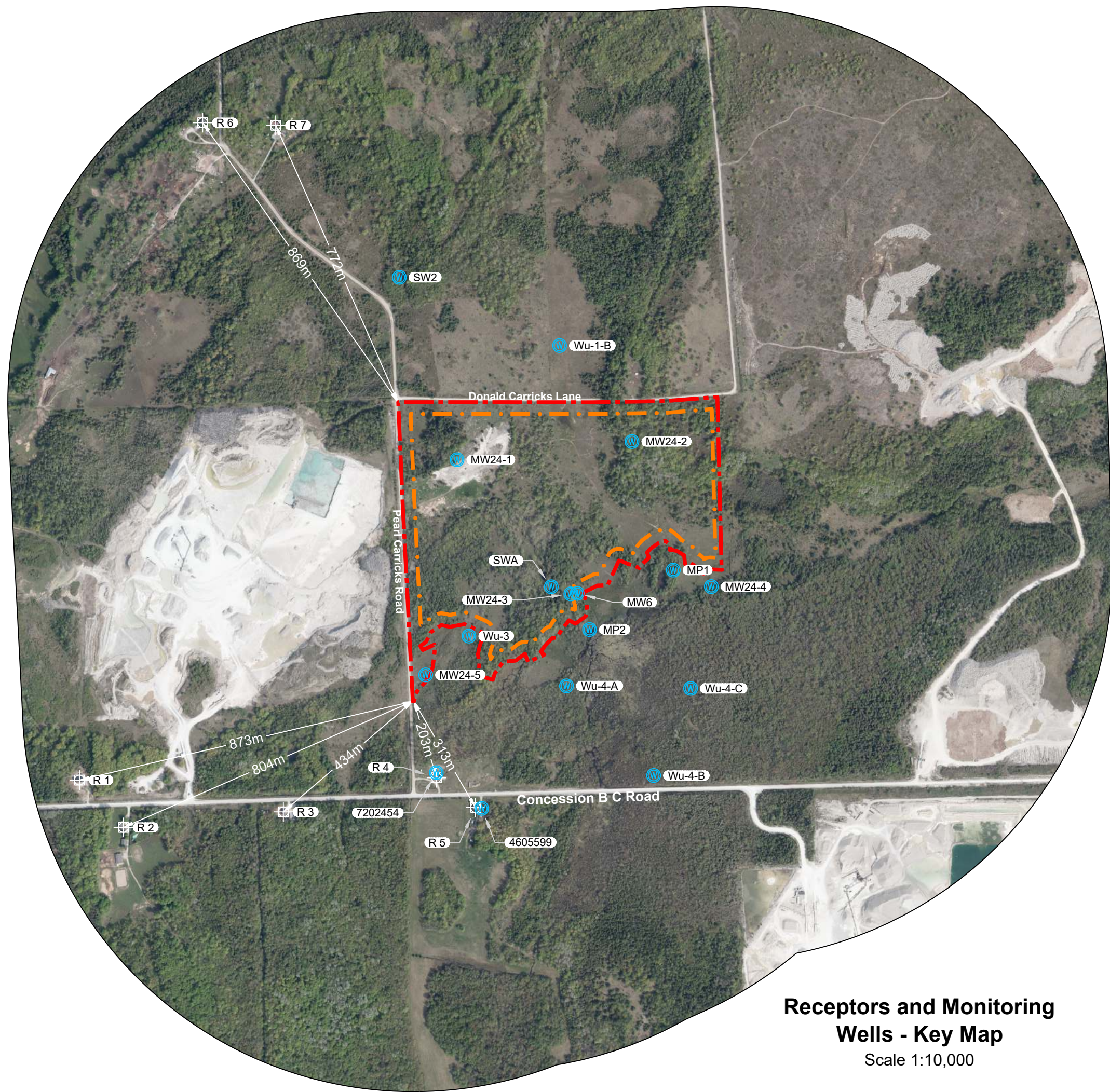
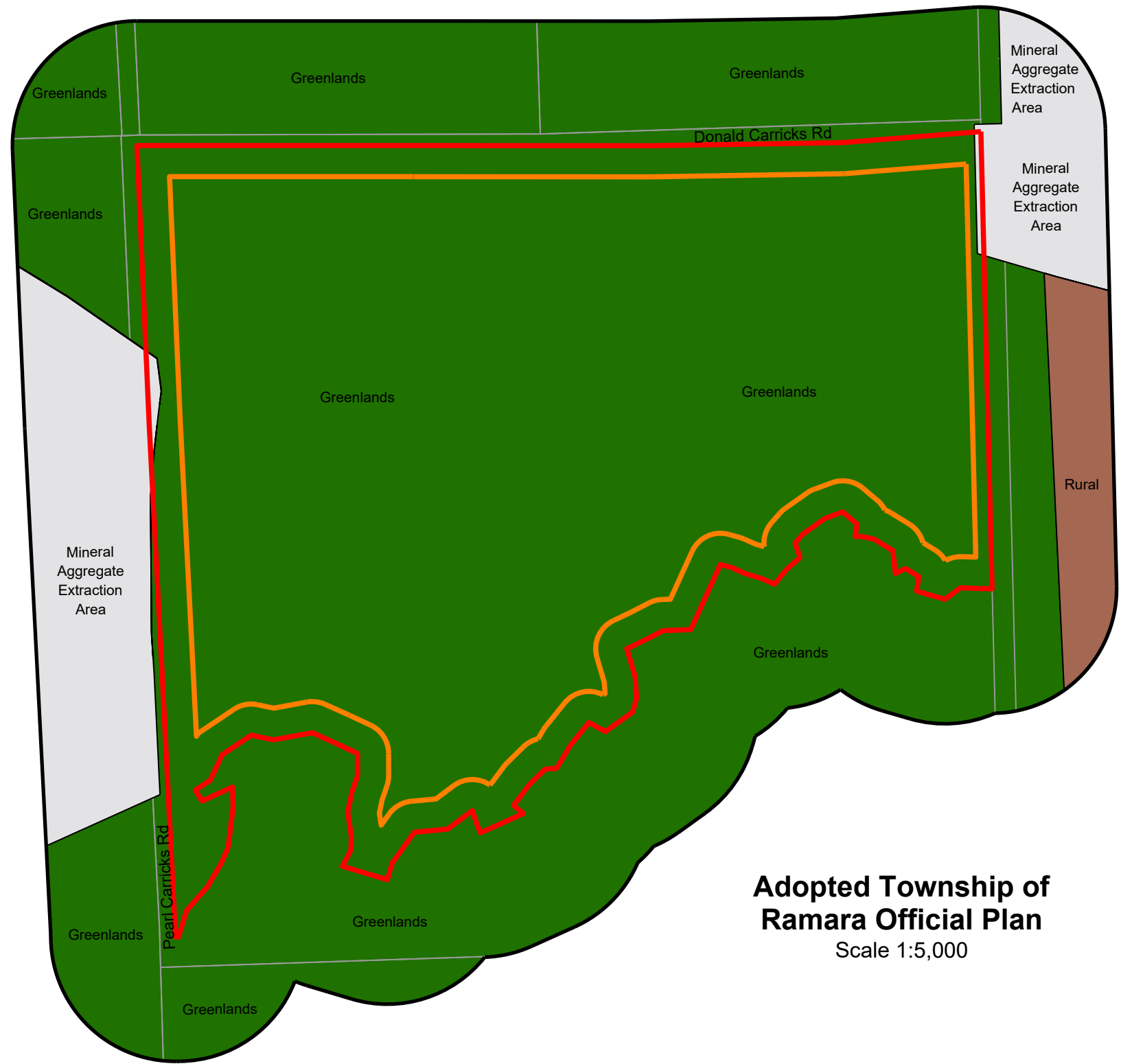
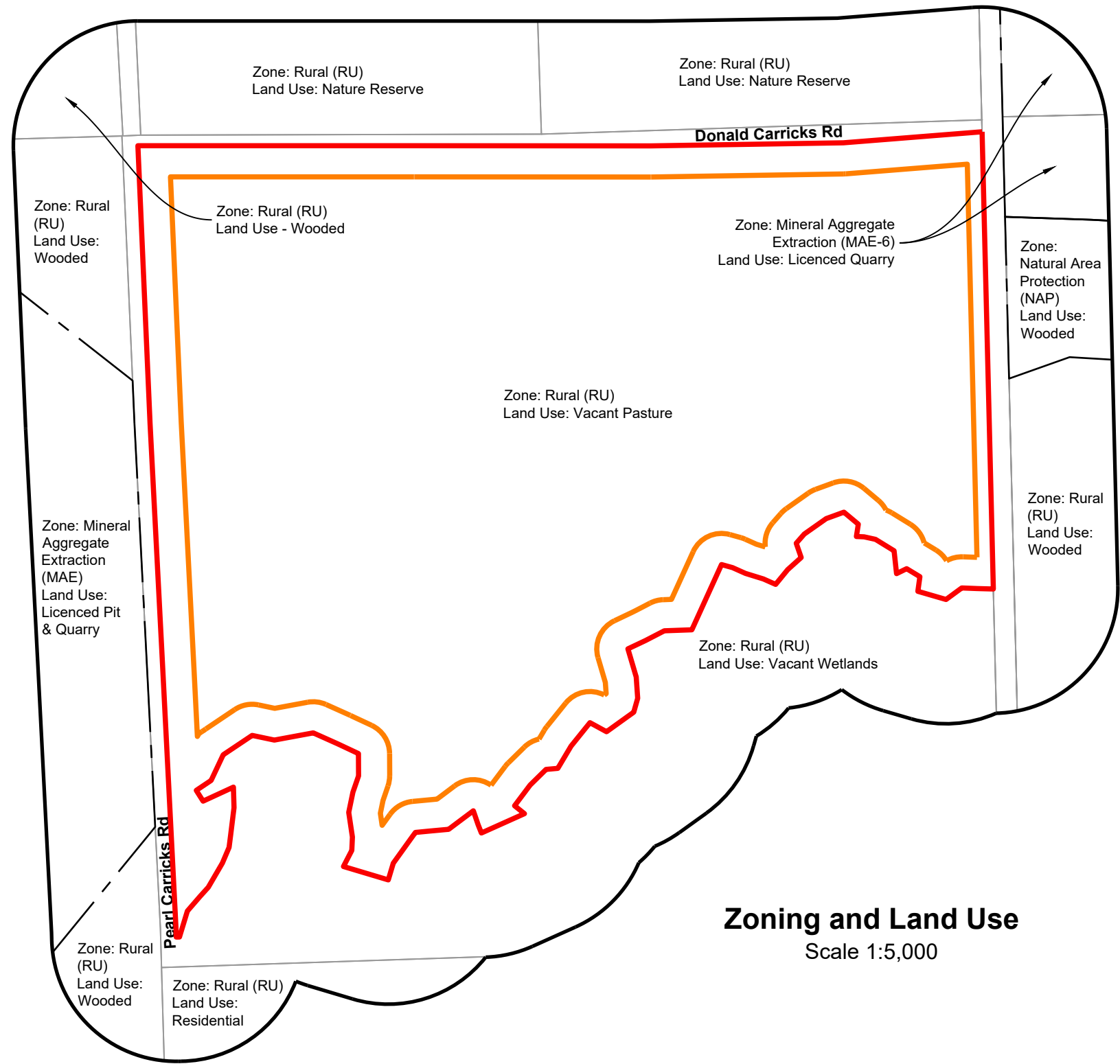




Receptors and Monitoring Wells - Key Map
Scale 1:10,000



Adopted Township of Ramara Official Plan
Scale 1:5,000



Zoning and Land Use
Scale 1:5,000

- A. General**
- This site plan is prepared under the Aggregate Resources Act (ARA) for a Class 'X' Licence for a quarry below the groundwater table.
 - Area calculations:
 - 2.1. Licence Boundary: 43.3 ha
 - 2.2. Limit of Extraction: 34.4 ha
 - Northing and wending coordinates have been provided at all major corners of the licence boundary and at the centre point of every entrance and exit that intersects the licence boundary on the plan view of this drawing.
- B. References**
- Contours were obtained from the 2022 Ontario Digital Terrain Model (available through Geospatial Ontario), which is a raster data set representing the best-estimate terrain derived from a classified point cloud, and are displayed in one metre intervals and elevations shown are in metres above sea level (masl).
 - Topographic information was obtained from numerous sources including Ontario Geospatial (Geospatial Ontario), County of Simcoe aerial photography captured in the spring of 2023 and field investigations for technical reports.
 - All topographic features and structures are shown to scale in the North American Datum 1983 - NAD83 (CSRS), Universal Mercator (UTM), Zone 17N coordinate system.
 - The licence boundary was established using parcel fabric information from the Municipal Property Assessment Corporation, as well as a field survey boundary completed by Birks Natural Heritage Consultants Inc.
 - Existing land use designations on and within 120 metres of the licence boundary (see schematic on this drawing) was obtained from the Township of Ramara Official Plan, Schedule A1 - Land Use, dated January 22, 2026.
 - Existing zoning on and within 120 metres of the licence boundary (see schematic on this drawing) was obtained from the Township of Ramara Zoning By-law 2005/05, Schedule 'A' Map 'B' as of March 2008. The licence area is currently zoned Rural (RU).
 - Land use information identified on or within 120 metres of the licence boundary (see schematic on this drawing) was determined using County of Simcoe aerial photography captured in the spring of 2023.
 - Structures identified on or within 120 metres of the licence boundary were determined using County of Simcoe aerial photography captured in the spring of 2023.
- C. Drainage**
- Surface drainage on and within 120 metres of the licence boundary is by overland flow in the directions shown by arrows on the plan view, infiltration, or captured by shallow fractured bedrock at the surface and flow within the intricate fracture network.
 - The Head River Tributary runs south to north generally through the middle of the site. The watercourse flows overland on the portion of the property outside of the licence boundary and a portion within the southern portion of the licence. The majority of the watercourse located within the licence boundary flows through underground fractures in the bedrock.
- D. Groundwater**
- The maximum predicted water table varies between 243.7 masl and 245.8 masl and is shown in each cross section on drawing 4 of 4.
- E. Site Access and Fencing**
- Post and pipe wire fencing exists along the north licence boundary (along Donald Carricks Lane) and portion of the west licence boundary (along Pearl Carricks Road), as shown on the plan view of this drawing.
 - Two field access points exist in the locations shown on the plan view of this drawing. A gate is installed at each field access point on the west licence boundary along Pearl Carricks Road.
- F. Significant Natural Features on and Within 120 Metres**
- There are evaluated non-Provincially Significant wetlands, fish habitat and Significant Woodlands within the licence boundary shown on the plan view of this drawing. Habitat for endangered and threatened species and Significant Wildlife Habitat are also shown within the licence boundary.
 - There are evaluated non-Provincially Significant wetlands, unevaluated wetlands, fish habitat and Significant Woodlands within 120 metres of the licence boundary as shown on the plan view of this drawing. Habitat for endangered and threatened species and Significant Wildlife Habitat are also within 120 metres of the licence boundary.
- G. Significant Human-Made Features on and Within 120 Metres**
- There are no buildings or structures within the licence boundary.
 - There are no buildings or structures within 120 metres of the licence boundary.
 - There are three existing quarry operations located adjacent to the site. One is located southeast of the site (Licence #106616), one is located east of the site (Licence #60042), and one is located west of the site (Licence #3051), as shown on the plan view of this drawing.
- H. Aggregate Related Site Features**
- There are no existing aggregate operations or features on-site such as processing areas with stationary or portable equipment, stockpiles, recyclable materials, scrap, fuel storage, berms or excavation faces.
- I. Cross Sections**
- Cross sections depicting existing conditions and post rehabilitation conditions are shown on drawing 4 of 4.
 - Cross section locations are identified on the plan view of each drawing.
- J. Technical Reports - References**
- Level 1 and 2 Hydrogeological Assessment, Tatham Engineering, April 10, 2026.
 - Maximum Predicted Water Table Report, Tatham Engineering, April 6, 2026.
 - Natural Environment Report, Birks Natural Heritage Consultants, Ltd., May 5, 2026.
 - Traffic Impact Report, Tatham Engineering, February 25, 2026.
 - Noise Impact Assessment, HGC, February 3, 2026.
 - Stage 1 and 2 Archaeological Assessment: Proposed Ramara Quarry, Stantec Consulting Ltd., August 14, 2025.
 - Cultural Heritage Screening Report, MHC, April 2026.
 - Blast Impact Report, Explosch, April 7, 2026.

Legal Description
Part of Lots 9 and 10, Concession C
(former geographic Township of Rama)
Township of Ramara
County of Simcoe

- Legend**
- Licence Boundary
 - Limit of Extraction
 - Contours with Elevation
Metres above sea level (MASL)
 - Public Road
 - Driveway
 - Disturbed Area
 - Fish Habitat
Permanent
(Direction of flow indicated by arrows)
 - Fish Habitat
Seasonal
(Direction of flow indicated by arrows)
 - Candidate Significant Woodland
Birks
 - Wetland
MNR - Unevaluated
 - Wetland
Birks - Unevaluated
 - Wetland
Birks - Evaluated - Other
 - Existing Licence Boundary
 - Existing Limit of Extraction
 - 120m Offset From Licence Boundary
 - Additional Land Owned by the Licensee
 - Parcel Fabric
 - Fence
1.2m post & wire fence unless otherwise noted
 - Entrance / Exit
 - Gate
 - Direction of Surface Drainage
 - Monitoring Well
MW24-2
 - Receptor
R 1
 - Cross Sections
A1

Site Plan Acronyms

- ARA - Aggregate Resources Act
- DFO - Department of Fisheries and Oceans Canada
- ECA - Environmental Compliance Approval
- MASL - Metres Above Sea Level
- MNR - Ministry of Natural Resources
- MCM - Ministry of Citizenship and Multiculturalism
- MCCS - Ministry of Government and Consumer Services
- MCCP - Ministry of Environment, Conservation and Parks
- O. Reg - Ontario Regulation
- PTTW - Permit to Take Water
- SAR - Species at Risk

Site Plan Amendments

No.	Date	Description	By

Site Plan Revisions (Pre-Licensing)

No.	Date	Description	By
1	May 2026	Update the site plan per feedback from the MNR	C.P.

No.	Date	Description	By
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**PLANNING
URBAN DESIGN
& LANDSCAPE
ARCHITECTURE**

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MHBC Stamp

Christopher Poole
Is authorized by the Ministry of
Natural Resources pursuant to
Subsection 0.2(3)(f) of Ontario
Regulation 244/07 to prepare
and certify site plans.

Christopher Poole

Applicant

Brand X Materials and Supply Inc.
15 Sargeant Drive
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Project

Ramara Quarry

6059 Pearl Carricks Road, Ramara, Ontario, L3V 0K7

MNR Licence Reference No.

Applicant's Signature

Brandon Velt

Plan Scale: 1:2000 (Arch E)



Date

May 2026

Drawn By

C.P.

File No.

21511C

Drawing Name

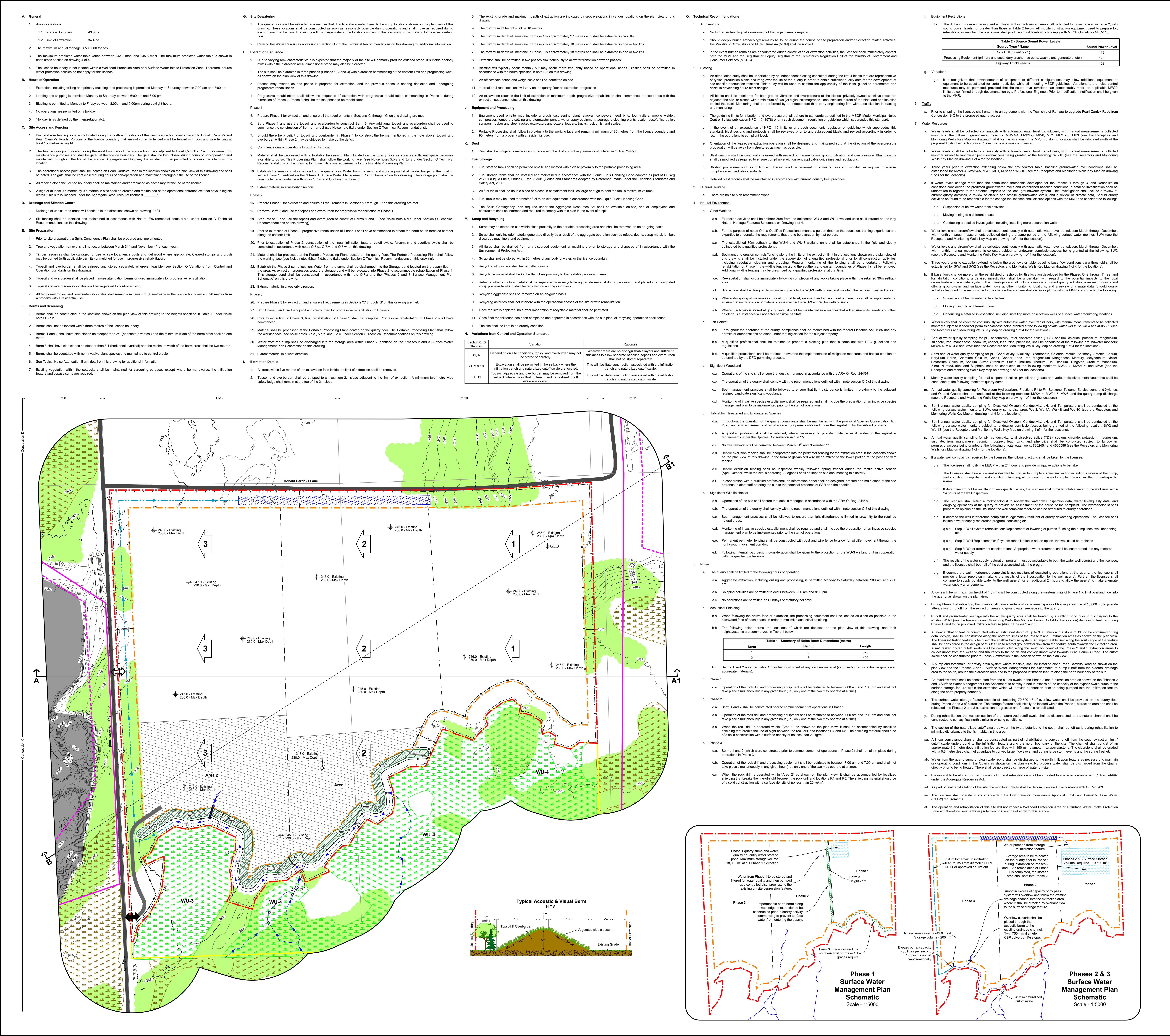
Existing Features

Drawing No.

1 of 4

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Legal Description
Part of Lots 9 and 10, Concession C (former Geographic Township of Ramara) Township of Ramara County of Simcoe

Legend

- Licence Boundary
- Limit of Extraction
- Contours with Elevation
- Public Road
- Watercourse
- Wooded Area
- Wetland
- Wetland
- Storage Pond
- Infiltration Feature
- Naturalized Cutoff Swale
- Overflow Swale
- Forcemain
- Existing Licence Boundary
- Existing Limit of Extraction
- 120m Offset From Licence Boundary
- Additional Land Owned by the Licensee
- Parcel Fabric
- Fence
- Silt Fence
- Entrance / Exit
- Gate
- Culvert
- General Direction of Excavation & Boundary
- Berm
- Spot Elevation
- Cross Sections

Site Plan Acronyms

- ARA - Aggregate Resources Act
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- MASL - Metres Above Sea Level
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- MCM - Ministry of Citizenship and Multiculturalism
- MGCS - Ministry of Government and Consumer Services
- MECOP - Ministry of Environment, Conservation and Parks
- O. Reg - Ontario Regulation
- PTTW - Permit to Take Water
- SAR - Species at Risk

Site Plan Amendments

No.	Date	Description	By

Site Plan Revisions (Pre-Licensing)

No.	Date	Description	By
1	May 2026	Update the site plan per feedback from the MNR	C.P.

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Project
Ramara Quarry
6059 Pearl Carricks Road, Ramara, Ontario, L3V 0K7

MNR Licence Reference No.
Applicant's Signature
Brandon P.

Plan Scale: 1:2000 (Arch E)
Date: May 2026
Drawn By: C.P. File No.: 21511C
Checked By: C.P./J.N.

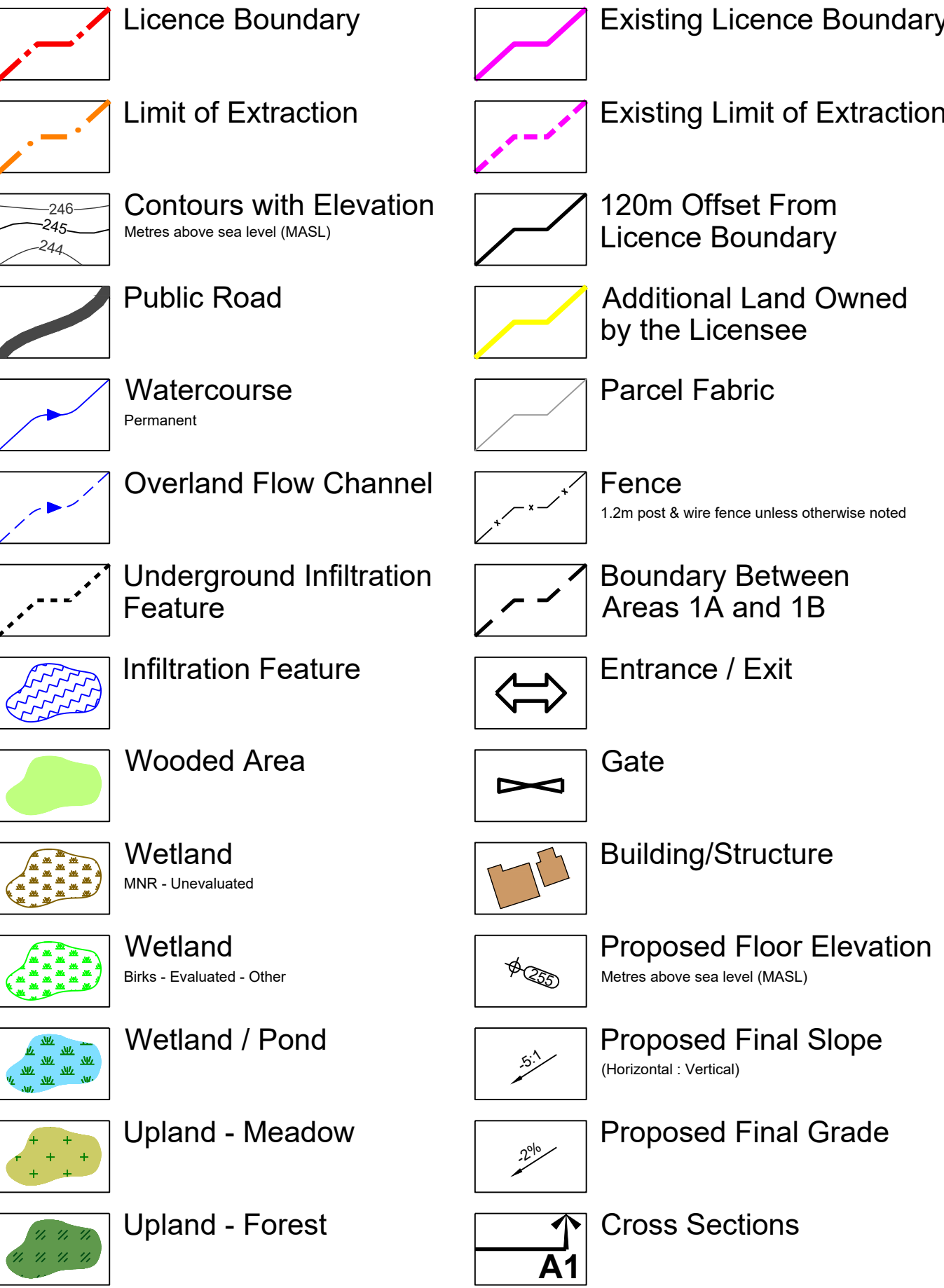
Drawing Name
Operational Plan

Drawing No.
2 of 4

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Legal Description
Part of Lots 9 and 10, Concession C
(former geographic Township of Rama)
Township of Ramara
County of Simcoe

Legend



- A. General
- Area calculations
 - Licence Boundary 43.3 ha
 - Limit of Extraction 34.4 ha
 - The maximum annual tonnage is 500,000 tonnes.
 - The maximum predicted water table varies between 243.7 masl and 245.8 masl. The maximum predicted water table is shown in each cross section on drawing 4 of 4.
- B. Phasing
- Progressive and final rehabilitation shall be completed in direct correlation to the development of the site as the maximum extraction limits and depths are reached and enough area is available to ensure rehabilitation activities will not interfere with the production, processing, and processing of aggregate material.
 - Progressive rehabilitation shall follow the general direction and sequence of extraction identified on the plan view and described in Section H on drawing 2 of 4.
 - Rehabilitation of Phase 3 shall be the final phase to be rehabilitated as it will be the final phase to be extracted.
- C. Slopes, Grading and Drainage
- Progressive rehabilitation shall consist of backfilling the limit of extraction to the elevations, slopes and grades depicted on the plan view of this drawing.
 - Final rehabilitation shall consist of the creation of the woodland, wetland and meadow features shown on the plan view of this drawing.
 - The site shall be graded so that final surface drainage will follow the rehabilitated contours and directional arrows shown on the plan view of this drawing. The final rehabilitated landform shall slope to the middle of the site to provide passive drainage to the created wetland features.
 - Excess soil, as defined in O. Reg. 244/97 (as amended from time to time) may be imported to this site to facilitate the following rehabilitation:
 - To establish the final elevations, slopes and grades depicted on the plan view of this drawing.
 - Top dressing to establish vegetation.
 - Liquid soil, as defined in O. Reg. 406/10 (as amended from time to time) under the Environmental Protection Act, is not authorized for importation to the site.
 - The quality of excess soil imported to the site for final placement must be equivalent to or more stringent than the applicable excess soil quality standards as determined in accordance with O. Reg. 244/97 (as amended from time to time) and must be consistent with the site conditions and the end use identified in the approved rehabilitation plan.
 - Where a qualified person is retained or required to be retained in accordance with O. Reg. 244/97 (as amended from time to time), the quality, storage, and final placement of excess soils shall be done according to the advice of the qualified person.
 - Excess soil imported to facilitate rehabilitation as described on this site plan shall be undertaken in accordance with O. Reg. 244/97 under the Aggregate Resources Act (as amended from time to time).
 - The cumulative total amount of excess soil that may be imported to this site for rehabilitation purposes is 6,570,000 m³.
- D. Natural Environment
- The following notes are a continuation of the Natural Environment Technical Recommendations noted under Section O on drawing 2 of 4.
- E. Technical Recommendations
- Phasing and fill:
 - The infilling of extracted lands shall prioritize the maintenance of a north-south movement corridor throughout all phases. The final grades are shown on the plan view of this drawing.
 - The quarry is intended to be utilized through the importation of excess soils to the extraction area (34.4 ha). Importation is required to comply with the ARA O. Reg. 406-19 On-site and Excess Soil Management. This includes the requirement that a description will be included on the site plan indicating whether soil, topsoil or fill material is to be imported for the purpose of rehabilitation.
 - Specifically related to natural heritage matters, the Best Management Practices for Aggregate Pit and Quarry Rehabilitation in Ontario (OSPE, 2021) shall be incorporated to mitigate / avoid impacts from invasive species.
 - Rehabilitation:
 - For each phase, a rehabilitation plan specific to each created feature shall be completed that details the rehabilitation measures required. This shall be completed by a qualified professional with experience undertaking complex ecological restoration projects and shall incorporate the recommendations provided in section O.4 on drawing 2 of 4 and section E on this drawing.
 - Once the extracted area has been filled to reach the final landform elevations within Phase 1, vegetation communities shall be established in accordance with the plan view of this drawing.
 - Rehabilitation shall occur in an East-West direction following extraction and shall provide forest, meadow, and wetland habitats.
 - Area 1A - Forest Corridor:**
 - A minimum area of 5 ha shall be rehabilitated with forest habitat for the 1A - Forest Corridor and shall include the upland tree species native to ecoregion EE-9.
 - Rehabilitation of the 1A - Forest Corridor, a 120m forest strip, shall commence prior to the beginning of extraction of Phase 2 to maintain a North-South wildlife movement corridor. Plantings shall be completed in its entirety.
 - Trees shall not be placed in rows but instead shall be planted in a more natural density with a spacing of 4m x 4m. This can be managed through the incorporation of open woodland canopy conditions by planting in areas at lower density (i.e., 10m/10m spacing for trees) within portions of the woodland planting area.
 - Area 1B - Remaining Forest:**
 - A minimum area of 13.6 ha shall be rehabilitated with forest habitat and shall include the upland tree species native to ecoregion EE-9.
 - Trees shall not be placed in rows but instead shall be incorporated in a more natural density with a spacing of 4m x 4m. This can be managed through the incorporation of open woodland canopy conditions by planting in areas at lower density (i.e., 10m/10m spacing for trees) within portions of the woodland planting area.
 - Area 2 - Meadow:**
 - The remainder of the site (12.5 ha) shall be rehabilitated with meadow habitat and shall include suitable upland native seed mix with species native to ecoregion EE-9 and installed at a minimum density of 20kg/ha or otherwise directed by the selected seed mix.
 - Area 3 - Wetland:**
 - A minimum area of 3.2 ha shall be rehabilitated with wetland habitat. Plantings shall occur along the wetland edge areas with shrub species and seed mix native to ecoregion EE-9.
 - A wetland seed mix with native species shall be utilized and installed at a minimum density of 25kg/ha or otherwise directed by the selected seed mix.
 - A maximum depth of 3m of the wetland feature shall be established, while also creating a "hill-and-mound" microtopography throughout. Key depth considerations within the created wetland feature shall be as follows:
 - Shallow areas: 0 to 0.5m
 - Deep Areas: 0.5 to 1.5m
 - Deep Pocket: 2 to 3m
 - The wetland substrate shall contain varying soil permeability:
 - Fill soil in this area shall ensure that subsurface soils are low permeability to ensure water retention within the wetland pocket.
 - Imported surface soils shall be rich in organic matter, preferably a good quality loam that also has a rich microbial diversity.
 - Soil containing seed stock from the WU-1 and WU-2 wetland units shall be incorporated into the wetland rehabilitation.
 - General rehabilitation notes:
 - Rehabilitation shall incorporate other habitat enhancement measures, including the construction of reptic hibiscusium (1A - Forest), placement of stumps (2 - Meadow), construction of turtle basking logs (2 - Wetland), and native grasses and ferns for Eastern Whip-poor-will (2 - Meadow), and artificial bat roosting structures (Forest - 1A & 1B).
 - Soil substrate shall contain a high organic matter and moderate water holding capacity.
 - Adequate site preparation shall be undertaken in order to ensure a successful establishment of planted species.
 - Seed mix and species selection shall be determined based on moisture content of the soil and approved by a qualified professional.
 - Transplanting of salvaged trees, shrubs and herbaceous material within other phases shall be considered in order to provide a source of more mature species.
 - Varying topography within restored woodlands, including "hill-and-mound" to promote water infiltration and vernal pooling shall be incorporated in restoration plans.
 - Seedbank from existing landscape shall be incorporated through the movement of topsoil from the phase being cleared for extraction at the time of habitat creation. For Phase 1 this would be soil from Phase 2 during site preparation stages.
 - The created wetland feature shall maintain a hydrological connection to the retained WU-4 wetland.
 - For all habitat restoration activities, vegetation shall be monitored following an established regular schedule to determine if invasive species are becoming established so that corrective action may be taken.
 - A survival rate of 80% of the original number of planted stems is the target after two years for each planting area.
 - Creation of drainage channels in the original locations shall be reviewed by DFO to ensure that decommissioning of the created features considers the ongoing protection of fish and fish habitat. Natural design principles shall be applied to the reconstruction of the drainage channels and shall consider the habitat requirements of the local fish community at the time that reinstatement of the drainage features is contemplated.

FINAL REHABILITATION

- F. General
- All equipment shall be removed from the site.
 - No buildings, structures or haul roads shall remain.
 - The anticipated final end-use will be a meadow and shrubland, wetland and pond, and a forest.

Site Plan Acronyms

- ARA - Aggregate Resources Act
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- ECA - Environmental Compliance Approval
- MASL - Meters Above Sea Level
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- PTTW - Permit to Take Water
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Site Plan Amendments

No.	Date	Description	By

Site Plan Revisions (Pre-Licensing)

No.	Date	Description	By
1	May 2026	Update the site plan per feedback from the MNR	C.P.

No.	Date	Description	By
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Project

Ramara Quarry

6059 Pearl Carricks Road, Ramara, Ontario, L3V 0K7

MNR Licence Reference No.

Applicant's Signature

Brandon Velt

Plan Scale: 1:2000 (Arch E)

Date

May 2026

Drawn By

C.P.

File No.

21511C

Drawing Name

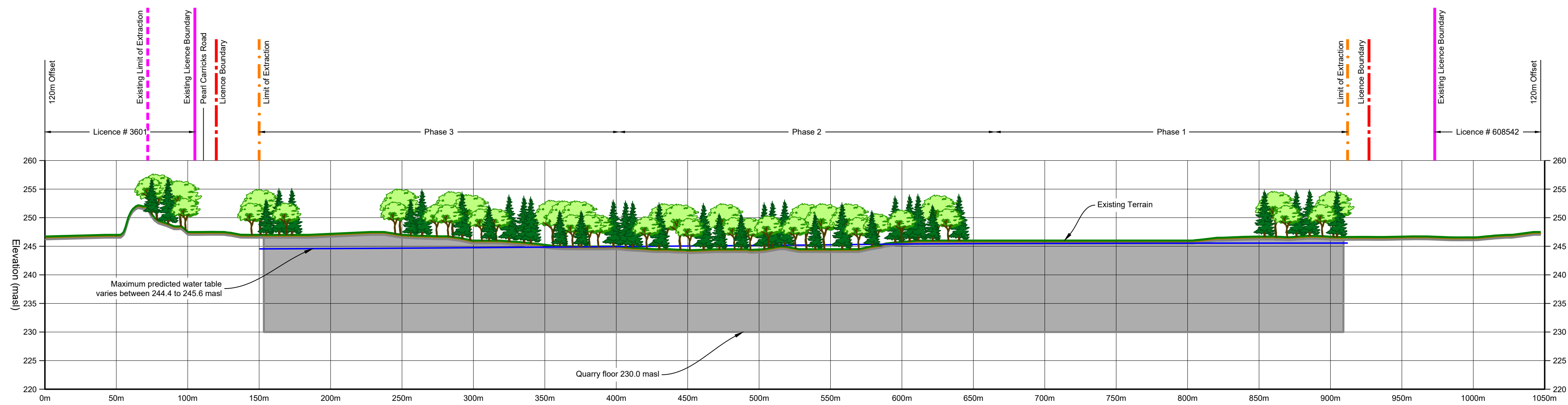
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Drawing No.

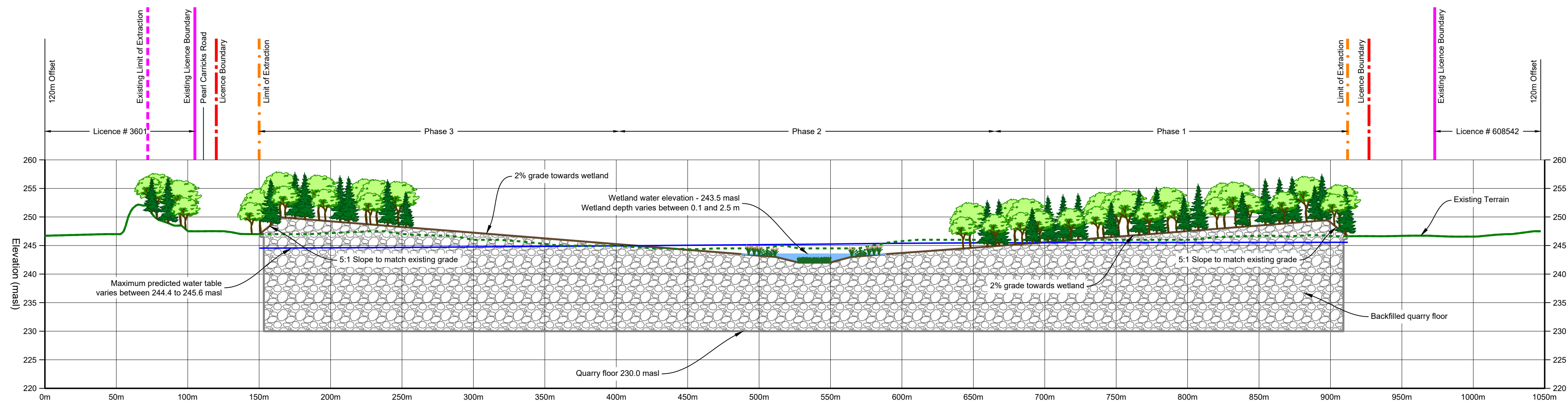
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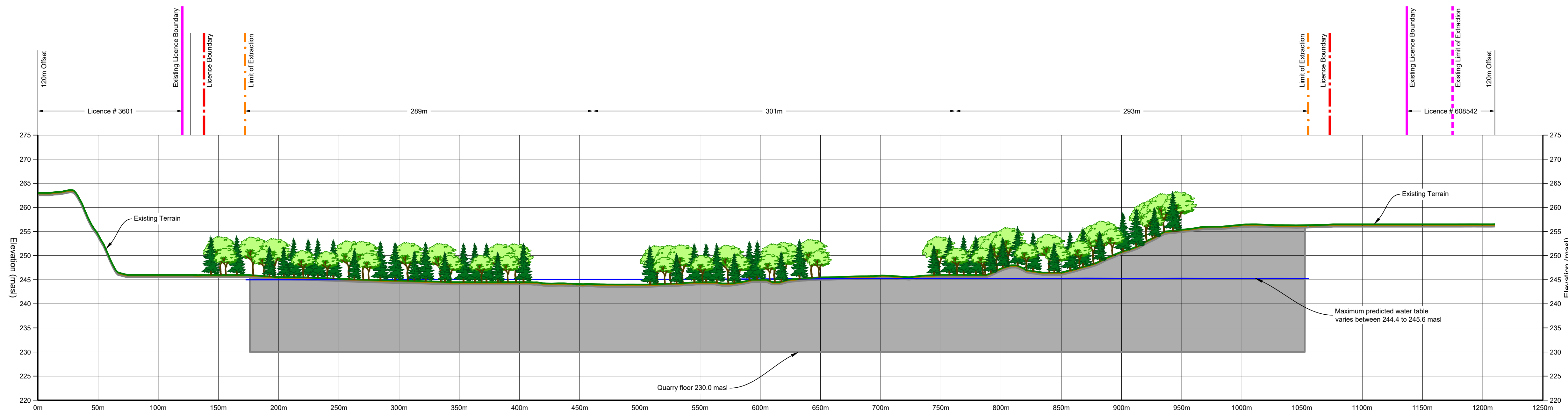
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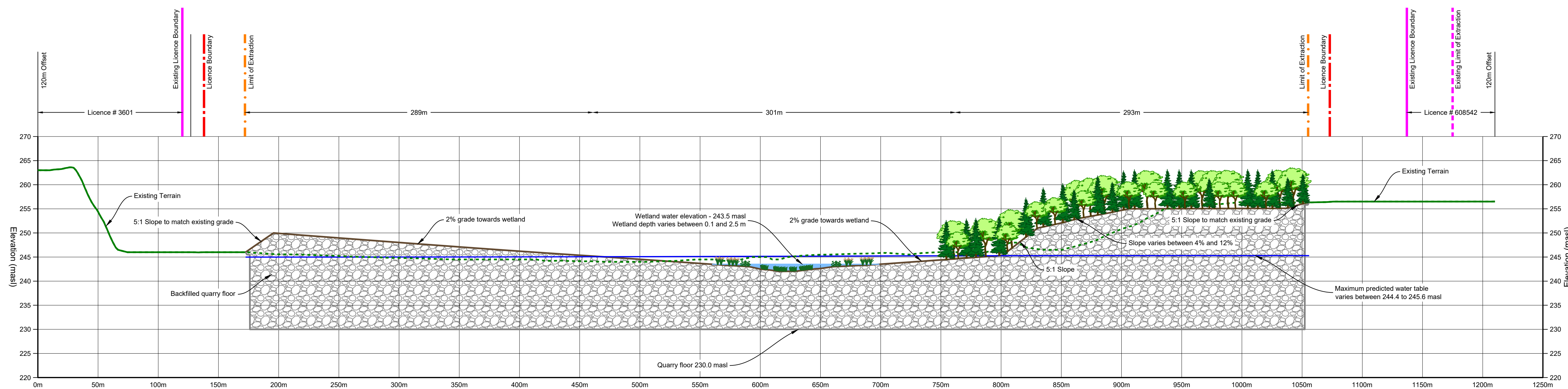
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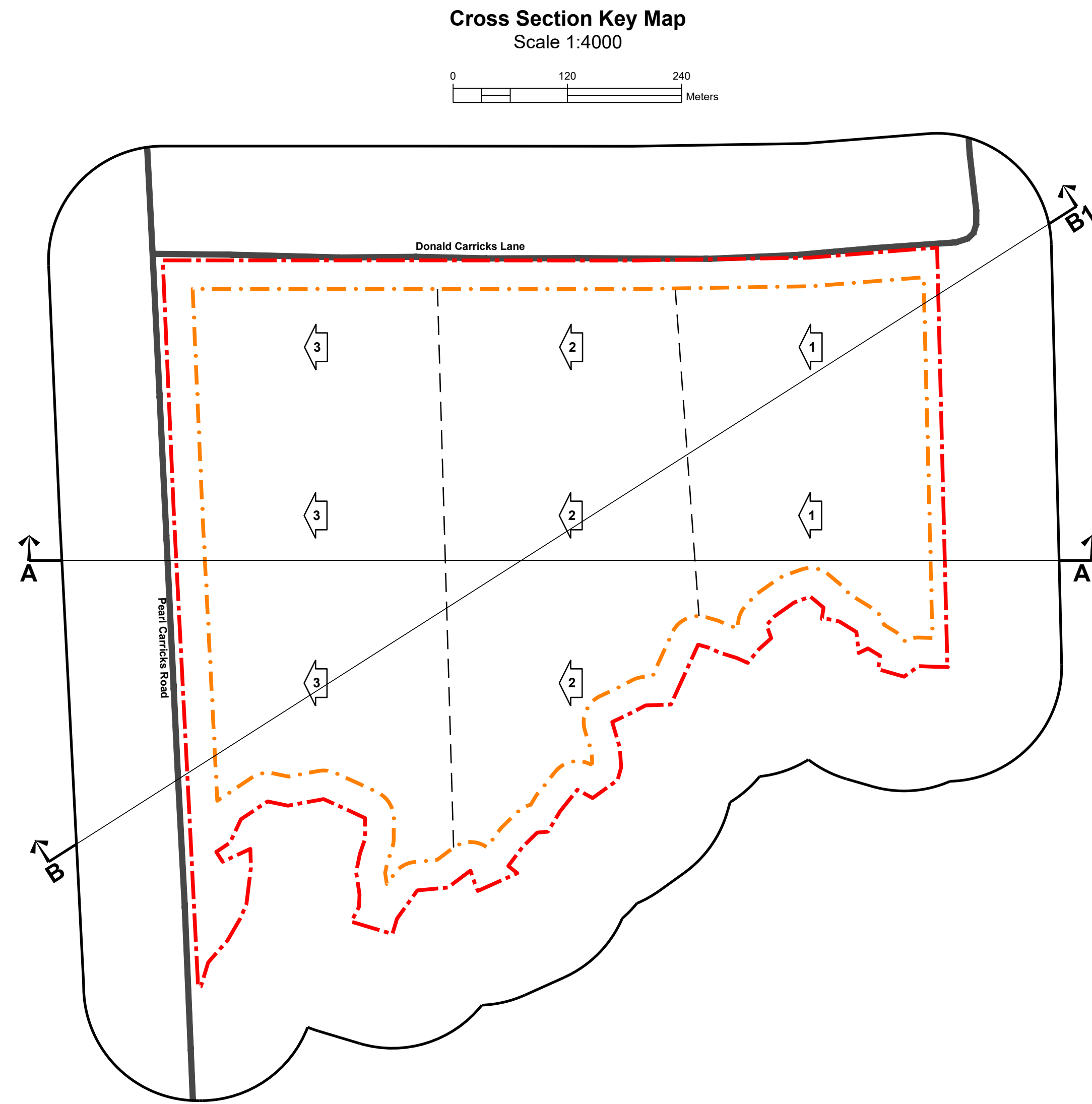
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Vertical - 1:500



Section B-B1 - Rehabilitation
Horizontal - 1:2000
Vertical - 1:500



Legal Description
Part of Lots 9 and 10, Concession C
(former geographic Township of Rama)
Township of Ramara
County of Simcoe

- Legend**
- Licence Boundary
 - Limit of Extraction
 - Existing Licence Boundary
 - Existing Limit of Extraction
 - Existing Grade - Removed / Altered
 - Existing Grade - Undisturbed
 - Maximum Predicted Water Table
 - Quarry Floor / Face
 - Topsoil and/or Overburden
 - Aggregate Available for Extraction
 - Backfilled
 - Lake or Pond

Site Plan Amendments			
No.	Date	Description	By

Site Plan Revisions (Pre-Licensing)			
No.	Date	Description	By
1	May 2026	Update the site plan per feedback from the MNR	C.P.

MHBC PLANNING URBAN DESIGN & LANDSCAPE ARCHITECTURE
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Project

Ramara Quarry
6059 Pearl Carricks Road, Ramara, Ontario, L3V 0K7

MNR Licence Reference No.		Applicant's Signature	
		<i>Brandon Velt</i>	
Plan Scale: 1:2000 (Arch E)		Date	May 2026
Horizontal 1:2000	C.P.	Drawn By	File No.
Vertical 1:500	C.P./J.N.	Checked By	21511C

Drawing Name

Cross Sections

Drawing No.

4 of 4

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