NUMBERING SCHEME USED FOR REHABILITATION NOTES REFERS TO AGGREGATE RESOURCES ACT PROVINCIAL STANDARDS FOR A CLASS "A" **CATEGORY 1 LICENCE APPLICATION.**

Sequence and Direction

1.3.1 Rehabilitation will be progressive following the general direction of extraction and proceed as limits of extraction (area and depth) are reached [see "Progressive Rehabilitation Sequence", this page]. Rehabilitation will follow the Sequence of Operations diagram located on Page 2 of 2. Sufficient working and travel areas will remain active.

1.3.2 Topsoil will be used in the progressive rehabilitation of the pit side slope areas and where appropriate the pit floor areas (ie. shallow littoral area). Topsoil and subsoil will be stripped, stored, and re-applied separately. Areas of compacted soils will be ripped to alleviate compaction without mixing soil layers. Soils (topsoil and subsoil) will be replaced at variable depths (minimum 150mm-300mm) side slope areas. Overburden material will be used to establish side slopes to desired finished grades (i.e.3:1 slope).

Proposed Vegetation 1.3.3 & 1.4.3 The proposed rehabilitation includes an opportunity to enhance the biological diversity of the local landscape. Shallow shoreline planting zones will include, but are not limited to locally native non-invasive species such as red-osier dogwood, slender willow and herbaceous plants such as water plantain, lake sedge, swamp milkweed, soft stem bulrush and common cattail; and other native aquatic plants that are suited to the site conditions and present in the local area. The shallow shoreline areas will include nodal shrub plantings near the shore, woody debris and boulders to provide waterfowl and reptile basking, bird perching, and waterfowl nesting locations; and will incorporate a combination of fine sand and coarse stone pond bottom (see Shallow Shoreline Detail, this page). Nodal planting is also proposed within the north setback areas. Planting cells will include a variety of deciduous and coniferous species, including but not limited to white pine, basswood, trembling aspen and white birch with secondary focus on species such as choke cherry, alternate-leaved dogwood, highbush cranberry, nannyberry and service berry (see planting detail this page). All ground covers on side slopes shall be maintained and replaced should they fail to establish to control erosion. Trees and shrubs planted in the tree screen or as part of the nodal plantings shall be monitored for a two-year period following planting and shall be replaced in the subsequent if they fail to establish. (see nodal planting detail, this page).

Slope Creation & Rehabilitated Landform 1.3.4 & 1.4.2 Final pit landform will be in accordance with the drawing as shown on this page. Rough grading to create a stable side slope shall be carried out progressively as extraction proceeds across the site to minimize the final grading work to be undertaken following the completion of resource extraction. Above the water table side slopes will be graded 3:1 and seeded with a grass/legume mixture consisting of locally native non-invasive species to ensure stability. Side slopes will be established using a combination of backfill and/or cut and fill methods using on-site overburden, aggregate material, etc. Above the water table side slopes will be irregular with an average top to bottom grade not steeper than 3:1. Below water extraction and shoreline formation by dragline around perimeter edge of pond directly abutting 3:1 rehabilitated side slopes will be excavated in a manner that will result in the retention of a 5m wide bench along the shoreline above water. This bench allows for equipment manoeuvring and helps ensure the above-water slope remains stable. Below water slopes will occur to the natural angle of repose except where site specific grading to establish shallow shoreline areas occurs. A shallow littoral area will be created in Phase 3 (see typical shoreline section). An undulating shoreline wil be created around the edge of the pond. (see undulating shoreline detail, this

Progressive Rehabilitation

1.3.5 Progressive rehabilitation shall follow the Sequence of Operations diagram/ notes on page 2 of 3 and Progressive Rehabilitation Sequence, this

Importation of Topsoil

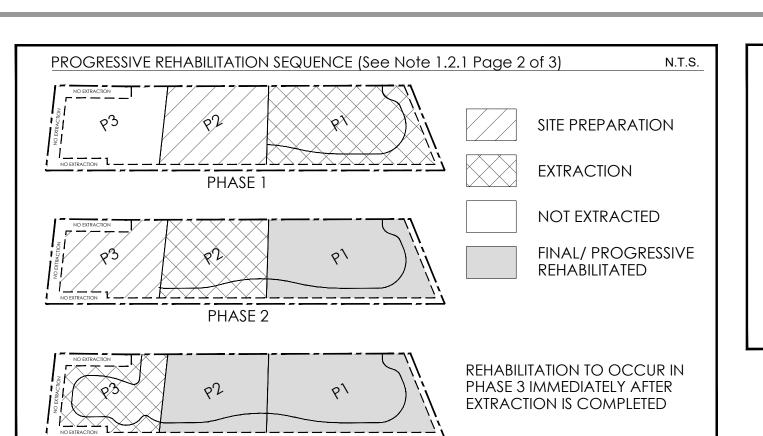
1.3.6 & 1.4.1 Topsoil and overburden materials shall only be imported from the

adjacent existing Lafarge Pit (#5575) to optimize progressive rehabilitation (see also note 1.2.2 on Page 2). 1.4.4 No buildings or structures associated with aggregate operations will remain

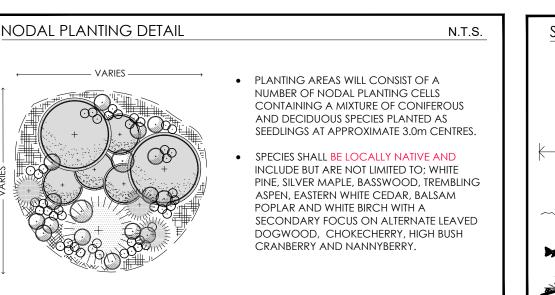
1.4.5 The post extraction water level of the proposed Lake (~238 mAMSL) and the post extraction ground water table are shown on the rehabilitation drawing, this page, as per hydrogeological assessment.

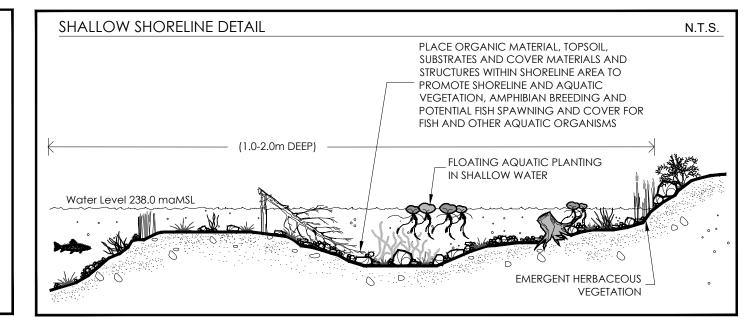
1.4.6 An access road to the shoreline edge may remain on the site.

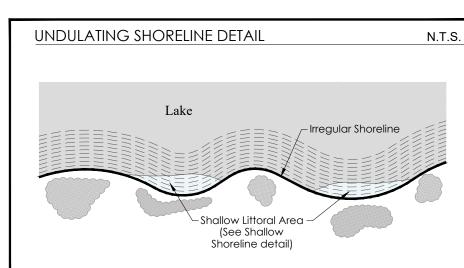
Surface Water Drainage & Discharge 1.4.7 Final surface drainage will follow the rehabilitated contours as shown and generally be directed towards the post-extraction pond.

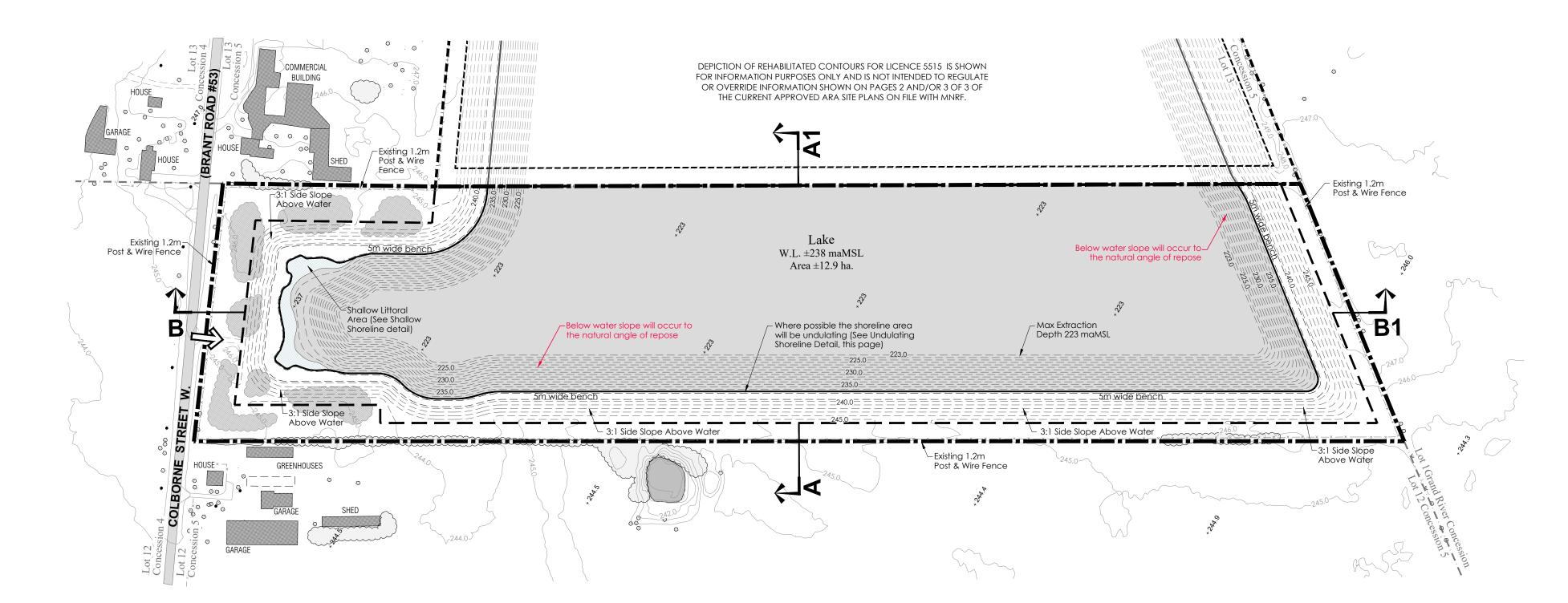


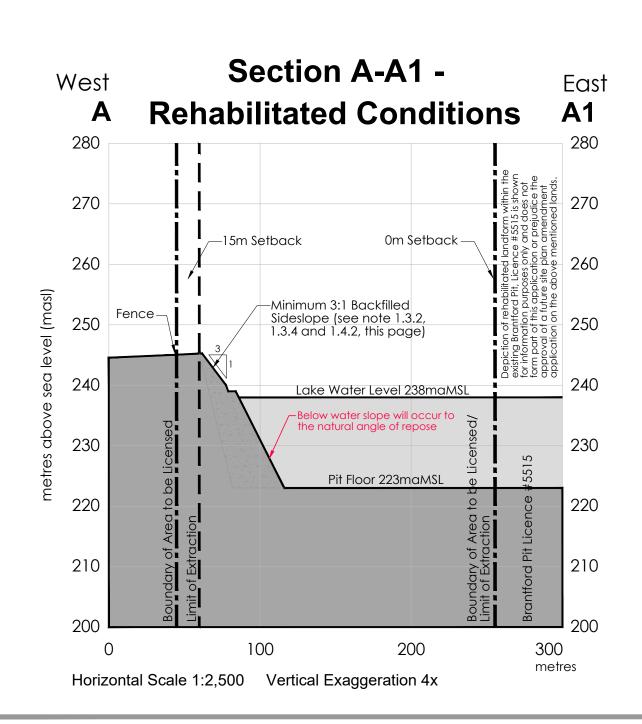
PHASE 3













Legal Description

PART OF LOT 12

CONCESSION 5

(former geographic township of Brantford) **COUNTY OF BRANT**

Legend

Boundary of Area to be Licensed

Additional Lands Owned by Applicant LAFARGE BRANTFORD PIT-LIC.#5515

Existing Fence POST & WIRE FENCE UNLESS OTHERWISE NOTED

Contour and Elevation METRES ABOVE SEA LEVEL

Private Driveway/ Laneway

Farm/Field Access

Cross Sections

Public Road

Limit of Extraction ALL SETBACKS ARE DRAWN TO SCALE AND SHOW LABELED DISTANCES

Existing **Extraction Limit** LAFARGE BRANTFORD PIT-LIC.#5515

Spot Height Elevation METRES ABOVE SEA LEVEL

Proposed Contour METRES ABOVE SEA LEVEL

Building/Structure LOCATION AND USE FOR BUILDINGS ON-SITE AND WITHIN 120m ARE SHOWN ON THIS PAGE.

Existing Vegetation

Proposed Vegetation

Proposed Lake

Proposed Shallow Littoral Area

. HYDROGEOLOGICAL INFORMATION PREPARED BY MTE CONSULTANTS INC. JULY, 2020

2. AREA TO BE LICENSED 19.9 ha. (49 ac.) AREA TO BE EXTRACTED 16.9 ha. (42 ac.) 3. ALL MEASUREMENTS SHOWN ON THIS PLAN ARE IN METRES.



200 - 540 BINGEMANS CENTRE DR. KITCHENER, ON, N2B 3X9 | P: 519.576.3650 F: 519.576.0121 | WWW.MHBCPLA MNRF Approval Stamp



Applicant's Signature >1000isinaush Carol Siemiginowski, P.Eng Land Manager, Southwest Ontario & Atlantic

Brantford Pit Extension

Lafarge Canada Inc. 6509 Airport Road, Mississauga Ontario, L4V 1S7 Tel: (905) 738-7070 Fax: (905) 738-7092

MNRF Licence Reference No Pre-approval review: Revised For MNRF Completeness Review - March 4, 202[,] Plan Scale 1:2,500 (Arch D) Plot Scale 1:2.5 [1mm = 2.5 units] MODEL Drawn By D.G.S. / G.C. File No. Checked By

REHABILITATION PLAN

Drawing No. 3 OF 3

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