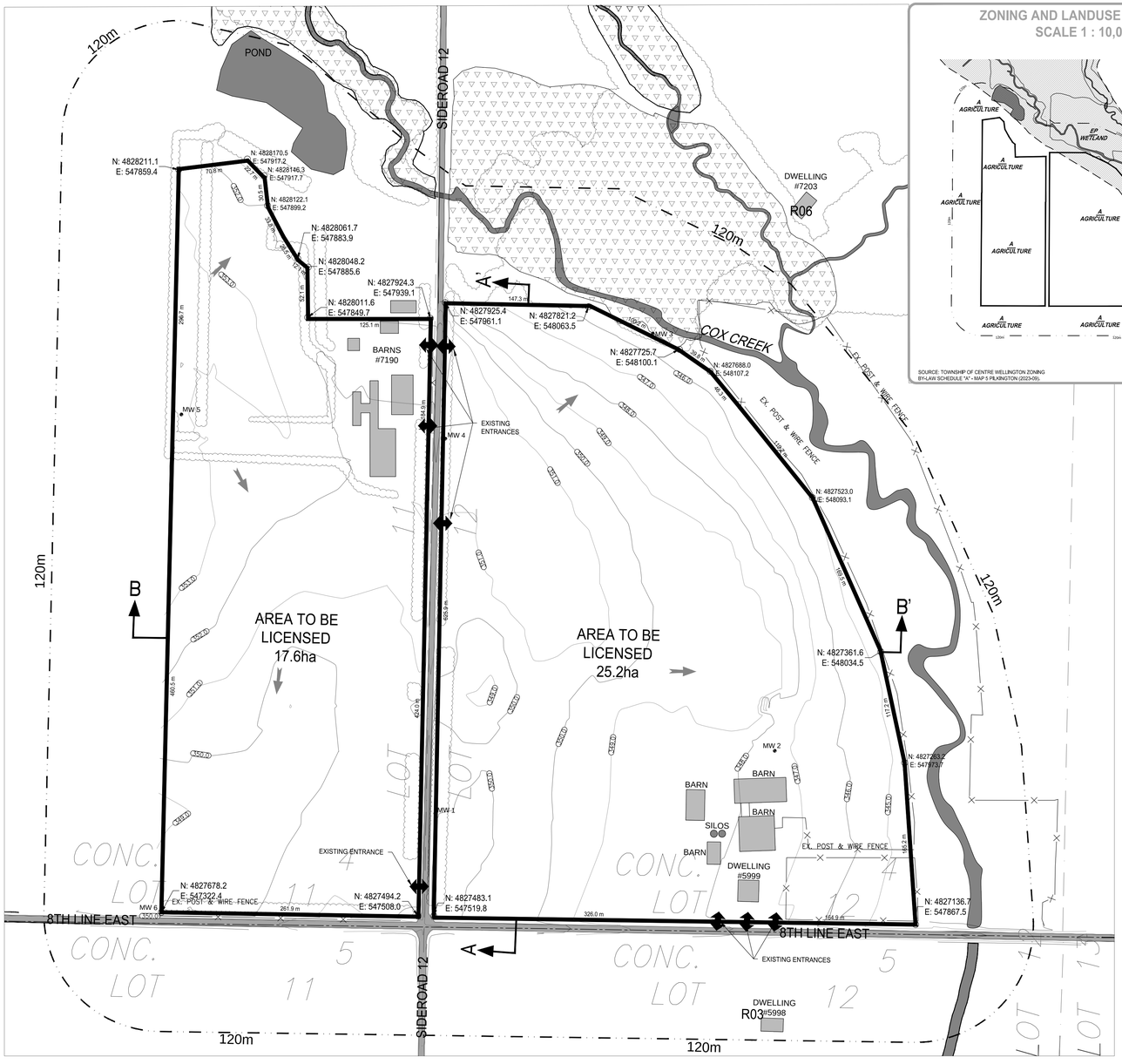


ZONING AND LANDUSE SCHEDULE
SCALE 1 : 10,000

SOURCE: TOWNSHIP OF CENTRE WELLINGTON ZONING BY-LAW SCHEDULE "A" - MAP 5 PILKINGTON (2023-09).

LEGEND

- LICENCE BOUNDARY
- LOT LINE
- CONCESSION LINE
- 120m FROM LICENCE BOUNDARY
- EXISTING ENTRANCE / EXIT
- STRUCTURE / HOUSE
- 344.0 — EXISTING CONTOURS (Masl)
- MW 1 — MONITORING WELL
- A A' — CROSS SECTION LOCATION
- 100.0 m — SITE BOUNDARY LENGTH
- EXISTING TREE COVER
- EXISTING WATERCOURSE/POND
- EXISTING WETLAND LIMIT (MNR)
- EXISTING FENCE
- R01 — RECEPTOR

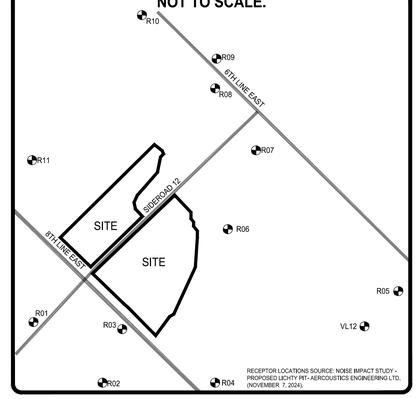
EXISTING FEATURES

1. THIS PLAN IS PREPARED UNDER THE AGGREGATE RESOURCES ACT FOR A CLASS A LICENCE FOR A PIT ABOVE THE GROUND WATER TABLE.
2. THIS SITE IS AN AGRICULTURAL FIELD. THE EXISTING FARM ENTRANCES ARE SHOWN ON THIS PLAN.
3. THERE ARE NO EXISTING STOCKPILES OF SOIL OR AGGREGATE ON THE SITE.
4. THE HOUSE AND FARM BUILDINGS OR STRUCTURES ARE SHOWN ON THE PLAN.
5. THE EXISTING SURFACE WATER DRAINAGE IS SHOWN ON THIS PLAN. THERE ARE NO WATERCOURSES, PONDS OR WETLANDS ON THE SITE.
6. FUEL IS STORED AT THE FARMSTEAD AT LOT 12 (LICHTY) FOR AGRICULTURAL USE. THERE ARE NO SCRAP AREAS ON THE SITE.
7. THE SITE IS ZONED A (AGRICULTURAL) AND ENVIRONMENTAL PROTECT (EP). THE SITE IS ALSO WITHIN THE GRAND RIVER SOURCE PROTECTION AREA.
8. THE EXISTING GROUNDWATER LEVEL VARIES FROM 344 masl TO 350.7 masl.
9. AREA TO BE LICENCED = 42.7 ha.
   AREA TO BE EXTRACTED = 28.4ha.
10. ALL MEASUREMENTS SHOWN ON THE SITE PLANS ARE IN METRES UNLESS OTHERWISE NOTED.

REFERENCES

1. TOPOGRAPHIC INFORMATION PROVIDED BY STOVEL AND ASSOCIATES INC. (2022).
2. HYDROGEOLOGIC REPORT - PROPOSED LICHTY PIT - GROUNDWATER SCIENCE CORP (JULY 2024).
3. NOISE IMPACT STUDY - PROPOSED LICHTY PIT- AERCOUSTICS ENGINEERING LTD. (NOVEMBER 7, 2024).
4. NATURAL ENVIRONMENT TECHNICAL REPORT PROVIDED BY STOVEL AND ASSOCIATES INC. (2023).
5. ARCHAEOLOGICAL STAGE 1 AND 2 REPORT PROVIDED BY LINCOLN ENVIRONMENTAL CONSULTANTS (2023).
6. TOWNSHIP OF CENTRE WELLINGTON ZONING BY-LAW SCHEDULE "A" - MAP 5 PILKINGTON (2023-09).
7. GRCA FLOOD PLAIN MAPPING. (2023).
8. MNR WETLAND MAPPING (2025).

NOISE RECEPTOR LOCATIONS
NOT TO SCALE.

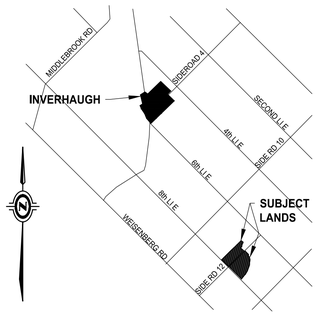


RECEPTOR LOCATIONS SOURCE: NOISE IMPACT STUDY - PROPOSED LICHTY PIT- AERCOUSTICS ENGINEERING LTD. (NOVEMBER 7, 2024).

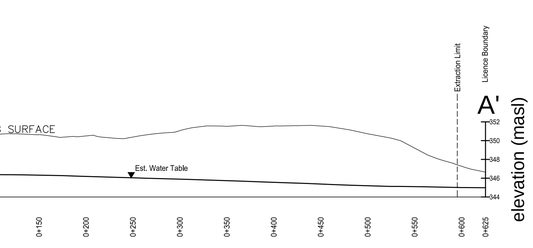
LICHTY PIT

5999, 6043, 8TH LINE EAST
& 7190 SIDEROAD 12
PART OF LOTS 11 & 12, CONCESSION 4 WEST
TOWNSHIP OF CENTRE WELLINGTON
TOWNSHIP OF PILKINGTON
COUNTY OF WELLINGTON

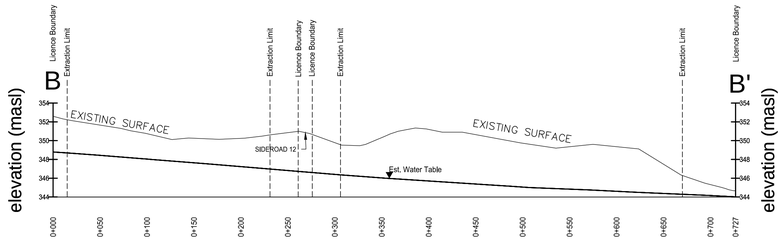
PAGE 1 OF 3
EXISTING FEATURES



KEY PLAN
N.T.S



CROSS SECTION – EXISTING FEATURES
HORIZONTAL SCALE: 1:3000 VERTICAL EXAGGERATION 10x



CROSS SECTION – EXISTING FEATURES
HORIZONTAL SCALE: 1:3000 VERTICAL EXAGGERATION 10x

LICENSEE:

THOUME CONSTRUCTION LTD.

James Thoume Construction Ltd.
7270 Side Road 14 Ariss, ON N0B 1B0
TEL: 519-836-2039

APPLICANT
SIGNATURE: ---------- DATE: ----------

THIS PLAN IS PREPARED UNDER THE AGGREGATE RESOURCES ACT FOR A CLASS A LICENCE FOR A PIT ABOVE THE GROUND WATER TABLE.

THESE SITE PLANS HAVE BEEN PREPARED UNDER THE DIRECTION AND CERTIFIED BY A PERSON APPROVED BY THE MINISTER OF NATURAL RESOURCES.

SIGNATURE: ---------- DATE: ----------
Robert P. Stovel

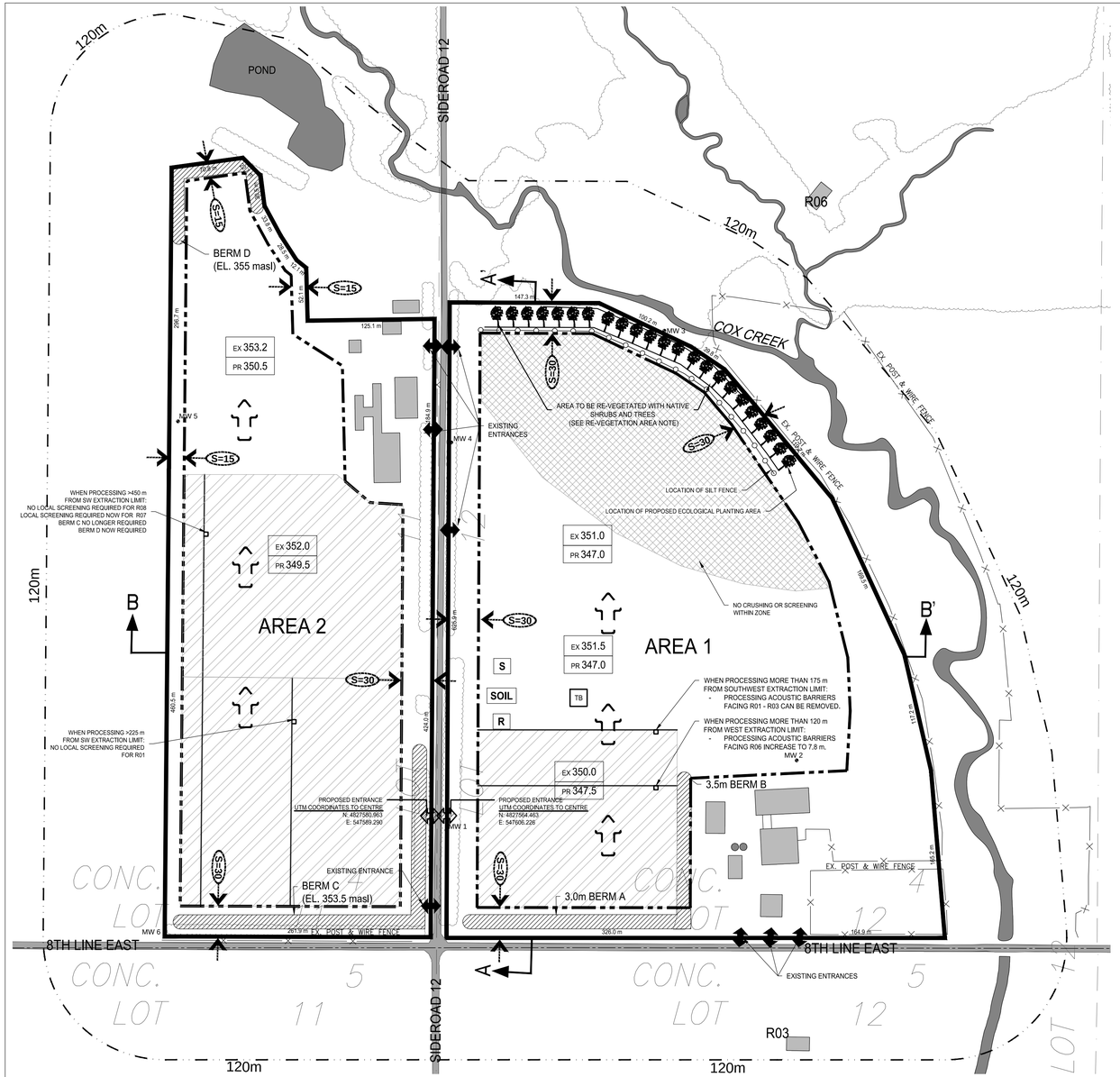
APPROVED: R.P.S.	PLOTTED: November 13, 2025	REVISION NO.: 2	REVISION DATE: November 13, 2025
DRAWN: S.M.S.	FILE: (SITE PLANS)LICHTY-PILKINGTON-SS-11-11-2025.DWG		

NO.	DATE	DESCRIPTION	APP'D	APP'D DATE
1	August 9, 2024	ORIGINAL SUBMISSION		
2	August 19, 2025	REVISED PER MNR COMMENTS		
3	November 13, 2025	REVISED PER MNR COMMENTS		

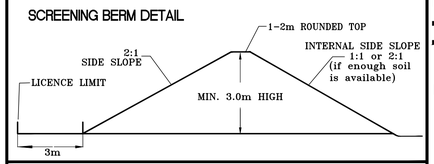
AMENDMENTS

NORTH
Meters
75 0 75 150
1:2500.002

STOVEL and Associates Inc.
651 ORANGEVILLE RD FERGUS, ON N1M 1T9
PHONE 519-766-8042
EMAIL STOVEL.ASSOCIATES@OUTLOOK.COM



SCREENING BERM DETAIL

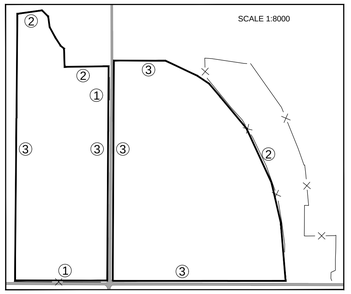


FENCE DIAGRAM AND SCHEDULE

DESCRIPTION:

1. EXISTING FENCE TO BE INSPECTED AND REPAIRED AS NEEDED AT OUTSET OF OPERATIONS IN RESPECTIVE PHASE.
2. FENCE OVERRIDE PERMITTED THROUGH AGREEMENT WITH ABUTTING LANDOWNER LICENCE. UNFENCED LICENSED BOUNDARIES WILL BE STAKED FOR IDENTIFICATION PURPOSES IN LOCATIONS WHERE STAKING WILL NOT INTERFERE WITH THE ADJACENT LAND. USES.
3. PAIGE - WIRE AND POST FENCE (OR SIMILAR) TO BE INSTALLED AT OUTSET OF RESPECTIVE OPERATION PHASE.

NOTE:
Unfenced licensed boundaries will be staked for identification purposes in areas where staking will not interfere with adjacent agricultural activities.



Agricultural Impact Assessment Recommendations:

- Maximum disturbed area will not exceed 15 ha. Disturbed areas shall include active extraction areas, stockpile areas, internal haul routes, areas being progressively rehabilitated and berms (until the berms are vegetated). Areas that have been side-sloped and vegetated, including berms that have been vegetated, shall not constitute disturbed areas.

NATURAL ENVIRONMENT TECHNICAL Recommendations:

- Maintain a 30 m setback to adjacent Wetlands.
- Maintain a 10 m setback to the dripline of Woodland Limits.
- Use a heavy-duty silt fence to mark the extraction limits in areas next to the Wetland/Woodland systems. The silt fence shall be monitored and repaired/replaced as needed. The status of silt fence shall be recorded in the annual compliance report.
- The 30 m setback in the Northeast portion of Area 1 to be re-vegetated with native shrubs and trees.

MONITORING PROGRAM (GROUNDWATER SCIENCE CORP., 2024)

In order to confirm water table elevations at the site, the following monitoring program is recommended for a period of 3 years:

1. *For a period of 3 years water level measurements shall be obtained on a quarterly (seasonal basin at MW1, MW2, MW3, MW4, MW5, and MW6, as accessible.*
2. *The monitoring results will be summarized annually by the Operator and made available to the MNR upon request.*

ARCHAEOLOGICAL TECHNICAL RECOMMENDATIONS, (LEC, 2021)

Should previously undocumented archaeological resources be discovered, they may be a new archaeological site and therefore subject to Section 48(1) of the Ontario Heritage Act. The proponent or person discovering the archaeological resources must cease alteration of the site immediately and engage a licensed consultant archaeologist to carry out archaeological fieldwork, in compliance with Section 48(1) of the Ontario Heritage Act.

The Cemeteries Act, R.S.O. 1990 c. C.4 and the Funeral, Burial and Cremation Services Act, 2002, S.O. 2002, c.33 (when proclaimed in force) require that any person discovering human remains must notify the police or coroner and the Registrar of Cemeteries at the Ministry of Consumer Services.

Archaeological sites recommended for further archaeological fieldwork or protection remain subject to Section 48(1) of the Ontario Heritage Act and may not be altered, or have artifacts removed from them, except by a person holding an archaeological license.

SPILLS CONTINGENCY AND RESPONSE PROGRAM: (FOR PIT OPERATIONS)

1. Liquid petroleum products (fuels, oil) or other hazardous liquid chemicals associated with the pit operation shall not be stored on-site on a permanent basis. Temporary storage of fuels and oils to facilitate the operation of vehicles and equipment is permissible,
2. Temporary fuel storage facilities shall be inspected for leaks on a regular basis when pit operations are occurring.
3. Spills containment materials (for example, absorbency materials and portable containers) are to be available on-site as part of the temporary fuel storage equipment.
4. In the case of an accidental spill of fuel or oil, the following action is to be taken:
   a. If the spill volume is approximately 5 L or more, or the spill occurs directly to a surface water feature, contact the Spills Action Centre established by Ministry of Environment, Conservation and Parks (MECP) at 1-800-268-6060 and the Township.
   b. Take reasonable measures to stop or control the spill (such as dosing valves, collecting leakage in a container, applying the absorbency materials),
   c. Arrange for an inspection of the spill site and a general assessment of the environmental impact by a Qualified Person (Qualified Person means a professional engineer or professional geoscientist) and/or the Ministry of Environment, Conservation and Parks (MECP).
   d. Implement remedial measures as recommended by the Qualified Person and/or the MECP.
   e. Prepare a written report on the incident for review by the Township, MNR and MECP.

SITE PLAN OVERRIDE TABLE

THE FOLLOWING CONDITIONS ILLUSTRATED ON THIS PLAN VARY FROM THE REQUIREMENTS OF REGULATION 244/97 THAT APPLY TO LICENSED PITS IN ONTARIO.

0.13 (1) 13.	Stockpiles of aggregate, topsoil or overburden and a processing plant may be located within 30 m of the boundary of site (Area 2) along the north and east (agreement with landowner).
0.13 (3) (a)	A fence of at least 1.2 metres in height will not be erected or maintained along portions of the boundary of the site (Area 1 – easterly limits; Area 2 – northerly limits; see the Fence Diagram and Schedule) abutting lands owned by the farmer/landowner (through agreement). Marker posts (1.2 m high) will be installed at the corners of the pit and at intervisible distances to allow for easy identification of the licensed limits.
0.13 (1) 27.	The provisions of this Regulation do not apply to the existing farmsteads.
0.13 (1) 1.	No gate will be located at the existing entrances/exits on 8th Line East and Sideroad 12 for the existing houses/farmsteads.

LEGEND

- LICENCE BOUNDARY
- EXTRACTION LIMITS
- S=30 — SETBACK (METRES)
- ACOUSTIC BERM
- EX 342.65 / PR 300.00 — EXISTING ELEVATION / MAX DEPTH OF EXTRACTION
- DIRECTION OF OPERATIONS
- AREA 1 — NOISE CONTROL PHASES
- R01 — RECEPTOR
- 100.0 m — SITE BOUNDARY LENGTH
- TB — TEMPORARY BUILDING
- CONCESSION LINE
- LOT LINE
- A A' — CROSS SECTION LOCATION
- S — SCRAP STORAGE
- SILT FENCE
- WATERCOURSE (GRCA)
- WOODED AREA (MNR)
- SOIL — SOIL STOCKPILE
- R — RECYCLING AREA
- EXISTING ENTRANCE/EXIT
- PROPOSED PIT ENTRANCE/EXIT
- STRUCTURE / HOUSE
- 120m — 120m FROM LICENCE BOUNDARY
- NO PROCESSING AREA
- ADDITIONAL PROCESSING RESTRICTIONS
- EXISTING FENCE
- MW 1 — MONITORING WELL
- PROPOSED PLANTING AREA

OPERATIONAL PLAN

This plan depicts a schematic operations sequence for this property based upon the best information available at the time of preparation. Phases shown are schematic and may vary with demand and variations in the aggregate deposit. Phases do not represent any specific or equal time period. Notwithstanding the operational and rehabilitation notes, demand for certain products or blending materials may require minor deviations in the extraction and rehabilitation sequence. Any major deviations shall require written MNR approval.

Aggregate extraction is an interim land use. During the course of operations, lands that are not needed for extraction or berming purposes will continue to be farmed.
The area to be extracted is 28.4 ha.
The maximum number of tonnes aggregate to be removed from this site in any calendar year shall be 100,000 tonnes.

Water

1. Extraction is limited to 1.5 m above the established water table. The maximum depth of excavation is shown on the site plan for each respective phase.
2. Should the groundwater be encountered at elevations that are different than the anticipated levels, the depth of extraction shall be adjusted accordingly to maintain an extraction depth of a minimum of 1.5 m above the groundwater.
3. The ground water table occurs at +/- 344.0 masl to +/- 350.7 masl.
4. There will be no proposed water diversions, i.e. ditches or point of discharge to surface water from this pit.
5. Due to the coarse texture of the underlying overburden, it is anticipated that most of the post extraction surface drainage will percolate through the rehabilitated pit floor. Post extraction surface drainage, if any, will continue in a southerly direction, reflecting the general flow of the existing surface drainage pattern as much as possible.
6. The site is not within any identified Well Head Protection Area (WHPA) or Intake Protection Zone (IPZ). In addition, there is no WHPA-Q area identified at or near the site. The sand and gravel deposits at and near the site are mapped as a Significant Recharge Area - Tier 2 (due to the deposit type). The proposed extraction will remain above the water table. Extraction is expected to maintain local recharge rates and will not disturb protective geologic layers that overlie any deeper aquifer systems that may exist. No proposed on-site activities are considered to be significant drinking water threats.

Operations

7. The pit will be operated in two Areas, phasing for these Areas are described in the Noise Technical Recommendations, consisting of one lift (not to exceed 5 m). Should the pit face become too high to operate safely, a new lift will be initiated. Extraction will remain above the water table. Due to the variability of stone / sand gradations within the pit, and with fluctuations in market demand for various aggregate products, extraction may occur simultaneously at different areas of the pit face. Aggregate may be imported for blending purposes. The maximum disturbed area shall not exceed 15 ha.
8. Extraction operations will use loaders and excavators, which will feed portable processing plants (i.e. crushing and screening). Processing equipment and aggregate stockpiles resulting from this operation shall proceed as close to the excavation face as possible. Other equipment to be used on the site includes: trucks, tractors, scrapers, and dozers.
9. One internal haul road will be used the pit. The approximate location of entrance/exit is shown on the plans. The internal haul roads may need to be modified during the course of operations to permit efficient access to different product stockpiles. Existing farm entrances will be gated during the operations of the pit.
10. Aggregate will be transported through onto Side Road 12 as shown on the Site Plan. A scale and scalehouse will be located at the entrance to the pit on Side road 12.

Fencing

11. At the outset of operations, the property limits shall be fenced with 1.2 m high page wire and post fencing. Fencing will be erected to ARA standards and maintained over the life of the pit operation. The fencing to be used will be page wire and post fencing (1.2 m high).

Fuel for Pit Operations (Not Related to Existing Farm Operations)

12. On-site permanent fuel storage will not occur. Portable tanks may be used (see the Spills Contingency and Response Program).
13. Fuel storage tanks shall be located in close proximity to the maintenance shop. Fuel storage tanks shall be installed and maintained in accordance with the Technical Standards and Safety Act and Liquid Fuels Regulation 217/01.
14. All fuel tanks shall be double-sided or placed in containment facilities large enough to hold the tanks maximum volume.
15. Fuel trucks shall be used to transfer fuel to on-site equipment in accordance with the Liquid Fuels Handling Code.
16. A Spills Contingency Plan and Response Program has been prepared and implemented prior to site preparation. The Plan shall be available on-site and all employees and contractors shall be informed and required to comply with this Plan.
17. Fuel, oil, radiator and hydraulic fluid, and other chemicals needed for the maintenance and functioning of on-site aggregate processing equipment shall be appropriately stored in above-ground containers and shall meet the requirements of the gasoline handling act, as amended, and the gasoline handling code and regulations, as amended by the Technical Standards and Safety Act (TSSA) and liquid fuels handling code, and in accordance with the Ministry of the Environment's chemical storage guidelines. fuels and other chemicals shall be properly stored.

Recycling, Scrap Storage

18. Importation of asphalt and concrete are permitted for the purposes of recycling and reuse. The site plan shows the approximate area where recycled products will be stored. The recycling area will be relocated to the pit floor once a sufficient area of the pit floor has been extracted and to allow for extraction of aggregate under the recycling area.

A. Any imported asphalt shall not be placed within 30 metres of any body of water or within 2 metres of the ground water table,
B. The imported concrete, asphalt, and brick shall not be mixed with scrap.
C. There shall be no further importation of concrete, asphalt, and brick for recycling once excavation on the site has completed.
D. The maximum amount of concrete, asphalt, and brick imported for recycling that may be placed on the site at any given time is 25,000 tonne.

The quantity of aggregate allowed to be removed from the site annually is 100,000 tonnes, and the amount of any recycled aggregate produced from the imported concrete, asphalt, and brick that is removed from the site shall count toward the maximum quantity of aggregate allowed to be removed from the site annually.

19. Once the aggregate on site has been depleted there will be no further importation of recyclable materials permitted.
20. Scrap piles will be located on the pit floor, at the locations shown on this site plan, and will be removed on an ongoing basis. Scrap piles will not be located within 30 m of the licence limits.
21. Rebar or other structural metal shall be separated from recyclable aggregate material during processing.
22. Recycling activities on the site shall not interfere with the operational phases of the site or with the rehabilitation of the site.
23. Removal of recycled aggregate is to be ongoing.

Soil Management and Progressive Rehabilitation

24. Topsoil and overburden will be stripped and stored separately in perimeter berms or in temporary stockpiles on the pit floor. Vegetation on all berms shall be maintained. Topsoil and subsoil will be stripped and stored separately, and replaced on the pit floor and side slopes during site rehabilitation.
25. Soil material will only be handled under dry conditions and a wet weather shut down procedure will be put in place for stripping operations. Travel over soils and rehabilitated areas will be minimized to reduce compaction. Where required, ripping/tilling the soils will be undertaken to alleviate soil compaction. The mixing of soil materials/layers will be avoided.
26. Should any planted vegetation on the berm fail, the area shall be re-seeded the following growing season.
27. Acoustic berm locations are shown on the site plan (see Typical Screening Berm Detail as shown on Page 2 of the Site Plan).
28. Topsoil and overburden stockpiles and berms will be graded to stable slopes and seeded with an appropriate grass legume seed mixture to prevent erosion.
29. Progressive rehabilitation of the pit floor will occur once the licensee has determined that the applicable area is not required for processing and stockpiling of aggregate. Once berms are no longer required as visual screens or acoustic shields, they will be dismantled and the topsoil and overburden will be used for progressive rehabilitation of the pit floor and associated side slopes. Topsoil will be spread in a sufficient depth to grow a forage crop.
30. All vegetation planted during the pit operation will be maintained in a healthy growing condition. Should any planted vegetation die, it will be replaced within one growing season.
31. A pre-disturbance soil sample will be conducted to measure soil fertility.
32. The proposed berm will be constructed in accordance with the "Typical Berm Detail' on page 2 of 3 and will be vegetated and maintained to control erosion using a low maintenance grass/legume seed mixture (e.g. MTO Seed Mix) composed of Creeping red Fescue, Perennial Ryegrass, Kentucky Bluegrass and White Clover. Temporary erosion control will be implemented as required. All vegetation planted by the licensee shall be maintained in a healthy condition. Should any planted vegetation die, it will be replaced within one growing season.

Management of Trees and Maintenance of Planted Vegetation

33. The location of existing vegetation and natural tree screens are shown on the Existing Features Plan - Page 1 of 3. No additional tree screens will be planted.
34. Any trees or stumps that are needed to be removed from the extraction area shall be harvested, mulched or used for rehabilitation purposes. Trees or stumps will not be buried onsite.
35. All vegetation planted during the pit operation will be maintained in a healthy growing condition. Should any planted vegetation die, it will be replaced within one growing season.

Control of Dust

36. Dust will be controlled through the use of MECP approved suppressant or water as required.

NOISE TECHNICAL RECOMMENDATIONS

General:

1. The hours of extraction, processing, and shipping operations shall be limited to the daytime hours only (07:00 to 19:00), Monday to Friday. There will be no operations on Weekends or Statutory Holidays.
2. The extraction, processing, and shipping equipment operating in the pit is limited to:
   - One Extraction Loader
   - One Shipment Loader
   - One Crusher
   - One Screener
   - 8 Highway truck trips per hour (16 passes per hour)
3. The aggregate pit equipment shall satisfy the noise emission levels listed in Table A:

Table A: Reference Sound Pressure Levels of Aggregate Pit Equipment

Equipment	Reference Sound Pressure Level at 30m (dBA)
Extraction Loader	64
Shipping Loader	61[1]
Crusher	78
Screener	77
Highway Truck – 20 km/h	71

1 – The shipment loaders were assumed to operate at a 50% duty cycle.

4. The sound emissions of all construction equipment involved in site preparation and rehabilitation activities shall comply with the sound level limits specified in the MECP publication NPC-115 "Construction Equipment".
5. New equipment technology or different configurations may allow proposed changes to any portion of the extraction and processing operations including additional equipment to operate on the site, equipment to be substituted, and/or different berm heights, while still meeting the applicable sound level limits. Changes may be permitted to the site operations and noise controls provided that the changes still meet the sound level limits, as confirmed through documentation prepared by a Professional Engineer specializing in noise control. Prior to any modification, the licensee shall confirm with MNR whether a site plan amendment is required to permit those proposed changes.
6. An acoustic barrier is required to be solid, with no gaps or openings, and shall satisfy a minimum area density of 20 kg/m2/. It could take the form of a working face, earthen berm, stockpile, acoustic fence, ISO containers, a combination of these, or any construction satisfying the requirements of an acoustic barrier.
7. Prior to extraction, an acoustic barrier with a minimum height of 3.0 m relative to the existing grade shall be established along the southwest boundary of the property as shown (Berm A) on the Operation Plan. This barrier shall remain in place for the duration of processing operations in Area 1.
8. Prior to extraction more than 120 m from the Area 1 southwest extraction limit, an acoustic barrier with a minimum height of 3.5 m relative to the existing grade shall be established along the southeast extraction limit as shown (Berm B) on the Operation Plan. This barrier shall remain in place for the duration of processing operations in Area 1.
9. The Crusher and Screener shall always be positioned such that the line-of-sight between the equipment and Receptor R01 through R03 is interrupted.
10. The Crusher and Screener shall not operate within 375 m of Receptor R06.
11. During processing operations in Area 1, the Crusher and Screener shall be shielded from dwellings using local barriers with heights as indicated in the table below.

Processing Equipment Distance from SW Extraction Limit – Area 1	Local Shielding for R01 – R03	Local Shielding for R06
< 120 m	5.2 m	5.2 m
120 m – 175 m	5.2 m	7.8 m
>175 m	None	7.8 m

12. Prior to extraction in Area 2, an acoustic barrier with a minimum top-of-barrier elevation of 353.5 MASL shall be established extending 240 m northwest and 170 m northeast from the southern corner of Area 2, as shown (Berm C) on the Operation Plan. This barrier shall remain in place for the duration of processing in Area 2 within 450 m of the southwestern Area 2 extraction limit.
13. During processing operations in Area 2, the Crusher and Screener shall be shielded from dwellings using local barriers with heights as indicated in the table below. Acoustical barriers shall be positioned such that the top height of the barrier is no more than 7 m from the Crusher or Screen in the direction of the listed Receptor.

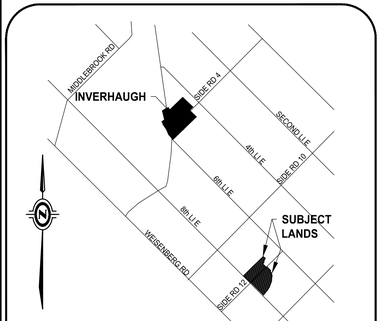
Processing Equipment Distance from SW Extraction Limit – Area 2	Receptors for Local Shielding			
	R01	R06	R07 & R08	R11
< 225 m	5.2 m	5.2 m	None	5.2 m
225 m – 450 m	None	5.2 m	None	5.2 m
> 450 m	None	5.2 m	5.2 m	None

Prior to extraction in Area 2 more than 450 m from the southwest extraction limit, an acoustic barrier with a minimum top-of-barrier elevation of 355 MASL shall be established extending 70 m southwest and 100 m southeast from the northern corner of Area 2, as shown (Berm D) on the Operation Plan. This barrier shall remain in place for the duration of processing in Area 2. Please don't hesitate to contact us if you have any questions about the above. Receptor locations are shown on Page 1 - Existing Features (see Noise Receptor Location Figure).

LICHTY PIT

5999, 6043, 8TH LINE EAST
& 7190 SIDE ROAD 12
PART OF LOTS 11 & 12, CONCESSION 4 WEST
TOWNSHIP OF CENTRE WELLINGTON
TOWNSHIP OF PILKINGTON
COUNTY OF WELLINGTON

PAGE 2 OF 3 OPERATIONS PLAN



KEY PLAN N.T.S

LICENSEE:

THOUME CONSTRUCTION LTD.

James Thoume Construction Ltd.
7270 Side Road 14 Ariss, ON N0B 1B0
TEL: 519-836-2039

APPLICANT
SIGNATURE: ---------- DATE: ----------

THIS PLAN IS PREPARED UNDER THE AGGREGATE RESOURCES ACT FOR A CLASS A LICENCE FOR A PIT ABOVE THE GROUND WATER TABLE.

THESE SITE PLANS HAVE BEEN PREPARED UNDER THE DIRECTION AND CERTIFIED BY A PERSON APPROVED BY THE MINISTER OF NATURAL RESOURCES.

SIGNATURE: ---------- DATE: ----------
Robert P. Stovel

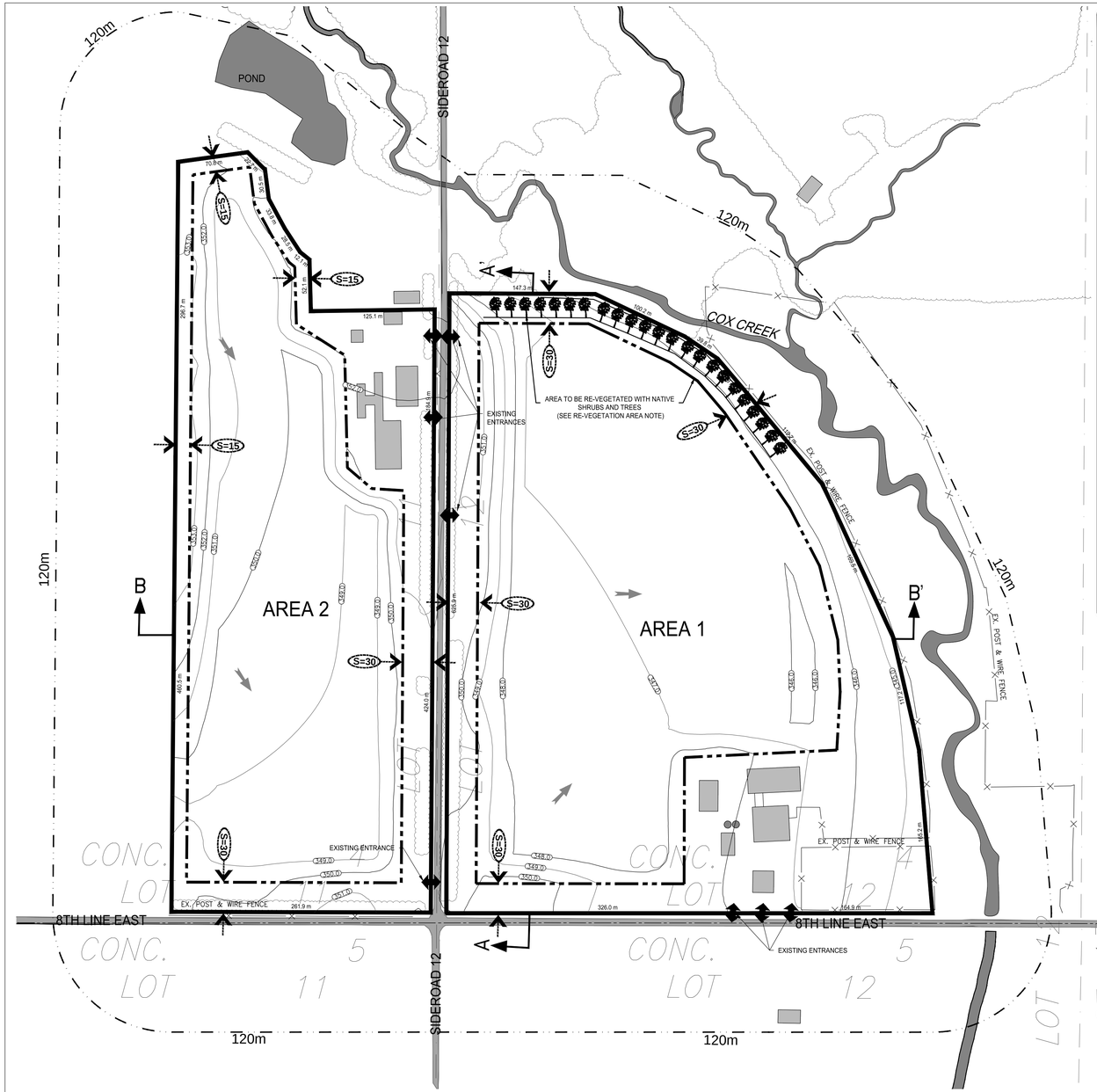
APPROVED: R.P.S. | PLOTTED: November 13, 2025 | REVISION NO.: 3 | REVISION DATE: November 13, 2025
DRAWN: S.M.S. | FILE: (SITE PLANS)LICHTY-PILKINGTON-SS-11-11-2025.DWG

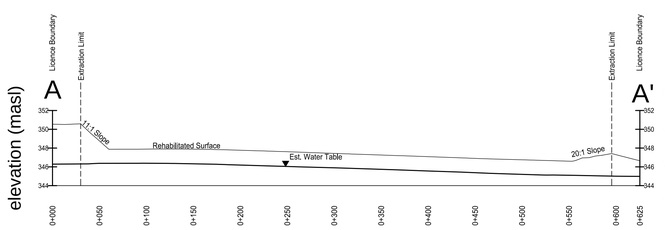
NO.	DATE	DESCRIPTION	APP'D	APP'D DATE
1	August 9, 2024	ORIGINAL SUBMISSION		
2	August 19, 2025	REVISED PER MNR COMMENTS		
3	November 13, 2025	REVISED PER MNR COMMENTS		

AMENDMENTS

NORTH
Meters
75 0 75 150
1:2500

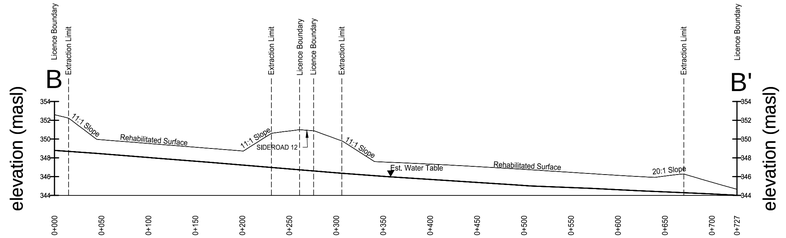
STOVEL and Associates Inc.
651 ORANGEVILLE RD FERGUS, ON
N1M 1T9
PHONE 519-766-8042
EMAIL STOVEL.ASSOCIATES@OUTLOOK.COM





CROSS SECTION – REHABILITATED SURFACE

HORIZONTAL SCALE: 1:3000 VERTICAL EXAGGERATION 10x



CROSS SECTION – REHABILITATED SURFACE

HORIZONTAL SCALE: 1:3000 VERTICAL EXAGGERATION 10x

RE-FORESTATION AREA

The licensee shall reforest the north setback of Area 1. Only native trees and shrubs shall be used (i.e. white pine, white spruce, white cedar, red oak, red maple, and sugar maple). Seeding stock can be used with a minimum planting density of 600 seedlings per acre at an 10 x 10 foot spacing.

Any trees or shrubs planted as part of the progressive rehabilitation and/or final rehabilitation program will be maintained in a healthy state. Dead trees and shrubs will be replaced within one growing season. The maintenance of the reforested area may be required for a number of years.

Seed Mix For Rehabilitated Lands

- 16.8 kg/ha Bird's Foot Trefoil (15lbs/ac)
- 2.2 kg/ha Timothy (2 lbs/ac)
- 11.2 kg/ha Canada Blue (10 lbs/ac)
- 5.6 kg/ha Creeping Red Fescue (5 lbs/ac) and
- 2.2-5.6 kg/ha Red Clover (2-5 lbs/ac).

Note: This mix/application rate may be modified through input from a Qualified Professional (i.e. P. Ag, Certified Crop Advisor).

Agricultural Monitoring Program

The purpose of the agricultural monitoring program is to ensure the recommended rehabilitation sequence is implemented. In preparing this monitoring program, guidance from the Province's Agricultural Impact Assessment Guidelines was considered. Pre-extraction information on the agricultural soils will be used as a benchmark for the agricultural rehabilitation at the site. Adjustments to cropping practices and / or soil amendments may be required based on the results of the soil testing and the input of qualified professionals such as Professional Agrologist and/or Certified Crop Adviser.

Once progressive rehabilitation begins, a qualified professional will be retained to ensure that the soil restoration efforts follow the conditions set out on the Site Plans.

As part of the annual compliance report, the following will be documented:

- Area that has been progressively rehabilitated (illustrate on a map and provide an area estimate in hectares),
- Approximate depth of topsoil applied to the site,
- Identification of any areas that may require remedial action (i.e. alleviation of any soil compaction, surface drainage improvements, control of erosion, areas to be re-seeded).

The Site Plans set out an appropriate grass/legume seed mix. Substitutions to the seed mix/application rate and fertilizer rate may be made at the discretion of the qualified professional. Over the course of the progressive rehabilitation program, soil fertility data (general soil fertility, bulk density, hydraulic conductivity to assess residual levels of soil compaction and porosity) shall be collected (as set out on the Site Plan). Any changes to the seed mix/application rates shall be noted in the annual compliance report. This information will be used to ensure a successful and productive agricultural end use.

LEGEND

- LICENCE BOUNDARY
- EXTRACTION LIMITS
- S=30 SETBACK (METRES)
- DIRECTION OF SURFACE DRAINAGE
- 100.0 m SITE BOUNDARY LENGTH
- 344.0 REHABILITATED CONTOURS (masl)
- EXISTING TREE COVER
- A A' CROSS SECTION LOCATION
- WATERCOURSE (GRCA)
- EXISTING ENTRANCE/EXIT
- STRUCTURE / HOUSE
- EXISTING FENCE
- 120m 120m FROM LICENCE BOUNDARY
- CONCESSION LINE
- LOT LINE
- PROPOSED PLANTING AREA

PROGRESSIVE REHABILITATION AND FINAL REHABILITATION

1. The site will be rehabilitated to an agricultural end use of similar size and quality as presently exists.
2. Progressive rehabilitation of the pit floor and associated slopes will be ongoing but will commence once it has been determined that the applicable area is not required for acoustic barriers/screening, processing, and stockpiling of aggregate.
3. Topsoil and overburden originating on the site will be used for rehabilitation purposes.
4. Once berms are no longer functional, they can be removed and the topsoil and overburden material will be used for rehabilitation of the pit side slopes.
5. Perimeter slopes will be rehabilitated as the limits of extraction are reached. The maximum slopes from the setback limit shall be 3:1. Slopes will be established by backfilling with overburden and then grading before the placement of topsoil or by leaving some native material in the side slope and applying topsoil over this native material. Side slopes will be seeded with a suitable grass/legume seed mixture compatible with the soil conditions to control erosion.
6. Progressive rehabilitation of the pit floor will involve ripping of any compacted areas to enhance internal drainage. Large stones will be removed and all available overburden will be spread over the pit floor and then rough-graded before the application of topsoil. Once the overburden is graded, subsoil will be spread on the pit floor to a depth of 10 cm. The subsoil will be graded and large stones will be removed. The final step involves the application of topsoil. Topsoil will be graded to a depth of 25 cm on the rehabilitated pit floor. The final grade of the rehabilitated pit floor will be in the range of 1-5% simple slopes.
7. Once topsoil is applied to the pit floor and side slopes, it will be prepared for seeding by fine grading and/or agricultural tillage. Seeding of the pit floor will consist of an appropriate grass/legume seed mixture. An example of an appropriate seed mixture is included on the Site Plan. At the time of planting, the seed mixture and application rate shall be confirmed by a Certified Crop Adviser and / or a P.Ag.. The rehabilitated area shall be seeded as soon as possible with a grass-legume seed mixture. It will be important to maintain the rehabilitated area in this grassed system for 3-5 years. Small areas may need to be replanted and/or regraded should a seed failure occur. As part of rehabilitation, the licensee will need to obtain soil fertility test results to determine fertilization needs. Before planting a common field crop on the rehabilitated site, the licensee in consultation with a Certified Crop Adviser and / or a P.Ag., shall ensure that satisfactory soil health has been achieved.
8. All buildings, equipment, and machinery associated with the extraction operations shall be removed from the site upon completion of the rehabilitation.
9. The pit access road(s) shall be maintained during rehabilitation. Before the closure of the pit, the internal access road will be removed, and the area shall be rehabilitated.
10. Existing fencing may remain around the boundaries of the site.
11. Surface water will be allowed to percolate through the rehabilitated pit floor to the water table. Surficial drainage patterns will allow for surface water to drain in a north-to-south trending pattern which generally follows existing conditions.
12. The area to be rehabilitated is 28.4 ha.

IMPORTATION OF CLEAN INERT FILL

Excess soil is required for rehabilitation. The following conditions are intended to address the requirements for the beneficial use of excess soil contained in Ontario Regulation 244/97.

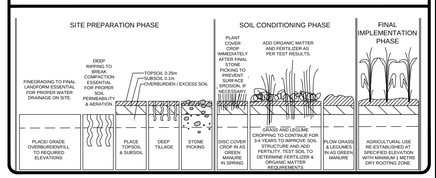
i. Excess soil, as defined in Ontario Regulation 244/97 may be imported to this site to facilitate the following rehabilitation: (for the creation of side slopes)
ii. Liquid soil, as defined in Ontario Regulation 406/19 under the Environmental Protection Act, is not authorized for importation to the site.
iii. 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.
iv. Where a qualified person is retained or required to be retained in accordance with Ontario Regulation 244/97, the quality, storage, and final placement of excess soils shall be done according to the advice of the qualified person.
v. 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.
vi. The cumulative total amount of excess soil that may be imported to this site for rehabilitation purposes is 100,000 m3.

Suggested Cropping Sequence for Rehabilitated Farm Field

Timeframe	Cropping Program	Comments
Year 1	Seed cover crop	Control soil erosion
Years 1-4	Seed legume or legume/grass mix	Preferably alfalfa
Year 5+	Hay or permanent pasture crop or common field crop	See Note c) below

Notes:

a. prior to seeding crops, samples shall be taken for soil test analysis to determine the type and rates of fertilizer application;
b. the site shall be monitored for several years following restoration to check for signs of subsidence, compact, poor drainage and seed failure. If micro-depressions occur in the field due to subsidence, some additional land leveling, infilling, or surface drainage may be required. Where compacted layers are found, they shall be broken up by tillage or subsoiling. The subsoiler shall be used when the ground is dry to maximize benefits.
c. by year 5, the site may be capable of growing common row crops and common field crops, including soy beans and mixed grains. The farmer shall consult a P.Ag., or a Certified Crop Adviser to determine the appropriate field crops.



LICHTY PIT

5999, 6043, 8TH LINE EAST
& 7190 SIDE ROAD 12
PART OF LOTS 11 & 12, CONCESSION 4 WEST
TOWNSHIP OF CENTRE WELLINGTON
TOWNSHIP OF PILKINGTON
COUNTY OF WELLINGTON

PAGE 3 OF 3

PROGRESSIVE AND FINAL REHABILITATION PLAN

KEY PLAN N.T.S

LICENSEE:

THOUME CONSTRUCTION LTD.

James Thoume Construction Ltd.
7270 Side Road 14 Ariss, ON N0B 1B0
TEL: 519-836-2039

APPLICANT
SIGNATURE: ---------- DATE: ----------

THIS PLAN IS PREPARED UNDER THE AGGREGATE RESOURCES ACT FOR A CLASS A LICENCE FOR A PIT ABOVE THE GROUND WATER TABLE.

THESE SITE PLANS HAVE BEEN PREPARED UNDER THE DIRECTION AND CERTIFIED BY A PERSON APPROVED BY THE MINISTER OF NATURAL RESOURCES.

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Robert P. Stovel
DATE: ----------

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NORTH

Meters
75 0 75 150

1:2499.999

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N1M 1T9
PHONE 519-766-8042
EMAIL STOVEL.ASSOCIATES@OUTLOOK.COM