            | Moist grasslands, almost entirely confined to<br>shoreline habitate, usually where flood levels cover<br>its compilately in the spring, or where high waves<br>wash their bose in summer; tolerates regular to<br>inegular inundation                      | Cool-season clump grass, pale green to purplish par<br>full sun, may become invasive  |  |
| Eupatorium<br>maculatum  | Spotted Joe Pye Weed | Moist Meadows                              | No             |  | Whorled leaves, upright form, purple-pink flowers in<br>summer-fall, full sur, moist, ferble soil, limited to slov<br>spreading   |  |
| Festuca rubra  | Red Fescue           | Hydrio Grass/<br>Shoreline Fringe          | No             | Extended inundation;   |   |  |
| <i>llex verticillete</i><br>(shoreline fringe up to<br>floodplain terrace) | Winterberty          | Garden<br>Omamental                        | Yes            | Tolerates inundation, prefers sessonally flooded<br>ariess, 0.05-0.1 m. max. water depth, less than 10-<br>30% flooding duration, most situations, swampy<br>woods and throkets, peet bogs, lowland bordering<br>swamps.                                   | Erect shrub 3-4 m. ht., bright orange to red frut Aug<br>through winter, full sun or part shade,  |  |
| Juncus fanuls<br>Available in seed form                                    | Pathway Rush         | Emergent,<br>Continuous<br>inundation      | No             | noist to dry, heavily compacted woodland and field<br>stes; 0.05-0.25 m, max, water depth, 50-103%<br>fitoding duration, dry to wet conditions, often on<br>disturbed sites; water level at or just below soil<br>surface.                                 | 10-60 cm ht., wire-ike stens, tufted, from fibrous roc<br>tolarate foot traffic but not heavy mewing, short, gree<br>clumping rush, useful for naturationg in molet solls, (<br>15-30 cm ht; tolerates foot traffic |  |
| <i>Larix laricina</i> (also<br>riparian fringe)                            | Tamarack             | Forest                                     | Yes            | wet organic to moist sandy, upland sites, with codar;<br>tolerates inundation; cold, wet, poorly drained sites   | Deciduous conter up to 21 m ht.; rapid initial growth,<br>sun, prefers stolic boggy solis, cocurs in pure stand-<br>narrow bands, excellent in groves   |  |
| Menthe arvensis  | Wild Mint            | Meaclow/ Mud<br>flats                      | No             | wet meadows, grassy rivershores; mudflats  | low, pale green, hany plant with strong minty odour;<br>clusters of liny blue flowers slong stem  |  |
| Muhlenbergia<br>mexicana   | Knot-root Grass      | Weadow                                     | No             | Ploneer, rhizornatious, occurring slong shores,<br>thickets, damp clearings, and sandy soit, wet sand  | Abundant and characteristic species of rock or grave<br>beaches washed by the higher flood waters of rivers   |  |
| Myrica gale  | Bayberry             | Shoreline Fringe/<br>Wet Thickets          | No             | Extended inundation, wet send, damp soil and<br>shallow water along shorelines; tolerates inundation   | Upright shrub 60-150 cm ht., fragrant when bruised,<br>dark gray to reddish-brown, lieswes dark green above<br>beneafft, tolerates slightly acido soits   |  |
| Onoclea sensibilis   | Sensitive Fern       | Forest<br>Understorey                      | No             | Shade  |   |  |
| Salix bebbiana   | Bebb's Willow        | Shoreline Fringe                           | No             | Extended inundation, moist to wet thickets, meadows<br>and wet organic stas, moist to wet habitats, incl<br>sedge meadows, swamps, niverbarks, altuval flats,<br>deciduous and conferous forests, slevo ni imeetone<br>faits and in sandy jack pine woods. | Coarse shrub or small tree 1 to 6 m ht, ascending<br>branchas, grayish, understory species on limestone t   |  |
| Salix discolor   | Pussy Willow         | Shoreline Fringe                           | No             | damp meadows, along shorelines, damp meadows,<br>along rivers, in alder swamps, cedar woods, wet<br>shokets and flooded ditches.   | shrub or small tree 2-6 m ht; catkins in May-June fu<br>develop before the leaves expand  |  |

#### MASTER PLANT LIST

| SCIENTIFIC   | COMMON                    | TYPE   | GARDEN<br>USE?  | PREFERRED HABITAT  | DESCRIPTION   |
|--|---------------------------|--|---|--|---|
| Alisme triviale  | Water Plantain            | Emergent   | No  | mutifiels of shallow margins; marshes, lakes,<br>streams, ditches; quickly colonizes ditches and other<br>disturbed sites  | squatic perennial, 30-100 cm ht, leafless flowering stak,<br>grows from flashy corm-like base with fibrous roots; centra<br>stak supporting cluster of bny white flowers  |
| Carex vulpinoldes<br>(also shareline fringe)<br>Available in seed form | Fox Sedge                 | Emergent   | No  | very aclaptistile, wet soile, elanding epring water,<br>seasonally flooded areas   | Wetland eedge, 50 cm ht, and spr.; brownish yellow seed<br>heads spray out to create a sturning effect in mid-summe   |
| Eleocharis acicularis  | Needle Spike Rush         | Emergent,<br>continuous<br>inundation            | No Ellar in moint manifester, more and are form are soll.   |  | Creeping warm season rush, 15-30 cm ht., fine-textured<br>soft Triwed like storms with terminal bulbous flowerheade,<br>sun or light shade.   |
| Eleocharis palustris   | Marsh Spike Rush          | Emergent,<br>continuous<br>inundation            | No  | marahes, ponds and stream banks, 0.05-0.5 m.<br>max. water depth, 50-100% flooding inundation.   |   |
| Irfs versicator (also<br>shareline fringe)<br>Available in seed form   | Blue Flag                 | Emergent,<br>continuous<br>inundetion            | Yes   | plant 5 cm below water level, regular or permanent<br>inundation up to 15 cm, or saturated aoi —— less than<br>0.05-10 m. max. water depth, 50-100% flooding<br>duration.                                  | tall, swordlike kaavas bearing blue flowers in May-June;<br>herdy, slow growth, full sum to pert strade, tolerates clay;<br>clumping, does not spread rapidly   |
| Juncus effusus (up to<br>riparian fringe)<br>Available in seed form    | Sott Rush/ Common<br>Rush | Emergent/ Moist<br>Meadows                       | torst No swamps, moist fields, tolerates inundation up to 7.5 or; less than 0.05-0.25 m, max, water docth, 30-100% flooding duration — markhes, distries, streambarks and occasionally hardwood swamps. |  | 50 cm tall, evergreen grass like; blooms July-Sept;<br>clumping and upright, airdring, green, to 120 cm H, 23,<br>tolarates both wet and dry conditions, sun or part shade  |
| Leerais oryzoides<br>(also sharaline fringe)<br>Available in seed form | Rice Cut Grass            | Emergent/<br>Shoreline Frings/<br>Hydric Grass   | No  | Extended inundation; marches, or wet meadows;<br>toterates inundation up to 7.5 cm charactenistic<br>grass of wet solls, confined to shores subject to<br>prolonged flooding, more prevalent in wet years. | 95-105 cm ht, full sun, toferates some shade, good for<br>shoreline stabilization light yellowish green, prickly<br>fotage, clinging scratching stems, forms dense targled<br>masseer, notocestie as a band stround wet depressions an<br>along eluggish streame and ponde. |
| Pontederia cordata<br>(also shoreline fringe)                          | Pickerel Weed             | Emergent,<br>Continuous<br>inundation            | No  | plant 5 cm below water level, tolerates inundation to<br>30 cm 0.1-0.25 m. max. water depth, 70-100%<br>flooding duration, less than 0.5 m deep.   | hardy marsh plant with elongated, heart-shaped leaves on<br>eturdy stems, 60-90 cm ht, blue flowers tightly clustered or<br>tall spikes, full sun to part shade, slow spreading   |
| Sagittaria latifolia (also<br>shoreline fringe)                        | Broad-leaved Arrowhead    | Emergent/ Mud<br>flats, Continuous<br>inundation | No  | dominant; shallow water; 5-30 cm below water level;<br>moist organic substrate 0.2-0.5 m. max. water<br>depth, 50-100% flooding duration.  | 20-80 cm ht, with dark green arrowhead-shaped leaves o<br>tail stake. Showy white flowers throughout summer, grows<br>from rhaomes and tubers, transplants, tubers, seeds<br>(seedbark revegetation suitable), aggressive, colonizer  |

| Uplar | pland Areas (seldom or never inundated- above 100 year floodlevel) |  |                       |                |  |   |
|-------|--|--|-----------------------|----------------|--|---|
|       | SCIENTIFIC   | COMMON   | TYPE                  | GARDEN<br>USE? | PREFERRED HABITAT  | DESCRIPTION   |
|       | Acer seccharum   | Sugar Maple  | Forest                | Yes            |  | hardwood; dominates most other trees in upland sites  |
|       | Amelanchier laevis   | Smooth Serviceberry                                      | Forest Edge           | Yes            | Clearings and thickets, along the edges of woods,<br>roadsides, in coniferous and mixed woods (Soper)  | Ereat multi-stem shrub ar small trea to 10 m. ht, flowers in<br>April-May with developing leaves, juicy, edible fruit, dark<br>reddish-purple to black in July-Aug.       |
|       | Anaphalis<br>margaritacea  | Pearly Everlasting                                       | Meadow                | Yes            | Fulleun  |   |
|       | Asarum canadense   | Wild ginger  | Forest<br>Understorey | Yes            | Shade or part shade  |   |
|       | Cornus alternifolia  | Alternate-Leaved<br>Dogwood/ Pagoda Tree/<br>Green Osler | Forests               | No             | all moisture regimes and soil textures; in thickets or<br>open woods, on hillsides and ravine slopes.  | Large shrub or small line up to 6 m. HL, creamy-white<br>flowers in large Rel-topped clusers in June, round dark blue<br>black drupos                                     |
|       | Dicentra cucullaria  | Dutchman's Breeches                                      | Forest Edge           | Yes            | Shade to part shade  |   |
|       | Dierville Ionicera   | Northern Bush<br>Honeysuckle                             | Open Areas            | Yes            | Full sun, dry, rocky conditions  |   |
|       | Dryopteris intermedia  | Evergreen Woodfern                                       | Forest                | No             | young to mature hardwood and mixed forests   | delicate woodland ferm with finely divided leaves covered<br>by dot-like fruiting bodies beneath and distinctive shaffy<br>scales on lower part of stems, grows in clumps |
|       | Fagus grandifoila  | American Beech   | Forest                | Yes            | moist to freely, sandy to loarny upland eites, moist,<br>well-drained slopes and rich bottomlands  | Hardwood decklucus, up to 25 m ht; occasionally in pure<br>stands, slow growing, very sensitive to soil compaction,<br>very shade tolerant, wide spreading root system,   |
|       | Oatrya virginiana  | Irorwood   | Forest                | No             | dry to moist, sandy to fine toarny upland sites with<br>other hardwoods; very shade tolerants (understory<br>spacios)  | Hardwood deciduous up to 15 m ht.;  |
|       | Picea giauca   | White Spruce   | Forest                | Yes            | Talerates diverse growing conditions   |   |
|       | Pinus strobus  | White Pine   | Forest                | Yes            | sandy, rocky ridges and driar knolls; dry sandy solis<br>and rocky ridges, best on moist, sandy loam, ful sun,<br>seedlings moderabily shade loterant                            | huge coniferous tree  |
|       | Populus tremuloides  | Trembling Aspen  | Forest Edges          | No             |  | Fast growing  |
|       | Prunus ponsylvanica  | Pin Cherry   | Forest Edges          |                | dry to moist, sandy to fine loarny upland sites; pine<br>and intolerant hardwood mixed stands; openings/<br>edgee  | Deciduous shrub or small tree, erect to 12 m ht.; small white flowers in flat-topped clusters May-early June  |
|       | Quercus rubra  | Red Oak  | Forest                | Yes            | dry to freeh, sandy to coarse loarny shallow upland<br>sites, very compaction tolerant, intolerant of<br>competion, intolerant of shade, moderately shade<br>tolerant when young | Hardwood deciduous, up to 24 m ht., straight trunk,   |
|       | Rhus typhina   | Staghorn Sumac   | Forest Edge           | Yes            | Full sun, tolerant of dry conditions   | Spreads by underground rhizomes   |
|       | Rudbeckis hirts  | Brown-eyed Susan   | Meaclow               | Yee            | Full sun, tolerant of dry conditions   |   |

| LEG | LEGEND                           |  |  |  |  |  |  |  |
|-----|----------------------------------|--|--|--|--|--|--|--|
|     | Trees                            |  |  |  |  |  |  |  |
|     | Shrubs                           |  |  |  |  |  |  |  |
|     | Herbaceous Plants                |  |  |  |  |  |  |  |
|     | Grasses & Sedges                 |  |  |  |  |  |  |  |
|     | Water Plants                     |  |  |  |  |  |  |  |
|     | Suitable as a garden ornamenta   |  |  |  |  |  |  |  |
|     | Grasses & Sedges<br>Water Plants |  |  |  |  |  |  |  |

| Forest Edge           | Yes | Wet organic sites and moist to dry, clayey to sandy<br>upland sites; in hardwood swamps and tolarant<br>hardwood stands. | Desick.oue shub up to 4 m. hl., whitish pyramid-shaped<br>clustars in May-June, purple-black, rounded, barry-like fruit<br>in July-Aug |
|-----------------------|-----|--|--|
| Meadow                | Yes | Full sun, tolerant of dry conditions   |  |
| Meadow                | Yes | Fulleun  |  |
| Forest<br>Understoney | No  | Shade  | Straggling, multi-stemmed shrub up to 2 m. ht, grows in<br>colonics  |
| Forest<br>Understorey | Yee | Shade to part shade  |  |
| Forest Edges          | No  | moist slopes that face north and east, very shade tolerant   | Large tree up to 38 m. ht.   |
| Forest<br>Understorey | Yes | shade  |  |
| Forest Edge           | Yes | Shade to part shade  |  |
| Forest Edge           | Yes | Shade to part shade  |  |
|                       |     |  |  |

England As

n Viela

rman Blue Violet

arella cordifolia

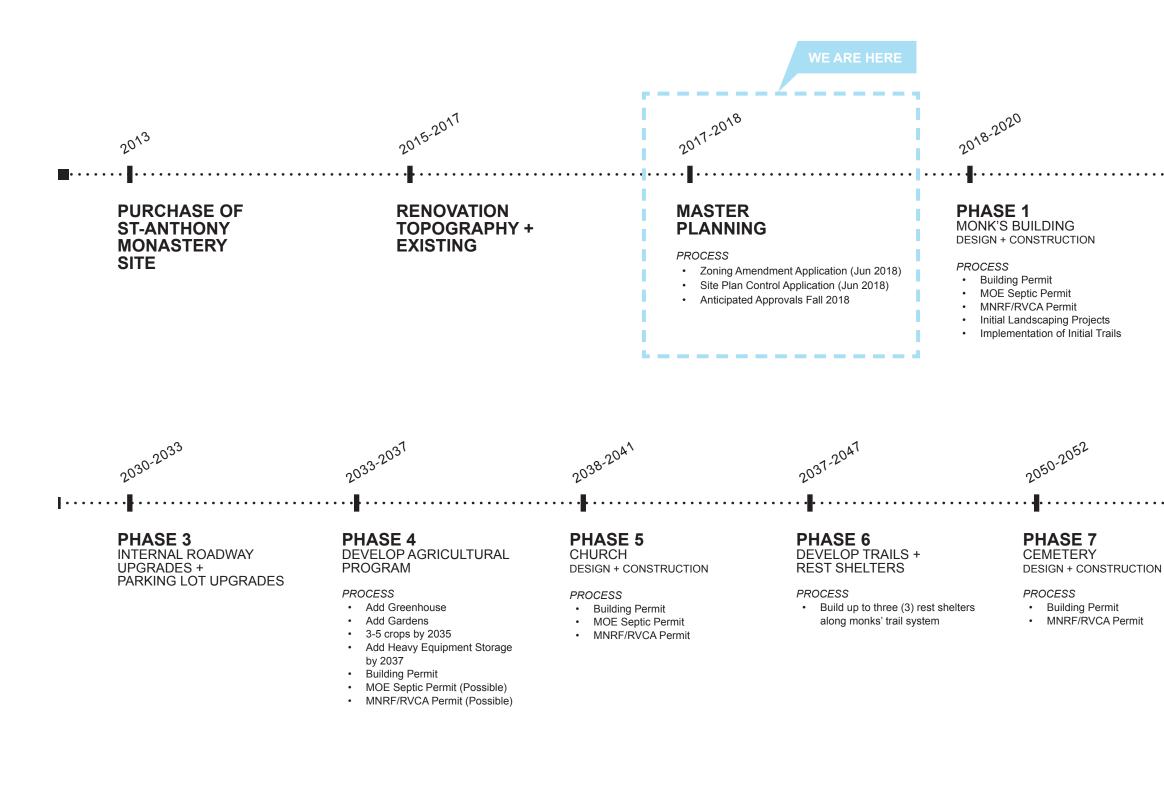
Viola labradorica

Viola sororia

## **CONSTRUCTION TIMELINE & NEXT STEPS**

ST. ANTHONY'S COPTIC ORTHODOX MONASTERY | MASTER PLAN

### TIMELINE





#### PHASE 2

ST-MINA'S LODGE DESIGN + CONSTRUCTION

#### PROCESS

- Building Permit
- MOE Septic Permit
- MNRF/RVCA Permit
- Electrical Updates

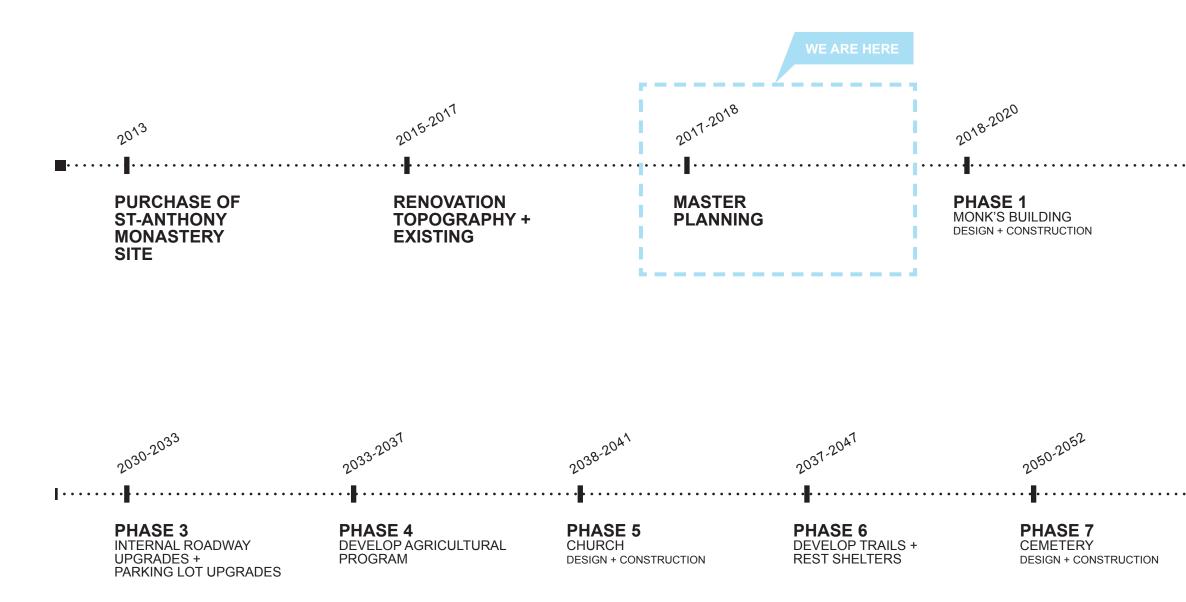


#### PHASE 8 FINAL EXPANSION OF MONKS BUILDING

PROCESS

- Building Permit
- MOE Septic Permit
- MNRF/RVCA Permit

### TIMELINE





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PHASE 2 ST-MINA'S LODGE DESIGN + CONSTRUCTION



PHASE 8 FINAL EXPANSION OF MONKS BUILDING