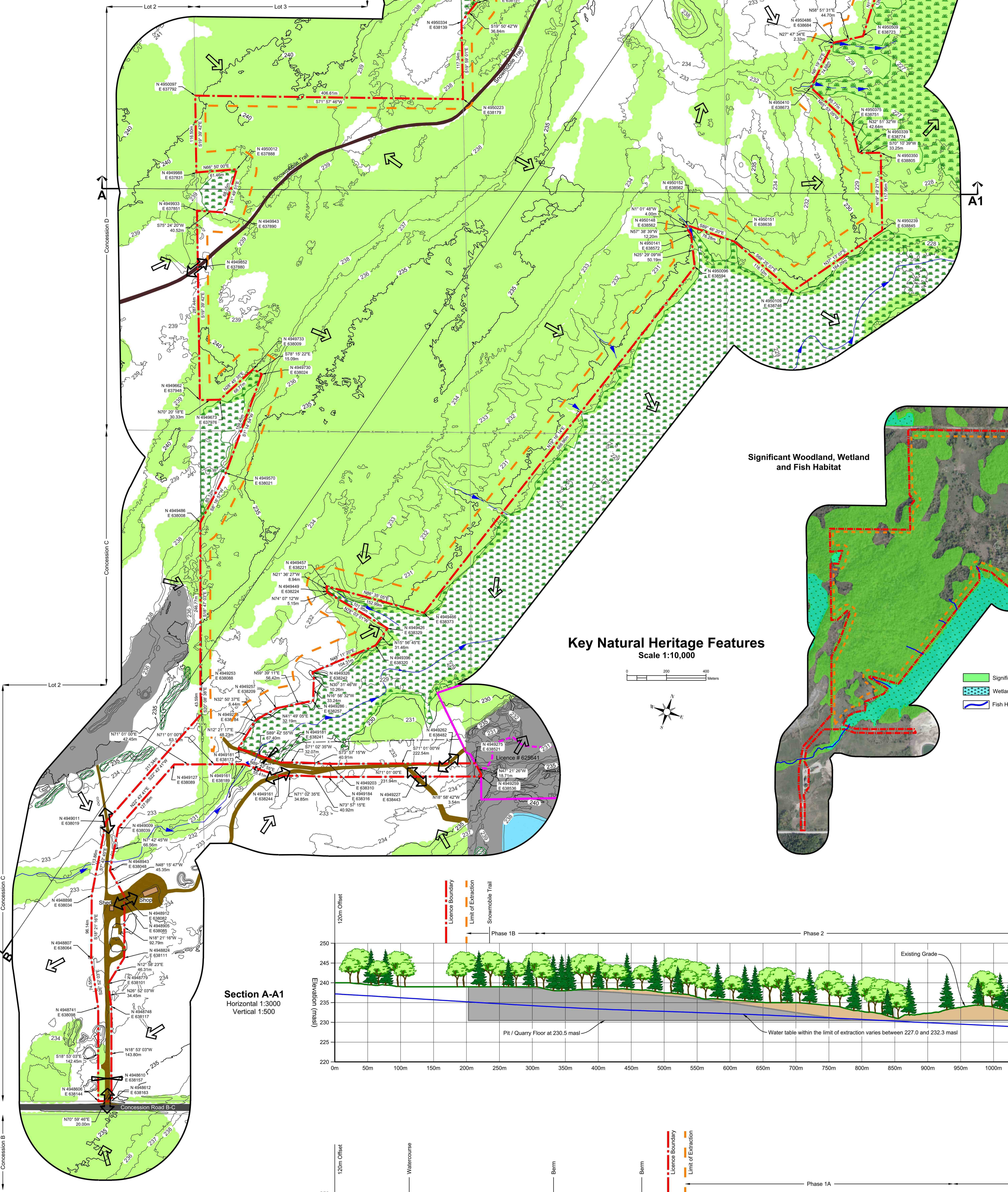
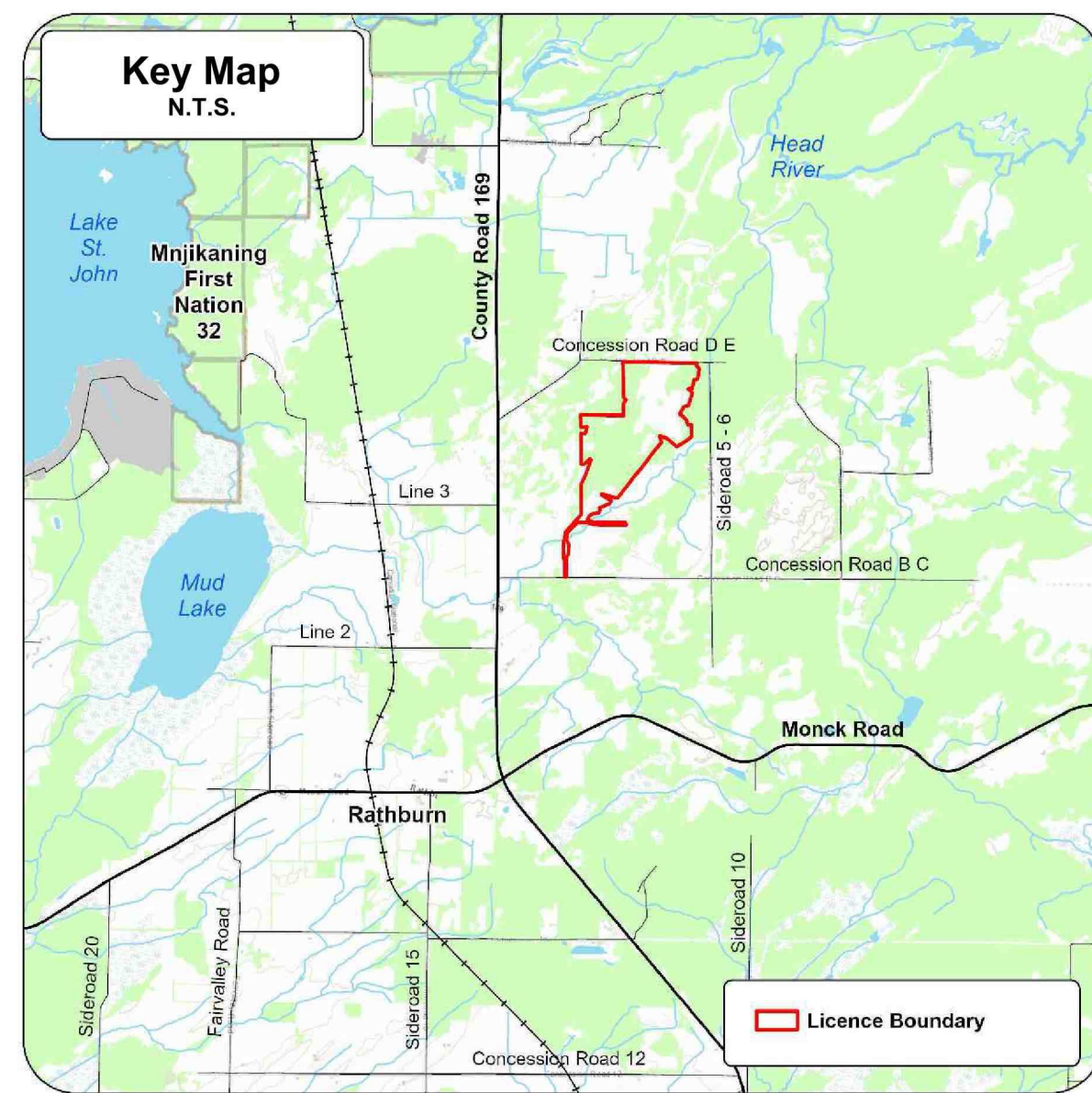
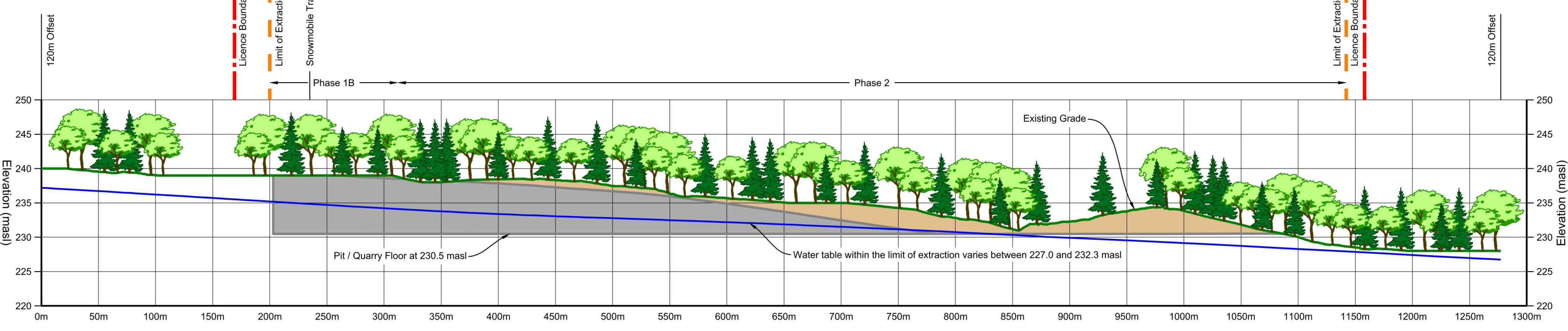
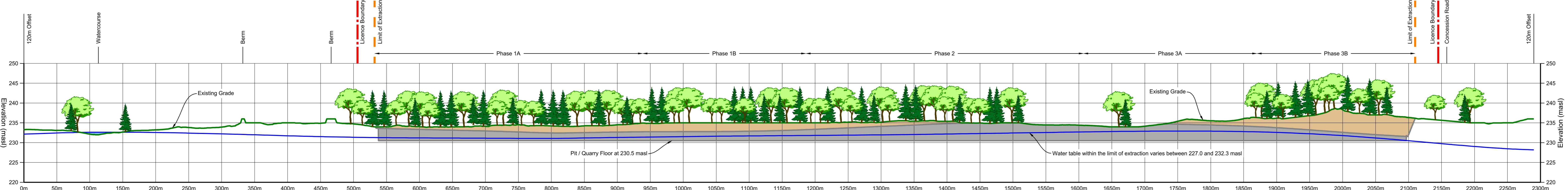




Section A-A1
Horizontal 1:3000
Vertical 1:500



Section B-B1
Horizontal 1:3000
Vertical 1:500



A. General

- This site plan is prepared under the Aggregate Resources Act (ARA) for a Class 'A' Licence for a pit and quarry below the groundwater table.
- Area calculations:
 - Licence Boundary: 91.2 ha
 - Limit of Extraction: 74.7 ha
- Nothing and existing 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 bare-earth terrain derived from a classified laser point cloud, and are displayed in one metre intervals. Elevations shown are in metres above sea level (masl).
- Topographic information was obtained from numerous sources including Geospatial Ontario, 2023 aerial photography from the County of Simcoe and field investigations for technical reports.
- All topographic features and structures are shown to scale in Universal Transverse Mercator (UTM) with North American Datum 1983 (NAD83), Zone 17 (metres), Central Meridian 81 degrees west coordinate system.
- The licence boundary was established using parcel fabric information from the Municipal Property Assessment Corporation and field surveys.
- Existing land use designations on and within 120 metres of the licence boundary (see schematic on this drawing) were obtained from the Township of Ramara Zoning By-law 2005-05, Schedule 'A', Maps E7, E8, and F7 as of August 2025. 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 2023 aerial photography from the County of Simcoe.
- Structures identified on or within 120 metres of the licence boundary were determined using 2023 aerial photography from the County of Simcoe.

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 small intermittent seeps.
- The Blackhead River Tributary runs southwest to northeast through the wetlands located east of the licence boundary. Overland flow enters the wetlands from the north side flowing southeasterly, and from the south side flowing northeasterly.

D. Groundwater

- The maximum predicted water table within the limit of extraction varies between 227.0 masl and 232.3 masl and is shown in each cross section on drawings 1 and 3 of 3.

E. Site Access and Fencing

- Eight field access points exist in the locations shown on the plan view. Gates are installed at the following access points:
 - At the north licence boundary on Concession Road D-E
 - At the south licence boundary on Concession Road B-C
 - On the field access road towards Licence # 625641

F. Significant Natural Features Within 120 Metres

- There are Significant Woodlands, Significant Wildlife Habitat and habitat for endangered and threatened species and fish habitat, as determined by Asimuth Environmental Consulting, within the licence boundary (see the Key Natural Heritage Features schematic on this drawing).
- There are Significant Woodlands, Significant Wildlife Habitat, habitat for endangered and threatened species, fish habitat and unvegetated wetlands, as determined by Asimuth Environmental Consulting, outside the licence boundary within 120 metres (see the Key Natural Heritage Features schematic on this drawing).

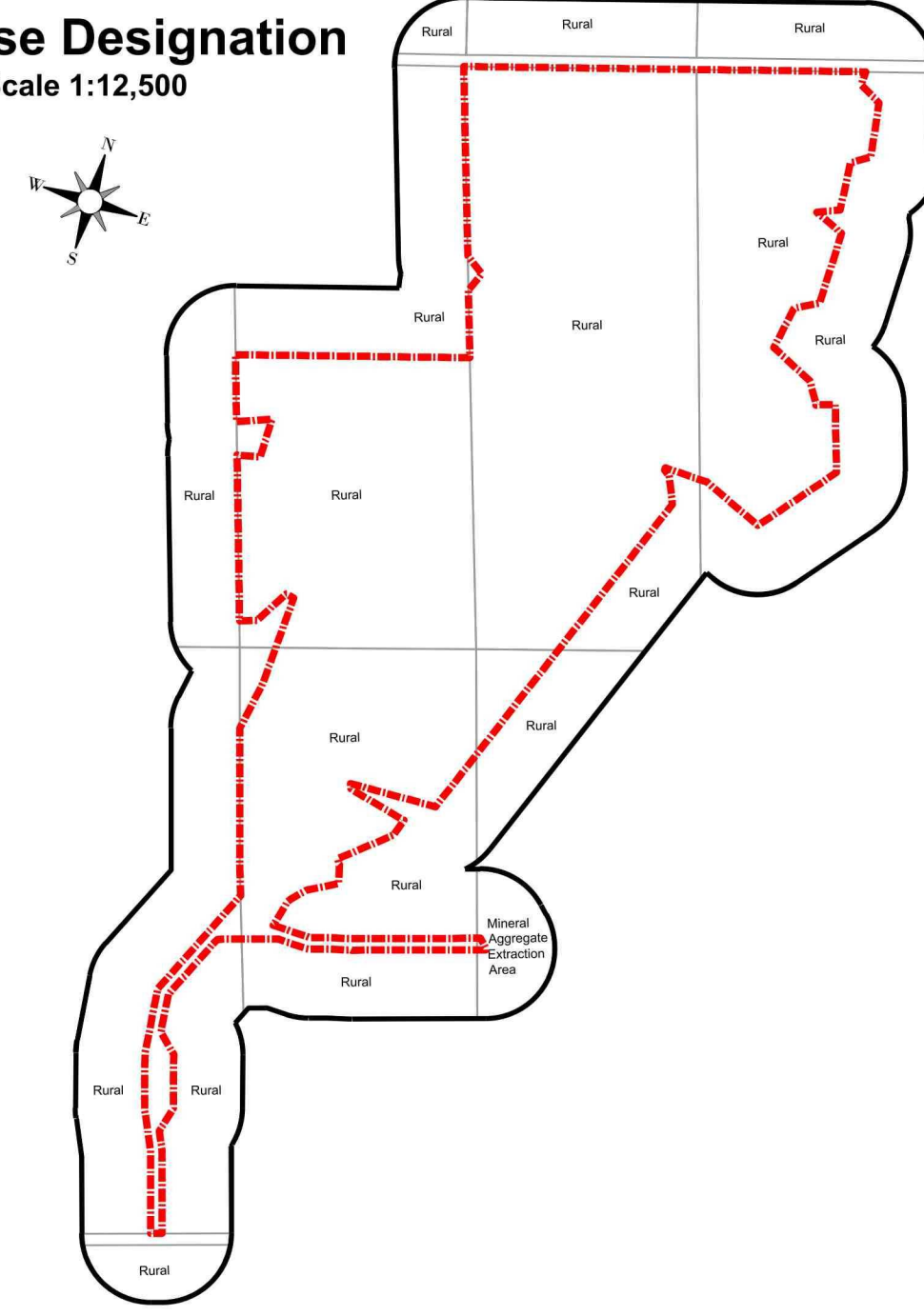
G. Significant Human-Made Features Within 120 Metres

- An existing quarry operation (Licence #625641) is located southeast of the site, as shown on the plan view, and is owned by the licensee.

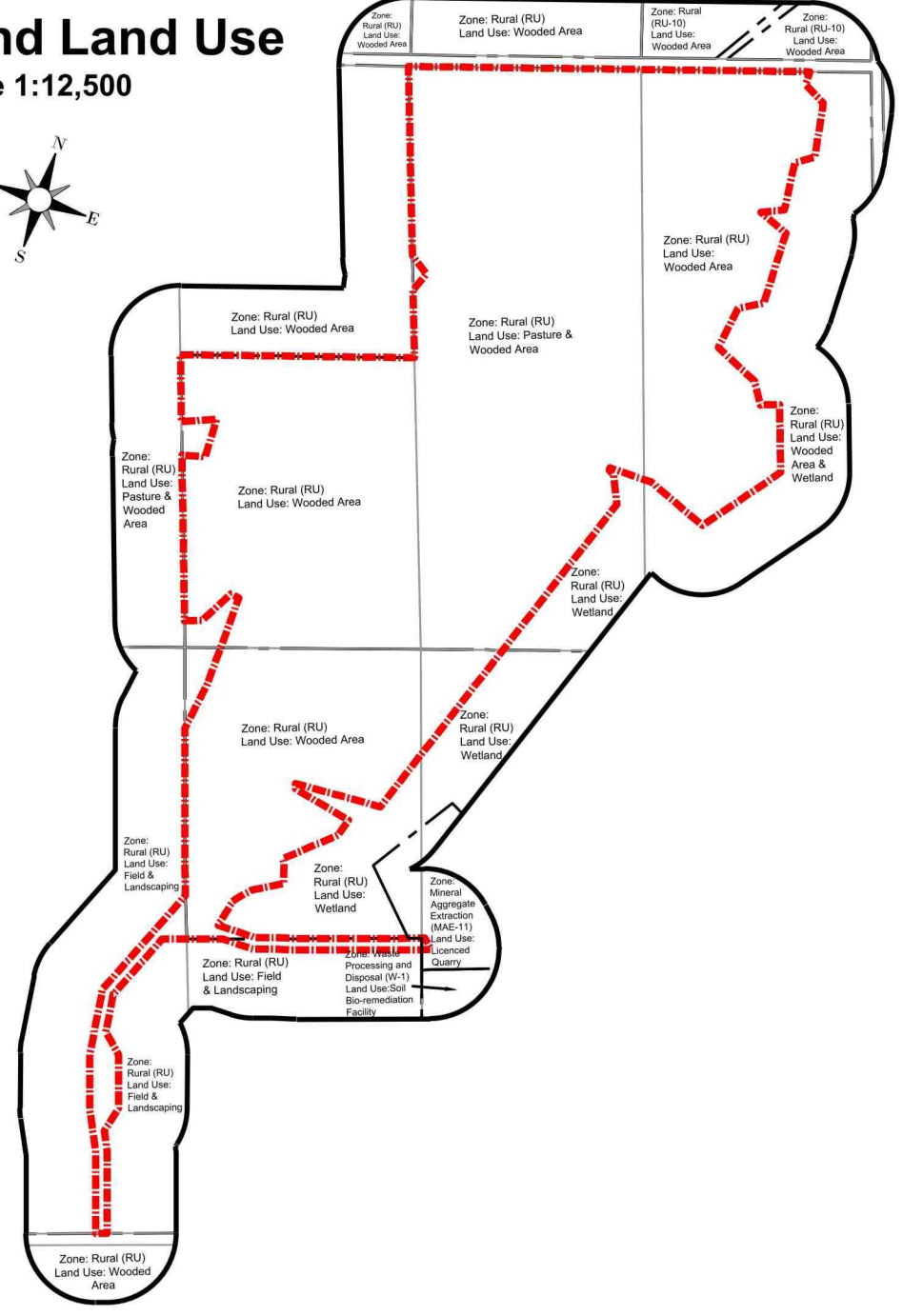
H. Aggregate Related Site Features

- There are no other existing aggregate operations or features on-site such as processing areas with stationary or portable equipment, stockpiles, recyclable materials, scrap, haul roads, fuel storage, berms or excavation faces.

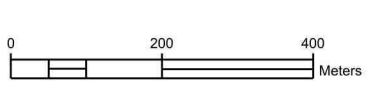
Land Use Designation
Scale 1:12,500



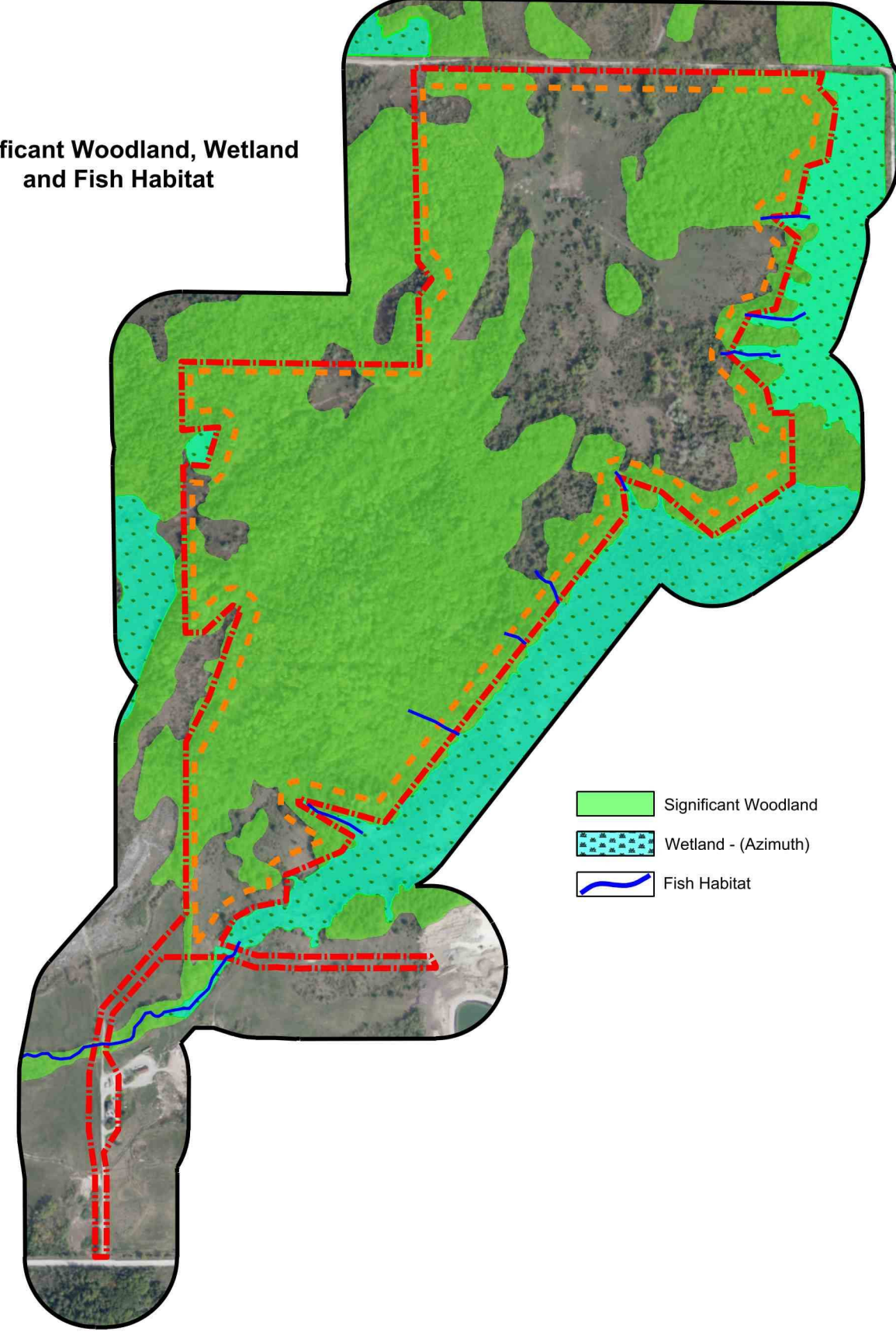
Zoning and Land Use
Scale 1:12,500



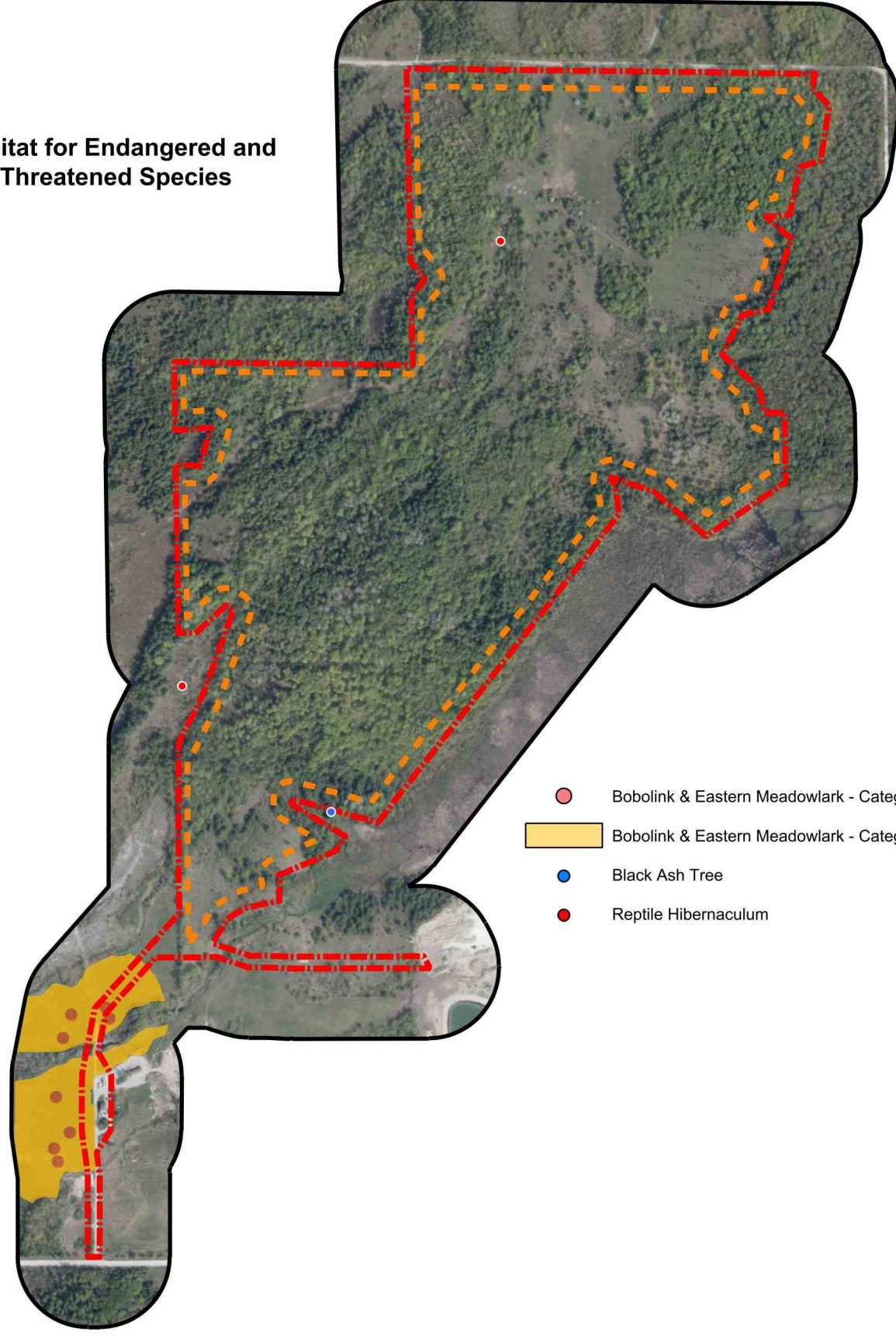
Key Natural Heritage Features
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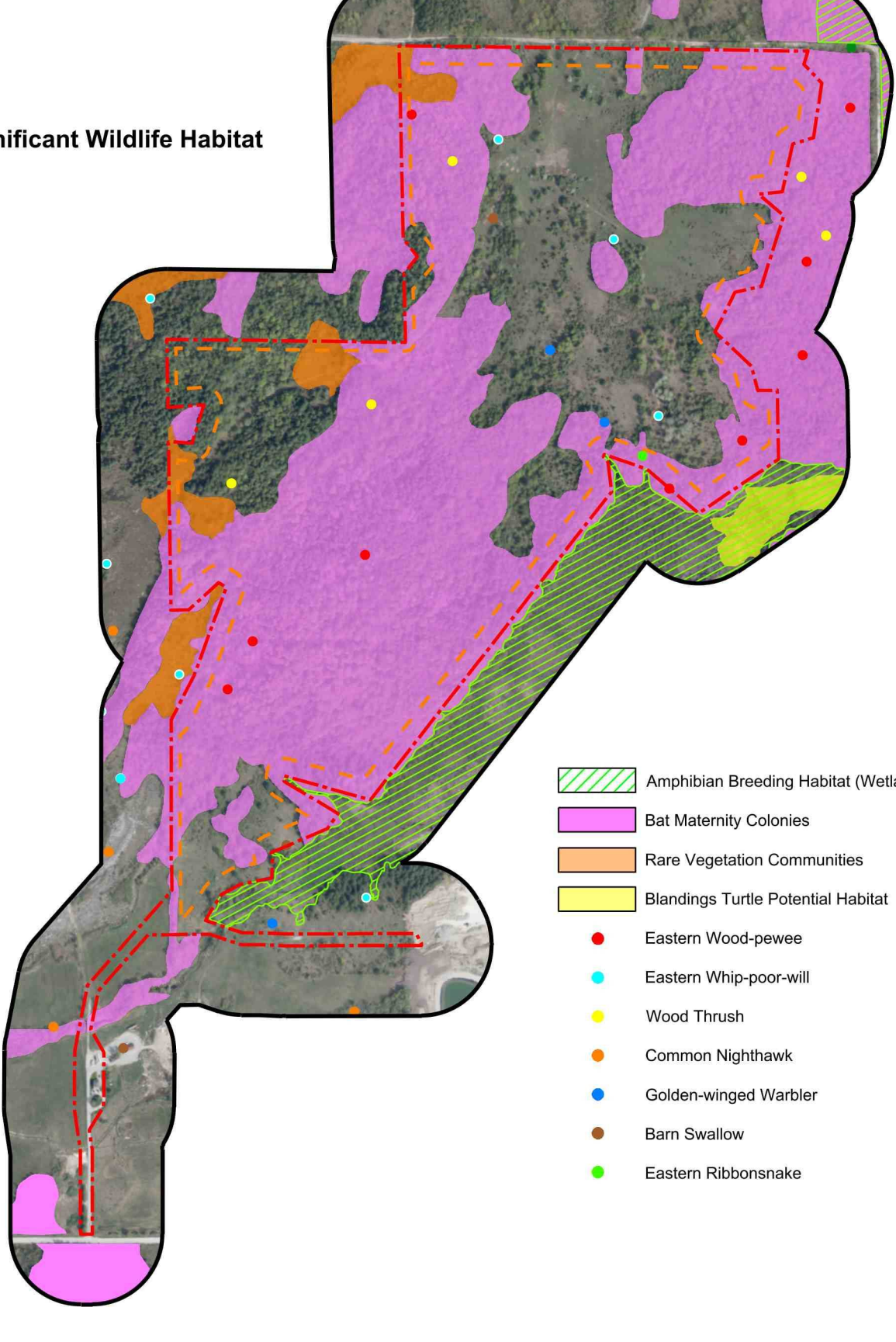
Significant Woodland, Wetland and Fish Habitat



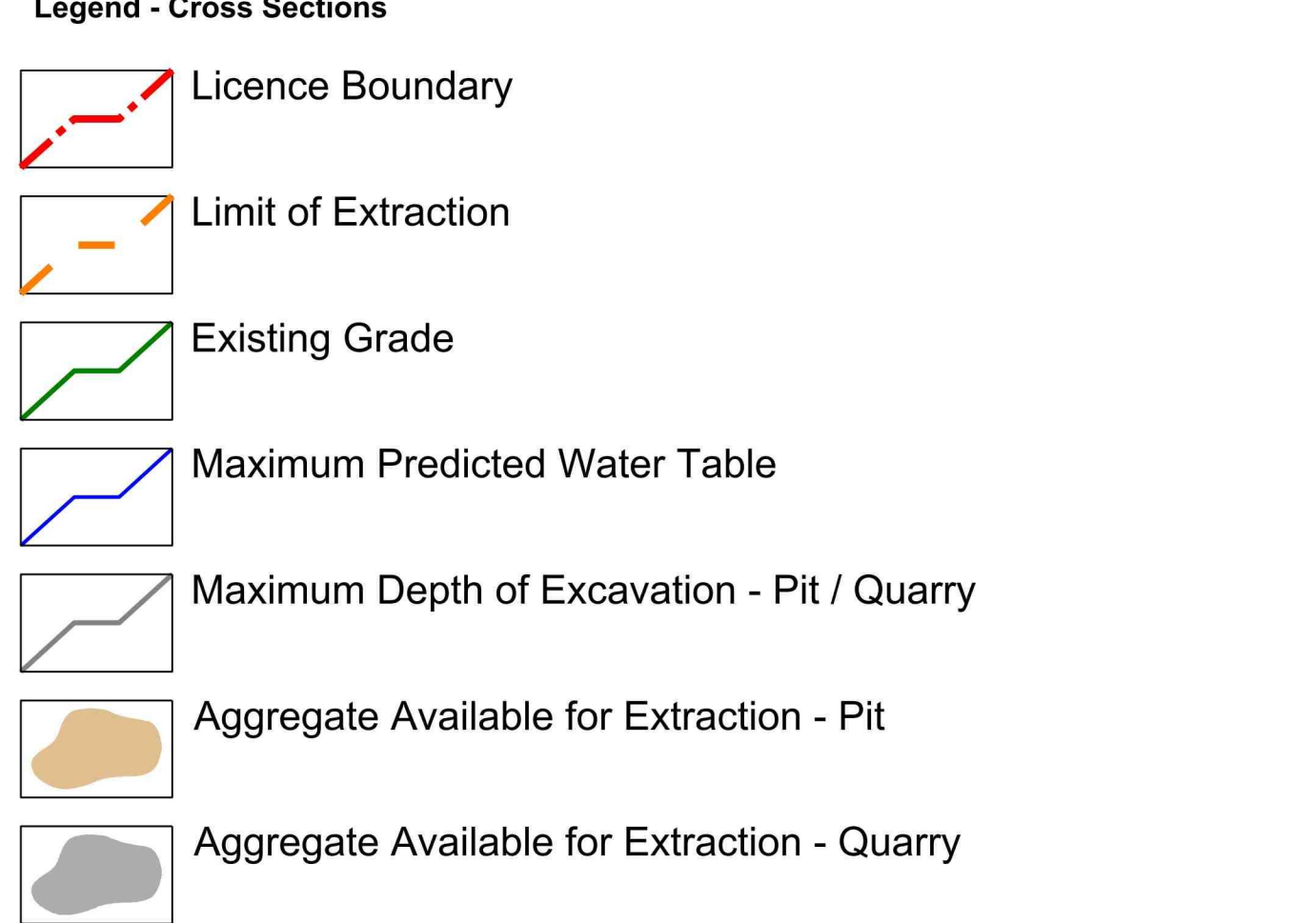
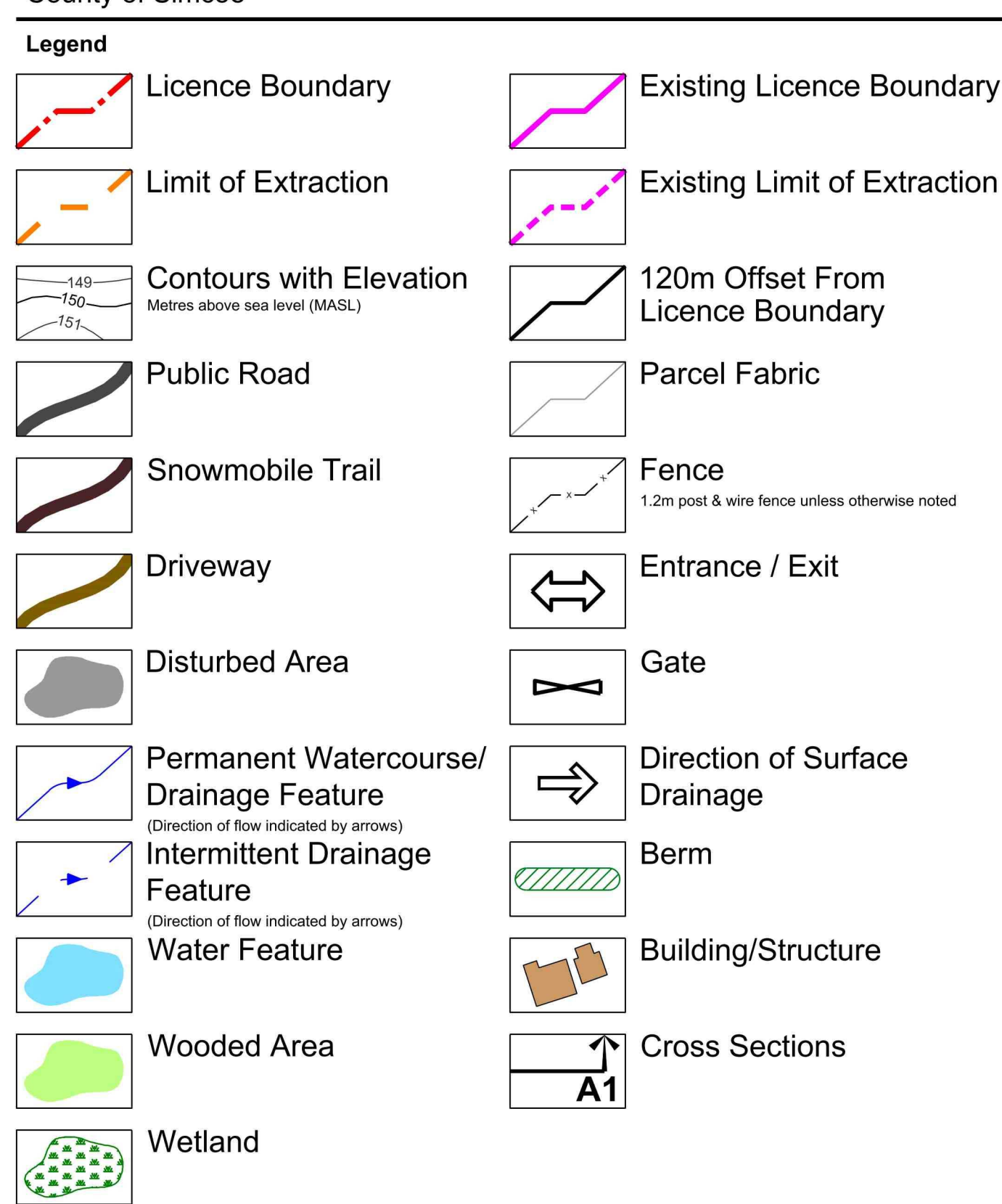
Habitat for Endangered and Threatened Species



Significant Wildlife Habitat



Legal Description
Part of Lots 2, 3 and 4, Concession C and Part Lots 3, 4 and 5, Concession D (former geographic Township of Ramara)
Township of Ramara
County of Simcoe



Site Plan Acronyms

- ARA - Aggregate Resources Act
- BMPP - Best Management Practices Plan
- DFO - Department of Fisheries and Oceans
- ECA - Environmental Compliance Approval
- ESC - Erosion and Sediment Control
- MASL - Metres Above Sea Level
- MCM - Ministry of Citizenship and Multiculturalism
- MECP - Ministry of Environment, Conservation and Parks
- MGCS - Ministry of Government and Consumer Services
- MNR - Ministry of Natural Resources

Site Plan Amendments			
No.	Date	Description	By

Site Plan Revisions (Pre-Licensing)			
No.	Date	Description	By

MHBC
PLANNING
URBAN DESIGN
& LANDSCAPE
ARCHITECTURE
113 COLLIER STREET, SARNIA, ON, L4W 1H3 | P: 705.735.0915 | WWW.MHBCPLAN.COM

MNR Approval Stamp

MHBC Stamp

Christopher Poole
Is authorized by the Ministry of Natural Resources pursuant to Subsection 0.23(3) of Ontario Regulation 244/07 to prepare and certify site plans.

Christopher Poole

Applicant

NRK Holding Inc.
411 Four Valley Drive, Unit # 35
Vaughan, Ontario
L4K 5Y8

Project
Kingfisher North Quarry Extension
7556 Concession Road B-C, Ramara, Ontario, L3V 0K7

MNR Licence Reference No.		Applicant's Signature	
Plan Scale: 1:3000 (Arch E)		Date: October 2025	File No. 2411A
Drawn By: C.P./R.K.		Checked By: C.P./J.N.	

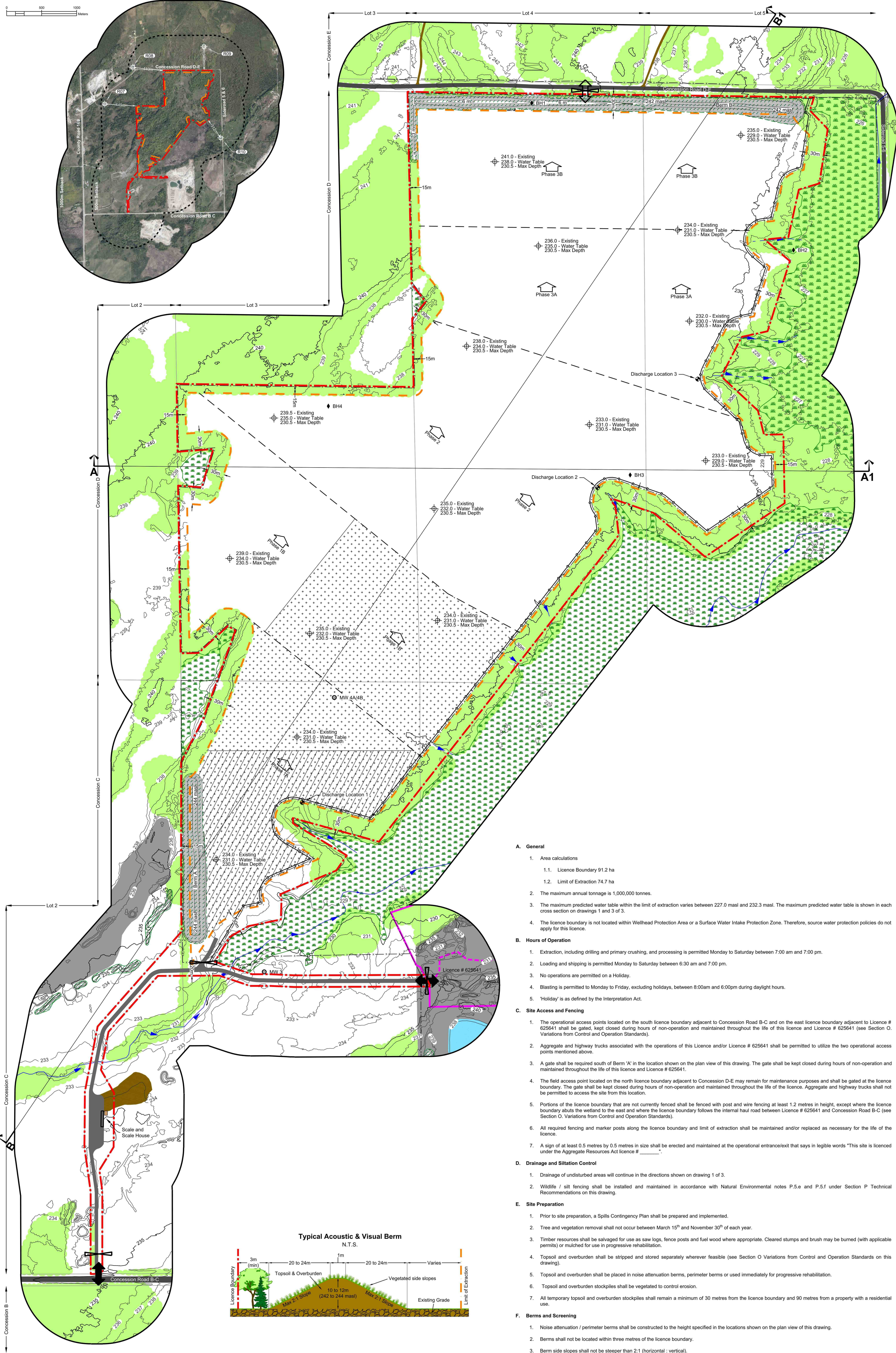
Drawing Name
Existing Features

Drawing No.
1 of 3

File Path
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Receptors - Key Map

Scale 1:25,000



H. Extraction Sequence

- Due to varying rock characteristics it is expected that the majority of the site will primarily produce crushed stone. If suitable geology exists within the extraction area, dimensional stone may also be extracted.
- The site shall be extracted in three phases (Phases 1A, 1B, 2, 3A and 3B) with extraction commencing at the southern limit and progressing north, as shown on the plan view of this drawing.
- Phases may overlap as one phase is prepared for extraction and the previous phase is nearing depletion and undergoing progressive rehabilitation.
- Progressive rehabilitation shall follow the sequence of extraction with progressive rehabilitation commencing in the west half of Phase 1B during extraction of Phase 2. Phase 1A, and the east half of Phase 1B, shall be the last phases to be rehabilitated as they will be used for processing and stockpiling throughout the life of the operation.
- Phase 1A
 - Prepare Phase 1A for extraction and ensure all the requirements in Sections 'C' through 'G' on this drawing are met.
 - Strip Phase 1A and use the overburden to construct Berm B (see Noise note 6.1 under Section P Technical Recommendations on this drawing).
 - Should there be a deficit of overburden in Phase 1A to construct the berms mentioned in the note above, topsoil and overburden within Phase 1B may be stripped to make up the deficit.
 - Commence quarry operations through a sinking out.
 - A portable plant shall follow the extraction face (see Noise notes 6.1 and 6.2 under Section P Technical Recommendations on this drawing for noise mitigation requirements for the portable plant).
 - Material from initial overburden may be processed at the existing processing plant in Licence # 625641 until it is practicable to establish a Central Processing Plant on the quarry floor in Phase 1A in the location shown on the plan view of this drawing (see Noise note 6.1 under Section P Technical Recommendations on this drawing for noise mitigation requirements for the Central Processing Plant).
 - Establish a wash pond and pump on the quarry floor. Water from the pump shall be discharged in Phase 1A in the location identified on the plan view of this drawing.
 - Extract material in a northward direction.
- Phase 1B
 - Prepare Phase 1B for extraction and ensure all requirements in Sections 'C' through 'G' on this drawing are met.
 - Strip Phase 1B and use the overburden to construct Berm B (see Noise notes 6.1 under Section P Technical Recommendations on this drawing).
 - Should there be a deficit of overburden in Phase 1B to construct the berms mentioned in the note above, overburden within Phase 2 may be stripped to make up the deficit.
 - A portable plant shall follow the extraction face (see Noise notes 6.1 and 6.2 under Section P Technical Recommendations on this drawing for noise mitigation requirements for the portable plant).
 - Material shall be processed at the Central Processing Plant established on the quarry floor within Phase 1A (see Noise note 6.1 under Section P Technical Recommendations on this drawing for noise mitigation requirements for the Central Processing Plant).
 - Water from the pump shall be discharged in Phase 1A in the location identified on the plan view of this drawing.
 - Extract material in a northward direction.
- Phase 2
 - Prepare Phase 2 for extraction and ensure all requirements in Sections 'C' through 'G' on this drawing are met.
 - Strip Phase 2 and use the overburden for progressive rehabilitation of the west half of Phase 1B. Any topsoil and overburden not required for progressive rehabilitation of the west half of Phase 1B shall be temporarily stored on-site for progressive rehabilitation of Phase 2. An internal haul road shall be maintained at any location on the quarry floor to access the active extraction area from the Central Processing Plant.
 - A portable plant shall follow the extraction face (see Noise notes 6.1 and 6.2 under Section P Technical Recommendations on this drawing for noise mitigation requirements for the portable plant).
 - Material shall be processed at the Central Processing Plant established on the quarry floor within Phase 1A (see Noise note 6.1 under Section P Technical Recommendations on this drawing for noise mitigation requirements for the Central Processing Plant).
 - When drilling, ensure the requirements of Noise note 6.1 under Section P Technical Recommendations on this drawing are met.
 - Establish the Phase 2 pump location. Water from the pump shall be discharged in Phase 2 in the location identified on the plan view of this drawing.
 - Extract material in a northward direction.
- Phase 3A
 - Prepare Phase 3A for extraction and ensure all requirements in Sections 'C' through 'G' on this drawing are met.
 - Strip Phase 3A and use the topsoil and overburden for progressive rehabilitation of Phase 2. An internal haul road shall be maintained at any location on the quarry floor to access the active extraction area from the Central Processing Plant.
 - Prior to extraction of Phase 3A, creation of the alvar and awake habitat within Phase 1B, as shown on drawing 3 of 3, shall be completed. Progressive rehabilitation of Phase 1B shall have commenced.
 - A portable plant shall follow the extraction face (see Noise notes 6.1 and 6.2 under Section P Technical Recommendations on this drawing for noise mitigation requirements for the portable plant).
 - Material shall be processed at the Central Processing Plant established on the quarry floor within Phase 1A (see Noise note 6.1 under Section P Technical Recommendations on this drawing for noise mitigation requirements for the Central Processing Plant).
 - When drilling, ensure the requirements of Noise note 6.1 under Section P Technical Recommendations on this drawing are met.
 - Establish the Phase 3 pump location. Water from the pump shall be discharged in Phase 3A in the location identified on the plan view of this drawing.
 - Extract material in a northward direction.
- Phase 3B
 - Prepare Phase 3B for extraction and ensure all requirements in Sections 'C' through 'G' and Noise note P.6.1 on this drawing are met.
 - Strip Phase 3B and use the topsoil and overburden for progressive rehabilitation of Phase 2 and 3A. An internal haul road shall be maintained on the quarry floor to access the active extraction area from the Central Processing Plant.
 - Prior to extraction of Phase 3B, final rehabilitation of the south half of Phase 2, except for the location required for the haul road, shall be complete. Progressive rehabilitation of the west half of Phase 1B shall be ongoing and the north half of Phase 2 shall have commenced.
 - A portable plant shall follow the extraction face (see Noise notes 6.1 and 6.2 under Section P Technical Recommendations on this drawing for noise mitigation requirements for the portable plant).
 - Material shall be processed at the Central Processing Plant established on the quarry floor within Phase 1A (see Noise note 6.1 under Section P Technical Recommendations on this drawing for noise mitigation requirements for the Central Processing Plant).
 - When drilling, ensure the requirements of Noise note 6.1 under Section P Technical Recommendations on this drawing are met.
 - Water from the pump shall be discharged in Phase 3A in the location identified on the plan view of this drawing.
 - Extract material in a northward direction.

I. Extraction Details

- All trees within five metres of the excavation face inside the limit of extraction face be removed.
- Topsoil and overburden shall be stripped to a minimum 2:1 slope adjacent to the limit of extraction. A minimum two metre wide safety ledge shall remain at the toe of the 2:1 slope where it meets the face.
- The existing grade, maximum predicted water table and maximum depth of extraction are indicated by spot elevations in various locations on the plan view of this drawing.
- The maximum lift height in the pit shall be 13 metres and shall comply with Ministry of Labour regulatory requirements.
- The maximum depth of sand and gravel is 13 metres and shall be extracted in one lift.
- The maximum lift height in the quarry shall be 10 metres.
- The maximum depth of limestone in Phase 1A is approximately 7.3 metres and shall be extracted in one lift.
- The maximum depth of limestone in Phase 1B is approximately 9.1 metres and shall be extracted in one lift.
- The maximum depth of limestone in Phase 2 is approximately 9.0 metres and shall be extracted in one lift.
- The maximum depth of limestone in Phase 3A is approximately 8.6 metres and shall be extracted in one lift.
- The maximum depth of limestone in Phase 3B is approximately 8.5 metres and shall be extracted in one lift.
- Extraction shall be permitted in two phases simultaneously to allow for transition between phases.
- Blasting will typically occur once every two weeks but may occur more frequently based on operational needs. Blasting shall be permitted in accordance with the hours specified in note 8.4 on this drawing.
- An off-highway vehicle and weigh scale shall be permitted on-site in the location shown on this drawing.
- As excavation reaches the limit of extraction and maximum depth, progressive rehabilitation shall commence in accordance with the extraction sequence notes on this drawing.

J. Equipment and Processing

- Equipment used on-site may include portable crushers (both primary and secondary), a portable screening plant, a portable wash plant, rock drills, generators, blockers, conveyors, screens, graders, skid steers, scrapers, surface graders, dozers, excavators, extraction loaders, shipping loaders, haul trucks, highway trucks, water trucks, water pumps, fuel trucks, maintenance trucks, explosive trucks, pickup trucks, and tree clearing equipment.
- Processing and/or loading will be located within the processing area identified on the plan view of this drawing and remain a minimum of 30 metres from the licence boundary and 90 metres from a property with a residential use.

K. Wash Pond

- Refer to the Water Resources notes under Section P.8 of the Technical Recommendations on this drawing for additional information.

L. Dust

- Dust shall be mitigated on-site in accordance with the dust control requirements stipulated in Ontario Regulation 244/97.

M. Fuel Storage

- Fuel storage tanks shall be located within the processing area identified on the plan view of this drawing.
- The fuel storage tanks shall be maintained and replaced in accordance with the Liquid Fuels Handling Code adopted as part of Ontario Regulation 217/01 (Liquid Fuels under Ontario Regulation 220/01 Codes and Standards Adopted by Reference) made under the Technical Standards and Safety Act, 2000.
- All fuel tanks shall be double-walled or placed in containment facilities large enough to hold the tanks maximum volume.
- Fuel tanks may be used to transfer fuel to on-site equipment in accordance with the Liquid Fuels Handling Code.
- The Spills Contingency Plan required under the Aggregate Resources Act shall be available on-site and all employees and contractors shall be informed and required to comply with this plan.

N. Scrap and Recycling

- Scrap may be stored on-site within the processing area identified on the plan view of this drawing and shall be removed on an on-going basis.
- Scrap shall only include material generated directly as a result of the aggregate operation such as refuse, debris, scrap metal, lumber, discarded machinery and equipment.
- All fluids shall be drained from any discarded equipment or machinery prior to storage and disposed of in accordance with the Environmental Protection Act.
- Scrap shall not be stored within 30 metres of any body of water, or the licence boundary.
- Recycling of asphalt and concrete shall be permitted on-site.
- Recyclable asphalt materials shall not be stockpiled within:
 - 30 metres of any water body or man-made pond;
 - 2 metres of the surface of the established water table.
- Recyclable material shall be kept within the processing area identified on the plan view of this drawing.
- Rebar or other structural metal shall be separated from recyclable aggregate material during processing and placed in a designated scrap pile on-site which shall be removed on an on-going basis.
- Recyclable aggregates shall be removed on an on-going basis.
- Recycling activities shall not interfere with the operational phases of the site or with rehabilitation.
- Once the site is depleted, no further importation of recyclable material shall be permitted.
- Once final rehabilitation has been completed and approved in accordance with the site plan, all recycling operations shall cease.
- The site shall be kept in an orderly condition.

O. Variations from Control and Operation Standards

Section 6.3 Standard	Variation	Reason
(1) (1)	The entrance on Concession Road B-C shall be gated in the location shown on the plan view of this drawing instead of the licence boundary.	A gate in the location shown ensures the extraction area is secure while enabling the agricultural operations around the internal haul road to continue without interruption.
(1) (6)	Depending on site conditions, topsoil and overburden may not be stored separately.	Wherever there are no disturbance features and sufficient thickness to allow separate handling, topsoil and overburden will not be stored separately.
(3) (6) (1)	1. Fencing shall not be erected along the licence boundary where it abuts the wetland to the east. 2. Fencing shall not be erected along the licence boundary where it follows the internal haul road between Licence # 625641 and Concession Road B-C.	1. The limit of extraction shall be demarcated with painted marker posts (1.8 metres in height) every 30 metres or less in order to maintain visibility from one marker post to the next. 2. Fencing shall be erected at the southern extent of the limit of extraction in the location identified on the plan view of this drawing. This will eliminate constraints to the agricultural operations.

P. Technical Recommendations

- Air Quality**
 - Dust shall be mitigated on-site.
 - Water or another provincially approved dust suppressant shall be applied to internal haul roads as often as required to mitigate dust.
 - Processing equipment shall be equipped with dust suppressing or collection devices, where the equipment creates dust and is being operated within 300 metres of a sensitive receptor.
- The site shall operate in accordance with a Best Management Practice (BMP) for Fugitive Dust, which may be amended from time to time, considering actual impacts and operational considerations. The recommendations in the BMP are based on the maximum daily production rate. At lower production rates, the control measures specified in the BMP can be reduced proportionally, provided dust remains mitigated to an acceptable level.

Archaeology

- No further archaeological assessment of the project area is required.
- Should deeply buried archaeology remains be found during the course of site preparation and/or extraction related activities, the Ministry of Citizenship and Multiculturalism (MCM) shall be notified.
- In the event human remains are encountered during construction or extraction activities, the licensee shall immediately contact both the MCM and the Registrar or Deputy Registrar of the Cemeteries Regulation Unit of the Ministry of Government and Consumer Services (MGCS).

Blasting

- An attenuation study shall be undertaken by an independent blasting consultant during the first 4 blasts that are representative of typical production blasts occurring over the life of the quarry in order to obtain sufficient quarry data for the development of site specific attenuation relations. This study shall be used to confirm the applicability of the initial guideline parameters and assist in developing future blast designs.
- Blasts shall be designed and loaded adhering to Table 3 Maximum Explosive Load at Set-Off Distances - 12.5 metres as well as Table 4 Maximum Explosive Load at Set-Off Distances to Receptors in Front of the Blast - 128 dBu until the attenuation study is completed. Upon completion of the attenuation study, a site-specific attenuation relation shall be developed and shall be utilized to develop a new load chart to be utilized going forward.
- All blasts shall be monitored for both ground vibration and overpressure at the closest sensitive receptors adjacent to the site, or closer, with a minimum of two (2) instruments - one installed in front of the blast and one installed behind the blast.
- The guideline limits for vibration and overpressure shall adhere to standards as outlined in the Ministry of Environment, Conservation and Parks (MECP) Model Municipal Noise Control By-law publication NPC 119 (1978) or any such document, regulation or guideline which supersedes this standard.
- In the event of an exceedance of NPC 119 limits or any such document, regulation or guideline which supersedes this standard, blast designs and protocol shall be reviewed prior to any subsequent blasts and revised accordingly in order to return the operations to compliant levels.
- Orientation of the aggregate extraction operation shall be designed and maintained so that the direction of the overpressure propagation will be directed away from structures as much as possible.
- Blast designs shall be continually reviewed with respect to fragmentation, ground vibration and overpressure. Blast designs shall be modified as required to ensure compliance with current applicable guidelines and regulations.
- Blasting procedures such as drilling and loading shall be reviewed on a yearly basis and modified as required to ensure compliance with industry standards.
- Detailed blast records shall be maintained in accordance with current industry best practices.
- The guideline for flyrock shall adhere to the standard as outlined in the Aggregate Resources Act O. Reg. 244/97, specifically "A licensee or permittee shall take all reasonable measures to prevent flyrock from leaving the site during blasting if a sensitive receptor is located within 500 metres of the boundary of the site" or any such document, regulation or guideline which supersedes this standard.

Cultural Heritage

- There are no site plan recommendations.

Natural Environment

- Prior to any site alteration within the area identified as habitat for Bobolink and Eastern Meadowlark, the requirements of Part IV of O. Reg. 830/21 of the ESA shall be met.
- The licensee shall seek to ensure that onsite personnel are educated to ensure that:
 - Identified SAR are not intentionally injured or killed, and to ensure that damage to features which could constitute habitat is avoided. Information shall be conveyed through a SAR expert and include:
 - Species habitat and identification.
 - Requirements under the ESA including avoidance of harm to the species and damage to relevant habitat.
 - Appropriate action to take if the species is encountered.
 - How to record sightings and encounters, and
 - That care shall be taken when undertaking construction activities in order to avoid harming the species or damaging/destroying habitat.
- Vegetation removal shall be avoided between March 15 and November 30 of any given year.
- Removal of Reptile Habitat within Phase 3A (as shown on the Habitat for Endangered and Threatened Species schematic on drawing 1 of 3) shall occur between June 1 and August 31 of any given year.
- Wildlife fencing shall be installed by extraction phase along the length of the Proposed Extraction Limit, as shown on the plan view of this drawing. Wildlife fencing shall be installed prior to the initiation of each active extraction phase, and can be removed along any given extraction phase following completion of the extraction phase. Wildlife exclusion fencing may be installed on the same fencing as site fencing, assuming that both the adjacent control and wildlife exclusion function of the fencing are maintained.
- Wildlife fencing shall be installed according to provincial Reptile and Amphibian Exclusion Fencing (MECP, 2021) guidelines along the proposed limit of extraction proximal to the northern limit of the MAMH-1 (SOWH1)-1 feature and along the western limit of the BOWH1 feature as shown on the plan view of this drawing, according to specifications as follows:
 - 14 inch or 1/8 inch mesh shall be used for galvanized wire fencing.
 - Tens in fencing may be needed with 16-gauge galvanized wire.
 - Put the mesh fast and staple or secure with screws and a metal striping to prevent the mesh from being ripped when pressure is applied.
 - An adjacent fencing is installed on the species side ensures that other wildlife (e.g. snakes and amphibians) are unable to cross or jump over the fence.
 - Meeting shall be buried a minimum 100 cm (or as deep as substrates allow) and backfilled along the length of the fencing and
 - Fences shall be inspected after spring thaw and throughout the active season for tears or other damage.
- Prior to the commencement of site work/ground disturbance, all ESC measures shall be installed as per OPSR MMH 805 (Construction Specification for Temporary Erosion and Sediment Control Measures). Site fencing shall be maintained until lands abutting the work area are considered stabilized with self-sustaining vegetation.
- A double row of heavy-duty silt fence shall be installed adjacent to natural heritage features in the area shown on the plan view of this drawing. This silt fence shall be installed by operational phase on the same fencing as the wildlife exclusion fencing, assuming that both the sediment control and wildlife exclusion function of the fencing are maintained.
- Implement the water management strategy as per the Level 1 and 2 Water Report (Acmuth, 2025) to maintain run-off inputs via drainage channels in the quarry floor during each phase.
- Should in-water works be proposed, all in-water construction shall occur in the dry and in isolation of flow. Cofferdam installation and bypass flow management, if required, should follow DFO's Interim standard: in-water site isolation (DFO, 2023).
- If in-water work is required in direct fish habitat (e.g., to establish the drainage outlets), a fish salvage shall be completed by a qualified Fisheries Ecologist prior to dewatering. All fish salvages require a License to Collect Fish for Scientific Purposes from MNR.
- In-water work in both direct and indirect features shall only be permitted from July 15 to March 15 of any given year unless granted otherwise by MNR and/or DFO.
- All dewatering in direct or indirect fish habitat features within isolated work areas is to discharge water into a filter bag (i.e., envelop or equivalent). Filter bags shall be placed a minimum of 30m from fish habitat or wetland or stable, vegetated ground to allow time for water to settle out of the water. Monitoring of these dewatering operations shall occur throughout the construction process to ensure water is free of fines before entering the watercourses.
- All machinery maintenance/washing shall maintain a minimum distance of 30m from natural heritage features to prevent accidental spillage of deleterious substances. The contractor shall have a Contaminant and Soil Management Plan in place prior to initiation of works. This should include keeping an emergency spill kit on site at all times. In the event of a spill, the contractor shall report it immediately to the provincial Spills Action Centre (SAC).
- Blast designs shall be in accordance with DFO Guidelines for the use of explosives in or near Canadian fisheries waters.
- A qualified professional shall be retained to prepare a blasting plan that is compliant with DFO regulations.

Notes

- The proposed hours of full operation including extraction, processing and shipping are from 7:00 am to 7:00 pm, Monday to Saturday excluding statutory holidays. Early morning shipping operations hours are from 6:30 am to 7:00 am, Monday to Saturday. At no time shall extraction, processing or shipping take place on a statutory holiday. Equipment maintenance may take place outside of these normal operating hours. See Table 1 below for additional information:

Time of Day	Day of Week	Operations
7:00 am to 7:00 pm	Monday to Saturday	Full Operation - Extraction, Processing, Loading & Shipping
6:30 am to 7:00 am	Monday to Saturday	Loading and Shipping Only

- The extraction, processing, and shipping equipment operating in the quarry extension shall be limited to:
 - One Rock Drill
 - One Portable Plant
 - One Central Processing Plant
 - Two Extraction Loaders or Excavators
 - One Shipping Loader
 - 40 Highway Truck Trips (30 Passengers)
 - 30 Off-Road Truck Trips (30 Passengers)

- The aggregate quarry equipment shall satisfy the noise emissions levels listed in Table 2 below:

Equipment	Reference Sound Pressure Level of Aggregate Quarry Equipment
Central Processing Plant	85
Rock Drill	81
Quiet Rock Drill	74
Portable Plant	80
Extraction Loader or Excavator	70
Off-Road Truck - 25 km/h	66
Highway Truck - 25 km/h	66
Shipping Loader	67

* Shipping Loaders were assumed to be operating at 50% duty cycle

- Extraction shall proceed generally from south to north and shall be carried out in a single lift, as shown on the plan view.

- The sound emissions of all construction equipment involved in site preparation and rehabilitation activities shall comply with the sound level limits specified in the MECP publication NPC-115 "Construction Equipment".

- New equipment technology or different configurations may allow proposed changes to any portion of the extraction and processing operations including additional equipment to operate on the site, equipment to be substituted, and/or different term heights, while still meeting the applicable sound level limits. Changes may be implemented if the licensee can demonstrate that the changes will meet the sound level limits, be confirmed through documentation prepared by a Professional Engineer specializing in noise control. Prior to any modification, the licensee shall confirm with MNR whether a site plan amendment is required to permit these proposed changes.

- An acoustic barrier is required to be sited with no gaps or openings, and shall satisfy a minimum area density of 20 kg/m². It should take the form of a pit or rock wall, acoustic fence, acoustic fence, ISO containers, a combination of these, or any construction satisfying the requirements of an acoustic barrier.

- Acoustic berms shall be established with the listed top-of-berm absolute height in most identified in Table 3 below and shall be maintained for the duration of extraction and processing within the proposed quarry extension:

Berm	Top-of-Berm Height (m) (natl)	Length (m)	Location	Implementation Timing
A	7 - 10	244	West Extension Boundary	Prior to Phase 1A Extraction
B	1 - 9	242	North Extension Boundary	Prior to Phase 1B Extraction

- The Central Processing Plant shall be established on the quarry floor at approximately 230.5 m a.s.l. at a central location within Phase 1A as soon as practicable and shall be prohibited from operating more than 900 m from Concession Road B-C. An acoustic barrier with a minimum height of 10 m shall be established between the Plant and Receptor R50, and R10 at a maximum setback distance of 30 m.

- The Portable Plant shall operate on the quarry floor at a maximum elevation of approximately 230.5 m a.s.l. An acoustic barrier shall be established between the Portable Plant and receptors based on the operating location as detailed in Table 4 below:

Portable Plant Location	Minimum Height and Setback	Shielded Receptors
Phase 1B, Phase 2	7 m @ 30 m	R10
Phase 3A	9 m @ 30 m	R09
	7 m @ 30 m	R10
Phase 3B	5.2 m @ 7 m	R09
	7 m @ 30 m	R10

- The Portable Plant shall be prohibited from operating within 575 m of Receptor R10, or within Phase 3B.

- Extraction within Phase 3B shall be limited to a single Extraction Loader or Excavator.

- Drilling operations in Phase 2, 3A and 3B shall be mitigated using either a Quiet Rock Drill or by implementing a barrier between the Rock Drill and key receptors as detailed in Table 5 below. The listed barrier may be achieved by using a tractor trailer with plywood covering the bottom opening.

Drill Location	Table 5 - Drill Mitigation Table	Barrier Requirement
Phase 2	4 m Height @ 7 m Distance	R10
Phase 3A, 3B	4 m Height @ 7 m Distance	R0

Note: The listed barriers shall not be required if a Quiet Rock Drill is used per Table 2

- Noise Controls Required to Address Potential Disturbance at V1.2:
 - If a building permit for a sensitive use is granted for the property represented by V1.2, the following additional noise controls shall be required:
 - Prior to extraction operations, an acoustic barrier with a minimum height of 360 MSL shall be installed along the south boundary of the site as shown in the Operation Plan (Barrier C). It shall extend east from the south extension boundary by approximately 330 m. This barrier shall extend for the life of the quarry.
 - Processing operations within 850 m of V1.2 shall require an acoustic barrier between the Central Plant and V1.2 with a minimum height of 9 m and a maximum setback distance of 30 m.

Trails

- There are no site plan recommendations.

Water Resources

- Prior to the start of water taking and/or water discharge, a Ministry of Environment, Conservation and Parks (MECP) Environmental Compliance Approval (ECA) shall be obtained and the licensee shall operate in compliance with these approval instruments, including the associated monitoring and reporting.
- The proposed ground and surface water monitoring program outlined in Section 10.0 of the Level 1 and 2 Water Report shall be included in these instruments.
- The licensee shall implement the Complaints Response Program as outlined in Section 9.0 of the Level 1 and 2 Water Report in the event of a water well interference complaint.
- The proposed quarry extension lands are located greater than 5 km from the nearest protection zones for any communal water supplies and lake intakes. The proposed change in land use (from agriculture to aggregate extraction) will reduce the number of prescribed drinking water threats. Thus, no source water protection concerns are noted.
- The constructed sumps, drainage channels and/or settling ponds shall be created to promote the safe discharge of snow melt, surface water runoff and ground water seepage during quarry operations (Phases 1 to 3). The sumps and/or drainage channels will collect flow to the proposed outlet locations to maintain the receptors (dry) from, function and hydraulic conditions to the centralized wetland.

Legal Description

Part of Lots 2, 3 and 4, Concession C and Part Lots 3, 4 and 5, Concession D (former geographic Township of Rama)
Township of Rama
County of Simcoe

Legend

	Licence Boundary		Existing Licence Boundary
	Limit of Extraction		Existing Limit of Extraction
	Contours above sea level (MASL)		120m Offset From Licence Boundary
	Public Road		Parcel Fabric
	Internal Haul Road		Fence
	Driveway		Wildlife / Silt Fence
	Permanent Watercourse/Drainage Feature (Direction of flow indicated by arrows)		Entrance / Exit Operational - Solid Field - Hollow
	Intermittent Drainage Feature (Direction of flow indicated by arrows)		Gate
	Water Feature		General Direction of Excavation & Boundary
	Wooded Area		Berm Existing - Solid Proposed - Dashed
	Wetland		Building/Structure
	Processing Area		Spot Elevation Top - Existing (MASL) / Middle - Water Table (MASL) Bottom - Maximum Depth of Extraction (MASL)
	Stockpile Area		Monitoring Well
	Cross Sections		Borehole
	A1		Discharge Location

Site Plan Acronyms

- ARA - Aggregate Resources Act
- BMPP - Best Management Practices Plan
- DFO - Department of Fisheries and Oceans
- ECA - Environmental Compliance Approval
- ESC - Erosion and Sediment Control
- MAL - Metres Above Sea Level
- MCM - Ministry of Citizenship and Multiculturalism
- MECP - Ministry of Environment, Conservation and Parks
- MGCS - Ministry of Government and Consumer Services
- MNR - Ministry of Natural Resources

Site Plan Amendments

No.	Date	Description	By

Site Plan Revisions (Pre-Licensing)

No.	Date	Description	By

No.	Date	Description	By

MNR Approval Stamp

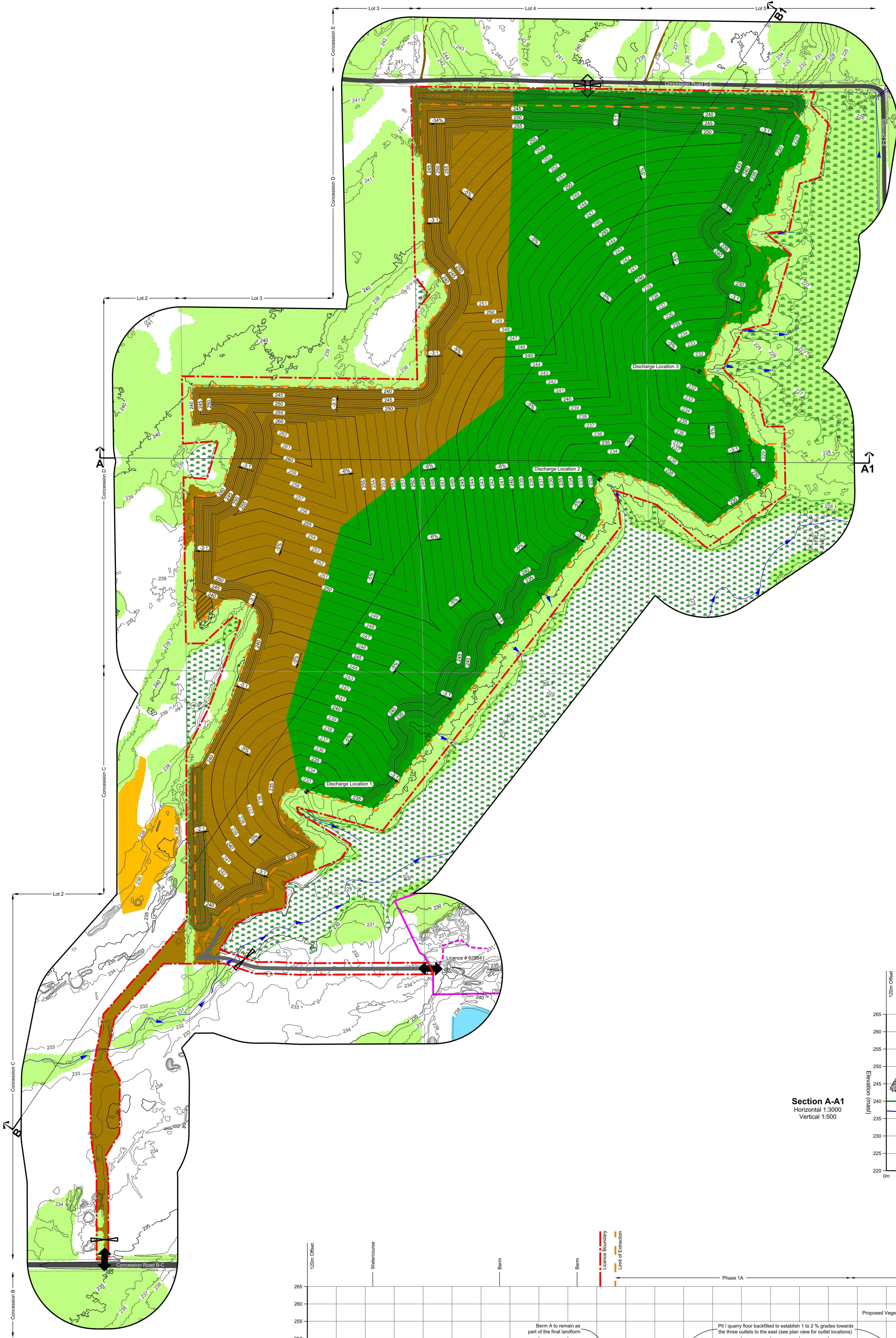
113 COLLIER STREET, BARRE, ON L4M 1H1 P: 705.738.5045 WWW.MHBCPLAN.COM	Christopher Poole Is authorized by the Ministry of Natural Resources pursuant to Subsection 0.23(3) of Ontario Regulation 244/07 to prepare and certify site plans.

Applicant

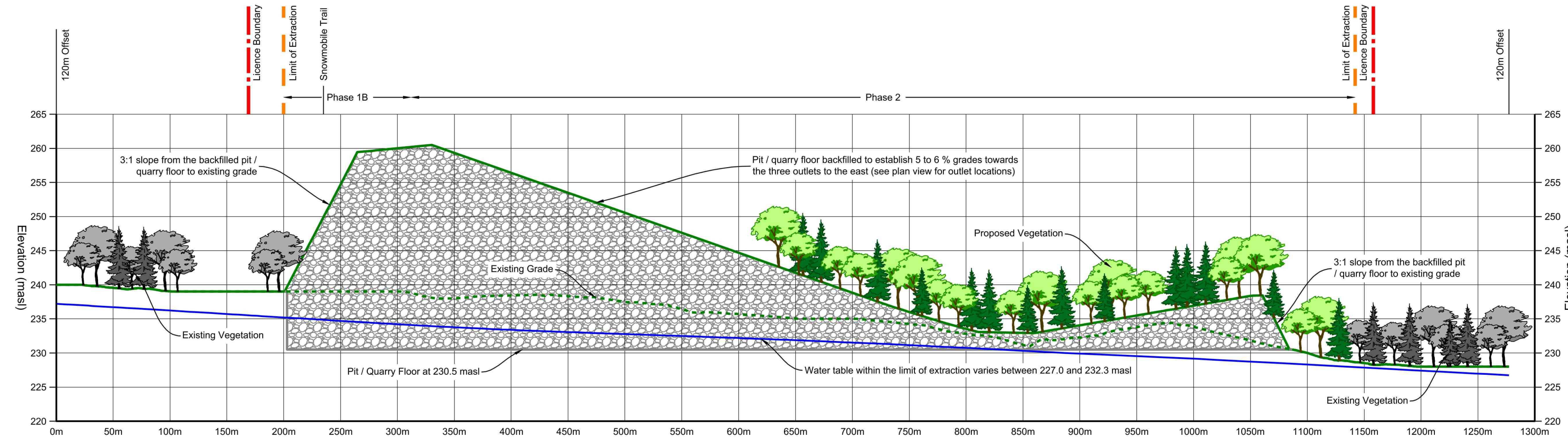
	NRK Holding Inc. 411 Four Valley Drive, Unit # 35 Vaughan, Ontario L4K 5Y8
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Project	Kingfisher North Quarry Extension 7556 Concession Road B-C, Rama, Ontario, L3V 0K7
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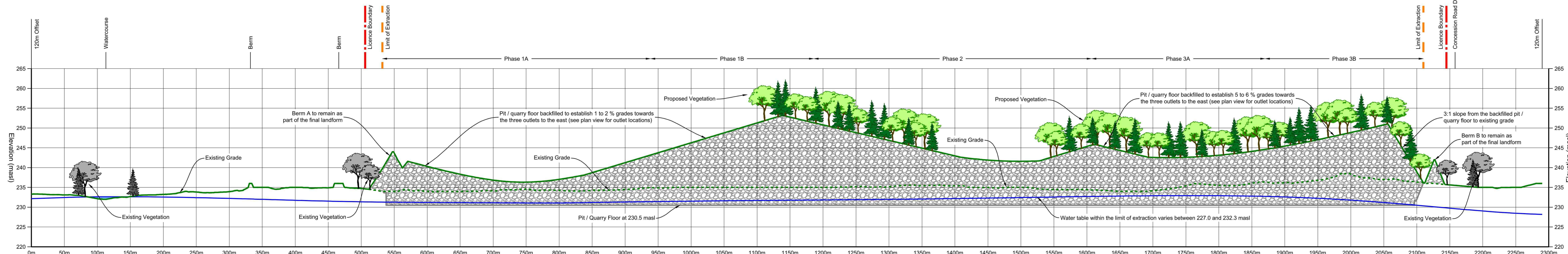
MNR Licence Reference No.	Applicant's Signature
Plan Scale: 1:3000 (Arch E)	Date: October 2025
0 90 180 Meters	Drawn By C.P./R.K. File No. 2411A
Checked By C.P./J.N.	



Section A-A1
Horizontal 1:3000
Vertical 1:500



Section B-B1
Horizontal 1:3000
Vertical 1:500



A. 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, stockpiling 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 3.
- Rehabilitation of Phase 1A shall be the first phase to be rehabilitated as it will be used for processing and stockpiling throughout the life of the operation.

B. Slopes, Grading and Drainage

- Progressive rehabilitation shall consist of backfilling the limit of extraction to the elevations shown on the plan view of this drawing with onsite topsoil, overburden, non-metallic material and/or excess soil.
- 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 uniform final slope to the east to provide passive drainage to the wetland feature.
- Excess soil, as defined in Ontario Regulation 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 Ontario Regulation 406/19 (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 Ontario Regulation 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 Ontario Regulation 244/97 (as amended from time to time), the quality, storage, and final placement of excess soil 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 Ontario Regulation 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 12,240,000 m³.

C. Natural Environment

- The following notes are a continuation of the Natural Environment Technical Recommendations noted under Section P.5 on drawing 2 of 3.
- Reptile Hibernaculum re-creation shall be constructed in the location shown on the plan view of this drawing prior to the removal of Reptile Hibernaculum 1 within Phase 3A.
- Woodland, Alvar, and Meadow Creation Areas shall be established as shown on the Rehabilitation Plan following completion of each phase of quarry extraction. Rehabilitation shall commence in Phase 1B during extraction of Phase 2. Rehabilitation of Phase 1A shall be the first phase to be rehabilitated as it will be used for processing and stockpiling throughout the life of the operation.
- The Woodland Creation Area shall be a minimum of 50.0ha in size and established according to the prescribed vegetation restoration measures.
- Alvar Creation Area shall be a minimum of 1.0ha in size and established according to the prescribed vegetation restoration measures.
- Meadow Creation Area shall be approximately 30.5ha in size and established according to the prescribed vegetation restoration measures.
- The Reptile Hibernaculum shall be created within the Meadow Creation Area in the location shown on the plan view of this drawing.
- In all restoration areas, any necessary earth movement shall be completed in advance of the commencement of local restoration works, to avoid damaging plant and seed materials.
- The Woodland Creation Area shall include the following tree species (or approved equivalents):
 - Sugar Maple (*Acer saccharum*)
 - American Beech (*Fagus grandifolia*)
 - Eastern Hemlock (*Tsuga virginiana*)
 - Largemouth Aspen (*Populus grandidentata*)
 - Balsam Poplar (*Populus balsamifera*)
 - Paper Birch (*Betula papyrifera*)
 - Eastern White Pine (*Pinus strobus*)
 - Eastern White Cedar (*Thuja occidentalis*)
 - Eastern Redcedar (*Juniperus virginiana*)
 - Bittern Yellow Birch (*Betula alleghaniensis*)
 - Northern Red Oak (*Quercus rubra*)
- The Woodland Creation Area shall include the following shrub species (or approved equivalents), and not represent more than 10% of woody materials planted:
 - Chokeberry (*Purina virginiana*)
 - Common Juniper (*Juniperus communis*)
 - Red Elderberry (*Sambucus racemosa*)
 - Allegheny-leaved Dogwood (*Cornus alleghaniensis*)
 - Wild Black Currant (*Ribes americanum*)
- The Woodland Creation Area, Meadow Creation Area and berms shall include a suitable seed mix such as TRCA-SD-4 Ontario Butterfly Meadow Mix or TRCA-SD-5 Farm Field Edge Pollinator Mix (or approved equivalents), applied at a minimum density of 25 kilograms/hectare.
- The Alvar Creation Area shall be cleared of trees and shrubs prior to any necessary soil modifications and/or application of seed mixes.
- Soil modifications shall take place, where necessary, within the Alvar Creation Area to create soil depths of generally 0-10cm, and not exceeding 15cm depth.
- The Alvar Creation Area shall include a suitable shallow-soil seed mix such as TRCA-SD-1 Frugal Dry Mix or TRCA-SD-1 Difficult Site Mix (or approved equivalent), applied at a minimum density of 25 kilograms/hectare.
- Restoration areas and berms shall include initial application of a nurse crop of Annual Oats (*Avena sativa*) for spring/summer seed mix application(s) and/or winter wheat (*Triticum aestivum*) for fall seed mix application(s), applied at a minimum density of 25 kilograms/hectare.
- Tree and shrub materials shall be planted as bare root stock or potted stock (minimum 1 gallon) at a minimum density of 2.5m on centre.
- Reptile Hibernaculum shall be created according to Best Management Practices for Managing and Creating Habitat for Ontario's Species at Risk Snakes (MNRP, 2018), specifically Step 1 through Step 4 of Section 5.1.2 Recommended Methodology for Building Hibernacula within the document.
- Natural restoration Areas shall be monitored at least once annually for at least the first two (2) years after woody plant materials are installed and seed mix materials are applied.
- A survival rate of 80% of the original number of planted stems is the recommended target after two years for each planting Area.
- If after two (2) years, dead tree/shrub material exceeds 20% in any planting Area, woody materials shall be replaced during the spring planting season of the following year to meet or exceed the 80% survival threshold.

FINAL REHABILITATION

A. General

- All equipment shall be removed from the site.
- No buildings or structures shall remain.
- Only the haul road shown on the plan view of this drawing may remain as part of final rehabilitation.
- The anticipated final end-use will be naturalized meadowlands and woodlands.

Site Plan Acronyms

- ARA - Aggregate Resources Act
- BMPP - Best Management Practices Plan
- DFO - Department of Fisheries and Oceans
- ECA - Environmental Compliance Approval
- ESC - Erosion and Sediment Control
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Legal Description

Part of Lots 2, 3 and 4, Concession C and Part Lots 3, 4 and 5, Concession D
(former geographic Township of Rama)
Township of Ramara
County of Simcoe

Legend

- | | | | |
|--|--|--|--|
| | Licence Boundary | | Existing Licence Boundary |
| | Limit of Extraction | | Existing Limit of Extraction |
| | Contours with Elevation
Metres above sea level (MASL) | | 120m Offset From Licence Boundary |
| | Public Road | | Parcel Fabric |
| | Internal Haul Road | | Fence
1.2m post & wire fence unless otherwise noted |
| | Driveway | | Entrance / Exit
Operational - Solid
Field - Hollow |
| | Watercourse
Payment
(Direction of flow indicated by arrows) | | Gate |
| | Watercourse
Intermittent
(Direction of flow indicated by arrows) | | Building/Structure |
| | Water Feature | | Berm |
| | Wooded Area | | Proposed Final Slope
(Horizontal - Vertical) |
| | Wetland | | Proposed Final Grade |
| | Proposed Woodland Creation | | Cross Sections
A1 |
| | Proposed Alvar Creation | | |
| | Proposed Meadow Creation | | |
| | Proposed Snake Hibernaculum Area | | |

Legend - Cross Sections

- | | |
|--|------------------------------------|
| | Licence Boundary |
| | Limit of Extraction |
| | Existing Grade - Removed / Altered |
| | Existing Grade - Undisturbed |
| | Maximum Predicted Water Table |
| | Pit / Quarry Floor |
| | Backfilled |
| | Lake or Pond |

Site Plan Amendments

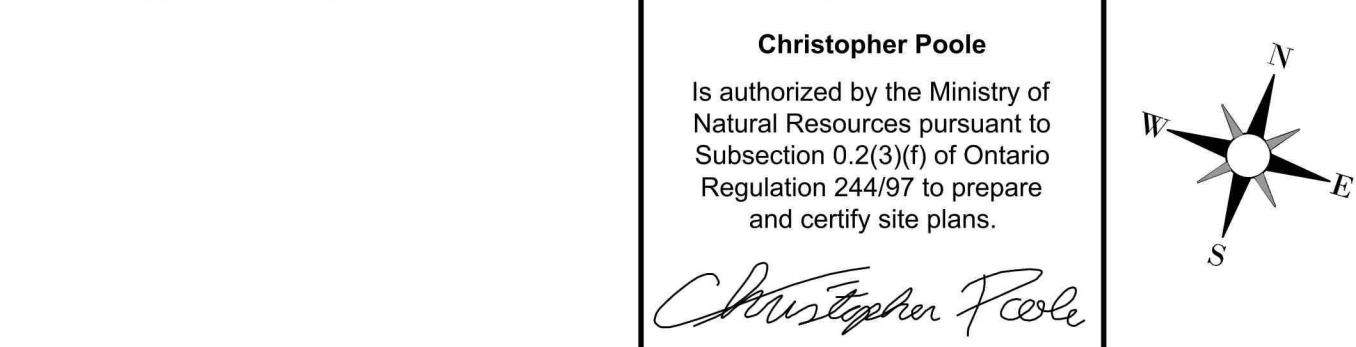
No.	Date	Description	By

Site Plan Revisions (Pre-Licensing)

No.	Date	Description	By



MNR Approval Stamp



Applicant

NRK Holding Inc.
411 Four Valley Drive, Unit # 35
Vaughan, Ontario
L4K 5Y8

Project Kingfisher North Quarry Extension

7556 Concession Road B-C, Ramara, Ontario, L3V 0K7

MNR Licence Reference No.

Plan Scale: 1:3000 (Arch E)	Applicant's Signature
0 90 180 Metres	Date: October 2025
	Drawn By: C.P. / R.K. File No. 2411A
	Checked By: C.P. / J.N.

Drawing Name

Rehabilitation Plan

Drawing No.

3 of 3

File Path

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