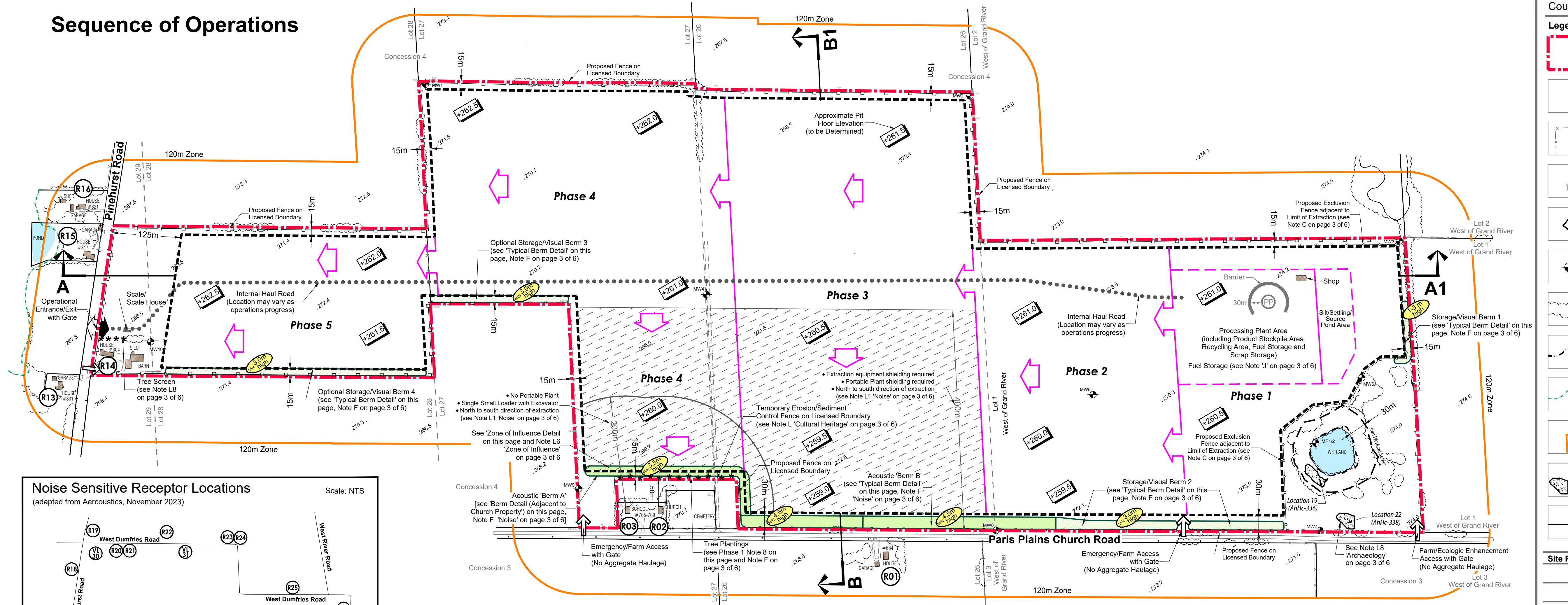
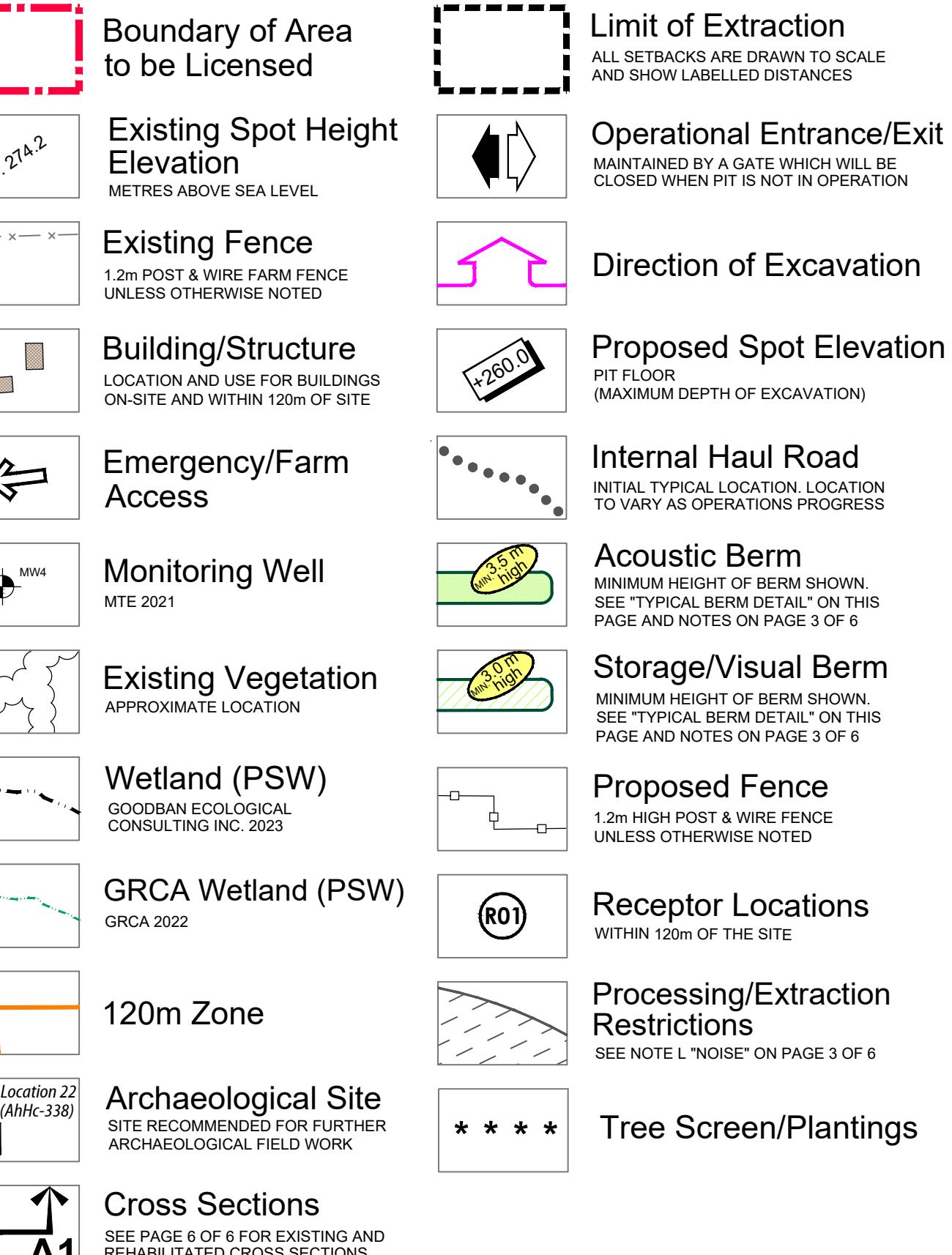


Sequence of Operations



Legal Description
Part of Lots 26 to 29 and Part of Lot 1 West of Grand River
Concession 4 (Geographic Township of Dumfries)
County of Brant

Legend



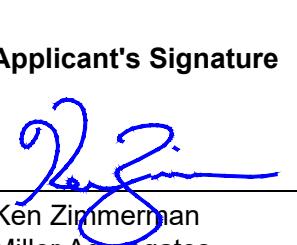
Site Plan Amendments

No.	Date	Description	By
 PLANNING URBAN DESIGN & LANDSCAPE ARCHITECTURE 200 - 540 BINGEMANS CENTRE DR, KITCHENER, ON, N2B 3X9 P: 519.574.3450 www.mhbcplan.com			
MNRF Approval Stamp		MHBC Stamp	
			

Applicant



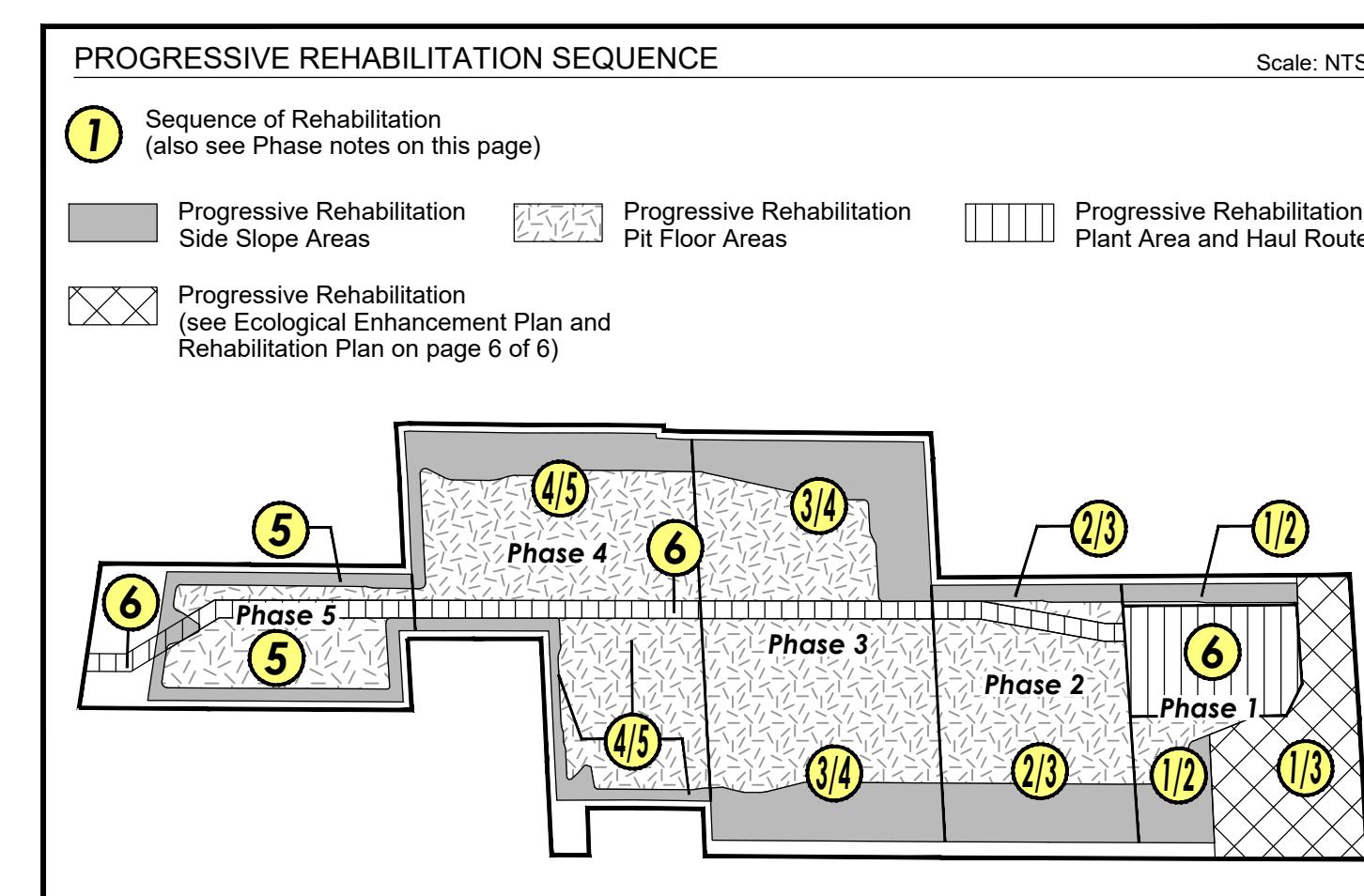
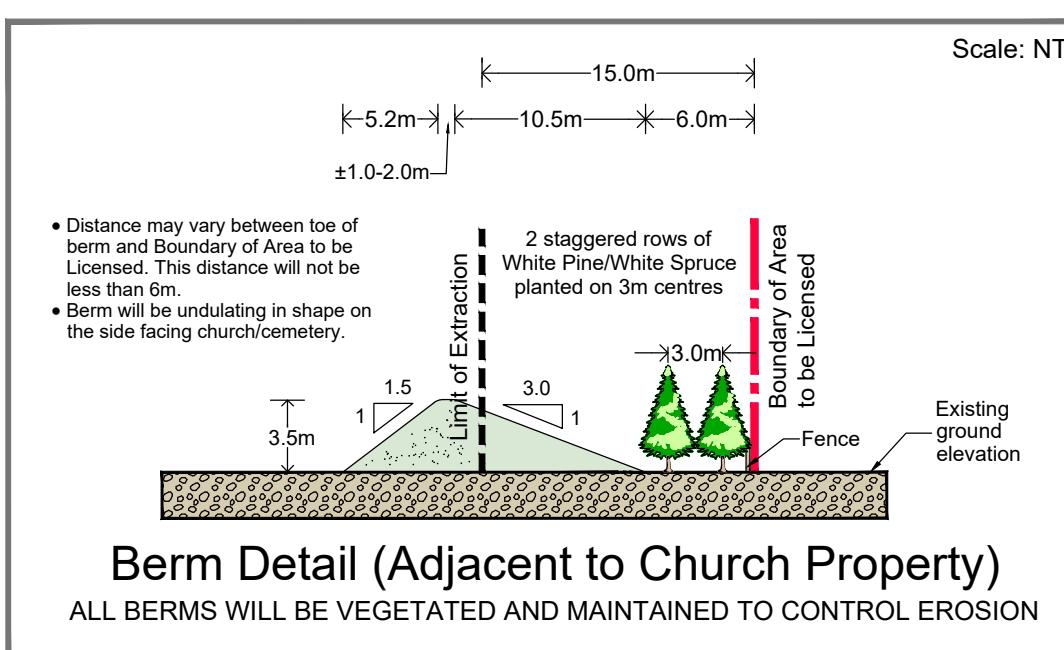
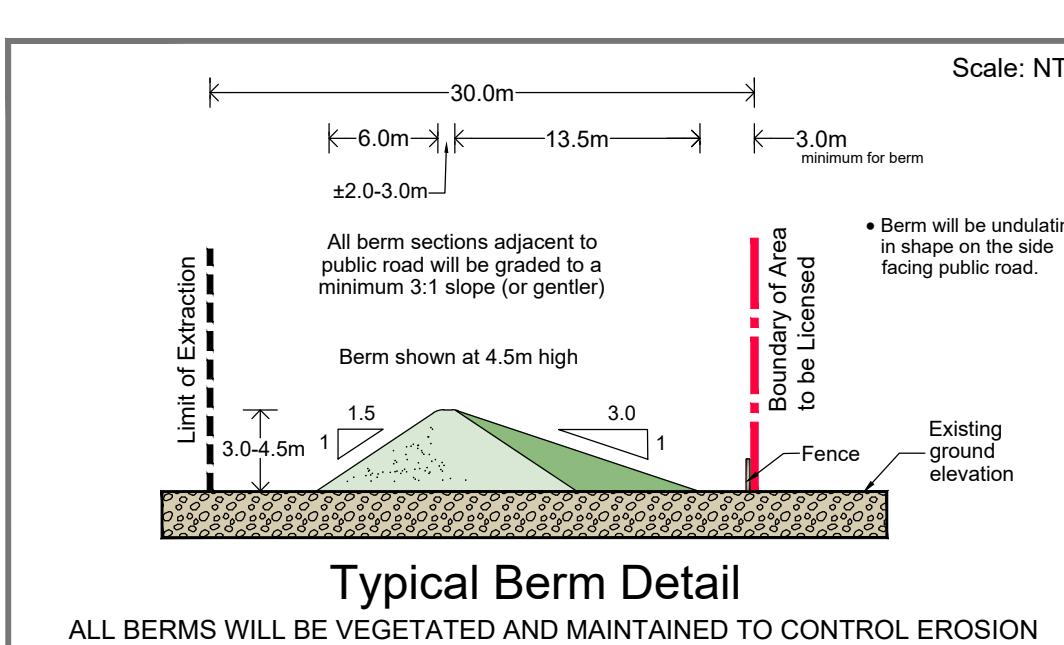
Miller Aggregates
281 Hillmount Road
Suite 101
Markham, Ontario
L6C 2S3

Applicant's Signature


Paris Plains Pit

ARA Licence Reference No.	Pre-approval review:
For Application Submission - December 2023	
Plan Scale 1:4,000 (Arch D) SCALE	
75 50 25 0 50 150 METRES	
Drawn By D.G.S.	File No. 21236A
Checked By C.P.	
File Name	
Drawing No.	
K:21236A-MILLER PAVING-BUDAY LANDS-PARISAIPARIS PLAINS PIT OPERPLAN 20F6 DECEMBER2023.DWG	

OPERATIONAL PLAN 2 OF 6



Phase Notes:

Phase 1

1. The frontage along Paris Plains Church Road and Pinehurst Road will be fenced within 1 year of licence issuance. Licensed boundary limits adjacent to Phase 1 area will be fenced prior to commencement of operations.
2. Fencing is to be 1.2m high post and wire fence. Fencing will be in accordance with the Aggregate Resources Act. A 1.2m gate will be installed prior to commencement of operations at the operational entrance/exit location shown (Pinehurst Road) and kept locked when the pit is not in operation (also see Sequence of Operations on this page). Two emergency/farm access and a farm/ecological enhancement access will be located on Paris Plains Church Road and Pinehurst Road in the locations as shown and will be gated.
3. Strip topsoil and subsoil separately and store in Storage/Visual Berm 1 and/or 2 or Acoustic Berm B.
4. Establish internal haul route for shipping of product off-site.
5. Set up scale and scale house in the approximate location shown on the Sequence of Operations.
6. Complete Ecological Enhancement Plan activities as outlined in Table 1 on page 6 of 6.

7. Extraction in Phase 2 will proceed in a westerly direction (north half of the Phase) and then in a southerly direction (south half of the Phase) and will remain 1.5m above the groundwater table as per proposed spot elevations shown on the Operations Schematic.
8. Initiate rehabilitation of side slopes in Phase 3.
9. Prepare Phase 4 for extraction.

Phase 4

1. Fence licensed boundary limits adjacent to Phase 4 area prior to commencement of operations in this phase.
2. Initiate rehabilitation of pit floor in Phase 3 where operatively feasible. Complete rehabilitation of Phase 3 side slopes to a minimum 3:1 slope. The 10:1 slopes may follow based on availability/timing of soil importation.
3. Strip topsoil and subsoil separately and store in Optional Storage/Visual Berm 3 and/or use in rehabilitation.
4. Initiate rehabilitation of side slopes in Phase 1 (outside of Processing Plant Area) and begin Ecological Enhancement Plan and Rehabilitation Plan as outlined on page 6 of 6.
5. Plant coniferous trees adjacent to the church/cemetery property and on #304 Pinehurst Road as shown.
6. Prepare Phase 5 for extraction.

Phase 5

1. Fence licensed boundary limits adjacent to Phase 4 where operatively feasible. Complete rehabilitation of the 3:1 Phase 4 side slopes.
2. Fence licensed boundary limits adjacent to Phase 5 area prior to commencement of operations in this phase.
3. Strip topsoil and subsoil separately and store in Storage/Visual Berm 2 and/or use in rehabilitation.
4. Extraction will proceed in a westerly direction towards Pinehurst Road until the westernmost limit of extraction area is reached.
5. Initiate Phase 5 rehabilitation.

Phase 6 (Not Shown)

1. Dismantle processing plant. Rehabilitate former sill/settling/source pond areas.
2. Remove any equipment, haul roads and buildings on site.
3. Final rehabilitation to be completed (see Rehabilitation Plan on page 4 of 6).
4. Complete all 10:1 side slopes.

2. Prior to stripping and berm construction in Phase 3, erosion and sediment control fencing shall be installed along the north property boundary of 705 and #709 Paris Plains Church Road (church property). See note L8 on page 3 of 6.
3. Strip topsoil and subsoil and construct Acoustic Berm A or store in Storage/Visual Berm 2 (Acoustic Berm B will only be constructed if R01 is occupied) and/or use in rehabilitation.

A. General
 1. This site plan is prepared under the Aggregate Resources Act (ARA) for a Class A licence for a pit above the ground water table and follows the Aggregate Resources of Ontario: Site Plan Standards August 2020, specifically Operated for all sites (Numbers 33-55 in the standards).
 2. Area Calculations: Licence Area: 125.8 hectares (310.9 acres)
 Limit of Excavation: 105.4 hectares (260.4 acres)
 3. The maximum number of tonnes of aggregate to be removed from this property is 1,000,000 tonnes in any calendar year.
 4. The water table encountered on-site ranges between an elevation of approximately 261.3 and 257.3 (metres above mean sea level) mAMSL. The water table slopes from north or northwest to south or southeast. The existing water table elevations are shown on each cross section on page 5 of 5. Groundwater table elevations provided by MTE (December 8, 2023).
 5. Source Water Protection: The site lies within the Grand River Source Protection Area which is part of the Lake Erie Source Protection Region (LESPR). A portion of the site exists within the Telfer Wellhead Protection Area (WHPA B, C and D). No proposed on-site activities are considered to be significant drinking water threats. See 'Hydrogeology' notes on this page for mitigation measures.
 6. Setbacks will be as shown and labelled on the Sequence of Operations Diagram (page 2 of 6) and on the Existing Features Plan (page 1 of 6).
 7. Agricultural production may continue in areas not under extraction.
 8. The operation of this site does not require any variations to the operational requirements specified in section 0.13 of Ontario Regulation 244/97.

B. Hours of Operation
 1. The proposed hours of extraction and processing shall be limited to the daytime hours only (07:00 to 19:00), with shipping operations limited to the hours of 06:00-18:00.
 On Saturdays, only shipping can occur and this can only take place between 08:00-14:00.

C. Site Access and Fencing
 1. The emergency/farm accesses may be utilized for monitoring, setback maintenance and agricultural access. The accesses shall be gated, 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 these locations.
 2. The site shall be accessed through the operational entrance/exit as shown and will be gated.
 3. A small portion of the boundary of the site is currently fenced. In the first year after licence issuance, fencing will be installed along the Paris Plains Church Road and Pinehurst Road frontages. Fencing will then be installed by phase prior to operations commencing in each phase as operations progress. This fencing will meet ARA requirements.
 4. Excision fencing shall be installed adjacent to the limit of extraction as shown on the Sequence of Operations between the areas to be disturbed and the archaeological sites and wetland/ecological enhancement area prior to commencement of work (see page 5 of 6). Installation of erosion and sediment control fencing will occur along the north property line of the church property during berm construction and will be removed once the vegetation cover/seedling has established (see Note L 'Cultural Heritage' on this page).

D. Drainage
 1. During excavation surface drainage from active pit areas will be detained within the pit area. Drainage will continue to percolate naturally through the soil of unextracted areas of the pit.

E. Site Preparation
 1. Prior to site preparation, a Spills Contingency Plan shall be developed to address any potential spills from equipment on-site. Fuel storage facilities are located in Phase 1. The fuel storage area will be located outside of Wellhead Protection Areas (WHPA) [mobile equipment will be refuelled by fuel trucks or at the fuel storage facilities located in Phase 1].

2. Timber resources (if any) will be salvaged for use as saw logs, fence posts and fuel wood where appropriate. Non-merchantable timber, stumps and brush may be used or mulched for use in progressive rehabilitation and ecological enhancements. Excess material not required for uses mentioned above will be burned (with applicable permits).

3. Topsoil and subsoil shall be stripped and stored separately in accordance with Agricultural Impact Assessment (AIA) recommendations.

4. All available soil will be used as soon as possible for rehabilitation and if excess topsoil and subsoil not required for immediate use in the construction of acoustic berms or rehabilitation, may be temporarily stockpiled inside the licensed area or in optional storage/visual berms during Phases 1 to 3. Topsoil and overburden stockpiles shall be located within the limit of excavation and remain a minimum of 30 metres from the licence boundary and 90 metres from a property with residential use (see also, Operations Schematic on page 2 of 6).

5. Temporary topsoil and subsoil stockpiles which remain for more than one year shall have their slopes vegetated to control erosion.

F. Berms and Screening

1. Berms shall be constructed as specified in the location shown on the Sequence of Operations. The height shown is the minimum required for acoustic berms.
 2. Berm side slopes shall not exceed 1:5.1 on the interior (excavation) side and 2:1 on the exterior side facing Paris Plains Road. See 'Typical Berm Detail' on page 2 of 6.

3. Berm side slopes shall not exceed 3:1 on the exterior side facing the church property (see 'Berm Detail (Adjacent to Church Property)' on page 2 of 6).

4. Berms shall not be located within three (3.0) metres of the licence boundary.

5. The proposed berms shall be constructed and maintained in accordance with the details on page 2 of 6 and will be vegetated to control erosion throughout the operational life of the pit, using a low maintenance grass/legume seed mixture (e.g. MTO Seed Mix or equivalent) composed of Creeping Red Fescue, Perennial Ryegrass, Kentucky Bluegrass and White Clover. Temporary erosion control will be implemented as required.

6. In addition to acoustic berms, optional storage/visual berms may be constructed in the locations as shown.

7. Trees (see Note F11) will be planted within the setback area between the berm and the licensed boundary adjacent to the church and cemetery at commencement of operations. These trees will be planted in front of the berm required for noise attenuation during operations, to provide additional screening to the site and shall be maintained throughout pit operation.

8. A row of trees (see Note F11) will be planted between the haul road and the house at #304 Pinehurst Road at the same time the haul road is being constructed.

9. The portion of berms that are facing public roads or the church property will be constructed so that they are undulating and sculpted to appear more natural.

10. Existing vegetation within the setbacks shall be maintained except where berms are required.

11. The following list is the native trees and shrubs suitable for planting for screening purposes: Red Cedar (*Juniperus virginiana*), White Cedar (*Thuja occidentalis*), White Pine (*Pinus strobus*), White Spruce (*Picea glauca*), Eastern Cottonwood (*Populus deltoides*), Hackberry (*Celtis occidentalis*), Tulip-tree (*Liriodendron tulipifera*), Sassafras (*Sassafras albidum*), White Birch (*Betula papyrifera*), Gray Dogwood (*Cornus racemosa*), Highbush Cranberry (*Viburnum trilobum*), Chokecherry (*Prunus virginiana*), Staghorn Sumac (*Rhus typhina*).

G. Extraction Sequence

1. The operational plan depicts a schematic operations sequence for this property. Phases do not represent any specific or equal time period and blending requirements may require material from adjacent phases. The direction of extraction will be in accordance with the Sequence of Operations diagram shown on page 2 of 6. All extraction, processing and transportation equipment operating within these Phases shall comply with the restrictions identified in Note L 'Noise' (see also Phase Notes on page 2 of 6).

2. Progressive and final rehabilitation will be completed in direct correlation to the development of the pit as the extraction limits in each Phase are reached and enough area is available to ensure that rehabilitation activities will not interfere with the production and stockpiling of aggregate materials (see also Phase Notes on page 2 of 6).

H. Extraction Details

1. The maximum depth of extraction is as shown as spot elevations on the Sequence of Operations drawing (page 2 of 6) and extraction will occur in up to 2 lifts through the five phases as shown on the Sequence of Operations Diagram on page 2 of 6 and in accordance with the Ministry of Labour requirements. The proposed pit floor will be located at an elevation range of 263.0 at MW1 and NW corner of Phase 5) to 259.0 msl or 7.5 m to 14.0 m below the existing ground surface.

2. Only above water excavation will occur across the site. For the majority of the site, the groundwater table is approximately 10m above the ground surface. Excavation will take place with a maximum depth of 14.0 m (Phase 1). See Rehabilitation Plan (page 3 of 6) and Cross Sections Plan (page 6 of 6) for excavation depths and final rehabilitation contours.

3. Aggregate/product stockpiles will be located near the working pit face and in the Processing Plant and Product Stockpile Area of Phase 1 of the pit. Stockpiles will not be located within 30m of the Licensed boundary (see page 2 of 6).

4. Aggregate processing will take place in Phase 1, in the area delineated on the Sequence of Operations drawing, except for primary crusher which will move with the active pit face and subject to noise recommendations in L1 on this page (also see page 2 of 6).

5. Internal haul road locations will vary as extraction progresses. The haul road will transport materials from east part of the site in a westerly direction to access the operational entrance/exit on Pinehurst Road.

I. Equipment and Processing

1. The equipment used on site for aggregate operations may include and is limited to: Processing Plant (may consist of crushing, screening and washing), 2 Shipping Loaders, Portable Plant, 2 Extraction Loaders, Excavator, Highway Trucks, and Conveyors.
 2. The wash plant, including associated activities (e.g. source pond, silt pond etc.), is planned to be located in the Processing Plant Area in Phase 1 subject to applicable Permit to Take Water.

J. Fuel Storage

1. Fuel or associated products may be stored on site in Phase 1 outside of the Wellhead Protection Area (WHPA). See Sequence of Operations drawing on page 2 of 6. The licensee or permittee shall ensure that fuel storage tanks are installed and maintained in accordance with the Technical Standards and Safety Act, 2000 [O.Reg 244/97 Section 0.12 (3) (1) (See also 'Hydrogeology' notes on this page). Mobile equipment will be refuelled by fuel trucks or at the fuel storage facilities located in Phase 1.

K. Scrap, Recycling and Accessory Aggregate Uses

1. Scrap will be stored on site within the Processing Plant Area. Scrap will only include materials derived from the operation of the pit such as scrap metal or lumber, discarded machinery and equipment. Scrap will not be located within 30m of any body of water or within 30m of the boundary of the site. All scrap will be removed on an ongoing basis. The property will be kept in an orderly condition.
 2. Recycling activities:
 a. Recycling of concrete, asphalt and other aggregate products, will be permitted on site and stored in the plant area of Phase 1.
 b. Recyclable asphalt materials will not be stockpiled within:
 • 30m of any water body or man-made pond; or
 • 2 m of the surface of the established water table.
 c. Any rebar and other structural metal must be removed from the recycled material during processing and placed in a designated scrap pile on site which will be removed on an on-going basis.
 d. Removal of recycled aggregate is to be ongoing.
 e. Once the aggregate on site has been depleted there will be no further importation of recyclable materials permitted.
 f. Once final rehabilitation has been completed and approved in accordance with the site plan, all recycling operations must cease.
 g. Shall not interfere with the operational phases of the site or rehabilitation of the site.

3. Aggregates from outside the site may be imported onto the site subject to the following:
 a. Imported aggregate may be crushed, processed and/or blended with on-site and/or imported material.
 b. 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 ARA.
 c. The quantity of imported aggregate removed from the site each year shall count toward the maximum annual tonnage limit.

L. Report Recommendations (cont'd)

1. **Noise: (cont'd)**
Noise Controls Specific to Receptor R01:
 If R01 is occupied during extraction of the phases listed below, the following additional noise controls shall be employed:

General (R01 Occupied)
 a. During processing operations, an acoustic barrier shall be located between the Processing Plant and Wash plant and Receptor R01, with a minimum height of 12 m within 30 m of these sources.

Phase 2 (R01 Occupied)
 v. Prior to extraction or processing operations in the Phase 2 area, an acoustic barrier with a minimum height of 4.5 m and a length of approximately 330 m shall be installed as shown on the Operational Plan (Berm B) and shall remain in place for the duration of extractive and processing operations within the pit while Receptor R01 is occupied.

w. During extraction or processing within the Phase 2 area, an acoustic barrier with a minimum height of 9 m shall be located within 30 m of the Portable Plant, between the Portable Plant and Receptor R01.

Phase 3 (R01 Occupied)
 x. Prior to extraction or processing operations in the Phase 3 area, Berm B shall be extended 260 m to the west with a minimum height of 4.5 m as shown on the Operational Plan, and shall remain in place for the duration of extractive and processing operations within the pit while Receptor R01 is occupied.

y. During extraction or processing within the Phase 3 area, an acoustic barrier shall be located between the Portable Plant and R01 with either a minimum height of 9 m within 30 m of the plant, or a minimum height of 12 m within 60 m of the plant.

z. While R01 is occupied, the Portable Plant shall not operate within 250 m of the south property line of the Phase 3 area.

aa. While R01 is occupied, extraction operations within 250 m of the south property line shall be limited to a single Small Extraction Loader and one Excavator, or acoustically equivalent.

Phase 4 (R01 Occupied)
 ab. During extraction or processing within the Phase 4 area, an acoustic barrier shall be located between the Portable Plant and Receptor R01 with either a minimum height of 9 m at a distance of 30 m, or a minimum height of 12 m at a distance of 60 m.

ac. While R01 is occupied extraction operations within 350 m of the south Phase 4 property line shall be limited to a single Small Extraction Loader and one Excavator, or acoustically equivalent.

2. Hydrogeology: "Miller Aggregates Paris Plains Road Pit - Maximum Predicted Water Table Report, Proposed Class A Pit Above Water Table" December 8, 2023 (Source: MTE Consultants Inc.)

Groundwater Monitoring Program:

a. A survey shall be conducted on water supply wells within one kilometre of the Site prior to the commencement of extraction. Completed well surveys shall be assessed to determine their suitability for long term monitoring as part of a Private Well Monitoring Program.

b. Manual water levels shall be collected on a seasonal basis, three times per year, once in the spring, summer and fall, at the on-Site monitoring wells, mini-piezometers and participating domestic wells.

c. An annual groundwater monitoring program shall extend throughout the life of the operation to obtain confirmatory water table elevations as the pit develops.

d. The results of the monitoring shall be retained on-file by Miller Aggregates and be made available upon request by agencies such as the MNRF, MECP, or County of Brant.

e. Monitoring wells that may be destroyed by extraction activities shall be decommissioned according to the Wells Regulation (O.Reg. 903) and subsequently replaced (with the exception of MW4 and MW5) at a location that will ensure the new monitoring wells will remain intact to allow groundwater monitoring to continue.

f. MW1, MW7, MW8, and MW9 shall be sampled for water quality once per year during the operating season for the life of the proposed pit to track trends in water quality. Samples shall be analyzed for general chemistry including select metals, petroleum hydrocarbons (PHC) in the F1 through F4 fraction, and BTEX (benzene, toluene, ethylbenzene, and xylenes).

Maximum Predicted Groundwater Table and the Proposed Pit Floor:

g. The maximum depth of extraction shall not occur within 1.5 m of the maximum predicted high water table across the Site. In an effort to maximize extractable aggregate while still meeting regulatory and grading constraints, MTE recommends the following elevations for the pit floor in each phase, according to Table 3 in the text of Section 5.5 of the Report:

-Phase 1: 261.5 mAMSL (NW corner) to 260.5 mAMSL (SE corner);

-Phase 2: 262.0 mAMSL (N boundary) to 259.0 mAMSL (S boundary);

-Phase 4: 263.0 mAMSL (NW corner) to 260.0 mAMSL (S boundary);

-Phase 5: 263.0 mAMSL (NW corner) to 261.5 (SE corner).

h. Should the water table occur at higher elevations than anticipated based on the results of the ground water monitoring program, the depth of extraction shall be adjusted to ensure a minimum of 1.5 metres is maintained above the water table.

Fuel Storage:

1. Temporary fuel storage facilities are located in a designated area. The designated area will be located outside of Wellhead Protection Areas.

2. All fuelling activities will be in accordance with the Liquid Fuels Handling Code, Technical Standards and Safety Act, 2000, as amended.

3. Mobile vehicles will be fuelled in a designated area located outside Wellhead Protection Areas. Immobile equipment may be re-fuelled with a fuel delivery truck outside of Wellhead Protection Area B.

4. Fuel delivered to the Site will be stored within a horizontal double walled steel fuel tank meeting all current regulated standards.

5. Fuel hoses on fuel storage tanks will be locked when unattended.

6. Secondary containment measures will be added to the fuel intakes of crushing and screening equipment to protect against accidental spills while being fuelled by a fuel truck in the active area of the pit.

7. Extraction shall occur in a single lift with extraction and processing equipment operating on the pit floor.

Phase 1:

1. When the Processing Plant and Portable Plant are operating simultaneously within Phase 1, an acoustic barrier shall be located between the Portable Plant and Receptor R25, with a minimum height of 8 m within 30 m of these sources.

Phase 2:

1. When the Processing Plant is operating in Phase 2, an acoustic barrier shall be located between both the Portable Plant and Receptor R25, with a minimum height of 8 m within 30 m of this source.

Phase 3:

1. Prior to extraction or processing in Phase 3, an L-shaped acoustic barrier with a minimum relative height of 3.5 m and a length of approximately 330 m shall be installed on the south boundary as shown (Berm A) on the Operational Plan. This barrier shall remain in place for the remainder of extraction and processing operations within the pit.

2. Extraction in the southern half of the Phase 3 area shall proceed from north to south.

3. During extraction in Phase 3 within 400 m of the south property line, an acoustic barrier such as a working face shall be located between the extraction equipment and Receptors R02 and R03, with a height of 12 m within 40 m of the equipment.

4. During extraction in Phase 3 within 400 m of the south property line, an acoustic barrier shall be located between the Portable Plant and Receptors R02 and R03 with either a minimum height of 9 m within 30 m of the plant, or a minimum height of 12 m within 60 m of the plant.

5. The Portable Plant shall not operate within 200 m of Receptors R02 and R03.

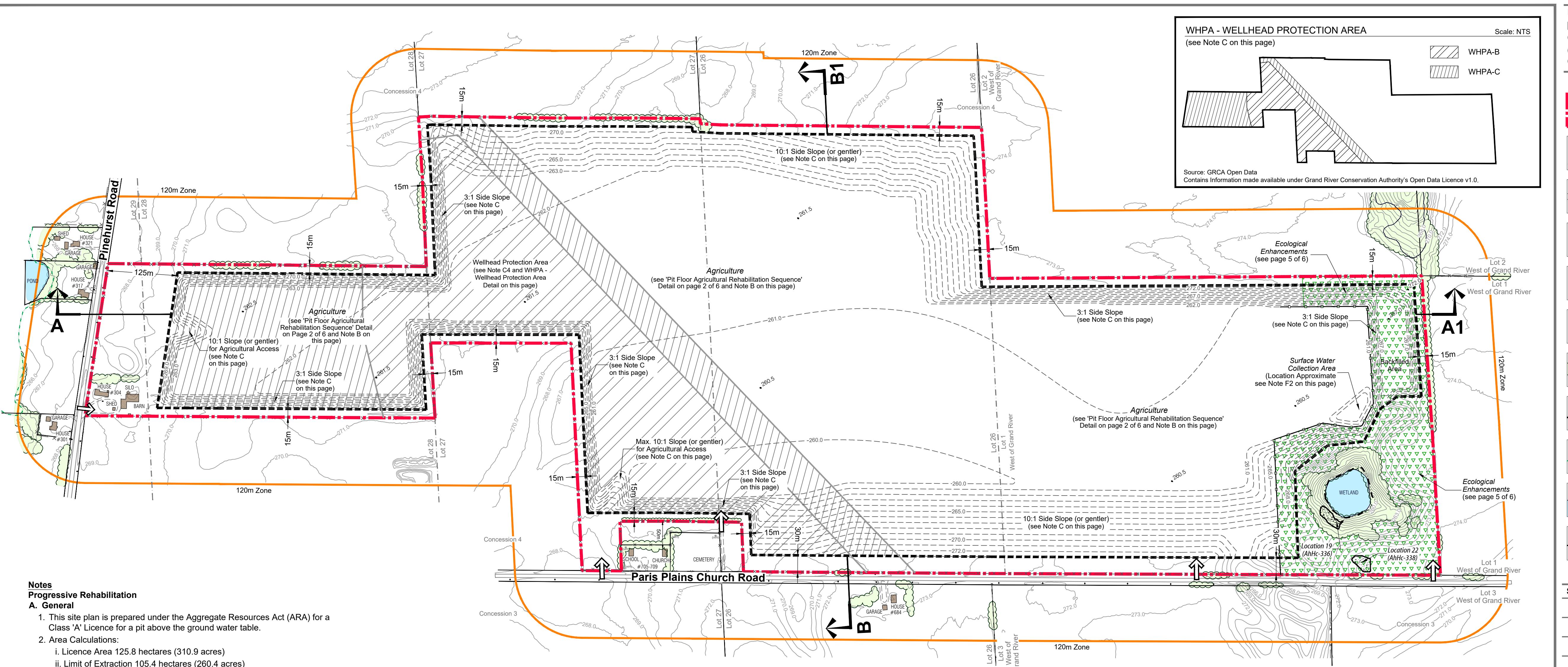
6. Extraction in Phase 4 within 200 m of Receptors R02 and R03 shall be limited to a single Small Extraction Loader and one Excavator, or acoustically equivalent.

Phase 5:

1. No additional noise controls are required during the extraction of Phase 5.

L. Report Recommendations (cont'd)

1. **Archaeology: (cont'd)**



Notes

Progressive Rehabilitation

A. General

1. This site plan is prepared under the Aggregate Resources Act (ARA) for a Class 'A' Licence for a pit above the ground water table.
2. Area Calculations:
 - i. Licence Area 125.8 hectares (310.9 acres)
 - ii. Limit of Extraction 105.4 hectares (260.4 acres)
3. The maximum depth of extraction is identified with spot elevations and contours on the drawing and shall remain a minimum of 1.5m above the water table.

B. Phasing

1. As excavation reaches the limit of extraction and/or maximum depth in each phase, progressive rehabilitation shall commence.
2. Progressive rehabilitation will follow the direction and sequence of extraction described in the Phase notes on page 2 of 6, as well as illustrated in the Progressive Rehabilitation Sequence schematic on page 2 of 6.
3. As outlined in the Extraction Sequence notes on page 2 of 6 and shown in the Progressive Rehabilitation Sequence schematic on page 2 of 6, each Phase of extraction shall initiate progressive rehabilitation, prior to proceeding to the next phase of extraction. Internal haul roads are permitted to remain in progressively rehabilitated areas, but shall be removed as part of final rehabilitation.
4. The timing of ecological enhancement activities shall be in accordance with Table 1 on page 5 of 6.
5. Progressive rehabilitation shall commence in Phase 1 and shall closely follow the westerly direction of extraction. In Phase 1, the north, south and east side slopes shall be progressively rehabilitated including the completion of ecological enhancements (see page 5 of 6). The processing area in Phase 1 shall remain until extraction in Phase 5 is complete. Progressive rehabilitation shall closely follow the westerly direction of extraction in Phase 2, Phase 3, Phase 4, and Phase 5.
6. Progressive rehabilitation activities will include grading and sloping, placement of topsoil and subsoil, agricultural rehabilitation activities, seeding of side slopes and the completion of the ecological enhancement area plantings where identified on the plan view.

C. Slopes and Grading

1. Progressive rehabilitation will utilize a variety of rehabilitation techniques including:
 - i. Backfilling extraction faces; and
 - ii. the pit floor
2. Side slopes shall vary but will be a minimum of 3:1 and shall be created using on-site material, imported material, and silt from the settling pond. See Section M Variations from Control and Operational Standards on Drawing 2 of 3.
 - i. The 10:1 side slopes shown on the drawing shall be created in Phase 1, Phase 2, Phase 3, and Phase 4, using on-site imported material.
 - ii. The 3:1 slopes shown in all Phases on the drawing may be gentler if sufficient on-site material is available that can be used for slope creation.
3. Access ramps shall be incorporated into the side slopes in the locations shown on the plan view. Ramps shall not exceed a 10:1 (horizontal to vertical) slope.
4. Excess soil, as defined in Ontario Regulation 244/97, may be imported to this site to facilitate the following rehabilitation:
 - i. Establishing side slopes outside of the Well Head Protection Area-B and Well Head Protection Area C.
 - ii. Top dressing to establish vegetation / agricultural crops outside of Well Head Protection Area B and Well Head Protection Area C.

F. Agricultural Rehabilitation

1. Within the extraction area, a minimum of 92.8 hectares shall be returned to an agricultural condition (in accordance with the 'Pit Floor Agricultural Rehabilitation Sequence' detail on this drawing) with an average soil capability classification of CL1 Class 1. The areas returned to an agricultural condition shall consist of the pit floor and maximum 10:1 side slopes (gentler if enough soil available).
2. The technical recommendations from the Agricultural Impact Assessment, included in note L5 on page 3 of 6, shall be implemented during progressive and final rehabilitation to restore 92.8 hectares of the extraction area to an agricultural condition.

G. Ecological Enhancements

1. Approximately 8.8 ha within the eastern portion of the site shall be rehabilitated as per Ecological Enhancement Plan and Rehabilitation Plan (Natural Environment) See page 5 of 6 for details.

Final Rehabilitation

H. General

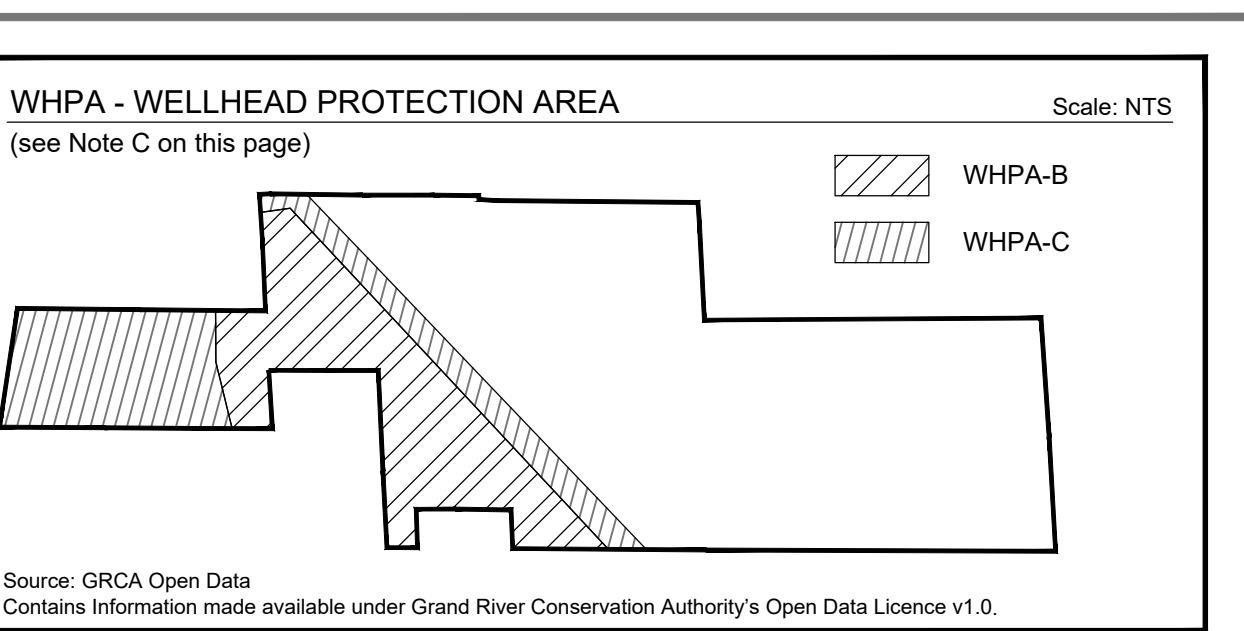
1. All equipment shall be removed from the site.
2. No buildings, structures or haul roads on the pit floor shall remain.
3. Access ramps shall remain to access the rehabilitated floor.
4. The water table encountered on-site ranges between an elevation of approximately 261.3 and 257.3 (metres above mean sea level) mAMSL. The maximum predicted water table is shown on each cross section Drawing 4 of 5 and Drawing 1 of 3.
5. The anticipated final end use is primarily agricultural with ecological enhancements. Also, a surface water collection area in Phase 1 will be created to assist with pit floor drainage following extraction.

E. Seeding

1. Any 3:1 side slopes shall be top-dressed with 10-15 centimetres of topsoil. Slopes shall be seeded with the Ministry of Transportation - Ontario (MTO) Standard Roadside Mix (OPSS.MUNI 804) or equivalent to establish vegetation quickly and reduce the potential for erosion. The MTO Standard Roadside Mix is comprised of 50% Creeping Red Fescue (Festuca rubra), 35% Perennial Ryegrass (Lolium perenne), 10% Kentucky Bluegrass (Poa pratensis) and 5% White Clover (Trifolium repens). The MTO Standard Roadside Mix shall be applied at an application rate of 130 kilograms per hectare.

F. Drainage

1. The final surface drainage will follow the rehabilitation contours as shown on the plan view and/or will be by infiltration.
2. A surface water collection area shall be located in Phase 1.



Legal Description
Part of Lots 26 to 29 and Part of Lot 1 West of Grand River
Concession 4
(Geographic Township of Dumfries)
County of Brant

Legend

	Boundary of Area to be Licensed
	Contour with Elevation METRES ABOVE SEA LEVEL
	Proposed Contour METRES ABOVE SEA LEVEL (m A.S.L.)
	Proposed Elevation REHABILITATED ELEVATION
	Ecological Enhancements
	Archaeological Site SITE RECOMMENDED FOR FURTHER ARCHAEOLOGICAL FIELD WORK
	Field Access
	Existing Fence 1.2m POST & WIRE FARM FENCE UNLESS OTHERWISE NOTED
	Existing Vegetation APPROXIMATE LOCATION
	Wetland (PSW) GOODBAN ECOLOGICAL CONSULTING INC. 2023
	GRCA Wetland (PSW) GRCA 2022
	Drainage Feature AS LABELLED
	Cross Sections SEE PAGE 5 OF 6 FOR EXISTING AND REHABILITATED CROSS SECTIONS

Site Plan Amendments

No.	Date	Description	By



Applicant



Miller Aggregates
281 Hillmount Road
Suite 101
Markham, Ontario
L6C 2S3

Applicant's Signature

Project

Paris Plains Pit

ARA Licence Reference No.

Pre-approval review:

For Application Submission - December 2023

Plot Scale 1:4 [1mm = 4 units] MODEL

Drawn By D.G.S.

File No. 21236A

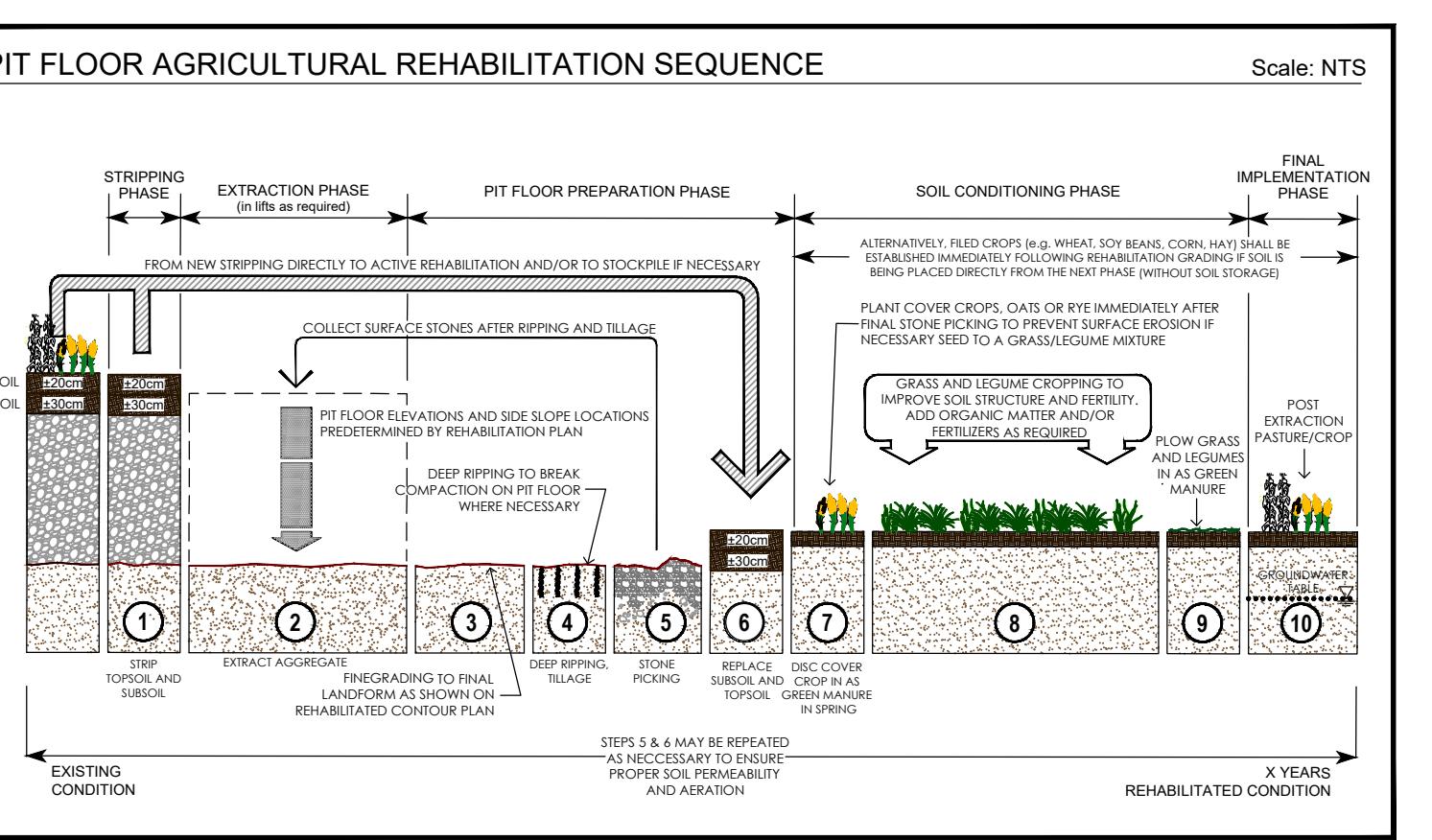
Checked By C.P.

File Name

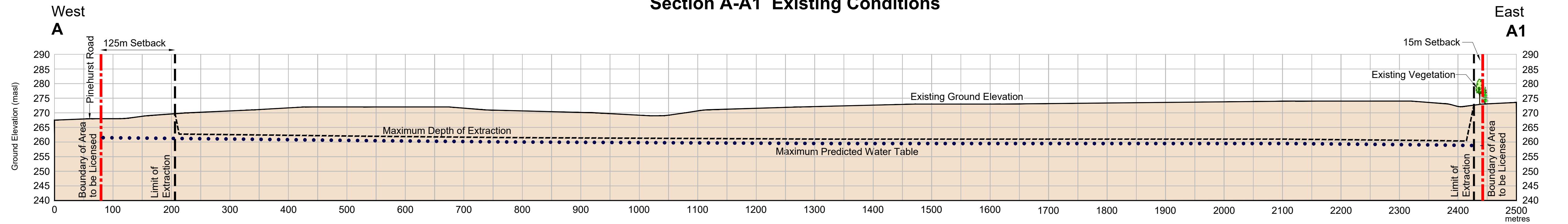
REHABILITATION PLAN

4 OF 6

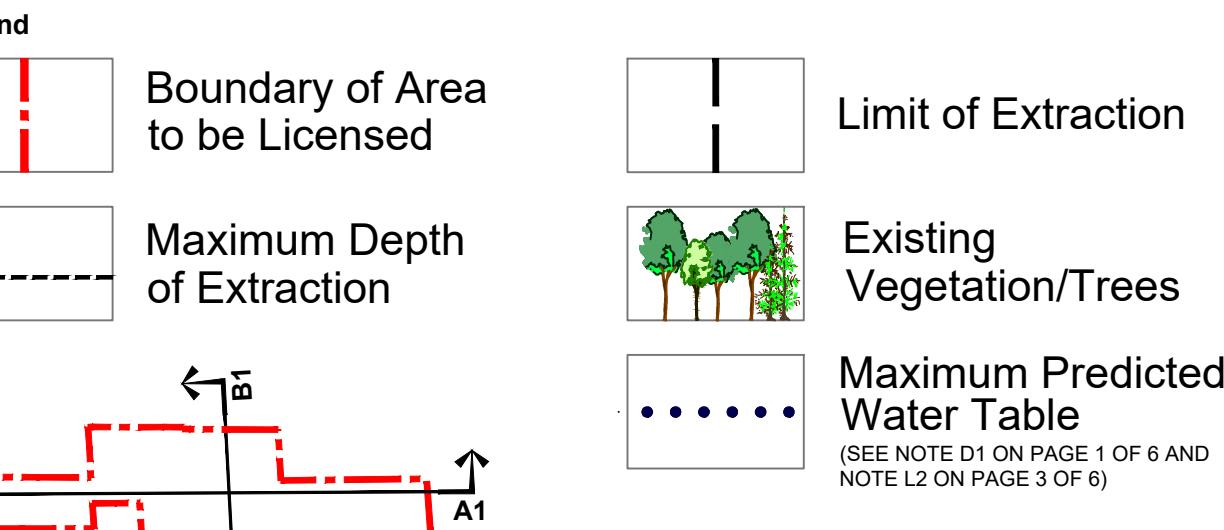
K121236A-MILLER PAVING-BUDAY LANDS-PARIS/PAIRIS PLANT REHAB PLAN 4 OF 6 DECEMBER2023.DWG



Section A-A1 Existing Conditions



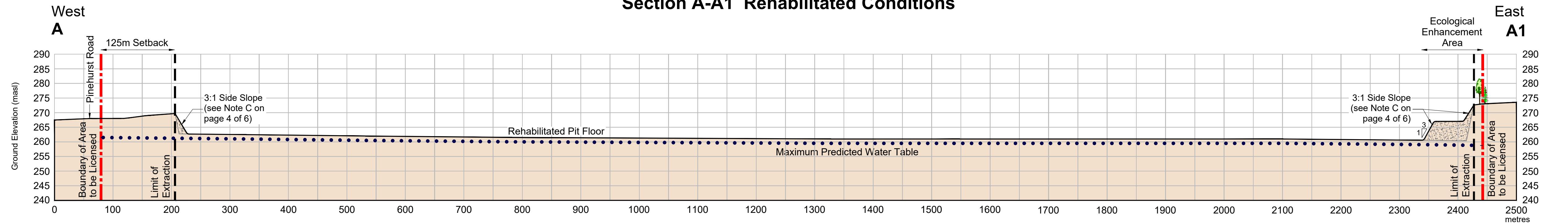
Legal Description
Part of Lots 26 to 29 and Part of Lot 1 West of Grand River
Concession 4
(Geographic Township of Dumfries)
County of Brant



Cross Sections

SEE PAGES 1, 2 & 4 OF 6 FOR PLAN
VIEW LOCATION OF CROSS SECTIONS

Section A-A1 Rehabilitated Conditions



Site Plan Amendments

No.	Date	Description	By



Applicant



Miller Aggregates
281 Hillmount Road
Suite 101
Markham, Ontario
L6C 2S3

Applicant's Signature


Ken Zimmerman
Miller Aggregates

Project

Paris Plains Pit

ARA Licence Reference No.	Pre-approval review:
For Application Submission - December 2023	
Plan Scale: 1:4,000 (Horizontal) / 5x Exaggeration (Vertical)	
Plot Scale: 1:4 [1mm = 4 units] MODEL	
HORIZONTAL SCALE	
75 50 25 0 50 150 METRES	
Drawn By D.G.S. File No. 21236A	
Checked By C.P.	
File Name	

CROSS SECTIONS PLAN

6 OF 6

K:121236A-MILLER PAVING-BUDAY LANDS-PARISIA/PARIS PLAINS PIT XSEPLAN 60F6 DECEMBER2023.DWG

For all Cross Sections
Horizontal Scale - 1:4,000
Vertical Scale - 5x Exaggeration

