

A. General

- 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 since extraction is proposed within 1.5 metres of the water table. Extraction on-site will remain above the water table.
- Area Calculations:
 - Licence Area 25.6 hectares
 - Limit of Extraction 20.8 hectares
- All references to north, south, east and west on this site plan are based on site north (not true north).

B. References

- 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).
- 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.
- 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.
- 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.
- Existing zoning on and within 120 metres of the licence to the west and north is from Town of Caledon Zoning By-law 2006-01, 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.
- 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

- 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

- 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

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

F. Aggregate Related Site Features

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

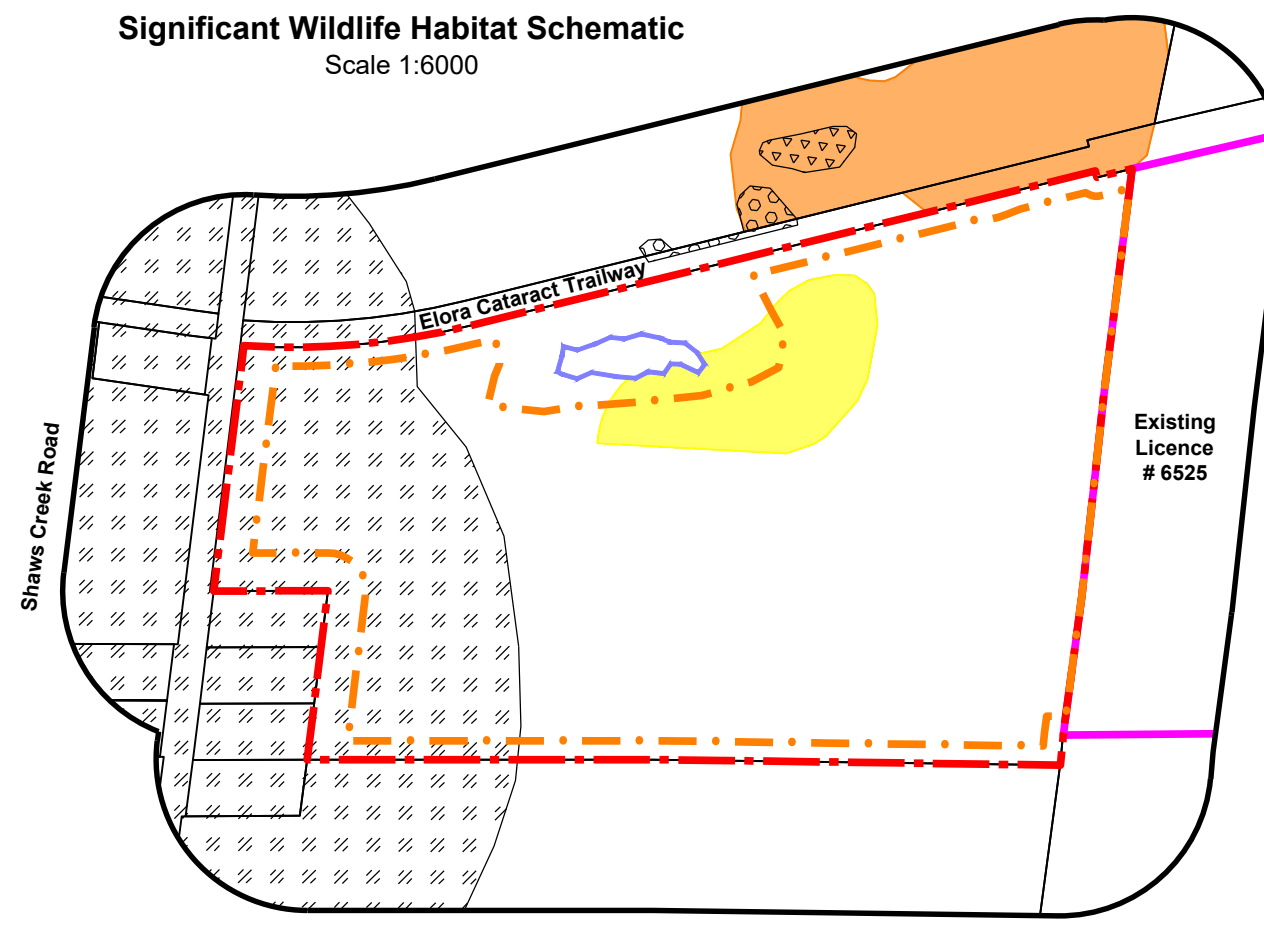
G. Cross Sections

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

H. Technical Reports - References

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

Significant Wildlife Habitat Schematic
Scale 1:6000

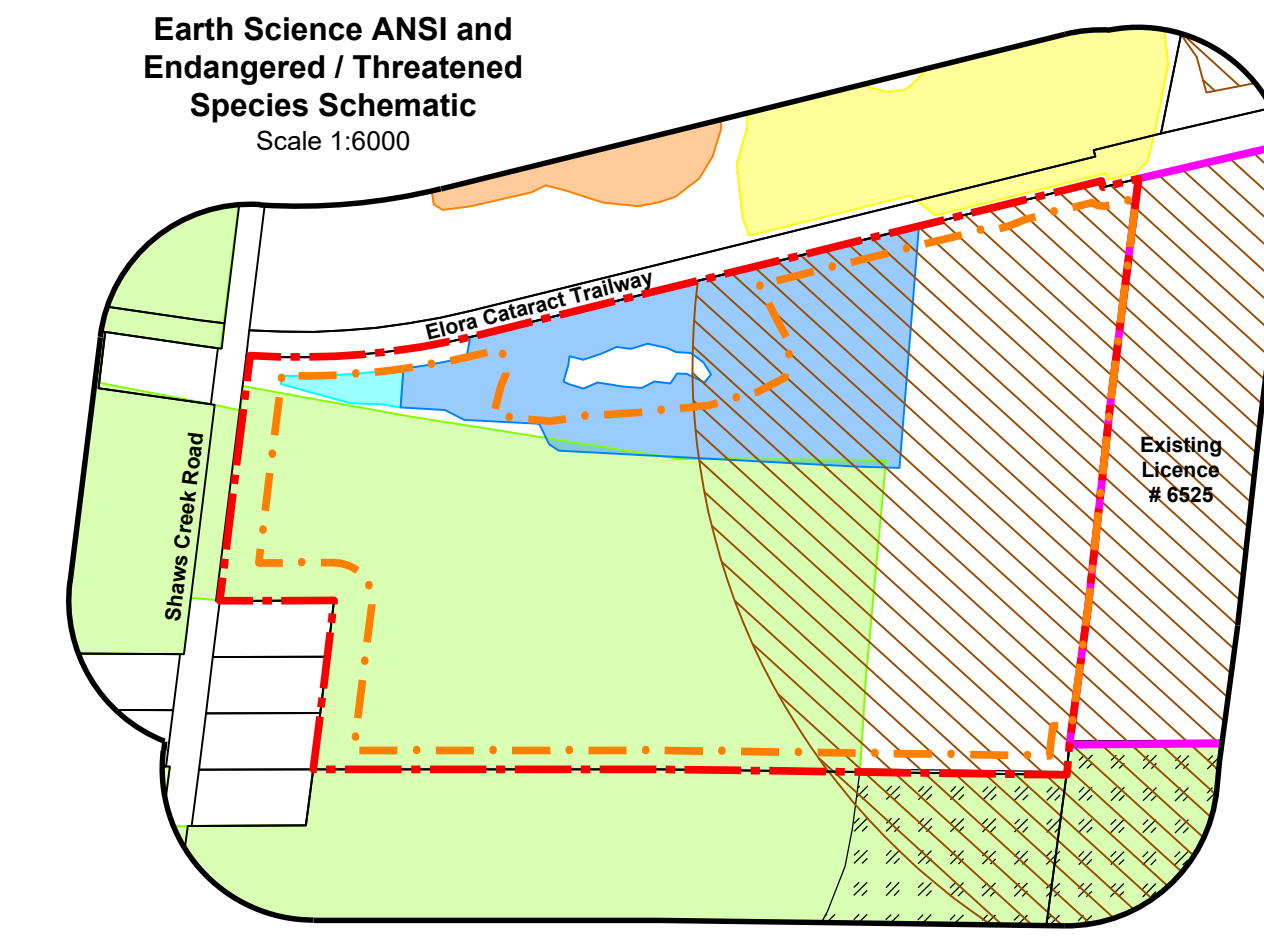


Legend

- Barn Swallow Category 3 Habitat
- Springle'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.

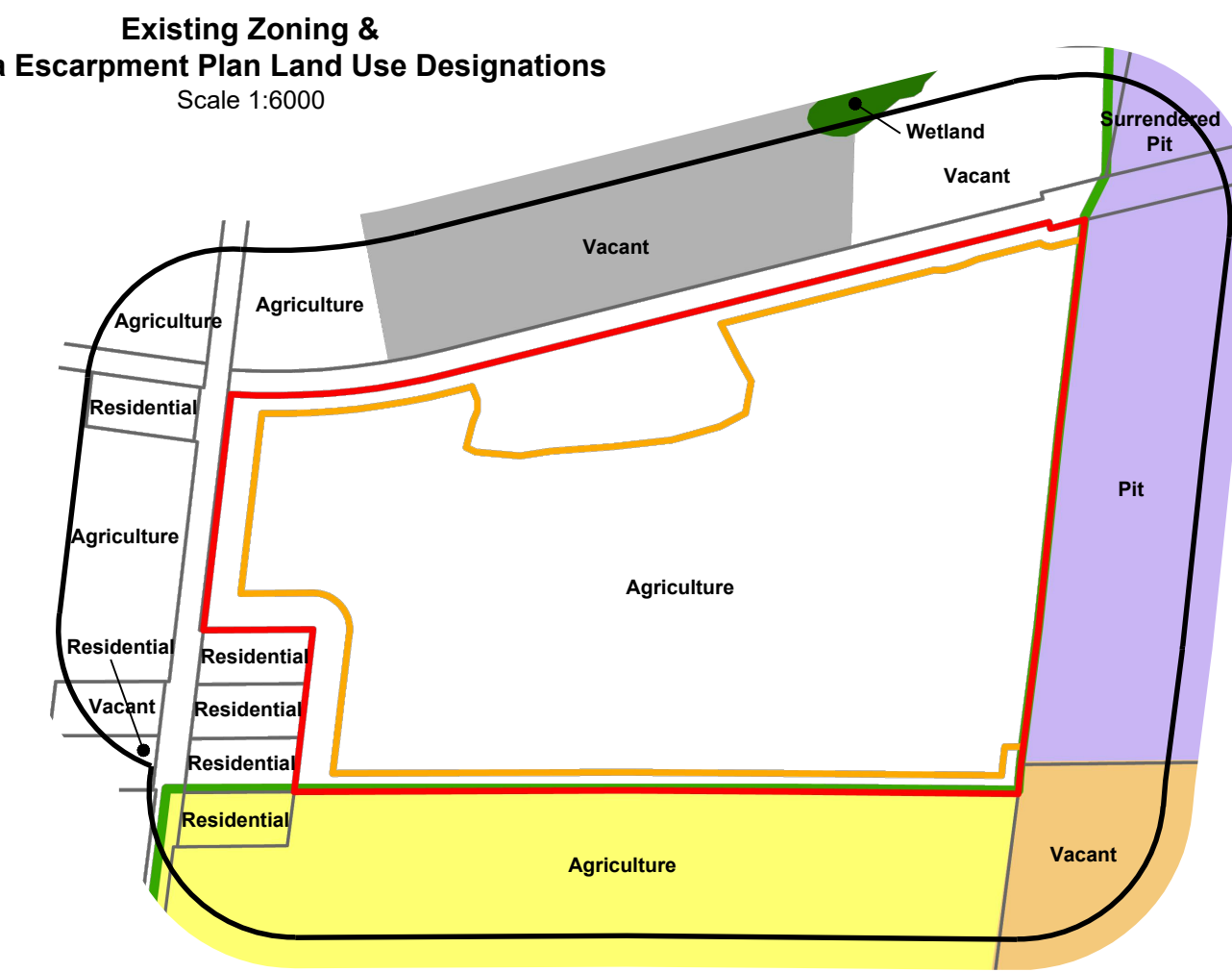
Earth Science ANSI and Endangered / Threatened Species Schematic
Scale 1:6000



Legend

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

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 2006-01

- 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



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
- Public Road
- Field Access Road
- Trail
- Water Feature
- Wooded Area
- Unevaluated Wetland
- Unevaluated Wetland
- Provincially Significant Wetland
- Significant Woodland
- Existing Licence Boundary
- Existing Limit of Extraction
- 120m Offset From Licence Boundary
- Parcel Fabric
- Fence
- Entrance / Exit
- Gate
- Direction of Surface Drainage
- Building/Structure
- Site Plan Amendment
- Cross Sections

Site Plan Acronyms

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

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, BARRE, ON, LAM 1H2 | P: 705.728.0245 F: 705.728.2010 | WWW.MHBCPLAN.COM

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

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

Site North
True North

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

Project
Pit 3 Extension
17823 Shaws Creek Road, Caledon, Ontario

MNRF Licence Reference No.
Applicant's Signature: *Chris Zeman*

Plan Scale: 1:1250 (Arch E)
Date: April 2024
Drawn By: C.P.
Checked By: B.Z.
File No.: 9526CO

Drawing Name: Existing Features
Drawing No.: 1 of 4

File Path: N:\040926CO\Lafarge - Pit 3 Extension\Drawings\ARA Site Plans\CAD\0926CO - 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 scale and scale house) are proposed.
4. The water table elevation on site ranges from 389.0 m in the southeast corner to 390.4 m in the north. The existing water table elevations are shown in each cross section on drawing 4 of 4.
5. The licence boundary is not located within a Wetland Protection Area. Therefore, surface protection measures do not apply for this licence.

B. Hours of Operation

- 1. Extraction and processing is permitted Monday to Saturday from 7:00am to 7:00pm excluding public holidays.
2. Shipping is permitted Monday to Saturday from 6:00am to 7:00pm excluding statutory holidays (see Note 'n' under Section M Report Recommendations for additional restrictions).
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 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 this location.
2. The site shall be accessed through the common licence boundary with existing licence #525 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 licence.
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 licence #525 (see Section N Variations from Control and Operation Standards) and will be delineated with marker posts every 30 metres.

D. Drainage

- 1. Damage 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 1st and March 14th.
3. Timber resources will be salvaged for use as saw logs, fence posts and fuel wood where appropriate. Non-marketable timber, stump, roots and brush will be used in reforestation areas. For aquatic habitat enhancement or mulch for use in progressive rehabilitation in the licence or existing licence #525.

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.
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 heights (respecting the minimum height requirements) and variations along the berm topography 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 wind and maintenance.
6. The berm shall be maintained throughout the operational life of the pit.

G. Site Dewatering

- 1. The licence is not permitted to actively dewater the site. However, to avoid minor pond flooding during periods of high water table and wet climatic events, a siphon into existing licence #525 may be constructed.

H. Extraction Sequence

- 1. Extraction shall occur in 4 phases (Phases 1A, 1B, 2A, 2B, 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 2B once final extraction limits and depths are reached and then proceed to Phases 2C, 3 and 4. Phases 1A, 1B and 2B will be the final areas to be 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 21.2 hectares. The maximum disturbed area includes berms, stripping, active extraction and areas being progressively rehabilitated.
3. Phase 1A:
a. Prepare Phase 1A for extraction and ensure all requirements in Sections 'C' through 'G' of this drawing are met.

M. Report Recommendations

- 1. All activities
a. Detail mitigation activities on site shall meet or exceed those specified in the Best Management Plan (BMP) or any subsequent version of the Best Management Plan.
2. Ensure that the perimeter berms and surrounding areas are sufficiently vegetated to act as a barrier to dust transport.
3. Comply with the dust control requirements stipulated in the Ontario Aggregate Resources Act (Ontario Regulation 240/01 under Aggregate Resources Act).

N. Noise

- 1. 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.
2. 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-way trucking and up to 45 shipping trucks per hour, may take place between 6:00 am and 7:00 pm.
3. Extraction, processing and transport equipment operating 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:

Table with columns: Equipment, Sound Power Level, Sound Pressure Level at 30 metres. Rows include Mobile Crusher, Mobile Screener, Production Loaders, Shipping Loader, Onsite Trucks, and Conveyors.

D. Highways, Trucks, Conveyors, etc.

- 1. Highways, trucks, conveyors, or any acoustically equivalent means may be employed to transport processed materials extracted from Phases 2, 3 and 4 to stockpiles within 15 m or within Phase 2 along the border of Phase 1, provided that the production loader (servicing the processing equipment as described below) used to transfer material from these stockpiles to the processing equipment within Phase 1 operates on the northwest side of the stockpiles, such that it is shielded from the homes to the south.
2. During Extraction in Phase 1:
a. Up to two production loaders (for extraction) may operate anywhere within Phase 1.
b. One mobile crusher or one mobile screener (not both), serviced by one production loader, may operate anywhere within Phase 1, with localized shielding as described below.
c. One shipping loader may operate anywhere within Phase 1, 2A or 2B, leading up to 45 shipping trucks per hour.
3. During Extraction in Phase 2A:
a. Up to two production loaders (for extraction) may operate anywhere within Phase 2A.
b. One mobile crusher or one mobile screener (not both), serviced by one production loader, may operate anywhere within Phase 1A, with localized shielding as described below.
c. One shipping loader may operate anywhere within Phase 1A, leading up to 45 shipping trucks per hour.
4. During Extraction in Phase 2B:
a. One production loader (for extraction) may operate anywhere within Phase 2B.
b. One mobile crusher or one mobile screener (not both), serviced by one production loader, may operate anywhere within Phase 1A, with localized shielding as described below.
c. One shipping loader may operate anywhere within Phase 1A, leading up to 45 shipping trucks per hour.
5. During Extraction in Phase 2C:
a. One production loader (for extraction) may operate anywhere within Phase 2C.
b. One mobile crusher or one mobile screener (not both), serviced by one production loader, may operate anywhere within Phase 1A, with localized shielding as described below.
c. One shipping loader may operate anywhere within Phase 1A, leading up to 45 shipping trucks per hour.
6. During Extraction in Phase 3:
a. One production loader (for extraction) may operate anywhere within Phase 3.
b. One mobile crusher or one mobile screener (not both), serviced by one production loader, may operate anywhere within Phase 1A, with localized shielding as described below.
c. One shipping loader may operate anywhere within Phase 1A, leading up to 45 shipping trucks per hour.
7. During Extraction in Phase 4:
a. One production loader (for extraction) may operate anywhere within Phase 4.
b. One mobile crusher or one mobile screener (not both), serviced by one production loader, may operate anywhere within Phase 1A, with localized shielding as described below.
c. One shipping loader may operate within Phase 1A, leading up to 45 shipping trucks per hour.
8. Localized Shielding for Mobile Crusher/Screener:
a. When in operation, the mobile crusher/screener and supporting production loader must be shielded by a U-shaped obstruction (e.g. material stockpile) on the east, south, and west sides that breaks the line-of-sight between the equipment and receptors R1 through R4, R8 and R10 (as shown on the Points of Reception Key Map on this drawing).
9. In addition to the operating scenarios detailed above, one crusher and one screen (and two production loaders) can operate during the same shift within 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 #525, provided that no extraction activity takes place within this licence.

O. Natural Environment

- 1. Wetland U3 shall be protected during extraction by a minimum 15 m buffer and air fencing shall be installed in the location shown on the plan view of this drawing. See Area 1A rehabilitation notes on Drawing 3 of 4 for additional details.
2. The Significant Woodland in the northwest corner of the site shall be protected by a minimum 10 m buffer and air fence installed within 1.0 m of the limit of extraction, on the buffer side of the limit. The location is shown on the plan view of this drawing. The buffer will be stocked from its current agricultural use and planted with native trees and shrubs. See Area 1D rehabilitation notes on Drawing 3 of 4 for additional details.
3. Air fencing shall be installed as part of the north perimeter fencing and maintained until the northern portion of the pit is rehabilitated.
4. Prior to any site alteration within the area identified as habitat for Bobolink and Eastern Meadowlark identified on Drawing 1 of 4, as may be modified based on rove M.E.d. above, at least 1.5 times the amount of suitable habitat be created elsewhere for these threatened species. All of the requirements within Part IV of Ontario Regulation 83/02 must be satisfied including submitting a notice of activity prior to commencing any work, preparing a management plan, creating habitat of suitable composition and size, conducting the required maintenance after habitat construction, and keeping all records, as stipulated. Alternatively, the proponent may choose to pay a "species observation charge" to the Species at Risk Conservation Fund, per Ontario Regulation 358/03.
5. In the area identified as habitat for Bobolink and Eastern Meadowlark on Drawing 1 of 4, as may be modified based on rove M.E.d. above, stippling shall not occur between April 5th and August 27th.
6. On-site tree-clearing shall take place outside of the breeding bird season and bat activity period. Tree-clearing shall only take place between December 1st and March 14th.
7. During site clearing and stripping operations, piles of washed field stones along old fence lines shall be used to maintain riparian habitat. Upper limbs and branches may be cut up for use in boun piles. These woody debris piles shall be integrated into selected reforestation areas. See Drawing 3 of 4 for location and details. Oversized material from Licence #525 may also be used for this purpose.
8. During site clearing non-marketable timber and roof wafers shall be salvaged and used for restoration and rehabilitation purposes. Upper limbs and branches may be cut up for use in boun piles. These woody debris piles shall be integrated into selected reforestation areas. See Drawing 3 of 4 for location and details.
9. The licensee shall implement the natural heritage technical recommendations on Drawing 3 of 4.

P. Cultural Heritage

- 1. There are no direct or indirect impacts to cultural heritage landscapes or built heritage resources.

Q. Archaeology

- 1. Should deeply buried archaeology remains be found during the course of site preparation and/or extraction related activities, the Ministry of Heritage, Sport, Tourism and Culture Industries (MHTCI) and the Registrar or Deputy Registrar of the Consumer Protection Act of the Ministry of Government and Consumer Services (MGCSS).

R. Maximum Predicted Water Table

- 1. The water table is established based on the May 31, 2019 monitoring event and ranges from approximately 390.4 m a.s.l. in the northwest corner to 389 m a.s.l. in the eastern corner.

S. Variations from Control and Operation Standards

Table with columns: Section 0.13 Standard, Variation, Rationale. Rows include gate requirements, material removal, material placement, and berm construction.

T. Vegetation

- 1. Existing vegetation located along the perimeter and within the setback area shall be retained where possible.
2. Visual berms shall be installed as per the typical berm detail and berm requirements noted on this drawing. Berms shall be smooth, with grass seeding between and in front of berms. The rate shall be approximately 8 to 10 shrub plantings per tree installed at 40 to 60 cm minimum height, planted (or sown post-harvest, depending on season). Plantings shall be randomly spaced and designed 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 include, but shall not be limited to the following:
c.a. Conifers and Deciduous Trees: White Pine, White Spruce, Balsam Fir, White Cedar, Common Juniper, Sugar Maple, Silver Maple, Red Maple, Greenway, Red Oak, and White Oak.
c.b. Native Shrubs: Gray Dogwood, Red Oak Dogwood, Common Noddy, Serviceberry, Sumac, Rose, Sp., Raspberry, Willow sp., Elderberry, Snowberry, Meadowsweet, Viburnum sp.

U. Tree and Shrub Plantings

- 1. Tree and shrub plantings shall be located in front of or on the toe of the berm wrapping around the rear property line of the adjacent residences. The intent is to fill in any open gaps in the existing continuous hedgerows. Tree plantings shall be of a larger caliper size (minimum sizes of 80mm CAL for deciduous 300mm height for conifers) at the location. Shrub plantings to be 40 to 60 cm in height for deciduous species and 50 metres from a property with a residential use.
2. 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.
3. During the first year of pit operations, it is recommended that the planted trees along the west boundary of the subject lands are watered and monitored until established. After the first year, it is recommended that the trees be inspected at least once each year, preferably in the spring after late frost or in fall prior to leaf drop, to ensure any trees which are in poor condition at the time, are fertilized, watered and monitored as needed, to improve their health and vigor.
4. During the first two years, dead trees shall be replaced annually, preferably in spring or late summer. As the trees mature and grow in situ, 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.
5. 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.

V. Traffic

- 1. When the Region of Peel upgrades the intersection of Charlton Island Road 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 lane.

W. Hydrogeology and Hydrology

- 1. Conduct monthly water level measurements at all groundwater and surface water monitors shown on the Water Monitoring Schematic on drawing 4 of 4.
2. Conduct monthly groundwater temperature profiling at the following groundwater wells O7-DH-154, O7-DH-160, O7-DH-169, MW16-1A, MW16-1B, and MW16-2 as shown on the Water Monitoring Schematic on drawing 4 of 4.
3. Conduct annual water quality sampling at the following wells O7-DH-154, O7-DH-160, O7-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 organics including metals, petroleum hydrocarbons (P1 - P4), volatile organic compounds (VOCs), and microscopy (E Coli and Total Coliforms).
4. 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.
5. During periods of high-water table (for example early spring), temporary flooding may occur within the Pit 3 Area. A contingency measure, such as a siphon into the adjacent Licence #525 may be implemented during Operations to avoid minor pit floor flooding that might occur during wet climatic events.

X. Best Management Practices

- 1. Best Management practices shall be implemented with respect to the storage and application of nutrients and pesticides.

Y. Environmental Monitoring

- 1. An Agricultural Rehabilitation Monitoring Program Report shall be submitted annually by a qualified professional once final grades are reached in Phase 2A until final rehabilitation of the site is complete. The report shall occur at the stage of the rehabilitation process and include details on matters such as the following:
a. Evaluate the rehabilitated agricultural condition and soil capability, relative to the baseline pre-rehabilitation condition.
b. An overview of the status of the current extraction and progressive rehabilitation phases;
c. Description of annual soil removal and storage management activities;
d. Description of any land that has been progressively rehabilitated;
e. Documentation on the elevation of any soil compaction, drainage provisions, erosion control, etc.;
f. Description of how the soil has been replaced and any amendments added (fertilizer, organic matter);
g. Description of any seeding or planting that has occurred;
h. A review of previous rehabilitation management activities and observations regarding field conditions;
i. Report of agricultural activity (crop grown, annual yields) and any anecdotal feedback from the farmer;
j. Review of drainage issues and recommended mitigation measures as necessary;
k. Summary of soil test results and soil rehabilitation soil capability;
l. Summary of monitoring data;
m. Make recommendations on future agricultural rehabilitation activities and any needed adjustments to best management practices.
6. No livestock operators shall be permitted.
7. Best Management practices shall be implemented with respect to the storage and application of nutrients and pesticides.

Z. Site Plan Acronyms

- 1. ARA - Aggregate Resource Act
2. MNR - Ministry of Natural Resources and Forestry
3. MHTCI - Ministry of Heritage, Sport, Tourism and Culture Industries
4. MGCSS - 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. MSL - Metres above sea level
10. LIO - Land Information Ontario
11. GEC - Goodland Ecological Consulting

AA. Site Plan Amendments

Table with columns: No., Date, Description, By.

BB. Site Plan Revisions (Pre-Licensing)

Table with columns: No., Date, Description, By.

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RR. Site Plan Acronyms

- 1. ARA - Aggregate Resource Act
2. MNR - Ministry of Natural Resources and Forestry
3. MHTCI - Ministry of Heritage, Sport, Tourism and Culture Industries
4. MGCSS - 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. MSL - Metres above sea level
10. LIO - Land Information Ontario
11. GEC - Goodland Ecological Consulting

SS. Site Plan Amendments

Table with columns: No., Date, Description, By.

TT. Site Plan Revisions (Pre-Licensing)

Table with columns: No., Date, Description, By.

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VV. Site Plan Amendments

Table with columns: No., Date, Description, By.

WW. Site Plan Revisions (Pre-Licensing)

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BBB. Site Plan Amendments

Table with columns: No., Date, Description, By.

CCC. Site Plan Revisions (Pre-Licensing)

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EEE. Site Plan Amendments

Table with columns: No., Date, Description, By.

FFF. Site Plan Revisions (Pre-Licensing)

Table with columns: No., Date, Description, By.

GGG. Site Plan Acronyms

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HHH. Site Plan Amendments

Table with columns: No., Date, Description, By.

III. Site Plan Revisions (Pre-Licensing)

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JJJ. Site Plan Acronyms

- 1. ARA - Aggregate Resource Act
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KKK. Site Plan Amendments

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LLL. Site Plan Revisions (Pre-Licensing)

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NNN. Site Plan Amendments

Table with columns: No., Date, Description, By.

OOO. Site Plan Revisions (Pre-Licensing)

Table with columns: No., Date, Description, By.

PPP. Site Plan Acronyms

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QQQ. Site Plan Amendments

Table with columns: No., Date, Description, By.

RRR. Site Plan Revisions (Pre-Licensing)

Table with columns: No., Date, Description, By.

SSS. Site Plan Acronyms

- 1. ARA - Aggregate Resource Act
2. MNR - Ministry of Natural Resources

PROGRESSIVE REHABILITATION

- A. General**
- Area Calculations:
 - a. Licence Area: 25.6 hectares
 - b. Limit of Extraction: 20.8 hectares
 - c. Area to be Rehabilitated: 20.8 hectares
 - Phasing
 - As excavation reaches the limit of extraction and/or maximum depth, progressive rehabilitation shall commence. The final rehabilitation for rehabilitation to commence is Phases 1A and 1B since these areas are the processing areas for the duration of the pit operation.
 - 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.
 - Slopes and Grading
 - 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 varies 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.
 - 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
 - Berm creation
 - Liquid soil, as defined in Ontario Regulation 402/19 (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 soils shall be done according to the advice of the qualified person.
 - Excess soil imported to facilitate rehabilitation as described on this site plan shall be undertaken in accordance with 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 2,150,000 m³. See note F.7 on drawing 2 of 3 for additional information regarding berm creation using imported excess soil.
 - Agricultural Restoration**
 - Refer to Agricultural notes in Section M Report Recommendations on drawing 2 of 4.
 - Natural Environment**
 - Amphibian Breeding Pools**
 - 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.
 - 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.
 - At least 3 rock piles and 5 woody debris features shall be installed around each amphibian breeding pool that is constructed.
 - 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*)
 - Puccinellia Sedge (*Carex hystrix*)
 - Swamp Milkweed (*Asclepias incarnata*)
 - Spotted Joe-pye-weed (*Euthyrium maculatum*) (*Eupatorium maculatum*)
 - Boneset (*Eupatorium perfoliatum*)
 - Blue Flag Iris (*Iris versicolor*)
 - Blue Vervain (*Veronica hastata*)
 - Depending on availability of the wetland plant species listed above, other suitable native, noninvasive wetland plant species may be substituted if necessary.

- Tree-planting - Nodal Planting Scheme and Monitoring**
 - The following nodal planting scheme applies to Area 2D and additional planting details are provided in the Area specific rehabilitation notes on this Drawing.
 - 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.
 - 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 needed basis.
 - 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 28 trees per node (62.5% survivorship) and 13 shrubs per node (62.5% survivorship). The species selections for replacement plantings may vary depending on which species are performing better within a particular unit.
- Seed Mixes**
 - 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.
 - Canada Anemone (*Anemone canadensis*)
 - Common Milkweed (*Asclepias syriaca*)
 - Grass-leaved Goldenrod (*Euthamia graminifolia*)
 - Wild Bergamot (*Monarda fistulosa*)
 - Foxglove Beantongue (*Penstemon digitalis*)
 - Black-eyed Susan (*Ruthecia hirta*)
 - Early Goldenrod (*Solidago juncea*)
 - Gray Goldenrod (*Solidago nemoralis*)
 - New England Aster (*Symphoricarum novae-angliae*) (*Aster novae-angliae*)
 - Arrow-leaved Aster (*Symphoricarum urophyllum*) (*Aster urophyllus*)
 - White Vervain (*Veronica 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.
 - A nurse crop such as Winter Rye or Oats may be required, depending on the timing of seeding activities.
- Rock Piles and Woody Debris Piles**
 - 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.
 - 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.
 - Woody debris piles shall include at least one of the following:
 - 1 large stump/wood pile partially keyed into the ground; or
 - 5 or 6 logs (0.6 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.

- Area 1B**
 - 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.
 - Prior to the commencement of tree-planting, 22 rock piles and 33 large pieces of woody debris shall be placed within this area.
 - 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
- Area 1C**
 - As part of the final rehabilitation of the site the berm shall be removed and this area shall be reforested.
 - 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
- Area 1D**
 - Within 18 months of site preparation commencing in Phase 1A this area shall be planted.
 - 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
- Area 2A**
 - 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.
 - Prior to the commencement of tree-planting, 16 rock piles and 24 large pieces of woody debris shall be placed within this area.
 - 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*)
 - Red-osier Dogwood (*Cornus sericea*)
 - Other suitable species native to the Credit River Watershed

- Area 2B**
 - 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.
 - Prior to the commencement of tree-planting, 11 rock piles and 17 large pieces of woody debris shall be placed within this area.
 - 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
- Area 2C**
 - 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.
 - 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
- Area 2D**
 - 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.
 - 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*)
 - Staghorn Sumac (*Rhus typhina*)
 - Other suitable species native to the Credit River Watershed

- FINAL REHABILITATION**
- G. General**
- All equipment and structures shall be removed from the site.
 - No internal haul roads shall remain.
 - The water table elevation on site ranges from 389.0 msl in the southeast corner to 390.4 msl in the north. The existing water table elevations are shown in each cross section on drawing 4 of 4.
 - The anticipated final end-use is agricultural and natural heritage.
- H. Cross Sections**
- Cross sections depicting existing conditions are shown on drawing 4 of 4.
 - Cross sections depicting post rehabilitation conditions are shown on drawing 4 of 4.
 - 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 Licence Boundary
(Licence # 6525)
- Existing Limit of Extraction
(Licence # 6525)
- Parcel Fabric
Owned by Applicant (this lot)
Owned by Others (D11 - 102)
- Fence
1.2m post & wire fence unless otherwise noted
- Entrance / Exit
Fence Access
- Entrance / Exit
Operational Access
(may 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

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Site Plan Amendments

No.	Date	Description	By

Site Plan Revisions (Pre-Licensing)

No.	Date	Description	By

MHBC Stamp

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

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

MHBC Stamp

Site North

True North

MHBC Stamp

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

Project
Pit 3 Extension
17823 Shaws Creek Road, Caledon, Ontario

MNRF Licence Reference No.

Applicant's Signature
Christopher Poole

Plan Scale: 1:1500 (Arch E)

Date: April 2024

Drawn By: C.P.

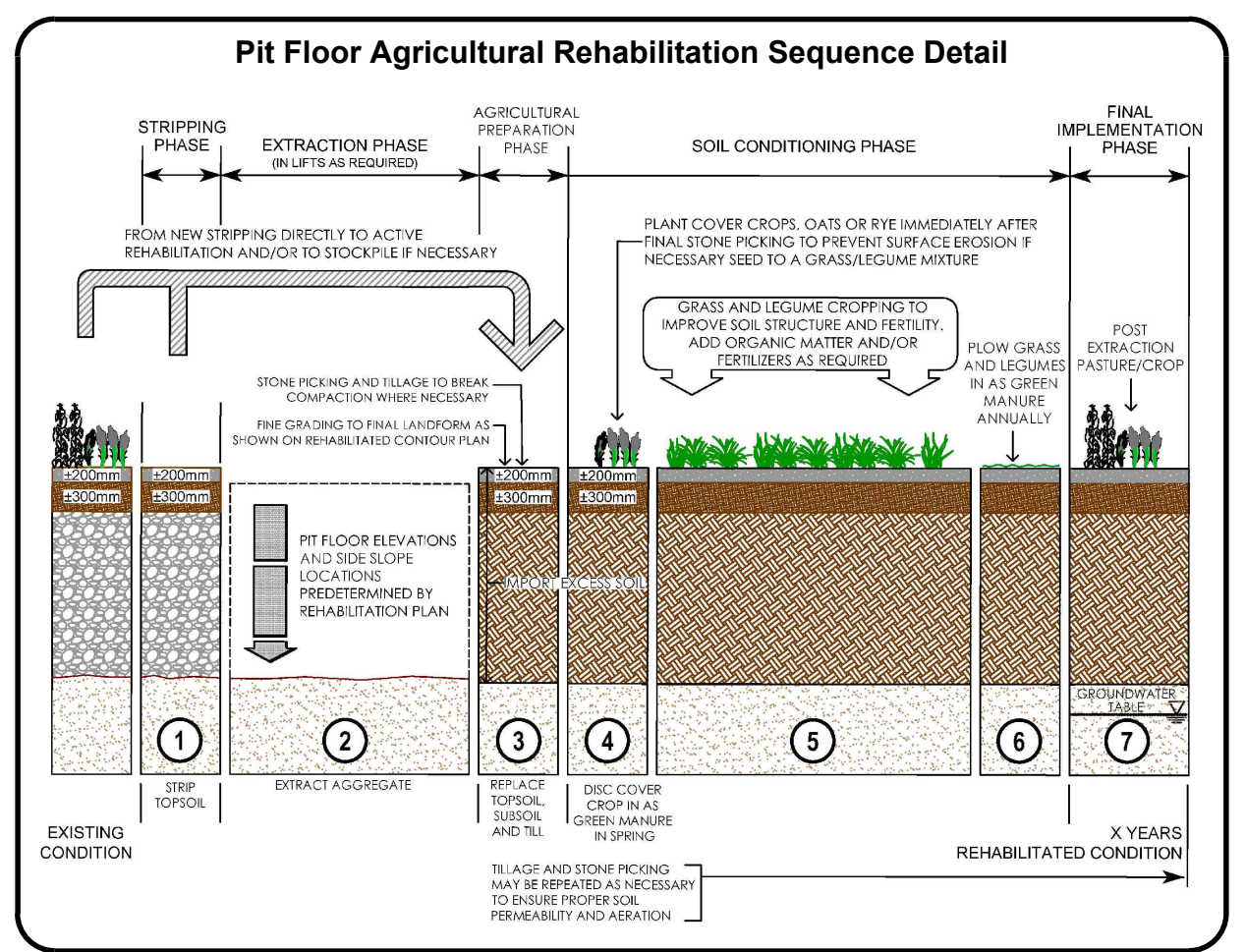
Checked By: B.Z.

File No.: 9526CO

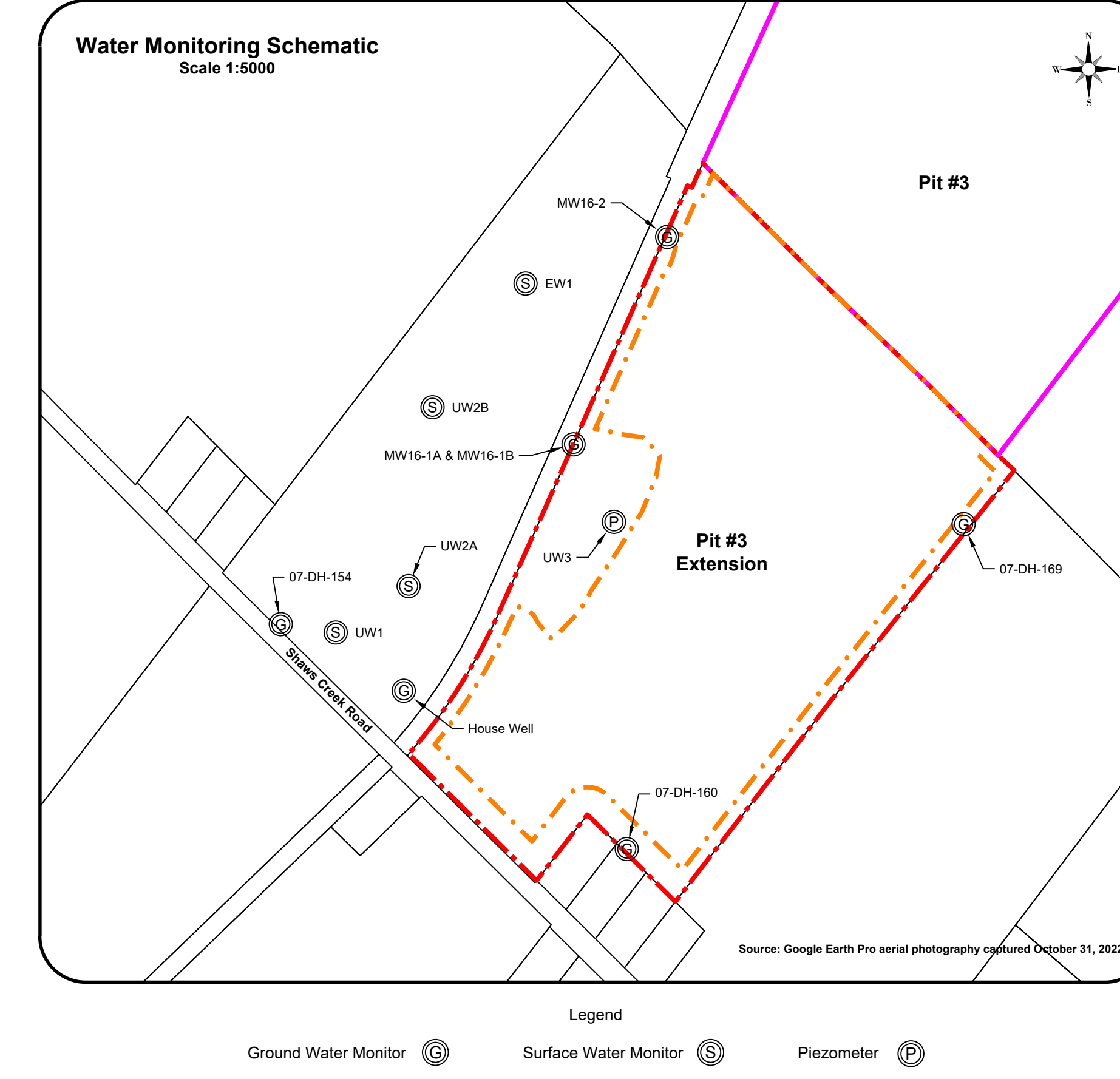
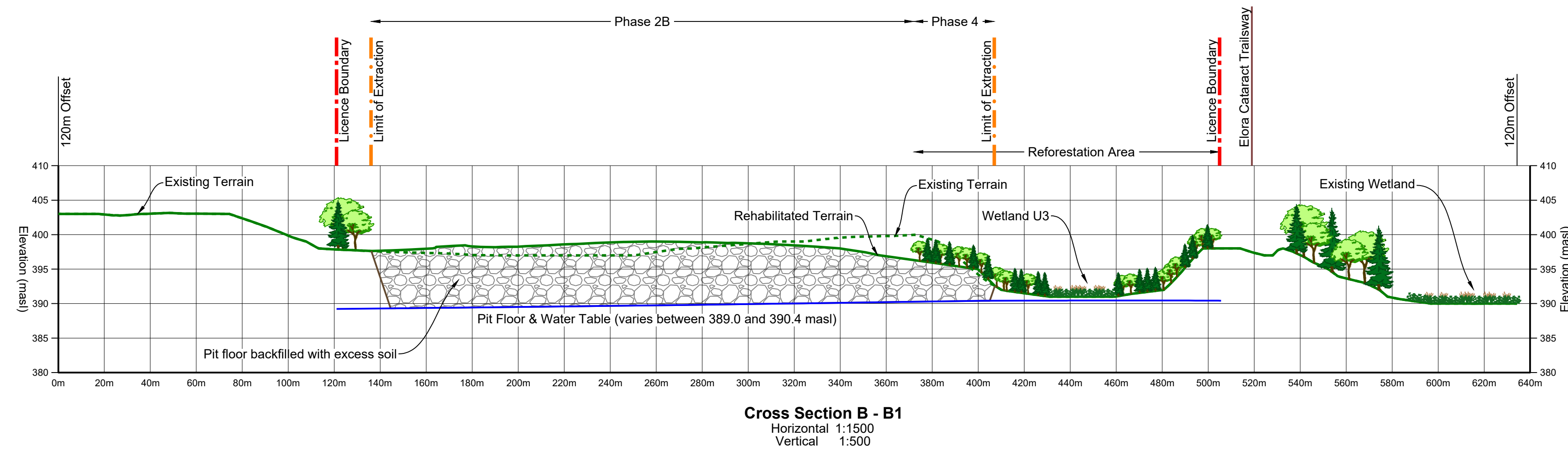
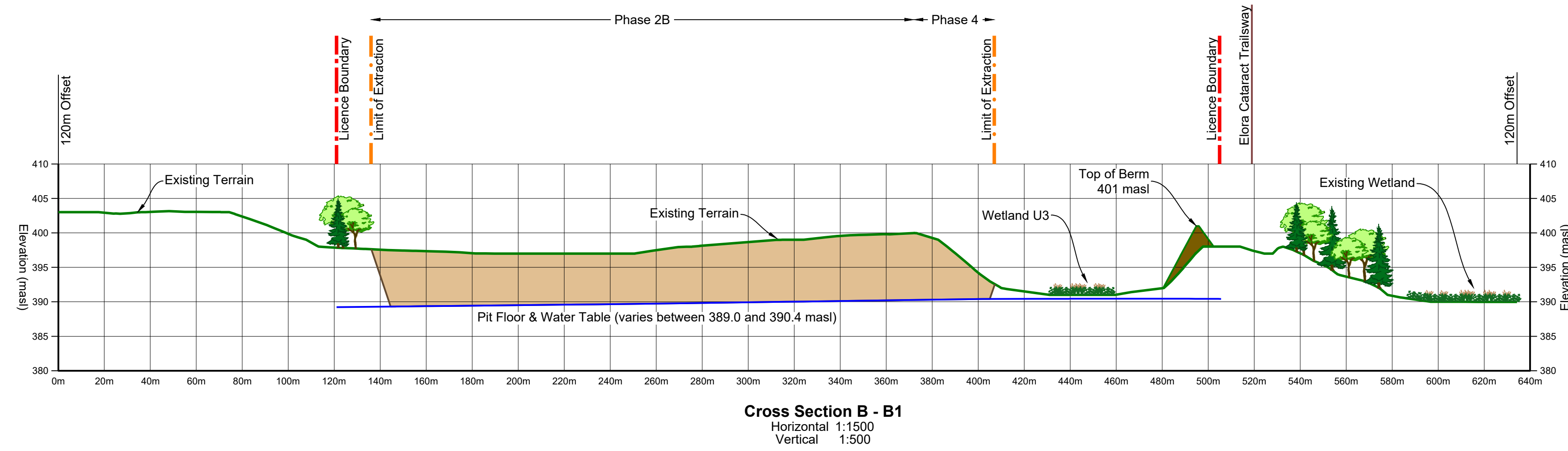
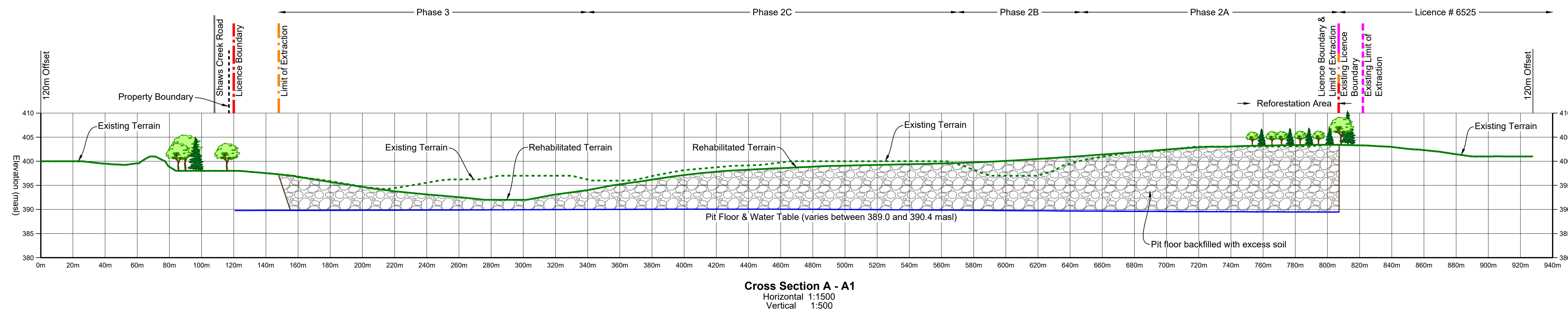
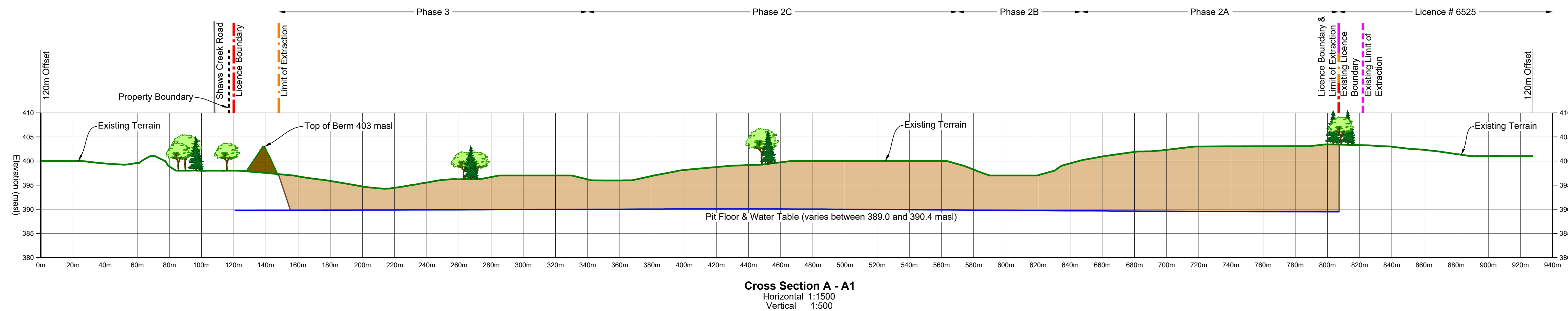
Drawing Name: Rehabilitation Plan

Drawing No.: 3 of 4

File Path: N:\040926CO\Lafarge - Pit 3 Extension\Drawings\ARA Site Plans\CAD\0926CO - Site Plan.dwg



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



No.	Date	Description	By

No.	Date	Description	By

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Site North

True North

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Lafarge Canada Inc.
 6509 Airport Road
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 Phone: (905) 738-7070
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Project
Pit 3 Extension
 17823 Shaws Creek Road, Caledon, Ontario

MNRF Licence Reference No.
 Applicant's Signature:

Plan Scale: 1:1500 (Arch E)
Date: April 2024
Drawn By: C.P. **File No.:** 9526CO
Checked By: B.Z.

Drawing Name: **Cross Sections**
Drawing No.: **4 of 4**

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