A. General

1. This site plan is prepared under the Aggregate Resources Act (ARA) for a Class 'A' Licence, for a pit below the established ground water table, as since extraction is proposed within 1.5 metres of the water table. Extraction on-site will remain above reach the water table but not go below it.
2. Area Calculations:
   a. Licence Area 25.6 hectares
   b. Limit of Extraction 20.8 hectares
3. All references to north, south, east and west on this site plan are based on site north (not true north).

B. References

1. Contours were derived from an October 2014 aerial survey by The Base Mapping Company Limited and are displayed in one metre intervals. Elevations shown are in metres above sea level (masl).
2. Topographic information was obtained from numerous sources including Ontario GeoHub, The Base Mapping Company Limited's October 2014 aerial survey and field investigations for technical reports.
3. All topographic features and structures are shown to scale in Universal Transverse Mercator (UTM) with North American Datum 1983 (NAD83), Zone 17 (metre), Central Meridian 81 degrees west coordinate system.
4. The licence boundary was established using Registered Plan of Survey 43R-22194 by Duncan Ashworth Surveying Limited which was deposited to the Land Registrar on May 2, 1997.
5. Existing zoning on and within 120 metres of the licence to the west and north is from Town of Caledon Zoning By-law 2006-50, Zone Maps 64 and 65, last updated August 21, 2015. The site is currently zoned Agricultural (A1). Land use designations within 120 metres of the licence to the south and east is from the Niagara Escarpment Plan, Map 4 - Regional Municipality of Peel and County of Dufferin, dated June 1, 2017.
6. Land use information and structures identified on or within 120 metres of the licence boundary was determined using October 2014 aerial photography and 2023 site visits.

C. Drainage

1. 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, or by infiltration.

D. Groundwater

1. The water table elevation on site ranges from 389.0 masl in the southeast corner to 390.4 masl in the north. The existing water table elevations are shown in each cross section on drawing 4 of 4.

E. Site Access and Fencing

1. A gated field access from Shaws Creek Road exists in the northwest corner of the site.
2. Post and wire fencing (unless noted otherwise) exists in the locations shown on the plan view.

F. Aggregate Related Site Features

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

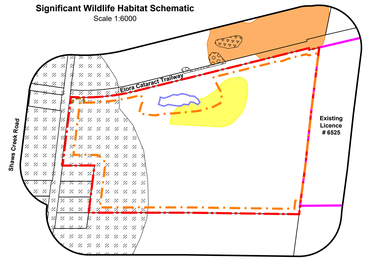
G. Cross Sections

1. Cross sections depicting existing conditions are shown on drawing 4 of 4.
2. Cross sections depicting post rehabilitation conditions are shown on drawing 4 of 4.
3. Cross section locations are identified on the plan view of drawings 1, 2 and 3 of 4 and in the cross section key map on drawing 4 of 4.

H. Technical Reports - References

1. Stage1, 2 and 3 Archaeological Assessment, Pit 3 Extension, Golder Associates Limited, March 23, 2017.
2. Agricultural Impact Assessment, Lafarge Canada Inc. Pit 3 Extension, MacNaughton Hermsen Britton Clarkson (MHBC) Planning Limited, February 2024.
3. Air Quality Assessment of the Proposed Pit 3 Extension, Arcadis Canada Inc., February 2024.
4. Cultural Heritage Survey, Lafarge Canada Inc. Pit 3 Extension, MacNaughton Hermsen Britton Clarkson (MHBC) Planning Limited, February 2024.
5. Level 1 and 2 Hydrogeology and Hydrology Report, Proposed Lafarge Pit 3 Extension, WSP Canada Inc., February 2024.
6. Maximum Predicted Water Table Elevation Technical Memorandum, Proposed Lafarge Pit 3 Extension, WSP Canada Inc., February 2024.
7. Noise Impact Assessment, Proposed Lafarge Pit 3 Extension, HGC Engineering, February 2024.
8. Transportation Impact Study, Lafarge Pit 3 Extension, Paradigm Transportation Solutions Limited, March 2024.
9. Visual Impact Report, Pit 3 Extension, MacNaughton Hermsen Britton Clarkson (MHBC) Planning Limited, February 2024.
10. Natural Environment Technical Report, Pit 3 Extension, Goodban Ecological Consulting (GEC) Inc., April 2024.

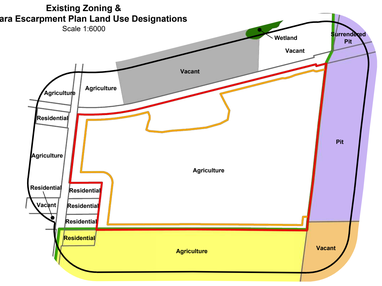
Significant Wildlife Habitat Schematic
Scale 1:6000



Legend
- Barn Swallow Category 3 Habitat
- Sprengel's Sedge Habitat
- Wood's Sedge Habitat
- Grasshopper Sparrow Habitat
- Eastern Wood-Pewee Habitat
- Orchard Oriole Habitat

Note:
Wetlands and significant woodlands are not depicted in the schematic since they are shown on the plan view of each drawing.

Existing Zoning & Niagara Escarpment Plan Land Use Designations
Scale 1:6000

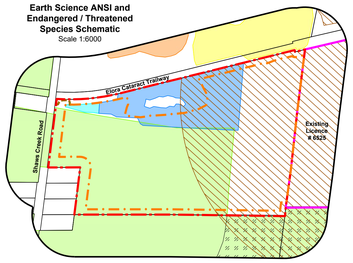


General
- Licence Boundary
- Limit of Extraction
- NEP Boundary

Town of Caledon Zoning By-law 2006-50
- Agricultural (A1)
- Extractive Industrial (MX)
- Environmental Policy Area 2 (EPA2)

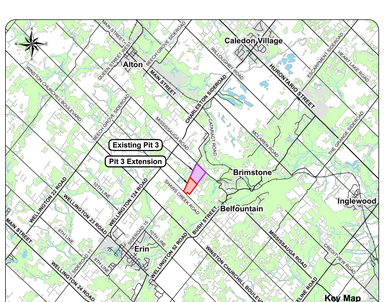
Niagara Escarpment Plan - Land Use Designation
- Escarpment Rural Area
- Escarpment Protection Area
- Mineral Resource Extraction Area

Earth Science ANSI and Endangered / Threatened Species Schematic
Scale 1:6000



Legend
- Bobolink
- Bobolink and Eastern Meadowlark
- Least Bittern
- Northern Myotis / Red-headed Woodpecker
- Bank Swallow Category 3 Habitat
- Earth Science ANSI - 2013 MNRF Report
- Earth Science ANSI - LIO





Legal Description

Part of Lot 13, Concession 5 West Side of Centre Road or Communication Street
Geographic Township of Caledon
Town of Caledon
Region of Peel

Legend
- Licence Boundary
- Limit of Extraction
- Contours with Elevation — Metres above sea level (MASL)
- Public Road
- Field Access Road
- Trail
- Water Feature
- Wooded Area
- Unevaluated Wetland — Mapped by GEC
- Unevaluated Wetland — Mapped by MNRF
- Provincially Significant Wetland - Mapped by MNRF
- Significant Woodland — Boundary - Solid; 10 Metre Offset from Boundary - Dashed
- Existing Pit 3 Licence Boundary (Licence # 6525)
- Existing Pit 3 Limit of Extraction (Licence # 6525)
- 120m Offset From Licence Boundary
- Parcel Fabric — Owned by Applicant (thick line); Owned by Others (thin line)
- Fence — 1.2m post & wire fence unless otherwise noted
- Entrance / Exit — Field Access
- Gate
- Direction of Surface Drainage
- Building/Structure
- Site Plan Amendment — Area Subject to Separate Site Plan Amendment to Reduce Setback to Zero Metres
- Cross Sections

Site Plan Acronyms

1. ARA - Aggregate Resource Act
2. MNRF - Ministry of Natural Resources and Forestry
3. MHSTCI - Ministry of Heritage, Sport, Tourism and Culture Industries
4. MGCS - Ministry of Government and Consumer Services
5. MECP - Ministry of the Environment, Conservation and Parks
6. ANSI - Area of Natural and Scientific Interest
7. ESC - Erosion and Sedimentation Control
8. BMP - Best Management Plan
9. MASL - Metres above sea level
10. LIO - Land Information Ontario
11. GEC - Goodban Ecological Consulting

Site Plan Amendments

No.	Date	Description	By

Site Plan Revisions (Pre-Licencing)

No.	Date	Description	By
1.	May 2026	Updated the site plan per agency and peer review comments	C.P.

MHBC PLANNING URBAN DESIGN & LANDSCAPE ARCHITECTURE
113 COLLIER STREET, BARRIE, ON. L4M 1H2 | P: 705.728.0045 F: 705.728.2010 | WWW.MHBCPLAN.COM

MHBC Stamp
Brian Zeman
Is authorized by the Ministry of Natural Resources and Forestry pursuant to Section 0.2(3)(e) of Ontario Regulation 244/97 to prepare and certify site plans.
DRAFT

MHBC Stamp
Christopher Pidgeon
Is authorized by the Ministry of Natural Resources and Forestry pursuant to Section 0.2(3)(f) of Ontario Regulation 244/97 to prepare and certify site plans.
DRAFT

Site North
True North

Applicant

Lafarge Amrize Canada Inc.
6509 Airport Road
Mississauga, Ontario
L4V 1S7
Phone: (905) 738-7070
Fax: (905) 738-0224

Project
Pit 3 Extension
1782903 Shaws Creek Road, Caledon, Ontario

MNRF Licence Reference No. 626639

Applicant's Signature

Plan Scale: 1:1250 (Arch E)
0 40 80 Meters

Date April 2024 May 2026
Drawn By C.P.
Checked By B.Z.
File No. 9526CO

Drawing Name
Existing Features

Drawing No.
1 of 4

File Path B:\Brian\9526CO Lafarge - Pit 3 Extension\Drawings\ARA Site Plans\Extension\CAD\9526CO - Extension - Site Plan.dwg

A. General

1. Area Calculations:
   a. Licence Area 25.6 hectares
   b. Limit of Extraction 20.8 hectares
2. The maximum annual tonnage is 1,000,000 tonnes.
3. No buildings or structures (including a scale and scale house) are proposed.
4. The water table elevation on site ranges from 389.0 masl in the southeast corner to 390.4 masl in the north. The existing water table elevations are shown in each cross section on drawing 4 of 4.
5. The licence boundary is located within the Credit Valley Source Protection Plan Area. The licence boundary is not located within a Wellhead Protection Area or a Surface Water Intake Protection Zone. Therefore, surface source water protection policies do not apply for this licence site.
6. Agricultural production may shall continue in areas not currently under extraction, for as long as realistically possible.

B. Hours of Operation

1. Extraction and processing is permitted Monday to Saturday from 7:00am to 7:00pm excluding statutory holidays.
2. Shipping is permitted Monday to Saturday from 6:00am to 7:00pm excluding statutory holidays (see Noise note "i" under Section M Report Recommendations for additional requirements).
3. Site preparation and rehabilitation is permitted Monday to Friday from 7:00am to 7:00pm excluding statutory holidays.

C. Site Access and Fencing

1. The existing gated field access on Shaws Creek Road may shall be utilized for monitoring and agricultural purposes, shall be kept closed during hours of non-operation, and shall be maintained throughout the life of the licence. Aggregate trucks shall not be permitted to access the site at this location. The perimeter berm may have an opening, up to five metres wide, at the location identified on the plan view of this drawing to permit agricultural equipment access during Phases 1 to 3. Prior to extraction commencing in Phase 4, this opening shall be closed so the berm is continuous in height.
2. The site shall be accessed through the common licence boundary with existing Pit 3 licence #6525 and no gate shall be required (see Section N Variations from Control and Operation Standards). The location shown on the plan view of this drawing is approximate only and may occur anywhere on the common licence boundary during the life of the operation.
3. Portions of the north, west and south licence boundary that are not currently fenced shall be fenced with post and wire fencing, at least 1.2 metres in height, prior to site preparation commencing.
4. Fencing shall not be required where the licence abuts existing Pit 3 licence #6525 (see Section N Variations from Control and Operation Standards) and will be delineated with marker posts every 30 metres.
5. All fencing shall be maintained for the life of the extraction operation.

D. Drainage

1. Drainage of undisturbed areas will continue in the directions shown on drawing 1 of 4.

E. Site Preparation

1. Prior to site preparation, a Spills Contingency Plan shall be developed to address any potential spills from equipment on-site.
2. Tree removal shall only be permitted between December 1st and March 14th.
3. Timber resources will be salvaged for use as saw logs, fence posts and fuel wood where appropriate. Non-merchantable timber, stumps, root wads and brush will be used in rehabilitation where feasible, for aquatic habitat enhancement or mulched for use in progressive rehabilitation in this licence or existing Pit 3 licence #6525.
4. Prior to stripping, silt fencing shall be installed in the locations shown on the plan view of this drawing (see Natural Environment notes "k.", "l" and "u" in Section M Report Recommendations).
5. Piles of weathered field stones along old fence lines shall be salvaged and repurposed as rock piles in reforestation areas (see Natural Environment note "h" in Section M Report Recommendations).
6. Topsoil and overburden shall be stripped and stored separately.
7. Stripping of the grassland in Phases 1B, 3 and 4 shall not occur between April 5th and August 27th (see Natural Environment note "f" in Section M Report Recommendations). This restriction does not apply to the hedgerow and agricultural areas.
8. Topsoil and overburden shall be placed in berms or used immediately for progressive rehabilitation in this licence or adjacent licence #6525 (see Section N Variations from Control and Operation Standards).
9. Excess topsoil and overburden not required for immediate use in berms or rehabilitation in this licence or adjacent licence # 6525 shall may be temporarily stockpiled on the pit floor. Topsoil and overburden stockpiles shall be located within the limit of extraction and remain a minimum of 30 metres from the licence boundary (except where the licence boundary abuts existing Pit 3 licence #6525 (see Section N Variations from Control and Operation Standards) and 90 metres from a property with a residential use.
10. Temporary topsoil and overburden stockpiles which remain for more than one year shall have their slopes vegetated to control erosion. Seeding shall not be required if these stockpiles have vegetated naturally in the first year. Vegetation on topsoil and overburden stockpiles shall be adequately established and maintained to control erosion.

F. Berms and Screening

1. A berm shall be constructed to the elevation specified in the location shown on the plan view of this drawing prior to extraction/processing operations. As soon as the berm is constructed, the tree and shrub planting, as required in notes M.3.c and M.3.d, shall be completed within one year of berm construction.
2. Berm side slopes shall not exceed 1.5:1 on the interior and 2:1 on the exterior.
3. The berm shall be constructed in a smooth, rolling manner with varying highpoints (respecting the minimum height requirements) and variations along the berm frontage to create a more natural appearance.
4. The berm shall not be located within three metres of the licence boundary.
5. The berm shall be seeded with a naturalizing mix of wildflowers and grasses to stabilize slopes and minimize mowing and maintenance.
6. The berm shall be maintained throughout the operational life of the pit to ensure adequate vegetation to control erosion.
7. Due to a deficit of topsoil and overburden on-site, and to ensure agricultural production continues for the longest extent possible, the perimeter berm shall be constructed using on-site material and/or imported excess soil. The amount of excess soil required to construct the perimeter berm shall be recorded and deducted from the total amount permitted for importation for rehabilitation purposes, as provided in note C.7 on drawing 3 of 4.
8. Existing vegetation within the setbacks shall be maintained except where the noise attenuation berm is required.
9. See Visual notes "c" to "f" under Section M Report Recommendations for additional screening requirements.

G. Site Dewatering

1. The licensee is not permitted to actively dewater the site. However, to avoid minor pit floor flooding during periods of highwater table and wet climatic events, a spillway into existing licence #6525 may be constructed.

H. Extraction Sequence

1. Extraction shall occur in 4 phases (Phases 1A, 1B, 2A, 2B, 2C, 3 and 4) as shown on the plan view of this drawing. Extraction shall occur in accordance with the sequential Phasing. Two phases may be extracted simultaneously to accommodate the transition between phases.
2. Rehabilitation shall commence in Phase 2CB once final extraction limits and depths are reached and then proceed to Phases 2C, 3 and 4. Phases 1A, 1B, and 2A and 2B will be the final areas to commence progressive rehabilitation as rehabilitated since they are required for site processing and stockpiling for the duration of the operational life of the pit. The maximum disturbed area for this site is 21.0 hectares. The maximum disturbed area includes berms, stripping, active extraction and areas being progressively rehabilitated. Vegetation shall be planted within one year of final rehabilitation grades being achieved in each phase in accordance with the planting requirements outlined on drawing 3 of 4.
3. Phase 1A
   a. Prepare Phase 1A for extraction and ensure all requirements in Sections 'C' through 'G' of this drawing are met.
   b. Strip Phase 1A and construct berms. Should there be insufficient topsoil and overburden in Phase 1A to construct berms, only the amount of material required to complete the berms may shall be stripped from Phase 1B or subsequent Phases in chronological order. To minimize the area stripped, the licensee may import excess soil to construct the berm.
   c. Extract Phase 1A by commencing at the common boundary with existing Pit 3 licence #6525 and proceeding in a westerly direction.
   d. All extraction, processing and transportation equipment operating within this Phase shall comply with the restrictions identified in Noise notes "e", "k" and "l" under Section M Report Recommendations.
   e. Phase 1A may be extracted to a maximum depth between 389.5 and 390.1 masl.
   f. Prepare Phase 1B for extraction and ensure all requirements in Sections 'C' through 'G' of this drawing are met.
   g. Initial processing of aggregate may occur at existing grades following stripping while Phase 1A is being extracted. Once enough area on the pit floor is available, the processing plant shall be relocated to the pit floor.
4. Phase 1B
   a. Strip Phase 1B and use the material for progressive rehabilitation in existing Pit 3 licence #6525 or stockpile in this licence for future rehabilitation.
   b. Extract Phase 1B in a westerly direction from Phase 1A.
   c. All extraction, processing and transportation equipment operating within this Phase shall comply with the restrictions identified in Noise notes "e", "k" and "l" under Section M Report Recommendations.
   d. Phase 1B shall may be extracted to a maximum depth between 389.8 and 390.2 masl.
   e. Prepare Phase 2A for extraction and ensure all requirements in Sections 'C' through 'G' of this drawing are met.
5. Phase 2A
   a. Strip Phase 2A and use the material for progressive rehabilitation in existing Pit 3 licence #6525 or stockpile in this licence for future rehabilitation.
   b. Prior to extraction commencing in Phase 2A, the two amphibian breeding pools shall be constructed within the north setback adjacent to Wetland U3 (see Natural Environment notes "j", "k", "l" and "m" under Section M Report Recommendations).
   c. Extract Phase 2A in a southerly direction from Phase 1A.
   d. All extraction, processing and transportation equipment operating within during this Phase shall comply with the restrictions identified in Noise notes "e", "k" and "l" under Section M Report Recommendations.
   e. Phase 2A shall may be extracted to a maximum depth between 389.0 and 389.8 masl.
   f. Prepare Phase 2B for extraction and ensure all requirements in Sections 'C' through 'G' of this drawing are met.
6. Phase 2B
   a. Strip Phase 2B and use the material for progressive rehabilitation in existing licence #6525 or stockpile the material in this licence or Pit 3 licence #6525 for future rehabilitation of this site.
   b. Extract Phase 2B in a westerly direction from Phase 2A.
   c. All extraction, processing and transportation equipment operating within during this Phase shall comply with the restrictions identified in Noise notes "d", "g", "k" and "l" under Section M Report Recommendations.
   d. Phase 2B shall may be extracted to a maximum depth between 389.0 and 389.9 masl.
   e. Prepare Phase 2C for extraction and ensure all requirements in Sections 'C' through 'G' of this drawing are met.
7. Phase 2C
   a. Strip Phase 2C and use the material for progressive rehabilitation in Phase 2B and/or existing licence #6525 stockpile the material in this licence or Pit 3 licence #6525 for future rehabilitation of this site.
   b. Extract Phase 2C in a westerly direction from Phase 2B.
   c. All extraction, processing and transportation equipment operating within during this Phase shall comply with the restrictions identified in Noise notes "d", "h", "k" and "l" under Section M Report Recommendations.
   d. Phase 2C shall may be extracted to a maximum depth between 389.2 and 390.3 masl.
   e. Prepare Phase 3 for extraction and ensure all requirements in Sections 'C' through 'G' of this drawing are met.
8. Phase 3
   a. Strip Phase 3 and use the material for progressive rehabilitation in Phases 2B, 2C and/or existing licence #6525 stockpile the material in this licence for future rehabilitation. Prior to extraction commencing, progressive rehabilitation of Phase 2C shall commence.
   b. Extract Phase 3 in a westerly direction from Phase 2C.
   c. All extraction, processing and transportation equipment operating within during this Phase shall comply with the restrictions identified in Noise notes "d", "i", "k" and "l" under Section M Report Recommendations.
   d. Phase 3 shall may be extracted to a maximum depth between 389.2 and 390.3 masl.
   e. Prepare Phase 4 for extraction and ensure all requirements in Sections 'C' through 'G' of this drawing are met.
9. Phase 4
   a. Strip Phase 4 and use the material for progressive rehabilitation in Phases 2B, 2C and 3 and/or existing licence #6525 to establish final rehabilitation grades in Phases 2C or 3 to restore agricultural conditions on-site. Prior to extraction commencing, progressive rehabilitation shall be on-going in Phase 2C and shall commence in the southern half of Phase 3.
   b. Extract Phase 4 in a northerly direction from Phases 2C and 3.
   c. All extraction, processing and transportation equipment operating within during this Phase shall comply with the restrictions identified in Noise notes "d", "i", "k" and "l" under Section M Report Recommendations.
   d. Phase 4 shall may be extracted to a maximum depth between 389.8 and 390.4 masl.

I. Extraction Details

1. The maximum depth of extraction is 15 metres and varies by phase as shown by the spot elevations on the plan view of this drawing. The site shall be extracted in one lift and comply with Ministry of Labour Requirements.
2. Extraction shall be permitted in two Phases simultaneously to allow for transition between phases.
3. Extraction shall occur concurrently with existing Pit 3 licence #6525.
4. Aggregate stockpiles (including recyclable material asphalt and concrete) shall be located within Phases 1A, 1B, 2A and 2B the limit of extraction and remain a minimum of 30 metres from the licence boundary (except where the licence boundary abuts existing Pit 3 licence #6525 - see Section N Variations from Control and Operation Standards) and 90 metres from a property with a residential use.
5. Internal haul road locations will vary as extraction progresses and be located on the pit floor will be limited to the extraction area and shall not be located within the setback areas.

J. Equipment and Processing

1. Equipment used on-site shall include excavators, production loaders/excavators, shipping loaders/excavators, wheeled scrapers, mobile crushers, mobile screeners, feed bins, conveyors, stackers, fuel trucks, water trucks and highway trucks. See Noise notes under Section M Report Recommendations for additional information.
2. All processing equipment shall be portable, located in Phases 1A and 1B and adhere to the Noise notes under Section M Report Recommendations.
3. Temporary structures on-site may include construction trailers and shipping containers incidental to the aggregate operation.
4. All processing equipment and temporary structures shall remain 30 metres from the licence boundary (except where the licence boundary abuts existing Pit 3 licence #6525 - see Section N Variations from Control and Operation Standards) and 90 metres from a property with a residential use.
5. Material from this licence shall be processed in this licence.
6. Berms that encroach within the limit of extraction shall be removed, and the underlying aggregate may be extracted, as part of the final extraction/rehabilitation of the site.

K. Fuel Storage

1. No fuel shall be stored on-site.
2. Fuel trucks may be used to transfer fuel to on-site equipment in accordance with the Liquid Fuels Handling Code.
3. A Spills Contingency Plan shall be prepared and implemented prior to site preparation. The Spills Contingency Plan shall be available on-site and all employees and contractors shall be informed and required to comply with this plan.

L. Scrap and Recycling

1. Importation of Aggregate
   1.1. All imported aggregate shall be used solely for the purpose of blending with on-site material for resale.
   1.2. The quantity of imported aggregate removed from the site each year shall be tracked and reported on the return made under section 14.1 of the Act or subsection 46 (2) of the Act.
   1.3. The quantity of imported aggregate removed from the site each year shall count toward the total amount of aggregate that the licensee is entitled to remove from the site under licence.
2. Scrap may be stored on-site and shall be removed on an on-going basis.
3. Scrap shall only include material generated directly as a result of the aggregate operation such as refuse, debris, scrap metal, lumber, discarded machinery, equipment and motor vehicles.
4. All fluids shall be drained from any discarded equipment, machinery or motor vehicle prior to storage and disposed of in accordance with the Environmental Protection Act.
5. Scrap shall not be stored within 30 metres of any body of water or the licence boundary (see Section N Variations from Control and Operation Standards) and shall be kept in close proximity to the processing plant in Phases 1A and 1B in this licence.
6. Recycling of asphalt and concrete shall be permitted on-site.
7. Asphalt and concrete shall be kept in close proximity to the processing plant and stockpile areas in Phases 1A, 1B, 2A and 2B on this licence. Recyclable asphalt materials shall not be stockpiled within:
8. Asphalt shall not be stockpiled within:
   a. 30 metres of any waterbody or man-made pond; or
   b. 2 metres of the established groundwater table
9. Asphalt and concrete Recyclable material shall be kept in close proximity to the processing plant in this licence.
10. Rebar or other structural metal shall be separated from the asphalt and concrete recyclable aggregate material during processing and placed in a designated scrap pile on-site which shall be removed on an on-going basis.
11. Recycled aggregate shall be removed on an on-going basis.
12. Recycling activities shall not interfere with the operational phases of the site or with rehabilitation.
13. Once the site is depleted, no further importation of asphalt and concrete recyclable material shall be permitted.
14. Once final rehabilitation has been completed and approved in accordance with the site plan, all recycling operations shall cease.
15. The site shall be kept in an orderly condition.

M. Report Recommendations

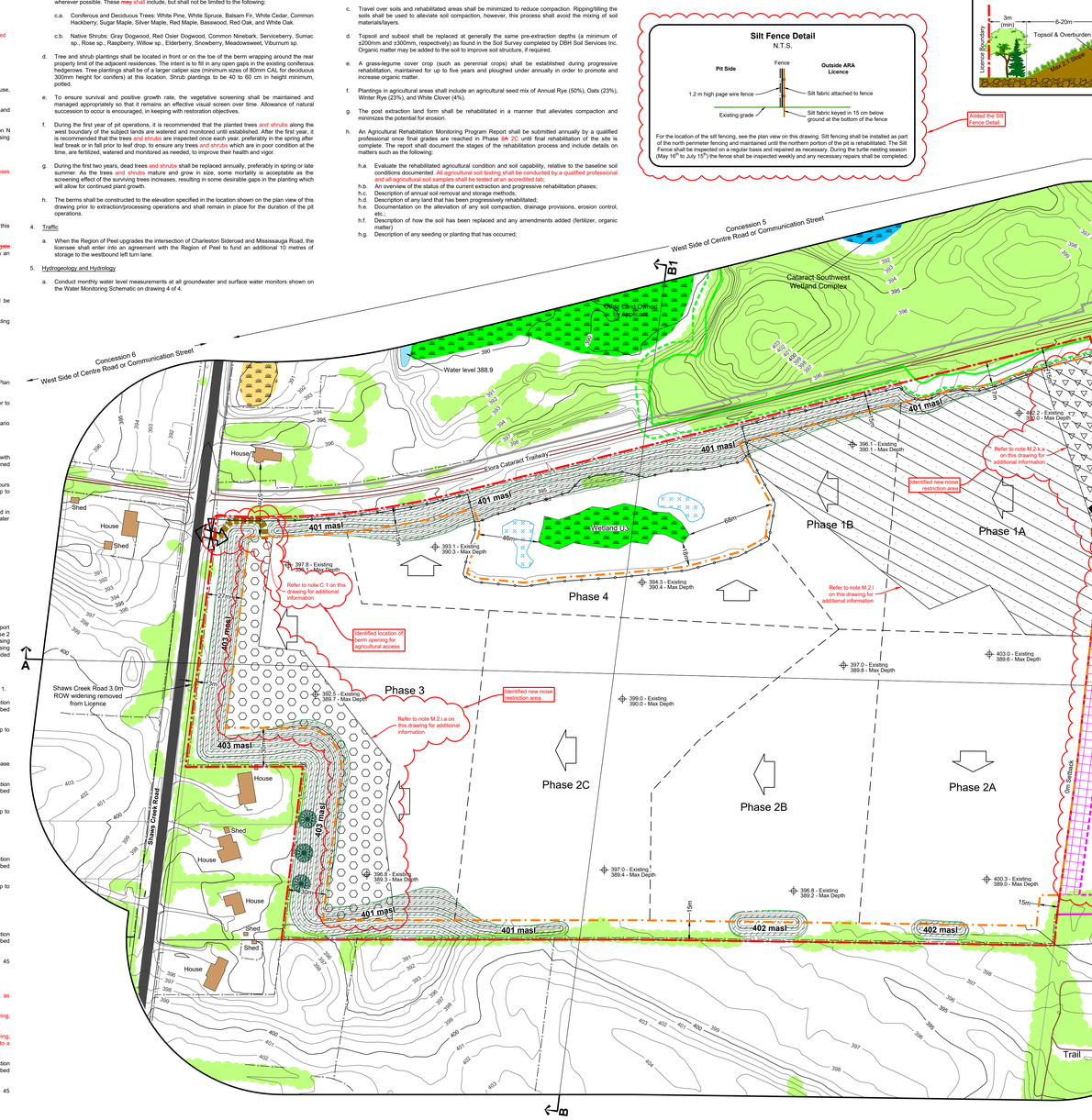
1. Air Quality
   a. Dust mitigation activities on site shall meet or exceed those specified in the Best Management Plan (BMP) or any subsequent version of the Dust Management Plan.
   b. Ensure that the perimeter berms and surrounding areas are sufficiently vegetated to act as a barrier to dust transport.
   c. Comply with the dust control requirements stipulated in the Ontario Aggregate Resources Act (Ontario Regulation 244/97 under Aggregate Resources Act).
2. Noise
   a. Prior to commencement of extraction/processing within the Pit 3 Extension, perimeter berms with heights and extents, as shown on the plan view of this drawing, shall be erected and maintained throughout the operational life of the pit.
   b. All material extraction and processing within the Pit 3 Extension shall be restricted to daytime hours only (7:00 am to 7:00 pm). Shipping activities, consisting of one shipping loader/excavator and up to 45 shipping trucks per hour, shall may take place only between 6:00 am and 7:00 pm.
   c. Extraction, processing and transport equipment employed within the pit shall be limited as outlined in the noise recommendations noted below (including quantities), with sound emission levels not greater than specified in the following Table:

Equipment Reference Sound Emission Levels (dBA)		
Source	***Sound Power Level***	***Sound Pressure Level at 30 m***
Mobile Crusher	117	79
Mobile Screener	117	79
Production Loaders/excavators	111	73
Shipping Loader/excavator	109	71
Onsite Trucks	102	64
Conveyors	73 (per metre)	Not Applicable

   d. Highway trucks, conveyors, or any acoustically equivalent means shall may be employed to transport unprocessed materials extracted from Phases 2, 3 or 4 to stockpiles within Phase 1 or within Phase 2 along the border of Phase 1, provided that the production loader/excavator (servicing the processing equipment as described below) used to transfer material from these stockpiles to the processing equipment within Phase 1 operates on the north/west sides of the stockpiles, such that it is shielded from the homes to the south.
   e. During Extraction in Phase 1
      e.a. Up to two production loaders/excavators (for extraction) may operate anywhere within Phase 1.
      e.b. One mobile crusher or one mobile screener (not both), serviced by one production loader/excavator, may operate anywhere within Phase 1, with localized shielding as described below.
      e.c. One shipping loader/excavator may operate anywhere within Phase 1, 2A or 2B, loading up to 45 shipping trucks per hour.
   f. During Extraction in Phase 2A
      f.a. Up to two production loaders/excavators (for extraction) may operate anywhere within Phase 2A.
      f.b. One mobile crusher or one mobile screener (not both), serviced by one production loader/excavator, may operate anywhere within Phase 1, with localized shielding as described below.
      f.c. One shipping loader/excavator may operate anywhere within Phase 1, 2A or 2B, loading up to 45 shipping trucks per hour.
   g. During Extraction in Phase 2B
      g.a. One production loader/excavator (for extraction) may operate anywhere within Phase 2B.
      g.b. One mobile crusher or one mobile screener (not both), serviced by one production loader/excavator, may operate anywhere within Phase 1, with localized shielding as described below.
      g.c. One shipping loader/excavator may operate anywhere within Phase 1, 2A or 2B, loading up to 45 shipping trucks per hour.
   h. During Extraction in Phase 2C
      h.a. One production loader/excavator (for extraction) may operate anywhere within Phase 2C.
      h.b. One mobile crusher or one mobile screener (not both), serviced by one production loader/excavator, may operate anywhere within Phase 1A, with localized shielding as described below.
      h.c. One shipping loader/excavator may operate anywhere within Phase 1A, loading up to 45 shipping trucks per hour.
   i. During Extraction in Phase 3
      i.a. One production loader/excavator (for extraction) may operate anywhere within Phase 3, as follows:
         i.a.a. Outside the area on the west side of Phase 3 as noted on the plan view of this drawing, without restriction.
         i.a.b. Inside the area on the west side of Phase 3 as noted on the plan view of this drawing, provided the equipment sound power level is no greater than 107 dBA (equivalent to a sound pressure level of 69 dBA at 30 metres).
      i.b. One mobile crusher or one mobile screener (not both), serviced by one production loader/excavator, may operate anywhere within Phase 1A, with localized shielding as described below.
      i.c. One shipping loader/excavator may operate anywhere within Phase 1A, loading up to 45 shipping trucks per hour.
   j. During Extraction in Phase 4
      j.a. One production loader/excavator (for extraction) may operate anywhere within Phase 4.
      j.b. One mobile crusher or one mobile screener (not both), serviced by one production loader/excavator, may operate anywhere within Phase 1A, with localized shielding as described below.
      j.c. One shipping loader/excavator may operate within Phase 1A, loading up to 45 shipping trucks per hour.
   k. Localized Shielding for Mobile Crusher/Screener
      k.a. When in operation, The mobile crusher/screener and supporting production loader/excavator must be shielded by an U-shaped obstruction (e.g. material stockpile) on the east, south, and west sides that breaks the line-of-sight between the equipment and surrounding receptors R1 through R7, R9 and R10 (as shown on the Points of Reception Key Map on this drawing) as follows:
         k.a.a. R1 through R10 during operation of the mobile crusher/screener and supporting production loader/excavator inside the area in the northeast corner of Phase 1A as noted on the plan view of this drawing.
         k.a.b. R1 through R7, R9 and R10 during operation of the mobile crusher/ screener and supporting production loader/excavator outside the area in the northeast corner of Phase 1A as noted on the plan view of this drawing.
   l. In addition to the operating scenarios detailed above, one crusher and one screen (and two production loaders/excavators) can operate during the same hour, for the majority of Phase 1, as shown on the plan view of this drawing, along with shipping from Phases 1A/1B/2A/2B and crushing or screening in licence #6525, provided that no extraction activity takes place within this licence.
   m. Whenever possible, extraction and processing equipment shall be located as close as possible to working faces in order to maximize acoustical shielding.
   n. An updated Noise Impact Assessment, prepared by a qualified acoustical consultant, shall be submitted to the MNRF within 12 months following t-ehange the applicant receiving notification of a building permit issued for a noise-sensitive use on the property designated herein as VL1 (as shown on the Points of Reception Key Map on this drawing). If the updated study concludes that the sound levels of licence #6525 and/or this licence do not comply with the applicable limits, the report must include the following:
      n.a. Details regarding the noise control measures required to reduce the sound levels of licence #6525 and/or this licence to ensure compliance with the applicable limits.
      n.b. A timetable for implementation of the noise control measures, including dates for achieving compliance with specific milestones; and
      n.c. A timetable for submitting further assessments to demonstrate compliance with the applicable sound level limits at the property designated herein as VL1 (as shown on this drawing).
   o. All mobile construction equipment used to prepare for, rehabilitate, or maintain the operations in the pit shall produce sound levels which comply with the Ministry of Environment, Conservation and Parks (MECP) Guidelines NPC-115, "Sound Levels Due to Construction Equipment".
   p. Any proposed changes to the aspects of the extraction, processing and shipping operations detailed above as relating to noise control shall be reviewed by a qualified acoustical consultant for compliance with the relevant noise criteria.
   q. It is recognized that advancements of equipment or different configurations may allow additional equipment to be substituted for existing equipment while still meeting MECP guidelines. Variations may be permitted to these noise controls, provided that the revision still meets MECP guidelines as confirmed through documentation by a professional engineer. Prior to modification, notification shall be given to MNRF.
3. Visual
   a. Existing vegetation within the setbacks shall be maintained except where the noise attenuation berm is required, located along the perimeter and within the setback area shall be retained where possible.
   b. Visual berms shall be installed as per the typical berm detail and berm requirements noted on this drawing. Berms shall be constructed in a smooth, rolling manner (respecting minimum height requirements for noise) along the berm frontage to create a more natural appearance. Berms shall be seeded with a naturalizing mix of wildflowers and grasses to stabilize slopes and minimize mowing and maintenance.
   c. Trees shall be planted in certain view locations shown on the plan view of this drawing at 5 to 10 m on centre spacing, depending on species, in groupings. Shrubs shall be planted at 1.5 to 3 m on centre spacing, depending on species, in groupings between and in front of trees. The ratio shall be approximately 8 to 10 shrub plantings per tree installed at 40 to 60 cm minimum height, potted (or bare root, depending on season). Plantings are to be randomly spaced and staggered to appear more natural, where possible. All vegetation shall be selected for wind and salt tolerance, and hardiness. Where appropriate, native species that complement the existing surroundings shall be utilized wherever possible. These may shall include, but shall not be limited to, the following:
      c.a. Coniferous and Deciduous Trees: White Pine, White Spruce, Balsam Fir, White Cedar, Common Hackberry, Sugar Maple, Silver Maple, Red Maple, Basswood, Red Oak, and White Oak.
      c.b. Native Shrubs: Gray Dogwood, Red Osier Dogwood, Common Ninebark, Serviceberry, Sumac sp., Rose sp., Raspberry, Willow sp., Elderberry, Snowberry, Meadowsweet, Viburnum sp.
   d. Tree and shrub plantings shall be located in front or on the toe of the berm wrapping around the rear property limit of the adjacent residences. The intent is to fill in any open gaps in the existing coniferous hedgerows. Tree plantings shall be of a larger caliper size (minimum sizes of 80mm CAL for deciduous 300mm height for conifers) at this location. Shrub plantings to be 40 to 60 cm in height minimum, potted.
   e. To ensure survival and positive growth rate, the vegetative screening shall be maintained and managed appropriately so that it remains an effective visual screen over time. Allowance of natural succession to occur is encouraged, in keeping with restoration objectives.
   f. During the first year of pit operations, it is recommended that the planted trees and shrubs along the west boundary of the subject lands are watered and monitored until established. After the first year, it is recommended that the trees and shrubs are inspected once each year, preferably in the spring after leaf break or in fall prior to leaf drop, to ensure any trees and shrubs which are in poor condition at the time are fertilized, watered or replaced as necessary to promote their health and vigor.
   g. During the first two years, dead trees and shrubs shall be replaced annually, preferably in spring or late summer. As the trees and shrubs mature and grow in size, some mortality is acceptable as the screening effect of the surviving trees increases, resulting in some desirable gaps in the planting which will allow for continued plant growth.
   h. The berms shall be constructed to the elevation specified in the location shown on the plan view of this drawing prior to extraction/processing operations and shall remain in place for the duration of the pit operations.
4. Traffic
   a. When the Region of Peel upgrades the intersection of Charleston Sideroad and Mississauga Road, the licensee shall enter into an agreement with the Region of Peel to fund an additional 10 metres of storage to the westbound left turn lane.
5. Hydrogeology and Hydrology
   a. Conduct monthly water level measurements at all groundwater and surface water monitors shown on the Water Monitoring Schematic on drawing 4 of 4.
   b. Conduct monthly groundwater temperature profiling at the following groundwater wells 07-DH-154, 07-DH-160, 07-DH-169, MW16-1A / MW16-1B, and MW16-2 as shown on the Water Monitoring Schematic on drawing 4 of 4.
   c. Conduct annual water quality sampling at the following wells 07-DH-154, 07-DH-160, 07-DH-169, MW16-1A / MW16-1B, and MW16-2 as shown on the Water Monitoring Schematic on drawing 4 of 4. Tested parameters shall include inorganics including metals and petroleum hydrocarbons (F1 - F4); volatile organic compounds (VOCs); and microbiology (E.Coli and Total Coliforms).
   d. No fuels, oils, or potentially hazardous materials, shall be stored on-site. A Best Management Plan shall be developed to address any potential spills from equipment on-site.
   e. During periods of high water table (for example early spring), temporary flooding may occur within the pit floor. A contingency measure such as a spillway into the adjacent licence #6525, may be implemented during Operations to avoid minor pit floor flooding that might occur during wet climatic events. Prior to extraction commencing conduct baseline water quality sampling at the following wells 07-DH-154, 07-DH-160, 07-DH-169, MW16-1A, / MW16-2 as shown on the Water Monitoring Schematic on drawing 4 of 4. Tested parameters shall include inorganics including metals and petroleum hydrocarbons (F1 - F4).
   f. ~~No livestock operations shall be permitted.~~
   g. Best Management practices shall be implemented with respect to the storage and application of fertilizers and pesticides.
6. Cultural Heritage
   a. There are no direct or indirect impacts to cultural heritage landscapes or built heritage resources.
7. Archaeology
   a. Should deeply buried archeology remains be found during the course of site preparation and/or extraction related activities, the Ministry of Heritage, Sport, Tourism and Culture Industries (MHSTCI) shall be notified.
   b. In the event that human remains are encountered during construction or extraction activities associated with the development proposal, the licensee shall immediately contact both the MHSTCI and the Registrar or Deputy Registrar of the Cemeteries Regulation Unit of the Ministry of Government and Consumer Services (MGCS).
8. Maximum Predicted Water Table
   a. The water table is established based on the May 31, 2019 monitoring event and ranges from approximately 390.4 masl in the northwest corner to 389 masl in the eastern corner

N. Variations from Control and Operation Standards

Section 0.13 Standard	*Variation*	*Rationale*
(1)1 & (1)2	Gates will not be required where haul roads cross the common boundary with Pit 3 licence #6525.	This will eliminate constraints to the movement of equipment between licences owned by the same licensee.
(1)10.i	A 0 metre setback will be provided where the licence boundary abuts existing Pit 3 licence #6525.	This will enable material to be extracted along the common boundary and for rehabilitation to transition between licences. A site plan amendment for existing Pit 3 licence #6525 is required.
(1)10.iii	A portion of the limit of extraction is within 30 metres of the licence boundary.	The extraction area is based on the setback recommended by the technical reports.
(1)13.i	Aggregate, recycled aggregate, topsoil and overburden stockpiles as well as processing equipment may be located within 30 metres of the common boundary with existing Pit 3 licence #6525.	The adjacent Pit 3 licence #6525 is owned by the same licensee.
(1)17 & (1)18	Topsoil and/or overburden and/or aggregate may be transferred between this licence and existing Pit 3 licence #6525.	This will allow stripped material from site preparation to be used for berm construction and/or progressive rehabilitation in other parts of this licence and the existing Pit 3 licence.
(1)25	Scrap may be stored within 30 metres of the common boundary with existing Pit 3 licence #6525 in close proximity to the processing plant.	The adjacent Pit 3 licence #6525 is owned by the same licensee.
(3)(a)	1. The common boundary with existing Pit 3 licence #6525 shall not be fenced. 2. A portion of the licence boundary in the northeast corner shall not be fenced.	1. The common licence boundary shall be demarcated with marker posts every 30 metres. The adjacent Pit 3 licence #6525 is owned by the same licensee and both licences will be extracted concurrently. 2. Fencing shall be erected along 10 metre offset from the Significant Woodland boundary (as shown on the plan view).



Legal Description

Part of Lot 13, Concession 5 West Side of Centre Road or Communication Street
Geographic Township of Caledon
Town of Caledon
Region of Peel

Legend

- Licence Boundary
- Limit of Extraction
- Contours with Elevation (Metres above sea level (MASL))
- Public Road
- Trail
- Fence (1.2m post & wire fence unless otherwise noted)
- Silt Fence
- Water Feature
- Wooded Area
- Tree Plantings (visual)
- Unevaluated Wetland (Mapped by GEC)
- Unevaluated Wetland (Mapped by MNRF)
- Provincially Significant Wetland - Mapped by MNRF
- Amphibian Breeding Pools (to be constructed)
- Significant Woodland (Boundary - Solid; 10 Metre Offset from Boundary - Dashed)
- Site Plan Amendment (Area Subject to Separate Site Plan Amendment to Reduce Setback to Zero Metres)
- Existing Pit 3 Licence Boundary (Licence # 6525)
- Existing Pit 3 Limit of Extraction (Licence # 6525)
- 120m Offset From Licence Boundary
- Parcel Fabric (Owned by Applicant (thick line) Owned by Others (thin line))
- Entrance / Exit (Field Access)
- Entrance / Exit (Operational Access (may shall be permitted anywhere along common boundary))
- Driveway for Agricultural Equipment - See note C.1
- Gate
- Direction of Excavation & Phase Boundary
- Special Noise Provision 1 (See Noise note "i.a " under Section M.2 Report Recommendations for additional information
- Special Noise Provision 2 (See Noise note "k.a." under Section M.2 Report Recommendations for additional information
- Special Noise Provision 3 (See Noise note "l" under Section M.2 Report Recommendations for additional information
- Berm (Noise Attenuation / Visual Screening Berm)
- Building/Structure
- Spot Elevation (Top - Existing (MASL); Bottom - Water Table / Maximum Depth (MASL))
- Cross Sections

Site Plan Acronyms

1. ARA - Aggregate Resource Act
2. MNRF - Ministry of Natural Resources ~~and Forestry~~
3. MHSTCI - Ministry of Heritage, Sport, Tourism and Culture Industries
4. MGCS - Ministry of Government and Consumer Services
5. MECP - Ministry of the Environment, Conservation and Parks
6. ANSI - Area of Natural and Scientific Interest
7. ESC - Erosion and Sedimentation Control
8. BMP - Best Management Plan
9. MASL - Metres above sea level
10. LIO - Land Information Ontario
11. GEC - Goodban Ecological Consulting

Site Plan Amendments

No.	Date	Description	By

Site Plan Revisions (Pre-Licencing)

No.	Date	Description	By
1.	May 2026	Updated the site plan per agency and peer review comments	C.P.

MHBC PLANNING URBAN DESIGN & LANDSCAPE ARCHITECTURE
113 COLLIER STREET, BARRIE, ON. L4M 1H2 | P: 705.728.0045 F: 705.728.2010 | WWW.MHBCPLAN.COM

MHBC Stamp

Brian Zeman
Is authorized by the Ministry of Natural Resources and Forestry pursuant to Section 0.2(3)(e) of Ontario Regulation 244/97 to prepare and certify site plans.

DRAFT

MHBC Stamp

Christopher Cosgrove
Is authorized by the Ministry of Natural Resources and Forestry pursuant to Section 0.2(3)(f) of Ontario Regulation 244/97 to prepare and certify site plans.

DRAFT

Site North

True North

Applicant

Laferge Amrize Canada Inc.
6509 Airport Road
Mississauga, Ontario
L4V 1S7

Phone: (905) 738-7070
Fax: (905) 738-0224

Project

Pit 3 Extension

1782903 Shaws Creek Road, Caledon, Ontario

MNRF Licence Reference No. 626639	**Applicant's Signature**
Plan Scale: 1:1500 (Arch E) 0 45 90 Meters	**Date** ~~April 2024~~ May 2026
	Drawn By C.P.
	Checked By B.Z.
	File No. 9526CO

Drawing Name

Operational Plan

Drawing No.

2 of 4

File Path B:\Brian\9526CO Laflarge - Pit 3 Extension\Drawings\ARA Site Plans\Extension\CAD\9526CO - Extension - Site Plan.dwg

PROGRESSIVE REHABILITATION

A. General

1. Area Calculations:

a.	Licence Area	25.6 hectares
b.	Limit of Extraction	20.8 hectares
c.	Area to be Rehabilitated	20.8 hectares

B. Phasing

1. As excavation reaches the limit of extraction and/or maximum depth, progressive rehabilitation shall commence. The final phase of rehabilitation for rehabilitation to commence is Phases 1A and 1B since these areas are the processing areas for the duration of the pit operation.

2. Progressive rehabilitation shall follow the direction and sequence of extraction identified on the plan view and described in the notes on drawing 2 of 4.

3. For the sequence and timing for progressive rehabilitation, please see Section H. Extraction and Progressive Rehabilitation Sequence notes on drawing 2 of 4.

C. Slopes and Grading

1. Progressive rehabilitation shall consist of backfilling the limit of extraction to the elevations shown on the plan view of this drawing in accordance with the Pit Floor Agricultural Rehabilitation Sequence Detail on this drawing. As a result, the final floor grade vary as shown on the plan view, except adjacent to the wetland in the north central part of the site, where 3:1 slopes are provided.

2. Excess soil, as defined in Ontario Regulation 244/97 ~~(as amended from time to time)~~ may shall be imported to this site to facilitate the following rehabilitation:

   a. To establish the final elevations, slopes and grades depicted on the plan view of this drawing
   b. Top dressing to establish vegetation
   c. Berm creation

3. 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.

4. 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.

5. 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 soils shall be done according to the advice of the qualified person.

6. 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)~~.

7. The maximum cumulative total amount of excess soil that ~~may~~ shall be imported to this site for rehabilitation purposes is ~~2,150,000~~ 2,040,000 m³. See note F.7 on drawing 2 of 3 for additional information regarding berm creation using imported excess soil.

D. Agricultural Restoration

1. Refer to Agricultural notes in Section M Report Recommendations on drawing 2 of 4.

E. Natural Environment

1. Amphibian Breeding Pools

   a. Two small amphibian breeding pools shall be created within Area 1A, immediately adjacent to Wetland U3. The pools shall be excavated into the seasonally high water table such that they contain standing water at least until around mid-July in an average year.

   b. The two amphibian breeding pools shall be excavated later in the year (September-November window) and this shall occur prior to the commencement of site preparation activities in Phase 2. Input from a qualified hydrogeologist is required in order to determine the correct depth of excavation, in order to create a suitable hydroperiod for each of the two pools based on the monitoring data available prior to construction. Input from a qualified ecologist is required to direct the shaping and grading of each pool, the placement of rocks and woody debris, and the establishment of wetland plants.

   c. At least 3 rock piles and 5 woody debris features shall be installed around each amphibian breeding pool that is constructed.

   d. Wetland plant species shall be seeded and/or planted as plugs and/or rootstock, as selected from the following list:

      - Common Arrowhead (Sagittaria latifolia)
      - Water-plantain (Alisma plantago-aquatica)
      - Softstem Bulrush (Schoenoplectus tabernaemontani [Scirpus validus])
      - Dark Green Bulrush (Scirpus atrovirens)
      - Cyperus-like Sedge (Carex pseudo-cyperus)
      - Porcupine Sedge (Carex hystericina)
      - Swamp Milkweed (Asclepias incarnata)
      - Spotted Joe-pye-weed (Eutrochium maculatum [Eupatorium maculatum])
      - Boneset (Eupatorium perfoliatum)
      - Blue Flag Iris (Iris versicolor)
      - Blue Vervain (Verbena hastata)

   e. Depending on availability of the wetland plant species listed above, other suitable native, noninvasive wetland plant species may be substituted if necessary.

2. Tree-planting - General Planting Scheme and Monitoring

   a. The following general planting scheme applies to 1A, 1B, 1C & 1D, 2A, 2B, 2C. Additional planting details are provided in the Area specific rehabilitation notes on this Drawing.

   b. Tree plugs and/or 1-gallon container stock shall be planted with 2.5m x 2.5m spacing (1,600 seedlings per hectare). Shrubs shall not account for more than 5% of the 1,600 seedlings per hectare. During the first year of establishment, plantings shall be watered and fresh mulch added on an as need basis.

   c. The long-term survivorship target is 1,000 trees/shrubs per hectare (62.5% survivorship). The vegetation in the Woodland Area will be monitored on an annual basis for at least four years following planting. In the first year of monitoring, if fewer than 62.5% of the trees/shrubs have survived, then replacement of the dead trees/shrubs shall occur in the second or third years, using a mix of those species that have demonstrated the highest survival rates. Evidence of impact to the vegetation from pests or animals will be recorded. ~~Following the second year after an initial planting, any dead seedlings within a reforestation area shall be replaced in the next spring or fall planting season. The species selections for replacement plantings may vary depending on which species are performing better within a particular unit.~~

   d. ~~The reforestation areas shall be monitored for at least two (2) growing seasons after planting. Any dead seedlings within a general reforestation area shall be replaced in the subsequent spring or fall planting season following the second season of monitoring. The long-term survivorship target is 1,000 trees per hectare (62.5% survivorship). The species selections for replacement plantings may vary depending on which species are performing better within a particular unit.~~ The replacement plantings shall include consideration of the following species:

      - Zizea aurea
      - Geum fragaricoides
      - Podophyllum peltatum
      - Solidago caesia
      - Symphyotrichum cordifolium
      - Amphicarpaea bracteata
      - Aquilegia canadensis
      - Carexpensylvanica
      - Carex eburnea
      - Carex blanda

3. Tree-planting - Nodal Planting Scheme and Monitoring

   a. The following nodal planting scheme applies to Area 2D and additional planting details are provided in the Area specific rehabilitation notes on this Drawing.

   b. 30 planting nodes shall be established in Area 2D. Each node shall be approximately 300 m2 in size (typically 10m x 30 m). The nodal plantings are intended to establish patches of successional woodland that will contribute to the seed bank and also spread clonally, which will encourage natural regeneration to a woodland condition.

   c. Trees shall be planted as 1-gallon container stock with 3.0 m x 3.0 m spacing. One (1) shrub (plug or 1-gallon container stock) shall be planted for every 2 trees that are planted. Each node shall contain at least 42 trees and 21 shrubs. During the first year of establishment, plantings shall be watered and fresh mulch added on an as need basis.

   d. The nodal planting reforestation areas shall be monitored for at least two (2) growing seasons after planting. Any dead seedlings within a nodal reforestation area shall be replaced in the subsequent spring or fall planting season following the second season of monitoring. The long-term survivorship target is 26 trees per node (62.571% survivorship) and 13 shrubs per node (62.571% survivorship). The species selections for replacement plantings may vary depending on which species are performing better within a particular unit.

4. Seed Mixes

   a. An upland native seed mix shall be applied in Areas 1B, 1C, 1D, 2A, 2B, 2C and 2D to establish groundcovers in the reforestation areas.

   b. The upland native seed mix shall comprise 40% Canada Wild-rye (Elymus canadensis) and 40% Virginia Wild-rye (Elymus virginicus). The remaining 20% of the seed mix will be selected from the following species list:

      - Canada Anemone (Anemone canadensis)
      - Common Milkweed (Asclepias syriaca)
      - Grass-leaved Goldenrod (Euthamia graminifolia)
      - Wild Bergamot (Monarda fistulosa)
      - Foxglove Beardtongue (Penstemon digitalis)
      - Black-eyed Susan (Rudbeckia hirta)
      - Early Goldenrod (Solidago juncea)
      - Gray Goldenrod (Solidago nemoralis)
      - New England Aster (Symphyotrichum novae-angliae [Aster novae-angliae])
      - Arrow-leaved Aster (Symphyotrichum urophyllum [Aster urophyllus])
      - White Vervain (Verbena urticifolia)
      - Other suitable species native to the Credit River Watershed
      - Other suitable native plant species may also be seeded or planted as appropriate, subject to availability. Clusters of Common Milkweed (Asclepias syriaca) will be established.

   c. A nurse crop such as Winter Rye or Oats may be required, depending on the timing of seeding activities.

5. Rock Piles and Woody Debris Piles

   a. Rock piles and woody debris piles shall be established in Areas 1A, 1B, 2A and 2B. See Area specific rehabilitation notes on this Drawing for the amount of piles to be established in each area.

   b. Rock piles shall have a minimum footprint of 2 m x 2m and a minimum height of 1 m, to provide habitat for snakes, small mammals and other wildlife.

   c. Woody debris piles shall include at least one of the following:

      - 1 large stump/root wad partially keyed into the ground; or,
      - 5 or 6 logs (0.9 m to 1.2 m length or larger; at least 0.3 m in diameter) in a pile; or,
      - Brush pile 2m x 2m x 1m high, with 1 or 2 logs in centre.

6. Area 1A

   a. Two small amphibian pools shall be constructed adjacent to Wetland U3 in accordance with the Amphibian Breeding Pools notes on this Drawing.

   b. Silt fencing shall be installed around Area 1A prior to the construction of the acoustic berm adjacent to the Trailway and/or prior to any Phase 1 site preparation activities within 120 m of Wetland U3, whichever occurs first. Silt fencing shall be removed once Area 1B has been rehabilitated and it has stabilized.

   c. Prior to the commencement of tree-planting, 13 rock piles and 20 woody debris piles shall be placed within this area.

   d. Tree-planting in this area shall occur in the spring and/or fall planting windows prior to the commencement of site preparation activities in Phase 2.

   e. Trees and shrubs to be planted shall be selected from the following species list:

      - Balsam Poplar (Populus balsamifera)
      - Bur Oak (Quercus macrocarpa)
      - Freeman's Maple (Acer X freemanii)
      - Silver Maple (Acer saccharinum)
      - Trembling Aspen (Populus tremuloides)
      - White Cedar (Thuja occidentalis)
      - Highbush Cranberry (Viburnum trilobum)
      - Nannyberry (Viburnum lentago)
      - Red-osier Dogwood (Cornus sericea)
      - Other suitable species native to the Credit River Watershed

7. Area 1B

   a. Fine grading in this area shall create minor topographic variations, to enhance site diversity. Topsoil shall be applied to a minimum depth of 30 cm.

   b. Prior to the commencement of tree-planting, 22 rock piles and 33 large pieces of woody debris shall be placed within this area.

   c. Trees and shrubs to be planted shall be selected from the following species list:

      - Balsam Poplar (Populus balsamifera)
      - Basswood (Tilia americana)
      - Bur Oak (Quercus macrocarpa)
      - Red Maple (Acer rubrum)
      - Trembling Aspen (Populus tremuloides)
      - White Cedar (Thuja occidentalis)
      - White Pine (Pinus strobus)
      - Highbush Cranberry (Viburnum trilobum)
      - Nannyberry (Viburnum lentago)
      - Other suitable species native to the Credit River Watershed

8. Area 1C

   a. As part of the final rehabilitation of the site the berm shall be removed and this area shall be reforested.

   b. Trees to be planted in Area 1C shall be selected from the following species list:

      - Black Cherry (Prunus serotina)
      - Bur Oak (Quercus macrocarpa)
      - Red Maple (Acer rubrum)
      - Red Oak (Quercus rubra)
      - Sugar Maple (Acer saccharum ssp. saccharum)
      - Trembling Aspen (Populus tremuloides)
      - White Cedar (Thuja occidentalis)
      - White Pine (Pinus strobus)
      - Alternate-leaved Dogwood (Cornus alternifolia)
      - Chokecherry (Prunus virginiana)
      - Other suitable species native to the Credit River Watershed

9. Area 1D

   a. Within 18 months of site preparation commencing in Phase 1A this area shall be planted.

   b. Trees to be planted shall be selected from the following species list:

      - Black Cherry (Prunus serotina)
      - Bur Oak (Quercus macrocarpa)
      - Red Maple (Acer rubrum)
      - Red Oak (Quercus rubra)
      - Sugar Maple (Acer saccharum ssp. saccharum)
      - Trembling Aspen (Populus tremuloides)
      - White Cedar (Thuja occidentalis)
      - White Pine (Pinus strobus)
      - Alternate-leaved Dogwood (Cornus alternifolia)
      - Chokecherry (Prunus virginiana)
      - Other suitable species native to the Credit River Watershed

10. Area 2A

   c. Fine grading in this area shall create minor topographic variations, to enhance site diversity. Topsoil shall be applied to a minimum depth of 30 cm.

   d. Prior to the commencement of tree-planting, 16 rock piles and 24 large pieces of woody debris shall be placed within this area.

   e. Trees to be planted shall be selected from the following species list:

      - Bur Oak (Quercus macrocarpa)
      - Red Maple (Acer rubrum)
      - Red Oak (Quercus rubra)
      - Sugar Maple (Acer saccharum ssp. saccharum)
      - White Cedar (Thuja occidentalis)
      - White Pine (Pinus strobus)
      - Alternate-leaved Dogwood (Cornus alternifolia)
      - Chokecherry (Prunus virginiana)
      - Other suitable species native to the Credit River Watershed

11. Area 2B

   a. Fine grading in this area shall create minor topographic variations, to enhance site diversity. Topsoil shall be applied to a minimum depth of 30 cm.

   b. Prior to the commencement of tree-planting, 11 rock piles and 17 large pieces of woody debris shall be placed within this area.

   c. Trees to be planted shall be selected from the following species list:

      - Bigtooth Aspen (Populus grandidentata)
      - Black Cherry (Prunus serotina)
      - Bur Oak (Quercus macrocarpa)
      - Red Maple (Acer rubrum)
      - Red Oak (Quercus rubra)
      - Sugar Maple (Acer saccharum ssp. saccharum)
      - Trembling Aspen (Populus tremuloides)
      - White Birch (Betula papyrifera)
      - White Cedar (Thuja occidentalis)
      - White Pine (Pinus strobus)
      - Alternate-leaved Dogwood (Cornus alternifolia)
      - Chokecherry (Prunus virginiana)
      - Other suitable species native to the Credit River Watershed

12. Area 2C

   a. Fine grading in this area shall create minor topographic variations, to enhance site diversity. Topsoil shall be applied to a minimum depth of 30 cm.

   b. Trees to be planted shall be selected from the following species list:

      - Black Cherry (Prunus serotina)
      - Red Maple (Acer rubrum)
      - Sugar Maple (Acer saccharum ssp. saccharum)
      - White Cedar (Thuja occidentalis)
      - White Pine (Pinus strobus)
      - Alternate-leaved Dogwood (Cornus alternifolia)
      - Chokecherry (Prunus virginiana)
      - Other suitable species native to the Credit River Watershed

13. Area 2D (Nodal Planting)

   a. Fine grading in this area shall create minor topographic variations, to enhance site diversity. Topsoil shall be applied to a minimum depth of 30 cm.

   b. Trees to be planted shall be selected from the following species list:

      - Bigtooth Aspen (Populus grandidentata)
      - Trembling Aspen (Populus tremuloides)
      - White Birch (Betula papyrifera)
      - White Cedar (Thuja occidentalis)
      - White Pine (Pinus strobus)
      - Alternate-leaved Dogwood (Cornus alternifolia)
      - Chokecherry (Prunus virginiana)
      - Gray Dogwood (Cornus racemosa)
      - Staghorn Sumac (Rhus typhina)
      - Other suitable species native to the Credit River Watershed

F. Drainage

1. Final surface drainage will follow the rehabilitated contours and directional arrows shown on the plan view of this drawing.

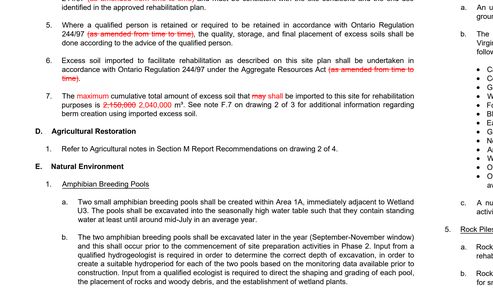
FINAL REHABILITATION

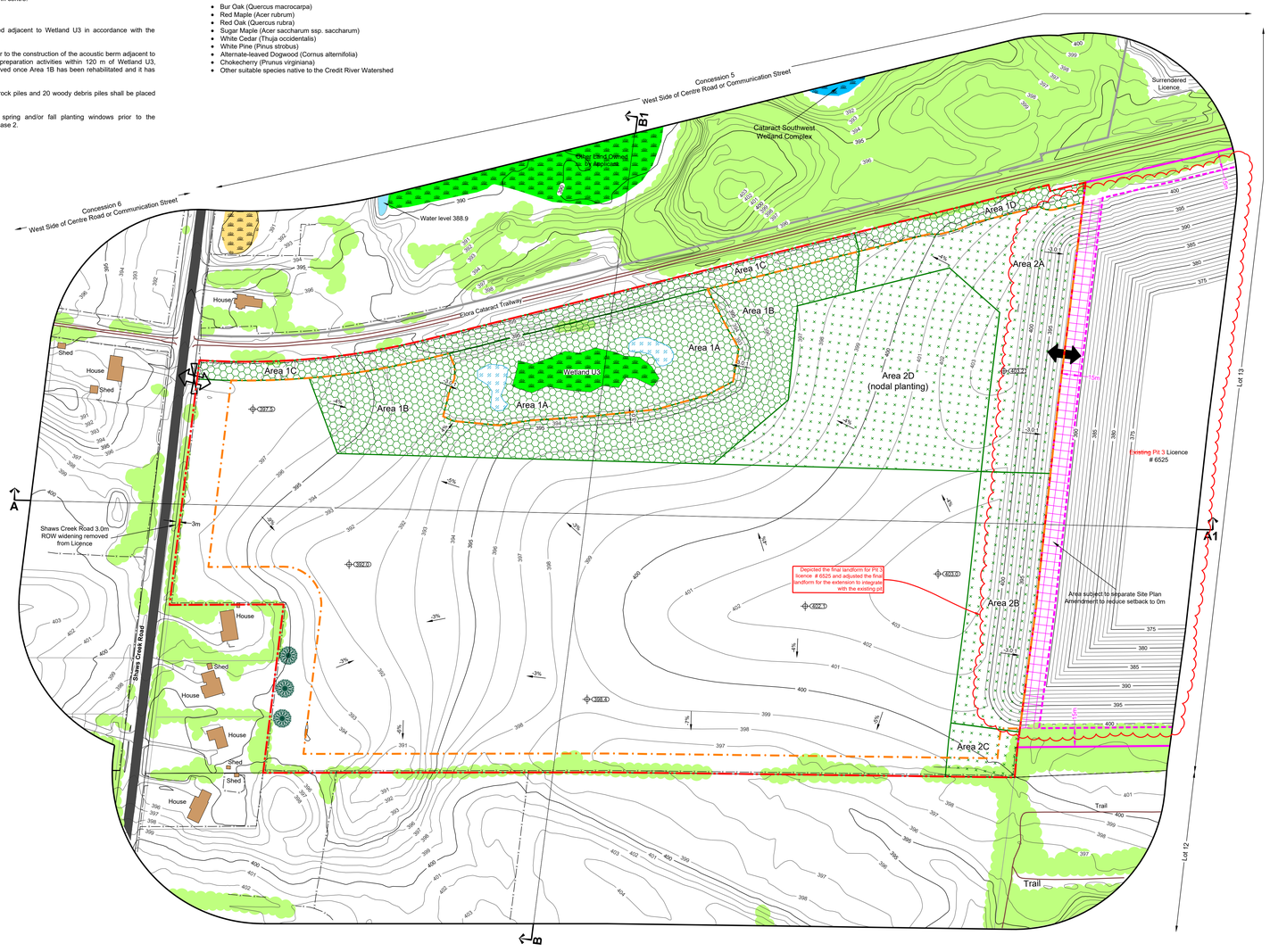
G. General

1. All equipment and structures shall be removed from the site.
2. No internal haul roads shall remain.
3. The water table elevation on site ranges from 389.0 masl in the southeast corner to 390.4 masl in the north. The existing water table elevations are shown in each cross section on drawing 4 of 4.
4. The anticipated final end-use is agricultural and natural heritage and rehabilitation shall include the following landforms:
   - 4.1. Agricultural land - 15.1 hectares
   - 4.2. New Woodland - 10.0 hectares
   - 4.3. Existing Significant Woodland - 0.1 hectares
   - 4.4. Existing wetland - 0.3 hectares
   - 4.5. New amphibian breeding pools - 0.1 hectares
5. Prior to surrender of the licence, the Agricultural Rehabilitation Monitoring Program outlined in note M.7.h shall confirm that an adequate agriculture condition has been achieved on-site.

H. Cross Sections

1. Cross sections depicting existing conditions are shown on drawing 4 of 4.
2. Cross sections depicting post rehabilitation conditions are shown on drawing 4 of 4.
3. Cross section locations are identified on the plan view for drawings 1, 2 and 3 of 4 and in the cross section key map on drawing 4 of 4.





Legal Description

Part of Lot 13, Concession 5 West Side of Centre Road or Communication Street
Geographic Township of Caledon
Town of Caledon
Region of Peel

Legend

- Licence Boundary
- Limit of Extraction
- Contours with Elevation (Metres above sea level (MASL))
- Public Road
- Trail
- Water Feature
- Wooded Area
- Tree Plantings (visual)
- Reforestation Area (Area 1)
- Reforestation Area (Area 2)
- Unevaluated Wetland (Mapped by GEC)
- Unevaluated Wetland (Mapped by MNRF)
- Provincially Significant Wetland - Mapped by MNRF
- Amphibian Breeding Pools (to be constructed)
- Existing Pit 3 Licence Boundary (Licence # 6525)
- Existing Pit 3 Limit of Extraction (Licence # 6525)
- 120m Offset From Licence Boundary
- Parcel Fabric (Owned by Applicant (thick line) Owned by Others (thin line))
- Fence (1.2m post & wire fence unless otherwise noted)
- Entrance / Exit (Field Access)
- Entrance / Exit (Operational Access (~~may~~ shall be permitted anywhere along common boundary))
- Gate
- Building/Structure
- Proposed Floor Elevation (Metres above sea level (MASL))
- Proposed Final Grade
- Site Plan Amendment (Area Subject to Separate Site Plan Amendment to Reduce Setback to Zero Metres)
- Cross Sections (A1)

Site Plan Acronyms

1. ARA - Aggregate Resource Act
2. MNRF - Ministry of Natural Resources ~~and Forestry~~
3. MHSTCI - Ministry of Heritage, Sport, Tourism and Culture Industries
4. MGCS - Ministry of Government and Consumer Services
5. MECP - Ministry of the Environment, Conservation and Parks
6. ANSI - Area of Natural and Scientific Interest
7. ESC - Erosion and Sedimentation Control
8. BMP - Best Management Plan
9. MASL - Metres above sea level
10. LIO - Land Information Ontario
11. GEC - Goodban Ecological Consulting

Site Plan Amendments

No.	Date	Description	By

Site Plan Revisions (Pre-Licencing)

No.	Date	Description	By
1.	May 2026	Updated the site plan per agency and peer review comments	C.P.

MHBC PLANNING URBAN DESIGN & LANDSCAPE ARCHITECTURE
113 COLLIER STREET, BARRIE, ON. L4M 1H2 | P: 705.728.0045 F: 705.728.2010 | WWW.MHBCPLAN.COM

MHBC Stamp

Brian Zeman
Is authorized by the Ministry of Natural Resources and Forestry pursuant to Section 11.0.2(3)(e) of Ontario Regulation 244/97 to prepare and certify site plans.

DRAFT

MHBC Stamp

Christopher Vo
Is authorized by the Ministry of Natural Resources and Forestry pursuant to Section 11.0.2(3)(f) of Ontario Regulation 244/97 to prepare and certify site plans.

DRAFT

Site North

True North

Applicant

AMRIZE

~~Lafarge~~ Amrize Canada Inc.
6509 Airport Road
Mississauga, Ontario
L4V 1S7

Phone: (905) 738-7070
Fax: (905) 738-0224

Project

Pit 3 Extension

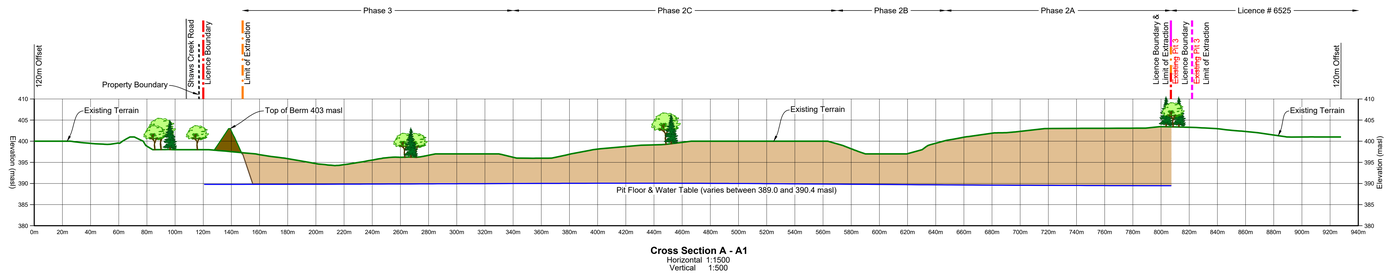
17~~82~~903 Shaws Creek Road, Caledon, Ontario

MNRF Licence Reference No. 626639	**Applicant's Signature**
Plan Scale: 1:1500 (Arch E) (0, 45, 90 Meters)	**Date** ~~April 2024~~ May 2026
	Drawn By C.P.
	Checked By B.Z.
	File No. 9526CO

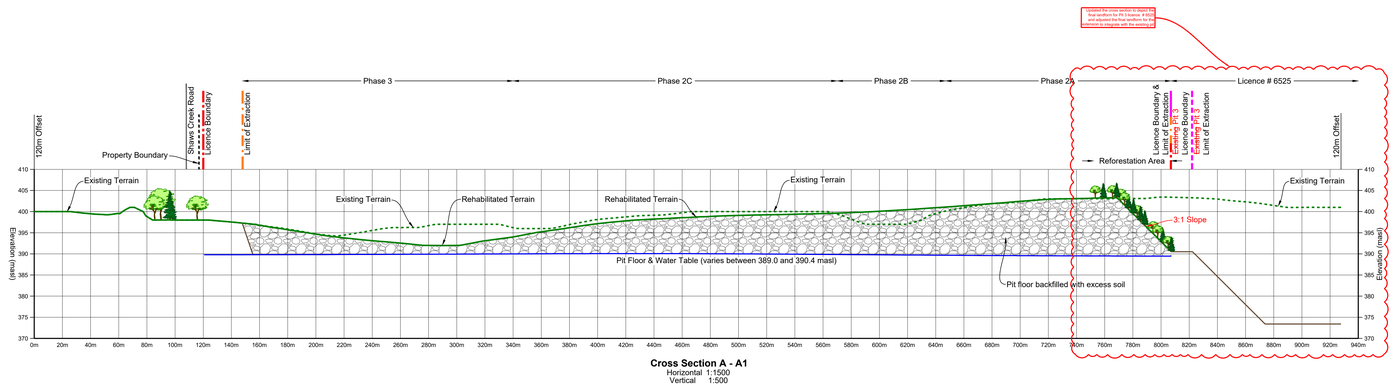
Drawing Name Rehabilitation Plan

Drawing No. 3 of 4

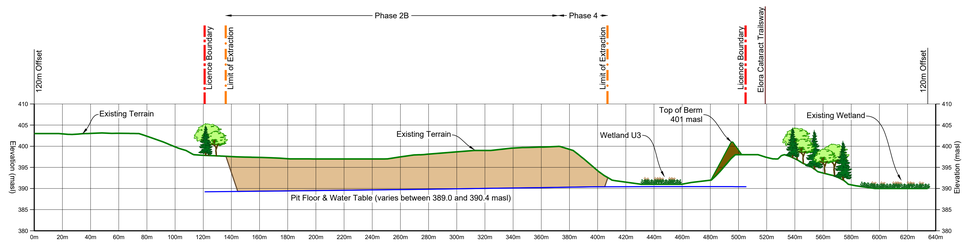
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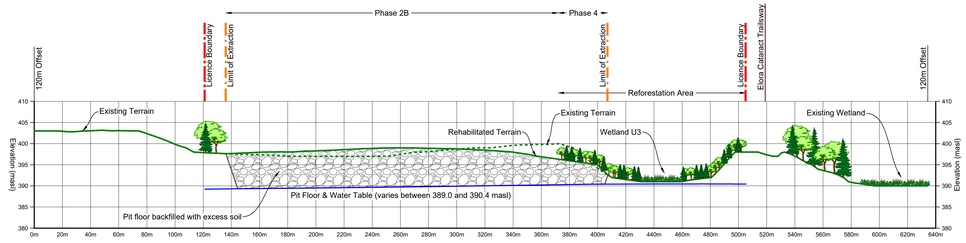
Cross Section A - A1
Horizontal 1:1500
Vertical 1:500



Cross Section A - A1
Horizontal 1:1500
Vertical 1:500

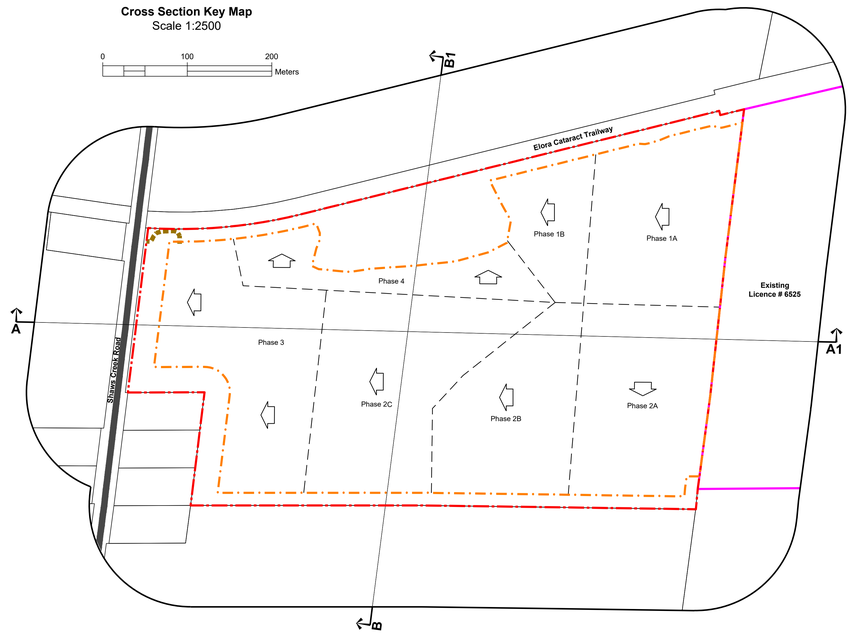


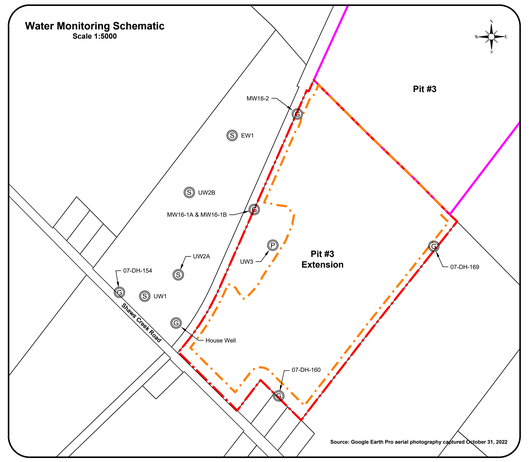
Cross Section B - B1
Horizontal 1:1500
Vertical 1:500



Cross Section B - B1
Horizontal 1:1500
Vertical 1:500

Cross Section Key Map
Scale 1:2500





Legal Description
Part of Lot 13, Concession 5 West Side of Centre Road or Communication Street
Geographic Township of Caledon
Town of Caledon
Region of Peel

Legend
- Licence Boundary
- Limit of Extraction
- Existing Pit 3 Licence Boundary
- Existing Pit 3 Limit of Extraction
- Existing Grade - Undistrubed
- Existing Grade - Removed / Altered
- Water Table
- Aggregate Available for Extraction
- Topsoil and/or Overburden Berm
- Backfilled

Site Plan Amendments

No.	Date	Description	By

Site Plan Revisions (Pre-Licencing)

No.	Date	Description	By
1.	May 2026	Updated the site plan per agency and peer review comments	C.P.

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Site North
True North

Applicant
Lafarge Amrize Canada Inc.
6509 Airport Road
Mississauga, Ontario
L4V 1S7

Phone: (905) 738-7070
Fax: (905) 738-0224

Project
Pit 3 Extension
1782903 Shaw's Creek Road, Caledon, Ontario

MNRF Licence Reference No.
626639

Applicant's Signature

Plan Scale: 1:1500 (Arch E)
0 45 90 Meters

Date April 2024 May 2026
Drawn By C.P.
Checked By B.Z.
File No. 9526CO

Drawing Name
Cross Sections

Drawing No.
4 of 4

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