

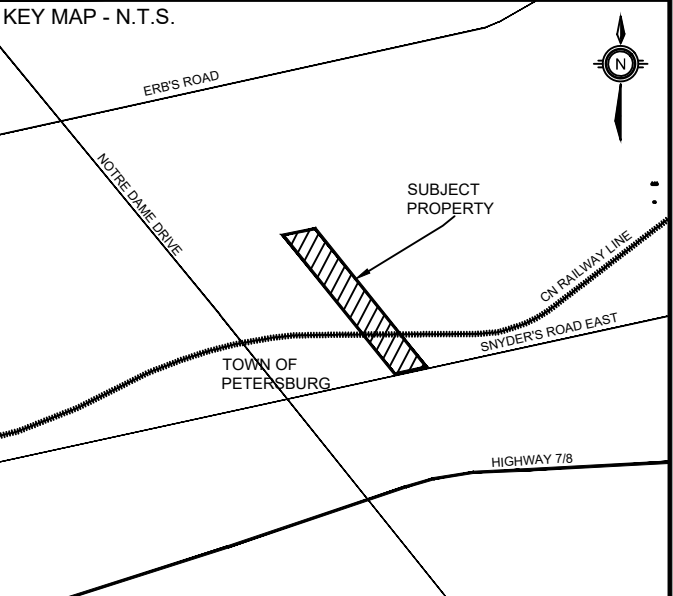
Attachment I

ARA plans

MIDDLE STREET PIT
EXISTING CONDITIONS PLAN
SHEET 1 OF 5

CLIENT
PETERSBURG SAND
COMPANY INC.

SIGNATURE: MKE HODGKINSON - PRESIDENT
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- LEGEND
- SUBJECT PROPERTY BOUNDARY
 - EXISTING POST & WIRE FENCE
 - LICENSED AREA
 - EXTRACTION LIMIT
 - SURROUNDING PROPERTY BOUNDARY
 - ZONING BY-LAW BOUNDARY
 - EXISTING TREELINE
 - EXISTING CONTOUR (masl) (1m INTERVAL)
 - GRAND RIVER SOURCE PROTECTION AREA BOUNDARY
 - HYDRO EASEMENT
 - G.R.C.A. REGULATION LIMIT
 - EXISTING MONITORING WELL
 - EXISTING WATER LOGGER
 - EXISTING ENTRANCE / EXIT
 - EXISTING BUILDING
 - FODM5-1 DRY-FRESH SUGAR MAPLE DECIDUOUS FOREST
 - MAS02-1 MIXED FORB ORGANIC SHALLOW MARSH
 - OA0 OPEN AQUATIC
 - MAS02-4 BEGGAR'S TICKS ORGANIC SHALLOW MARSH
 - MAS01-4 REED CANARY GRASS ORGANIC SHALLOW MARSH
 - DIRECTION OF SURFACE-WATER FLOW

REVISIONS PRIOR TO APPROVAL

No.	DATE	DESCRIPTION
1	17/05/2022	NDMNR FIRST COMMENTS 12/05/2022

SITE PLAN AMENDMENTS

No.	DATE	DESCRIPTION

SITE DATA

AREA TO BE LICENSED	27.54 ha
AREA TO BE EXTRACTED	22.52 ha
EX. DISTURBED AREA	Nil
TOTAL LAND PARCEL	36.38 ha

THIS SITE PLAN IS PREPARED UNDER THE AGGREGATE RESOURCES ACT FOR A CLASS A LICENSE FOR A PIT ABOVE THE GROUND WATER TABLE. THIS SITE PLAN IS CERTIFIED BY THE UNDERSIGNED BY THE AUTHORITY OF MINISTERIAL APPROVAL AS SPECIFIED IN THE AGGREGATE RESOURCES ACT SECTION 8 (4).
APRIL 22, 2022
DATE
DAVE BORRETT, MCIP, RPP
SCALE
30 0 20 40 80
1:2000 (m)

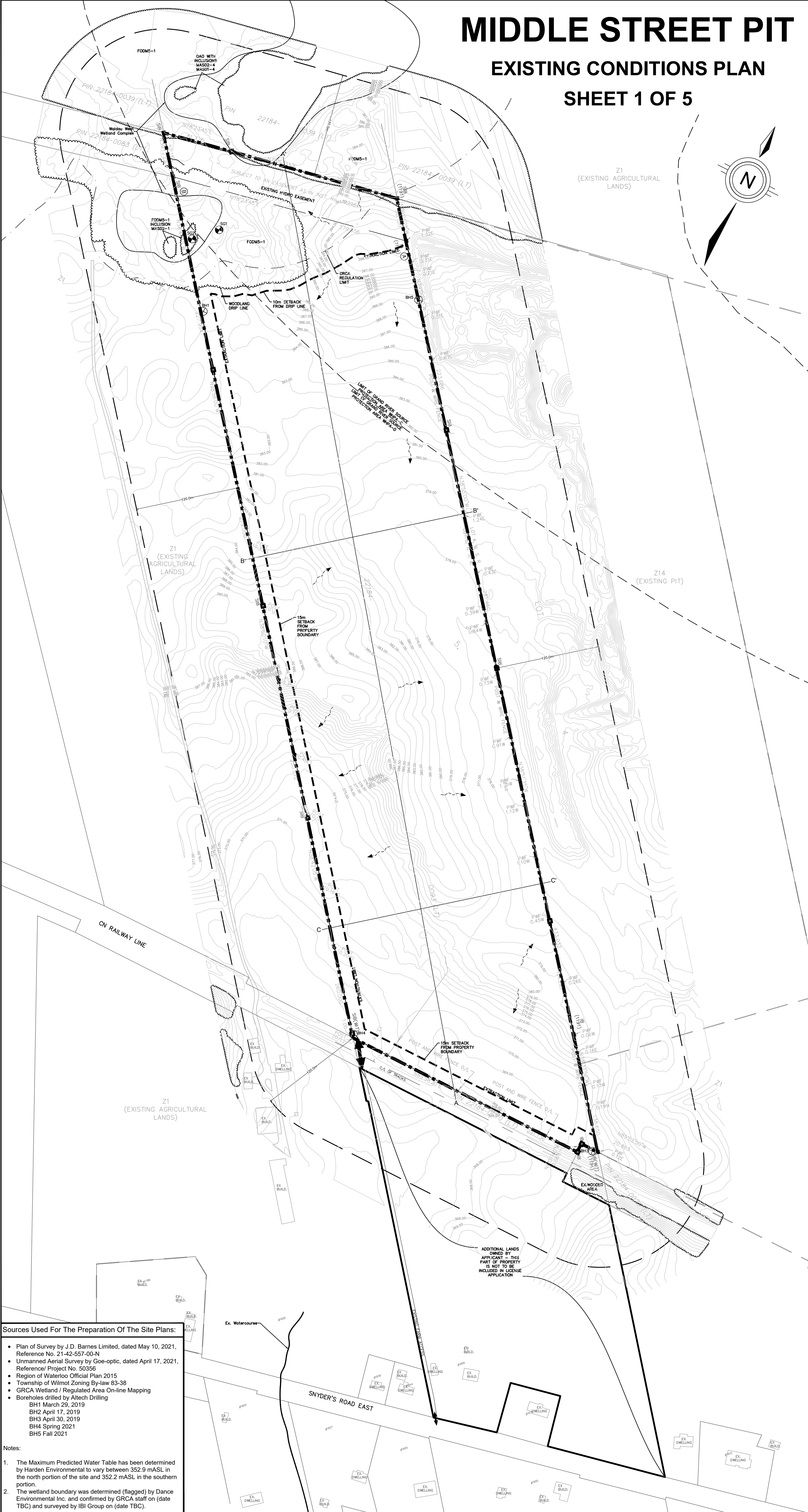
IBI GROUP
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Waterloo ON N2L 3V3 Canada
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PROJECT
1856 SNYDER'S ROAD EAST
PART OF LOT 5, NORTH OF SNYDER'S ROAD, TOWNSHIP OF WILMOT, REGIONAL MUNICIPALITY OF WATERLOO

PROJECT NO: 132496	SCALE: 1 : 1,500
DRAWN BY: E.T.J.M.	CHECKED BY: C.T.
PROJECT MGR: D.B.	APPROVED BY: D.B.

SHEET TITLE
EXISTING CONDITIONS

SHEET NUMBER
1 of 5
ISSUE
1



- Sources Used For The Preparation Of The Site Plans:
- Plan of Survey by J.D. Barnes Limited, dated May 10, 2021, Reference No. 21-42-557-00-N
 - Unmanned Aerial Survey by Goe-optic, dated April 17, 2021, Reference/ Project No. 50356
 - Region of Waterloo Official Plan 2015
 - Township of Wilmot Zoning By-law 83-38
 - GRCA Wetland / Regulated Area On-line Mapping
 - Boreholes drilled by Altech Drilling
BH1 March 29, 2019
BH2 April 17, 2019
BH3 April 30, 2019
BH4 Spring 2021
BH5 Fall 2021
- Notes:
- The Maximum Predicted Water Table has been determined by Harden Environmental to vary between 352.9 mASL in the north portion of the site and 352.2 mASL in the southern portion.
 - The wetland boundary was determined (flagged) by Dance Environmental Inc. and confirmed by GRCA staff on (date TBC) and surveyed by IBI Group on (date TBC).

GENERAL OPERATIONAL NOTES

1. **Tonnage Limit:** It is a condition of this licence that no more than 450,000 tonnes of aggregate material shall be removed from this licensed property annually. The area to be extracted is 22.52 hectares.
2. **Access:**
- The only pit entrance/exit will be directly onto Snyder's Road as shown on Sheet 2 of 5.
 - Trucks shall cross the CNR Line at the existing crossing at the western limit of the property as shown on Sheet 2 of 5. A steel bar gate (or equivalent) shall be installed at this access point and it shall be secured after hours when the pit is not operational.
 - The pit entrance will be paved from the limit of asphalt on Snyder's Road to, at minimum, to the weigh scale. The weigh shall include a grizzly screen at its approach.
 - The existing farm access road to Snyder's Road will be maintained. A new farm access will be gated at the south limit of the Hydro easement as shown on Sheet 2 of 5.
3. **Fencing:**
- The boundary of the Licensed Area will be fenced with a minimum 1.2 metre high post and wire fencing as shown on Sheet 2 of 5.
 - The existing post and wire fence along the eastern boundary common with Licence 5717 will be removed in advance of extraction through the common boundary and replaced with marker posts.
 - No fencing will be required along the western licence boundary through the woodlot (FODM5-1), 1.2 metre high marker posts, visible from one to the next, shall be used to mark the licence boundary within the woodlot (FODM5-1).
 - Silt fence shall be installed along the outside of the fence posts of the northern limit of extraction before any topsoil stripping occurs in Phase 3 of extraction as shown on Sheet 2 of 5. It shall be inspected at weekly intervals and repaired as soon as it is practical, if repairs are necessary. The silt fence shall be inspected and maintained for one year and thereafter until such time as dense ground cover vegetation is established in the buffer area. The silt fence shall extend from the northwest corner of the extraction limit (south of the FODM5-1 forest) and extend east past the eastern edge of the FODM5-1 forest by 5 metres.
4. **Site Buildings:** The weigh scale and scale house facilities shall be located north of the CNR Lines as shown on Sheet 2 of 5. If a maintenance/storage shed for on-site equipment is constructed, it shall be located in proximity to the weigh scale, within Phase 4.
5. **Fuel Storage:** Above-ground fuel storage with 100% containment facilities will be located near the weigh scale and scale house and located on a concrete pad. Semi-portable equipment used on-site (i.e., crushers, screeners, etc.) will be refueled by a mobile fuel truck and follow the necessary requirements under the provincial Fuel Handling Code. **Refueling locations will be on an impervious surface.** In the unlikely event of any fuel spill, it must be reported to the MECP immediately and the Spill Response Plan must be posted on-site at all times (i.e., scale house/admin office).
6. **Groundwater:** The final groundwater elevation has been determined by Harden Environmental to vary between 352.9 mASL in the north portion of the site and 352.2 mASL in the southern portion.
7. **Berms:**
- A 3 metre high noise berm shall be constructed on the east side of the haul route at the location and for the extent shown on Sheet 2 of 5, approximately 80 metres in length.
 - Excess topsoil and / or overburden shall be stored in berms within the western setback, as required, but shall not exceed 3 metres in height.
 - All berms will be constructed as per the Berm Design Sketch as shown on Sheet 2 of 5, constructed of on-site overburden, subsoil or topsoil and vegetated with a native perennial herbs/grass seed mix to control erosion.
8. **Vegetation:**
- Tree Screens - No tree screens are proposed.
 - Tree Removal - Any trees and/or stumps that are removed to accommodate the extraction operation shall be either: a) buried on-site, b) burned on-site but subject to a Township of Wilmot Burn Permit being issued, and/or c) removed from the site.
9. **Stripping:** Topsoil, subsoil and overburden shall be stripped and used for the construction of temporary berms until needed for final rehabilitation. Additional stripped material will either be placed directly onto the final pit floor/side slopes for progressive and final rehabilitation, or, if necessary, stored in separate stockpiles on the floor and eventually used for progressive and final rehabilitation. No topsoil or subsoil will be removed from the site.
10. **Extraction Depth:** Excavation shall be carried out in 2 to 5 lifts (each lift not exceeding 8.0 metres in depth), with a final pit floor elevation being 354.0 masl at the south (i.e., Phase 4) and 354.5 masl at the north (i.e., Phase 3) and shall provide a minimum buffer of 1.5 metres above the identified water table.
11. **Direction of Extraction:** The direction of extraction for each phase is shown on this page. Phases 1, 2, and 3 shall be extracted in a northerly direction and Phase 4 shall be extracted in a southerly direction.
12. **Stockpile Heights / Locations:** Aggregate stockpiles shall be permitted to be located within any of the Phases (1-4) but shall be located on the lowest pit floor elevation where possible and not exceed 20.0 metres in height. The stockpiles will be primarily located near active processing areas.
13. **Hours of Operation:** The hours of operation shall be 7:00am to 7:00pm Monday to Saturday. There shall be no extraction, processing or shipping on Sundays or any Statutory Holiday. Maintenance and repair of on-site equipment as required from time to time, may occur beyond these hours.
14. **Equipment:** Proposed equipment to be permitted on-site includes, but not limited to: scrapers, bull dozers, power shovels, excavators, and dump trucks for stripping and rehabilitation and front-end loaders, dump trucks, conveyor belts and portable processing equipment (crushing and screening as per the Noise Recommendations, on this page) during extraction. Front-end loaders and/or excavators will be used to extract material from the active pit face(s) and move to the processing area.
15. **Processing:** Processing of aggregate material will occur on the pit floor, adjacent to the active pit face within the respective phases and will include portable processing/screening and crushing plants. The crushing/screening plant shall not operate within operate within 300 metres of R1 as specified by the Noise Recommendations, on this page.
16. **Aggregate Washing:** There shall be no aggregate washing on site.
17. **Aggregate Recycling:** Recycling of concrete and asphalt for recycling and resale will be permitted on this site.
- 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.
 - 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.
 - Removal of recycled aggregate is to be ongoing.
 - Once the aggregate on site has been depleted there will be no further importation of recyclable materials permitted.
 - Once final rehabilitation has been completed and approved in accordance with the site plan, all recycling operations must cease.
18. **Importation of Fill:**
- Excess soil, as defined in Ontario Regulation 244/97 may be imported to this site to facilitate the following rehabilitation:
 - Creation of 3:1 slopes (or sloping ratio otherwise described on the final rehabilitation plan).
 - Top dressing to establish vegetation
 - Liquid soil, as defined in Ontario Regulation 406/19 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, 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 volume of aggregate excess soil that may be imported to this site for rehabilitation purposes is 1.5 million m³.
19. **Scrap:** Scrap material that is generated on-site is to be stored in the vicinity of the processing / recycling area and / or maintenance / storage building and removed from the site on an ongoing basis (i.e., annually).
20. **Dust Mitigation:** Dust shall be mitigated on-site. Water or any other MECP approved dust suppressant shall be used to control dust on internal roads as often as required and as stipulated in the Best Management Practices Plan for Control of Fugitive Dust Emissions (BMPP) dated September 16, 2022. Refer also to Recommendations from Technical Studies Regarding Dust, on this page.
21. **Internal Haul Routes:** Internal roads within the extraction area will be constructed and disbanded as required. When extraction is completed, all areas which have been subjected to compaction from heavy equipment will be cross-ripped to a minimum depth of 0.5 metres to ensure effective drainage.
22. **Surface Drainage:** The extraction area has been deliberately located outside of the catchment of the moose above the groundwater and the hydro corridor. There will be no change in surface water support hydrology for the wetland. Surface water drainage will be maintained on-site and allowed to percolate through the pit floor into the groundwater system.
23. **Area to be Extracted:** The total area to be extracted is 22.50 hectares.
24. **Final Land Use:** The final land use for the subject lands will be agricultural.

RECOMMENDATIONS FROM TECHNICAL STUDIES

Hydrogeology (Harden Environmental Ltd., dated March 2022)

Location	Frequency	Parameter
BH1, BH3, BH4, BH5, BH6, BH7, SG2	Every four hours	Water level
BH6	Annually	Water quality sampling including pH, DOC, Electrical conductivity, metals, nutrients, alkalinity, hardness, anions, BTEX, PHC's
BH7	Annually	Water quality sampling including pH, DOC, Electrical conductivity, metals, nutrients, alkalinity, hardness, anions, BTEX, PHC's PAH's

- Low water level thresholds and contingencies will be presented to the Grand River Conservation Authority and NDNRN prior to extractive activities occurring within 200 metres of the wetland.
 - An annual report including all historical water level information will be completed and provided to the MNRF and the Region of Waterloo before March 31st every year.
 - Any detection of BTEX, PHC's or PAH's in BH6 or BH7 will trigger an immediate resampling of the groundwater and if contamination of the groundwater is confirmed the following will take place:
 - notification of contamination to the Region of Waterloo, Wilmot Township and the MNRF,
 - investigation into the source of contamination and potential for migration of contamination off-site
 - if required, consultation with the MECP and commencement of contaminant source removal and mitigation of off-site migration.
 - if the water level trigger set out for the Vernal Pool Wetland (SG2) is exceeded, the need for ecological monitoring will be triggered. The ecological monitoring design will be provided and confirmed with Region of Waterloo staff at the time monitoring is needed. The monitoring design will be focused on vegetation in the Vernal Pool Wetland and the Sugar Maple Woodland vegetation, to identify if any changes in these vegetation communities occur through time.
- The final pit floor elevation as shown on the Rehabilitation Plan (Sheet 4 of 5) shall remain a minimum 1.5 metres above the groundwater table. Should future water level monitoring data indicate a water table elevation within 1.5m of the proposed pit floor elevation, the minimum pit floor elevation would be adjusted upward to maintain 1.5m of undisturbed unsaturated zone sediments.
- The site is located in WHPA C and WHPA D of the Erb Street Wells and WHPA D of the Mannheim Peaking Well Field. The vulnerability scores that apply are 2 and 4 for the Mannheim Peaking Well Field and 2, 4, 6 for the Erb Street Well Field. The only policy (RW-CW-51) that applies is in regard to storage and handling of dense non-aqueous phase liquids (DNAPL's) in WHPA 6. Vulnerability Score 6 of the Erb Street Well Field. The boundaries of WHPA C and WHPA D are shown on the Operational Plan. There will be no storage or handling of DNAPL's anywhere on the site.

Recommended Procedures for the Prevention and Mitigation of Contaminant Spills

- 1.0 **Potential Sources of Spills** The following list identifies the more common contaminants which could be present on a regular basis on the site.

Product	Container	Uses	Controls
Diesel, Clear and Coloured.	One, 4540 L Double Walled Above Ground Storage Tank ("AST")	Fuelling onsite loaders and trucks	The AST is located on a concrete pad with concrete protective bollards. - Drip trays are found at fuelling connection points to collect any releases. A Fuelling Procedure is in place. - Site Personnel responsible for fuelling have received appropriate procedural training. - The Fuelling Procedure and Spill Response Procedure are (see Section 6) - Spill Response Procedure posted in the fuelling area. - The diesel AST and Fuelling Area are subject to weekly inspections.
Hydraulic Oil	Approximately two 205 L drum	Used to lubricate and maintain equipment	- Stored in the maintenance shop - Drums are located on spill containment pallet

Vehicles (i.e. highway trucks) delivering raw materials (i.e. various aggregates, and small quantities of various oils and chemicals), excess fill, and shipping finished products enter and exit the Site via Snyder's Road. The Site also maintains two on-site loaders which service the screening plant. These vehicles have also been identified as a potential source of fuel/oil spills.

Product	Container	Uses	Controls
Paint, Solvents, Cleaners, Aerosols, (e.g. paints, electrical contact cleaners, or cleaners and degreasers)	Small quantities	Used in the Maintenance Shop.	Stored in the maintenance shop.

The site foreman and all employees on site shall be familiar with procedures as set out in the attached document - "Plan of Action - Contaminant Spills"

- 3.0 **Roles and Responsibilities** The Spill Response Coordinator (or designated Alternate) has the following responsibilities:

In case of a spill, responding to the spill location and taking charge or ensuring someone takes charge of containing the spill and ensuring the safe handling, clean-up, and proper disposal of spill residues and clean-up materials.

Reporting the spill internally (to the Environmental Manager, Plant Manager and Senior Management) and externally (Ministry of Environment, Conservation and Parks Spills Action Centre ("MECP SAC"), Township of Wilmot, and Regional Municipality of Waterloo), as required.

- 4.0 **Identified Receiving Bodies of Concern** Any spills occurring within the pit will be contained within the pit. All storm water within the pit infiltrates the ground surface and any surface drainage flows towards to a low-lying area located near the southern end of the Site where it infiltrates the ground surface. The ground surface at this low-lying area is inferred to be approximately 1.5 metres above the local water table and therefore represents a potential risk for potential environmental impact. There is also water kept associated with the existing farmhouse and there are four additional groundwater monitors located along the periphery of the site (See map for locations).

- 5.0 **Prevention** Appropriate measures should be taken to prevent the occurrence of a spill Assigned Site Personnel are responsible for conducting regular inspections of the preventive measures implemented on-site. All Site Personnel and contractors are responsible for following training, operating procedures, and work instructions set out and required by Petersburg Sand Company Inc.

On-site re-fuelling of equipment is only conducted by Site personnel who have received appropriate training. The Fuelling Area (adjacent to the scale house) is located greater than 30 m away from any surface watercourses, water bodies, wells, or other sensitive areas (i.e. the lowlying area located near the centre of the Site). The drainage from the fuelling area will be such that any spills will be captured on-site. Fuelling Area Site personnel follow a documented Fuelling Procedure which is posted in the fuelling area along with a copy of the Spill Response Procedure. Drip trays are placed at fuelling reception points to capture any releases. Crushers, screens, conveyers, generators etc. require regular maintenance. This often entails lubrication, cleaning and/or replacement of oils. All fluids removed from this machinery will be collected and removed from the site. All spillage of fuels, liquids, lubricants etc. will be cleaned up immediately. The use of degreasers on immobile machinery will be kept to a minimum.

Drums and containers of oil and chemicals on Site should be stored indoors, where possible, and provided with containment. Drums/containers should be kept away from vehicular traffic and heavy equipment and/or collision protection (i.e. bollards or jersey barriers) should be provided, if necessary.

Spill kits are located in high-risk areas and regular documented inspections are conducted to ensure the spill kits are fully stocked.

Up to date Safety Data Sheets ("SDS") are maintained on-site for all applicable materials. This SMP and the Spill Response Procedure are also posted in the Maintenance Shop.

- 6.0 **Spill Response** Procedures shall be implemented to unforeseeable circumstances and/or catastrophic events, spills of larger quantities of materials may occur. In the event of this occurring the following procedure will be followed:

- Spill response equipment must be maintained and readily available on—Site. Absorbent materials must be stored in high-risk areas (i.e. Fuelling Area, Maintenance Shop) or provided by contractors delivering fuels / chemicals (i.e. maintained in their trucks). Where liquid transfers occur within the vicinity of on-Site ditches, booms must be available for placement in the ditch before the bulk transfer begins.
- Depending on nature of the potential spill sources/areas (i.e. quantity, physical and chemical characteristics), the spill kits may contain the following:
 - Absorbent pads, pillows, socks;
 - Hydrophobic spill booms, of suitable size and length, to contain the spill in the ditch;
 - Absorbent material (i.e. clay absorbent) to absorb spills to the ground;
 - Dust pan/brushes;
 - Non—sparking shovel;
 - Neoprene drain cover(s);
 - Spilled material container/drum/bags;
 - Neoprene gloves; and,
 - Warning tape.

A loader is also available on-Site to facilitate spill response and clean-up if required. At minimum, the following personal protective equipment ("PPE") is kept within or in the vicinity of the spill kits, to assist with spill clean-up:

- Safety goggles;
- Neoprene gloves;
- Respirators with appropriate filters, if required (as identified in SDS); and,
- Neoprene coveralls and/or aprons, if required (as identified in SDS).

The Spill Response Coordinator must ensure that regular inspections of spill response equipment/ kits are completed to verify availability and whether maintenance / replacement of any equipment is warranted.

Spill kits are maintained on Site in the following areas:

- Main office / scale house;
- Maintenance Shop;
- Fuelling Area
- On-board heavy equipment (i.e., loader); and
- Maintenance Trucks.

- 6.1 **Reporting** The following information regarding the spill will be reported immediately to the site foreman:
 - Spillage substance spilled
 - Quantity of substance spilled
 - Location of spill
 - Time that spill occurred

If the spill is over 80 litres of oils or 40 litres of fuel, degreasing agents, coolants or solvents, the MECP and the Region of Waterloo will be informed immediately. The current telephone number for the MECP Spills Action Centre is 1-800-268-6060 (24 hrs) and the Region of Waterloo is 911 or 519-575-4400.

Regardless of the quantity of the spill, mitigative measures will commence immediately in accordance with the attached plan of action. Initial measures will involve excavation of the contaminated soil. The soil removed from the spill area will be stored onsite in a manner acceptable to the MECP until the MECP has had an opportunity to assess the situation. If required by the MECP, the site operator will remove the contaminated material from the site by an approved waste hauler to an approved waste receiver.

If it is reasonable to suspect that the contamination will ultimately reach the groundwater and the following procedures will be followed:

- The excavation will be extended to the water table and a pump, suitable for the type of contamination, will be installed and operated to collect the contaminated groundwater. The collected groundwater will be stored, treated and discharged or removed from the site as recommended by the MECP.
- Where the thickness of soil above the water table makes it impossible to excavate to the water table, a withdrawal well will be drilled, and a pumping system installed and operated to collect the contaminated ground water. The collected ground water will be stored on site, treated and discharged or removed from the site.

If required, additional ground water monitors will be installed to verify that the contamination has been mitigated.

If there is a potential for domestic wells being impacted by the spill, the users of those wells will be notified.

- 6.2 **Disposal of Spilled Materials** Free standing liquids are usually removed by vacuum truck. Spilled material, spent absorbent, and/or impacted soil should be placed into labelled poly-lined drums, lugger bins, or other sealed containers. Lugger bins should be tarped to keep storm water out. Larger quantities of impacted soil should be placed on a hard surface, if possible, tarped (both over and under the stockpile) and secured with sandbags or other ballast to keep storm water out.

Spilled material, spent absorbent, and/or impacted soil should be stored in a secure storage area until removed for disposal. Spilled material, spent absorbent, and/or impacted soils will need to be sampled and analyzed for contaminants and/or impurities (TCLP) by a CALA accredited laboratory prior to disposal at a licensed landfill (non-hazardous or hazardous). The landfill will require the results of the TCLP analysis prior to accepting the waste. If the TCLP analysis confirms the waste is not hazardous, it may be disposed of at a landfill approved to accept non-hazardous waste. Hazardous waste and must be disposed of at a landfill licensed to accept hazardous waste.

Depending on the spilled material, additional testing may be required (i.e. corrosivity, provability, reactivity).

- 7.0 **Employee Training** The site employees are required to have the following training:
 - All employees shall be familiar with "Recommended Procedures for the Prevention and Mitigation of Contaminant Spills" cleanup, the associated plan of action report form, any and all materials and equipment that would be used and their location in the event of a contaminant spill.
 - Employees shall receive training in respect to the use of materials and equipment required in a contaminant spill cleanup.

- 8.0 **Reporting Requirements** A copy of each written contaminant spill report will be stored on-site for future reference and will be made available to the MECP and/or the Region of Waterloo upon request.

- 9.0 **Plan Review** This plan will be reviewed on an annual basis to ensure conformity with local laws and provincial guidelines.

- 10.0 **Plan of Action Contaminant Spills**

- Contact the foreman
- Stop the situation and take immediate action to stop further spillage.
 - Stop the source.
 - Confine or contain the spill.
 - Appropriate service vehicles in the area to proceed immediately to the spill site when advised that a spill has occurred.
 - Use kit materials to start removing spill product.
- Kit material to be located in scale house or maintenance building.
- Spill kit contains: 1 - 27 litre (7 gallon) polyethylene pail, 1- Gasket seal lid, 6 - Eliminator E-2 socks, and 1 - Polyethylene disposal bag.
- Use 45 gallon containers to contain smaller spills. Put any absorbed oils into containers for disposal.

3. The dispatcher/scale operator/foreman is to confirm that the Ministry of the Environment Conservation and Parks and the Region of Waterloo has been contacted, where necessary. The phone numbers are 1-800-268-6060 (MECP) and the Region of Waterloo is 911 or 519-575-4400.

4. The site supervisor is to contact the Fire and Police departments, where deemed necessary.

5. The site supervisor and person finding the spill will make out a full written report immediately after the spill is taken care of. The following shall be documented in the report:

- location in pit (shown on reduced site plan photocopy)
- time of spill
- type of spill

MIDDLE STREET PIT

OPERATIONAL PLAN NOTES

SHEET 3 OF 5

- estimated quantity
- cause of spill
- property damage
- response time and number of people involved
- clean up measures taken
- assessment of area affected after clean up
- an assessment of how spill could have been prevented
- a diagram of the spill area
- signature of site supervisor and personnel involved in cleanup

1. **Well Complaint Protocol**

Petersburg Sand and Gravel has committed to addressing any water well issues arising as a result of aggregate extraction activities. If Petersburg Sand and Gravel receives of a complaint regarding any such issues, the following protocol will be followed.

Concerns about water well issues will be received any time at 647-229-800 or by email messages sent to mike@petersburgsandandgravel.com. Updated contact information may be provided to local landowners prior to the start of construction.

In the event Petersburg Sand and Gravel receives a complaint regarding an adverse impact on water supply or quality which, in the opinion of Petersburg Sand and Gravel and its consultants, may reasonably be attributed to aggregate extractive activities, a supply of bottled water for drinking/cooking will be delivered to the complainant within 12 hours of the complaint and, as necessary, an alternative water supply will be delivered within 24 hours of the complaint being received. The same commitment is made for industrial and agricultural operations and includes, as necessary, sufficient water supply for relevant farm and industrial requirements.

Within 48 hours, Petersburg Sand and Gravel will initiate a hydrogeological investigation conducted by a qualified hydrogeologist or engineer to determine whether the water issue is attributable to aggregate extraction activities. The investigation may include but not be limited to the following actions:

- Completion of construction well issues in the vicinity of the subject well
- Review of historical trends in groundwater levels and groundwater quality obtained in on-site groundwater monitoring wells, and surrounding domestic wells.
- Review of historical measured precipitation rates
- Scheduling an interview with resident regarding well complaint
- Investigation of subject well including flow testing, water level measurements and water quality testing if necessary
- Written report summarizing the findings.

In the event that activities related to the aggregate extractive activities are determined to be the cause of the complaint, Petersburg Sand and Gravel will undertake appropriate mitigation measures such as:

- Provision of the alternate water supply until water clarity/quality or water level issues abate
- Lowering the level of the pump within the resident's well
- Deepening the resident's well
- Replacing the resident's well
- Treating the resident's well water

Noise (HGC Engineering Limited, dated March 2022)

1. The following table presents the reference sound levels used for the acoustical modeling presented herein. These sound levels were based on site measurements of similar processing equipment to be used in this pit.

Equipment Sound Power Level	dBA re: 10-12 W
Crushing/Screening Plant with an associated Loader	117
Excavator	107
Additional Loader	103
Trucks	101

If other equipment is proposed for operation in the pit, it shall be confirmed through measurement to produce sound levels consistent with the above referenced sound levels or additional mitigation measures may be required.

2. No excavation shall occur in the Phase 4 area until mining in Phases 1 to 3 has been completed to preserve the shielding provided by the height of land in the Phase 4 area for the noise sensitive receptors.

3. A minimum 8.0 m high local acoustical barrier shall be constructed and maintained on the pit floor beside the crushing/screening plant in the direction of R1 to R4 when extraction activities in Phase 4, approximately 150m in total length.

4. The crushing/screening plant shall not operate within 350 m of R1 once extraction has commenced in Phase 4.

5. A 3 metre high noise barrier shall be constructed on the east side of the haul route at the location and for the extent shown on the Operational Plan (Sheet 2 of 5), approximately 80 metres in length.

6. A 3.5m high noise barrier shall be constructed on the southwest corner of Phase 4 at the location and extent shown on the Operational Plan (Sheet 2 of 5) prior to extraction activities in Phase 4, approximately 150m in total length.

7. The acoustical barriers could be the pit face when the equipment is located less than 100 metres from the pit face; or could be comprised of an earthen berm, a noise wall, aggregate stockpiles or any other construction with a minimum surface density of 20 kg/m².

8. Activities used to prepare the site for excavation, such as the stripping of topsoil, construction of berms, or activities related to the remediation of the site are considered to be construction activities. These sound emissions must comply with municipal bylaws and NPC-115 "Sound Level Limits for Motorized Construction Equipment".

Natural Environment (Dance Environmental Inc., dated March 2022)

- Clearing of any vegetation within the limit of extraction shall occur between October 1 and March 31 to prevent any destruction of birds, eggs or nests. This is particularly relevant to the FODM11 fencework at the eastern licence boundary edge and the MEMM3. Completing clearing during the time window noted will also ensure no impact to any potential SAR bat maternity roosts (MECP 2021).
- Effective dust control shall be maintained along the access road and in the pit, so that dust does not impact adjacent vegetation and wildlife. GHD has prepared a dust management BMP report, and recommendations of that report shall be followed.
- Adequate undisturbed and ungraded setbacks shall be established between the limit of extraction and the Level 1 features as follows:
 - The northeast corner of the licence area shall be removed from active agriculture and left to become a naturalized buffer between the northern extraction limit and the wetland/OAO pond off-site to the north. This naturalized buffer will allow for continued infiltration of water from this area towards the wetlands inside and outside of the licensed area. This will create a buffer of 20 metres or greater between the extraction limit and the GRCA regulated area limit;
 - The 10 metre wide dieline edge buffer adjacent to the FODM5-1 forest (ESPA15) shall be allowed to naturalize with wild species which will invade it from the north;
 - Removal of topsoil and aggregate extraction shall occur only up to the southern margin of the naturalized buffer, which will be 10 metres from the dieline of the FODM5-1 forest in the licence area. Top soil from Phase 3 of extraction shall not be stored/piled within the naturalized buffer area.

4. Setback areas shall be allowed to naturalize to wild vegetation cover.
5. Progressive rehabilitation shall be undertaken.

6. Equipment fueling, maintenance and fuel storage shall be located away from the Sugar Maple Deciduous Forest (FODM5-1) which contains the vernal pool wetland feature, and off-site wetland/OAO pond off-site to the north of the licence area. Fuel storage shall be located at the southern end of the pit, adjacent to the scale house and scale on an impervious pad, along with a double lined tank, as per provincial regulations.

7. Extraction shall be kept 1.5 metres above the shallow ground water elevation so that there are no impacts on the wetland/pond features in and outside of the licence area.

8. The northern limits of extraction shall be fenced with post and wire fencing or other posts to prevent equipment from impacting the ESPA15 boundary edge in the licence area. This fence shall be located at the surveyed and plotted 10 metres setback out from the surveyed dieline of the on-site FODM5-1 forest.

9. Silt fence shall be installed along the outside of the fence posts of the northern limit of extraction before any topsoil stripping occurs in Phase 3 of extraction; it shall be inspected at weekly intervals and repaired as soon as it is practical, if repairs are necessary. The silt fence shall be inspected and maintained for one year and thereafter until such time as dense ground cover vegetation is established in the buffer area. The silt fence shall extend from the northwest corner of the extraction limit (south of the FODM5-1 forest) and extend east past the eastern edge of the FODM5-1 forest by 5 metres.

10. If Bank Swallows begin to nest in the vertical slope or stockpiles within the new pit, pertinent regulatory requirements in effect at the time shall be followed to avoid impacts on this species. It is recommended that the operator consult with MECP for any advice or recommendations concerning impact on Bank Swallows if they are found to be present nesting within the pit, and confirm that Endangered Species Act obligations will be met.

- Any operational or rehabilitation requirements necessary to fulfill obligations shall be included in writing to NDNRN for their review and approval, as possible.

11. It is recommended that the NETRE/IS shall be submitted to MECP for review relative to Species at Risk legislation.

12. That the "Ecological Monitoring Plan for the Proposed Middle Street Pit, 1856 Snyder's Road East, Region of Waterloo", authored by Dance Environmental Inc. (November 24, 2022) be implemented for the Middle Street Pit Category 3 Pit Licence.

Agriculture/Solids (DBH Soil Services Ltd., dated March 28, 2022)

- Strip the topsoil, subsoil and overburden separately. Each soil material should be stripped, moved and stored separately. Intermixing of the soil materials should not occur or be kept to a minimum.
- Strip small areas as necessary for the advancement of the extraction operations. The stripping of the ground cover and surface soil materials leaves the exposed area prone to erosion.
- Soil materials should be moved under appropriate weather conditions. Surface soils are easily damaged when they are exposed to the weather.
- Apply a progressive rehabilitation to prevent the degradation of the topsoil materials. Progressive rehabilitation allows for direct movement of soil from the natural state to an area of restoration, without the intermediate stockpiling step.
- Grade and contour the pit floor as part of the progressive rehabilitation. The pit floor should be deep chisel plowed or ripped to release compaction that may have been created from the heavy equipment used in the extraction processes.

- Reestablish the overburden, subsoil and topsoil in the appropriate sequence. There should be a minimum of 2.0 metres (1.5 metres left above water table plus 0.5 metres of replacement soil (topsoil, subsoil)) of soil over the ground water levels to provide for an adequate rooting zone for plant growth. During the restoration of the soil profile, each horizon should be chisel plowed or deep ripped (as appropriate or necessary) to release soil compaction prior to the placement of the next horizon.

7. Use best management agricultural practices as are appropriate for the area, climate and conditions.

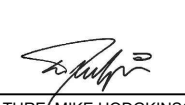
Archaeology (Fisher Archaeological Consulting, dated August 25, 2021)

- It is an offence under Sections 48 and 69 of the Ontario Heritage Act for any party other than a licensed archaeologist to make any alteration to a known archaeological site or to remove any artifact or other physical evidence of past human use or activity from the site, until such time as a licensed archaeologist has complete archaeological fieldwork on the site, submitted a report to the Minister stating that the site has no further cultural heritage value or interest, and the report has been filed in the Ontario Public Register of Archaeology Reports referred to in Section 65.1 of the Ontario Heritage Act.
- 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 sec. 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, c.39 require that any person discovering human remains must notify the police or coroner and the Registrar of Cemeteries, Ministry of Government and Consumer Services (416 212-7499).

Dust (GHD Limited, dated March 28, 2022)

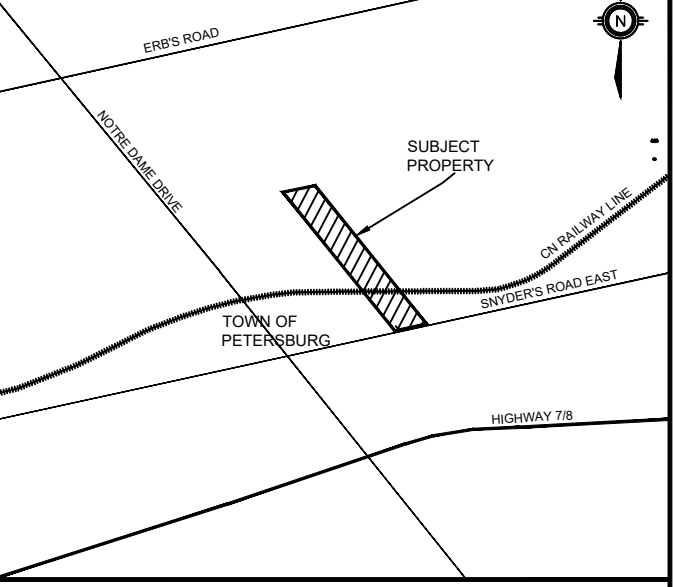
- A Best Management Practices Plan for Control of Fugitive Dust Emissions (BMPP) dated September 16, 2022 was prepared by GHD Limited. A copy of the BMPP and any amendments to the BMPP shall be provided to the Region of Waterloo and the Region of Waterloo upon request.
- All components of the BMPP shall be in effect at all times including a) Control Measures, b) Inspection, Maintenance and Documentation, c) Training, d) Dust BMPP Review and Continuous Improvement.
- All BMPP related records must be retained and available upon request to MECP and/or NDNRN.

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**PETERSBURG SAND
COMPANY INC.**


SIGNATURE/MIKE HODGKINSON - PRESIDENT

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KEY MAP - N.T.S.



MIDDLE STREET PIT

REHABILITATION PLAN

SHEET 4 OF 5

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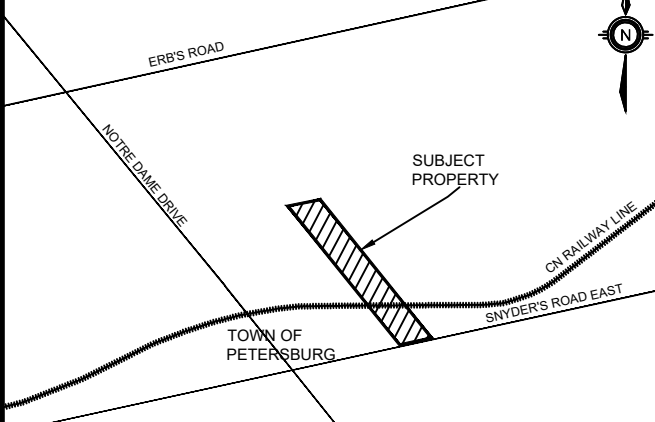
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KEY MAP - N.T.S.



LEGEND

- PROPERTY BOUNDARY
- LICENSED AREA
- EXISTING TREELINE
- HYDRO EASEMENT
- G.R.C.A. REGULATION LIMIT
- EXTRACTION LIMIT
- SURROUNDING PROPERTY BOUNDARY
- GRAND RIVER SOURCE PROTECTION AREA BOUNDARY
- EXISTING POST & WIRE FENCE
- PROPOSED CONTOUR (masl) (2m INTERVAL)
- EXISTING MONITORING WELL
- EXISTING WATER LOGGER
- REHABILITATION PHASING DIRECTION
- REHABILITATION PHASING NUMBER
- ENTRANCE / EXIT
- DIRECTION OF SURFACE-WATER FLOW

PROGRESSIVE AND FINAL REHABILITATION NOTES

Progressive Rehabilitation:

A progressive rehabilitation plan is proposed for the Middle Street Pit. In general terms, this type of rehabilitation involves the sequential removal of topsoil and subsoil materials from the developing areas of the pit and reestablishing these same soil materials (in the appropriate sequence) into the excavated areas. Successful rehabilitation of the pit areas to agriculture after uses shall be accomplished by following a series of established steps as follows:

- Strip the topsoil, subsoil and overburden separately. Each soil material shall be stripped, moved and stored separately. Intermixing of the soil materials shall not occur or be kept to a minimum.
- Strip small areas as necessary for the advancement of the extraction operations. The stripping of the ground cover and surface soil materials leaves the exposed area prone to erosion.
- Soil materials shall be moved under appropriate weather conditions. Surface soils are easily damaged when wet.
- Apply a progressive rehabilitation strategy to prevent the degradation of the topsoil materials. Progressive rehabilitation allows for direct movement of soil from the natural state to an area of restoration, without the intermediate stockpiling step.
- Grade and contour the pit floor as part of the progressive rehabilitation. The pit floor shall be deep chisel plowed or ripped to release compaction from the extraction heavy equipment.
- Reestablish the overburden, subsoil and topsoil in the appropriate sequence. There shall be a minimum of 2.0 m (1.5 m left above water table plus 0.5 m of replacement soil) of soil over the ground water levels to provide for adequate plant growth. During the restoration of the soil profile, each horizon shall be chisel plowed to release soil compaction prior to the placement of the next horizon.
- Use best management agricultural practices as are appropriate for the area, climate and conditions. The most critical step to the success of rehabilitation to agriculture is the conservation of the topsoil material. The main reason for topsoil conservation is that these materials are high in organic matter (when compared to the underlying soil horizons/layers) which relates to higher natural fertility and water holding capacity. In an ideal progressive restoration plan, the topsoil materials are stripped from a natural area and moved directly to an area of rehabilitation, without a significant time spent in stockpile formation. The quality of topsoil materials deteriorates over time in storage, due to changes in soil organisms (fungal and bacterial). It is noted that in the initial stages of the pit start up and operation there are limited opportunities for soil rehabilitation. As a result, in the early stages of pit start up, soil materials will be used for longer term berm material.
- The reapplication of soil materials shall ideally be accomplished in dry soil conditions and through the use of equipment that does not cause excessive soil compaction. Ideally, the soil materials will be reapplied with wide tracked crawler bulldozers. Rubber tired equipment will be avoided as it causes significant soil compaction as compared to tracked equipment. Once the soil materials have been replaced, it shall be determined if it is necessary to chisel plow and stone pick the field prior to seeding the first crops.
- As illustrated on the "Sketch of Progressive Rehabilitation Sequence and Direction" (Sheet 4 of 5), as extraction is completed in each phase, the following progressive rehabilitation actions will occur:
 - Side slopes shall be backfilled using on-site overburden or imported clean inert fill. The side slopes will be created at a minimum slope of 3:1.
 - Excess soil, as defined in Ontario Regulation 406/19 under the *Environmental Protection Act*, may be imported to this site to facilitate the following rehabilitation:
 - Creation of 3:1 slopes,
 - Top dressing to establish vegetation.
 - The quality of excess soil imported to the site for final placement must not exceed the applicable excess soil quality standards in accordance with O. Reg 406/19 as amended from time to time and must be consistent with the site conditions and the end use identified in the approved rehabilitation plan.
 - Excess soil imported to facilitate rehabilitation as described shall be undertaken in accordance with the "Rules for Soil Management and Excess Soil Quality Standards" published by the Ministry of the Environment, Conservation and Parks under O. Reg 406/19, as amended from time to time.
 - The maximum total amount of excess soil that may be imported to this site for rehabilitation purposes is 1.5 million m³.
 - The licensee shall ensure that the acceptance and reuse of excess soil imported for rehabilitation purposes is compliant with Part I: Rules for Soil Management of the "Rules for Soil Management and Excess Soil Quality Standards" published by the Ministry of Environment, Conservation and Parks and as amended from time to time.
 - The licensee shall keep records that detail and track:
 - Where the excess soil was transported from (i.e. source site);
 - Quality and quantity of soil received;
 - If receiving from more than one source site, the location where the excess soil has been placed on site.
 - On-site topsoil/subsoil/overburden shall be placed across the prepared pit floor and side slopes. The material is permitted to be stripped from the next extraction phase or depending on location and timing, from the perimeter berms. Material replaced shall be similar in depth to that removed (i.e., 0.15 - 0.2 metres topsoil and 0.3 metres subsoil) thereby providing a minimum final depth of 2.0 metre cover above the high groundwater table and generally as shown on the Progressive and Final Rehabilitation Plan, Sheet 4 of 5 AND Pit Floor Detail, Sheet 5 of 5.
 - Earth scrapers, bulldozers, excavators and trucks shall be used to replace the on-site subsoil and topsoil, subject to Note 8 above.
 - Once the pit floor has been rehabilitated, the lands will be seeded to a cover crop of oats and rye grasses to control surface erosion. Cover crops will be disc plowed in the spring to add organic matter. A grass/legume mixture will be established to improve soil structure and add fertility. Grass and legume cropping shall continue for several based on the following cropping sequence:

Time Frame	Crop	Comments
Year 1	Cover Crops (Oats or Rye Grass)	Control of erosion
Year 2-4	Legume or legume/grass mixture	Improve general soil conditions
Year 5+	Row crops in rotation with legume, legume/grass mixture	

Maintenance:

- If any significant portions of the planted vegetation die out, it will be replaced immediately during the proper planting season.
- If any significant erosion or gully occurs at any time during the progressive and final rehabilitation, the Licensee will repair the area and re-seed as necessary.

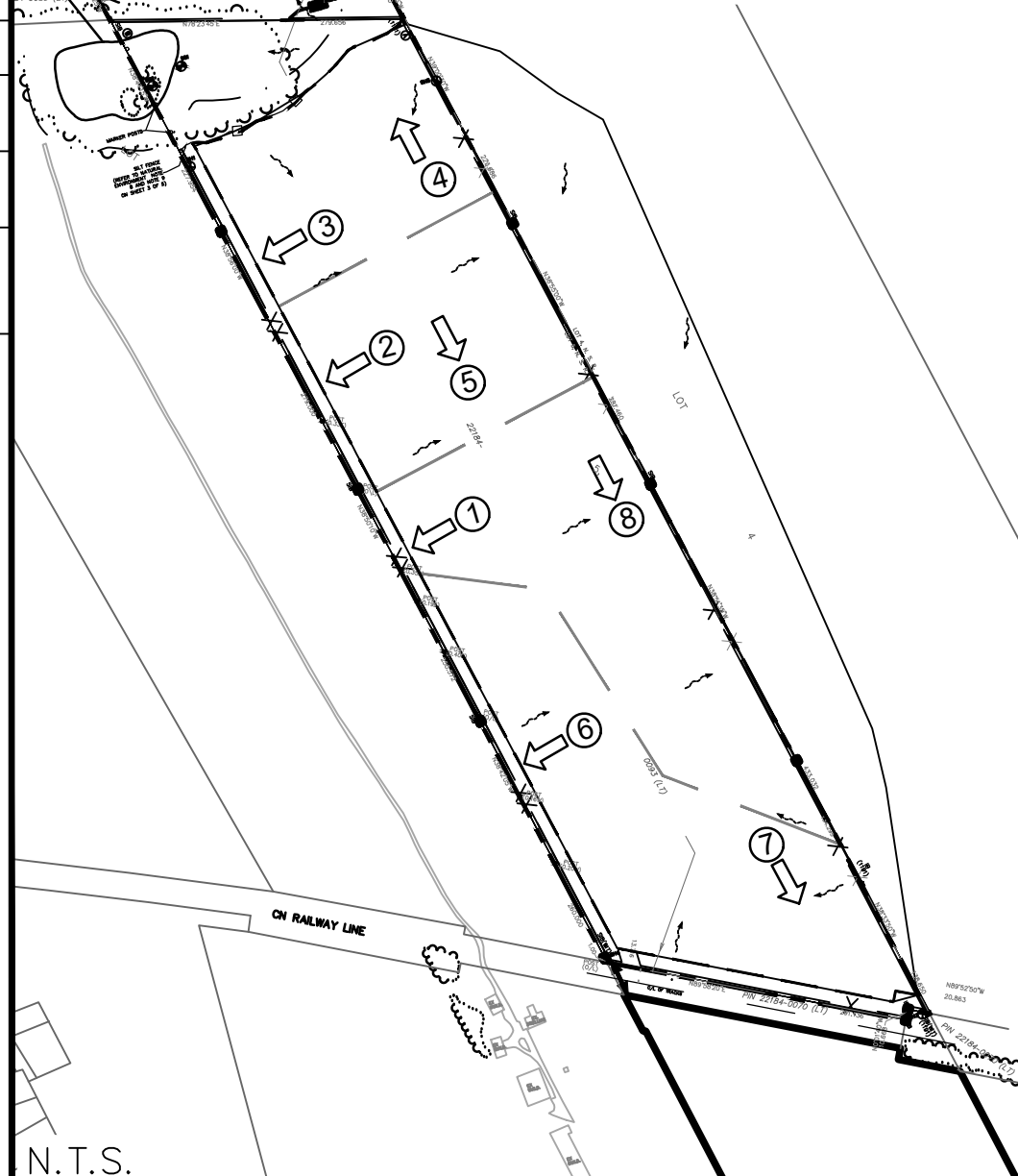
Final Rehabilitation

- Fencing: Once the site has been fully rehabilitated, the perimeter post and wire fence shall be retained where shown on this page.
- Internal Haul Routes: Once the site has been fully rehabilitated, all internal haul roads will be removed except the CNR Line crossing; Snyder's Road entrance/exit; and farm equipment access ramps.
- Final Contours: Final contours are interpolated from available information at the time of preparation of these Site Plans and actual post-extraction slopes may vary, however, the final pit floor elevations as noted by the spot elevations shall be achieved, but the final direction of surface water flow as shown, shall be met.
- All building(s) and / or structure(s) shall be removed from the site as part of final rehabilitation.

Final Land Use

- The final land use for the subject lands shall be agriculture.
- The total area to be rehabilitated is 22.52 hectares.

SKETCH OF PROGRESSIVE REHABILITATION SEQUENCE AND DIRECTION



DEPICTION OF REHABILITATED CONTOURS AND LIMIT OF EXTRACTION FOR LICENSE #5717 IS SHOWN FOR INFORMATION PURPOSES ONLY AND IS NOT INTENDED TO REGULATE OR OVERSEE INFORMATION SHOWN ON THE CURRENT APPROVED AREA SITE PLANS ON FILE WITH NDNR.

ADDITIONAL LANDS OWNED BY APPLICANT < THIS PART OF PROPERTY IS NOT TO BE INCLUDED IN LICENSE APPLICATION

VARIATIONS TO THE OPERATIONAL STANDARDS

No.	DESCRIPTION
0.13(1)104	No setback along eastern boundary common with License #5717.

REVISIONS PRIOR TO APPROVAL

No.	DATE	DESCRIPTION
1	17/05/2022	NDMNR FIRST COMMENTS 12/05/2022
2	09/06/2022	NDMNR 2nd COMMENTS 09/06/2022

SITE PLAN AMENDMENTS

No.	DATE	DESCRIPTION

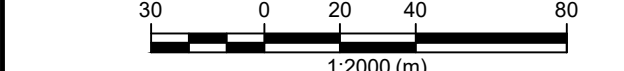
SITE DATA

AREA TO BE LICENSED	27.54 ha
AREA TO BE EXTRACTED	22.52 ha
EX. DISTURBED AREA	Nil
TOTAL LAND PARCEL	36.38 ha

THIS SITE PLAN IS PREPARED UNDER THE AGGREGATE RESOURCES ACT FOR A CLASS A LICENSE FOR A PIT ABOVE THE GROUND WATER TABLE. THIS SITE PLAN IS CERTIFIED BY THE UNDERSIGNED BY THE AUTHORITY OF MINISTERIAL APPROVAL AS SPECIFIED IN THE AGGREGATE RESOURCES ACT SECTION 8 (4).

DATE: APRIL 22, 2022
DAVE BARRETT, MCIP, RPP

SCALE



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PROJECT
1856 SNYDER'S ROAD EAST
PART OF LOT 5, NORTH OF SNYDER'S ROAD, TOWNSHIP OF WILMOT, REGIONAL MUNICIPALITY OF WATERLOO

PROJECT NO: 132496	SCALE: 1 : 1,500
DRAWN BY: E.T.J.M.	CHECKED BY: C.T.
PROJECT MGR: D.B.	APPROVED BY: D.B.

SHEET TITLE
REHABILITATION PLAN

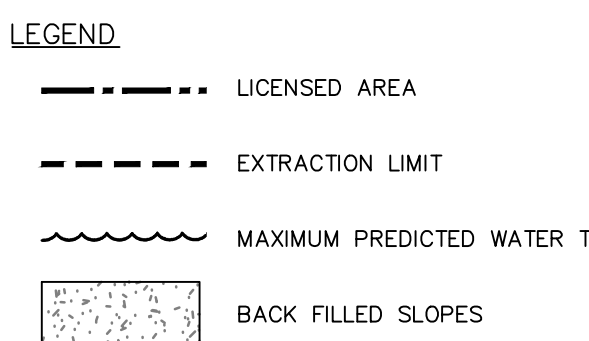
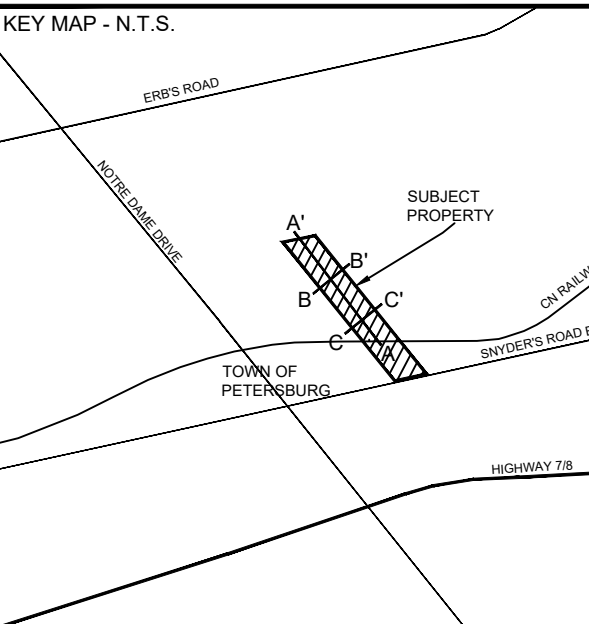
SHEET NUMBER 4 of 5	ISSUE 1
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MIDDLE STREET PIT
CROSS-SECTIONS
SHEET 5 OF 5

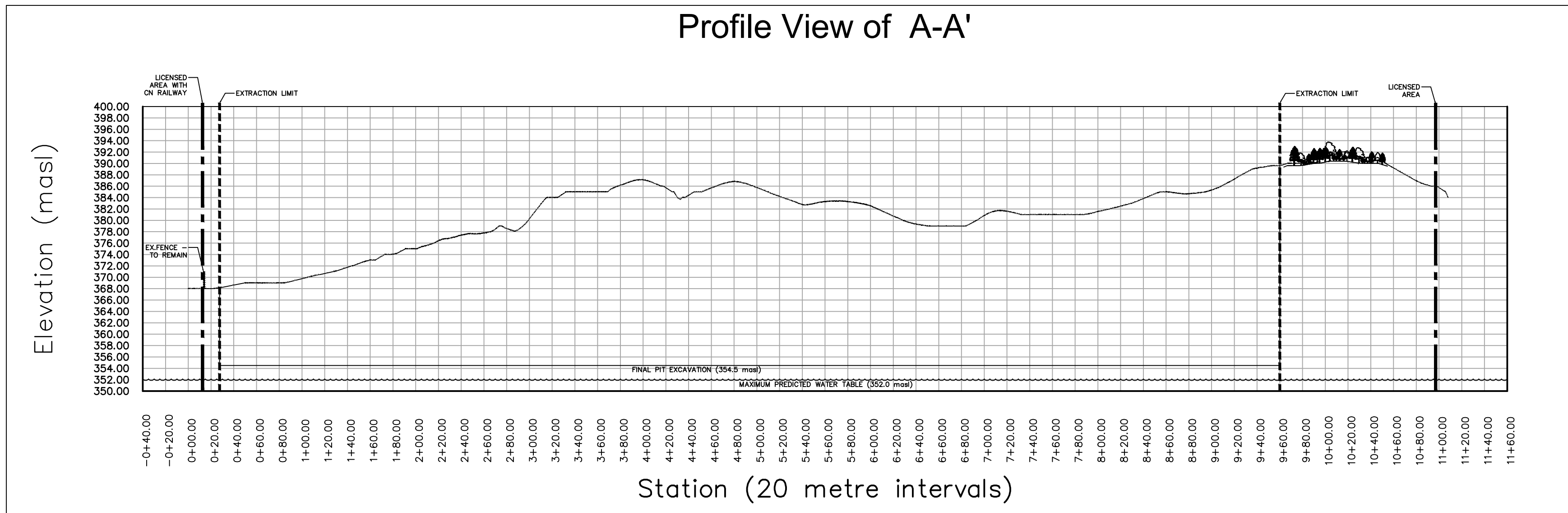
CLIENT
PETERSBURG SAND
COMPANY INC.

SIGNATURE: MIKE HODGKINSON - PRESIDENT

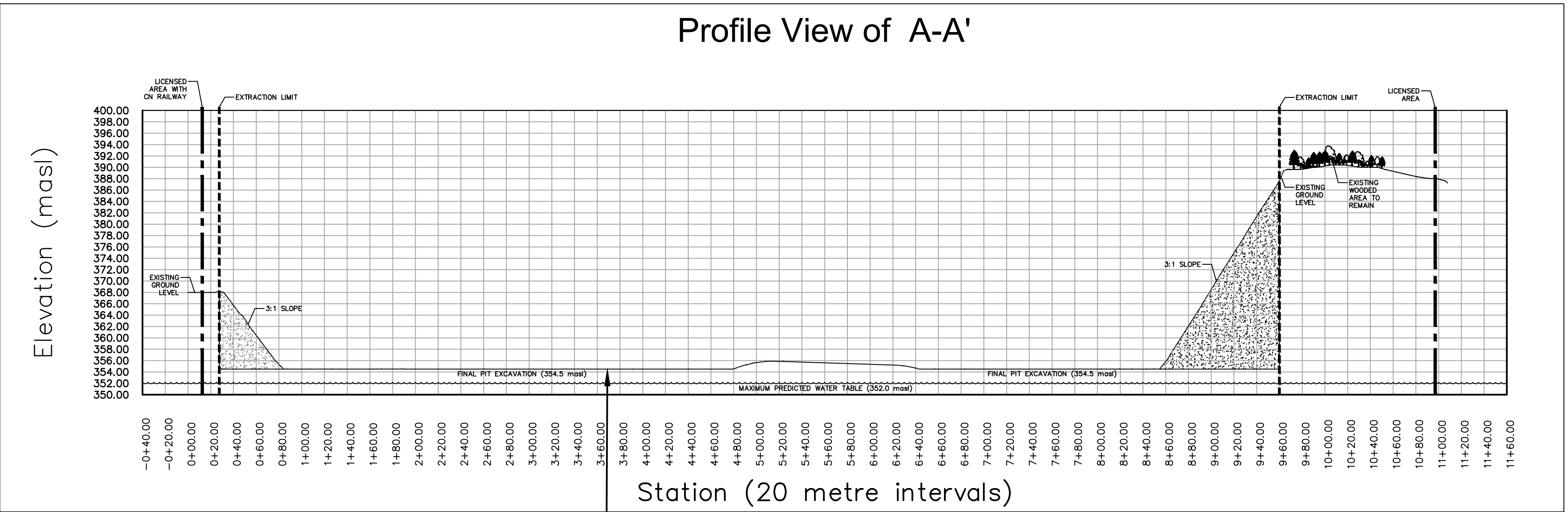
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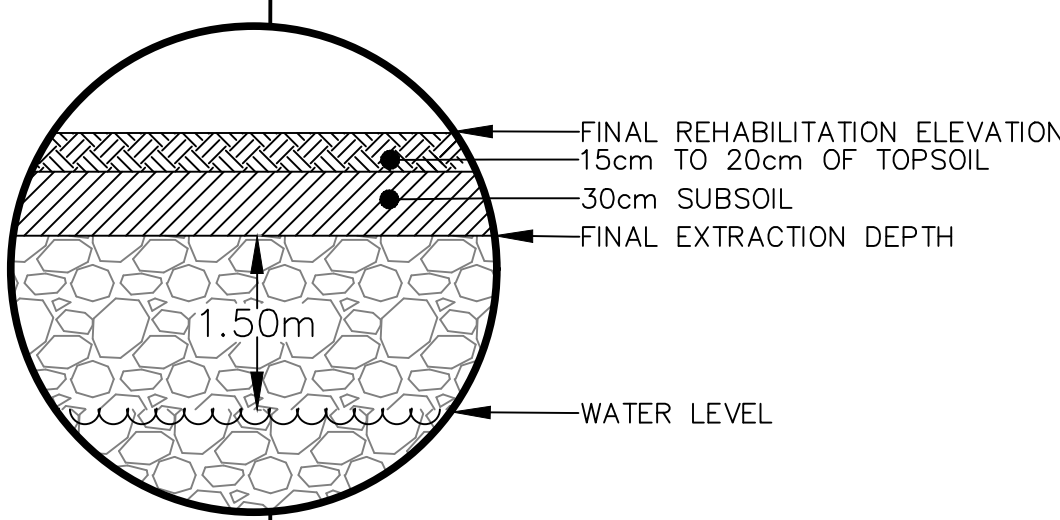
EXISTING PROFILE VIEW OF A-A'



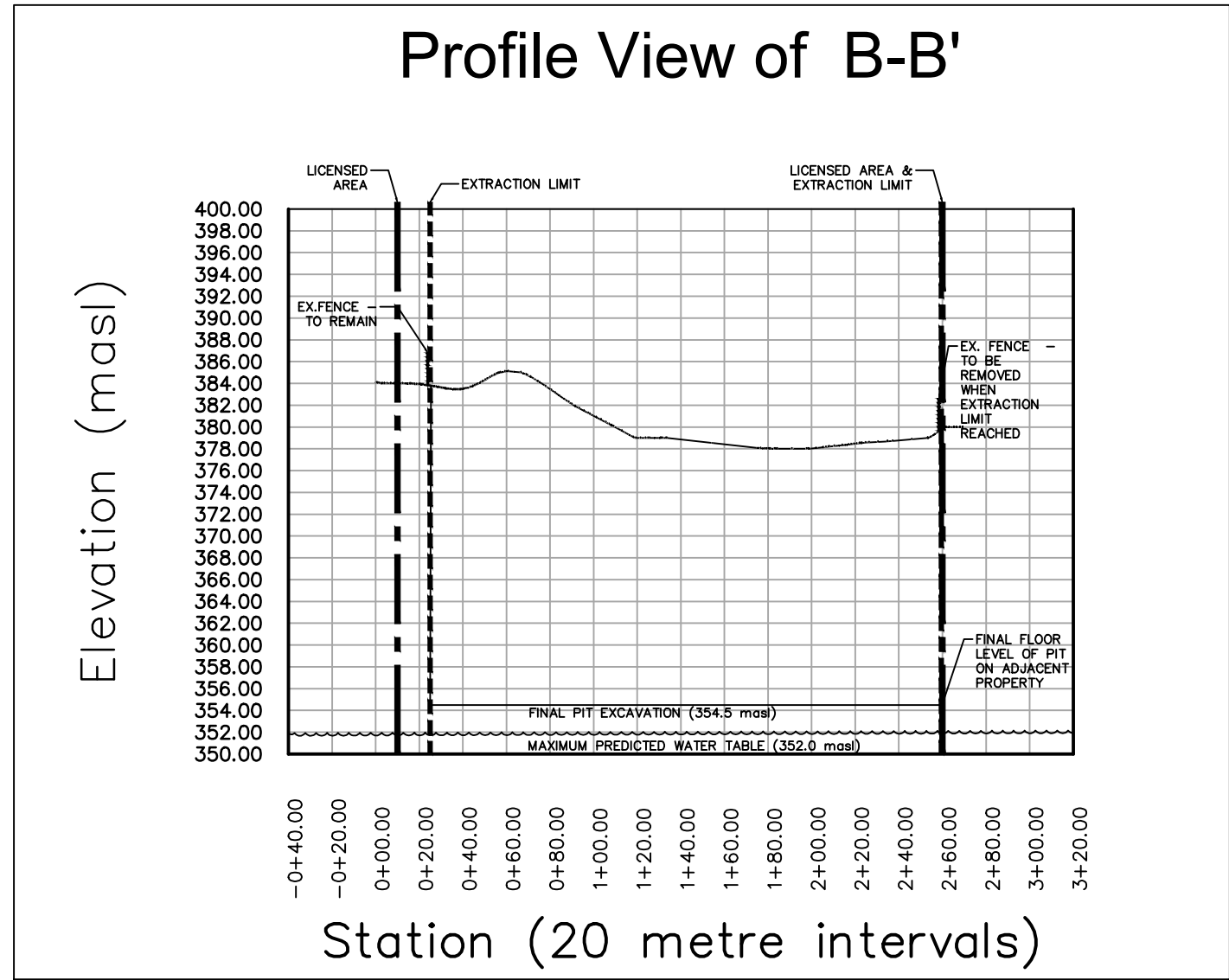
REHABILITATION PROFILE VIEW OF A-A'



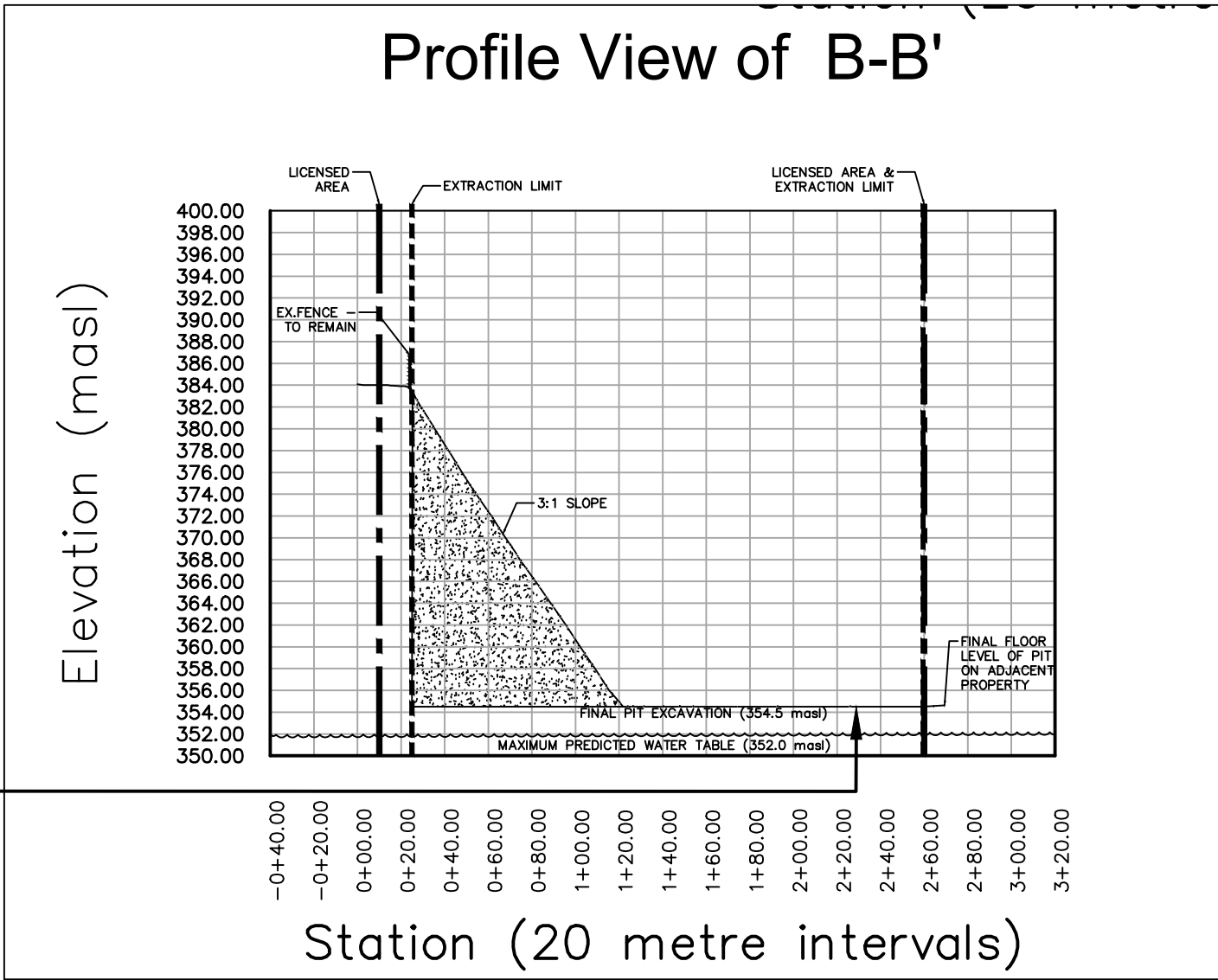
PIT FLOOR DETAIL



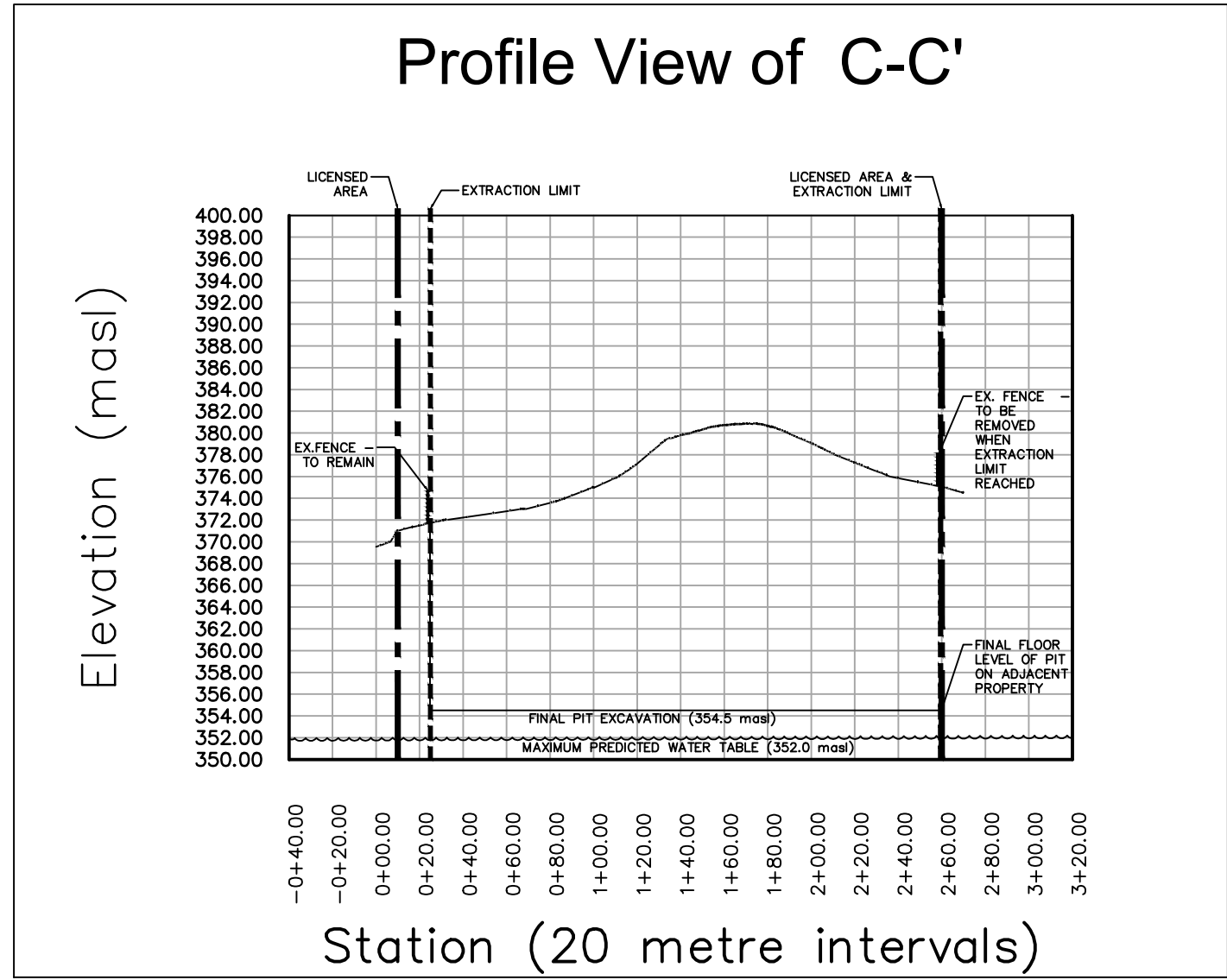
EXISTING PROFILE VIEW OF B-B'



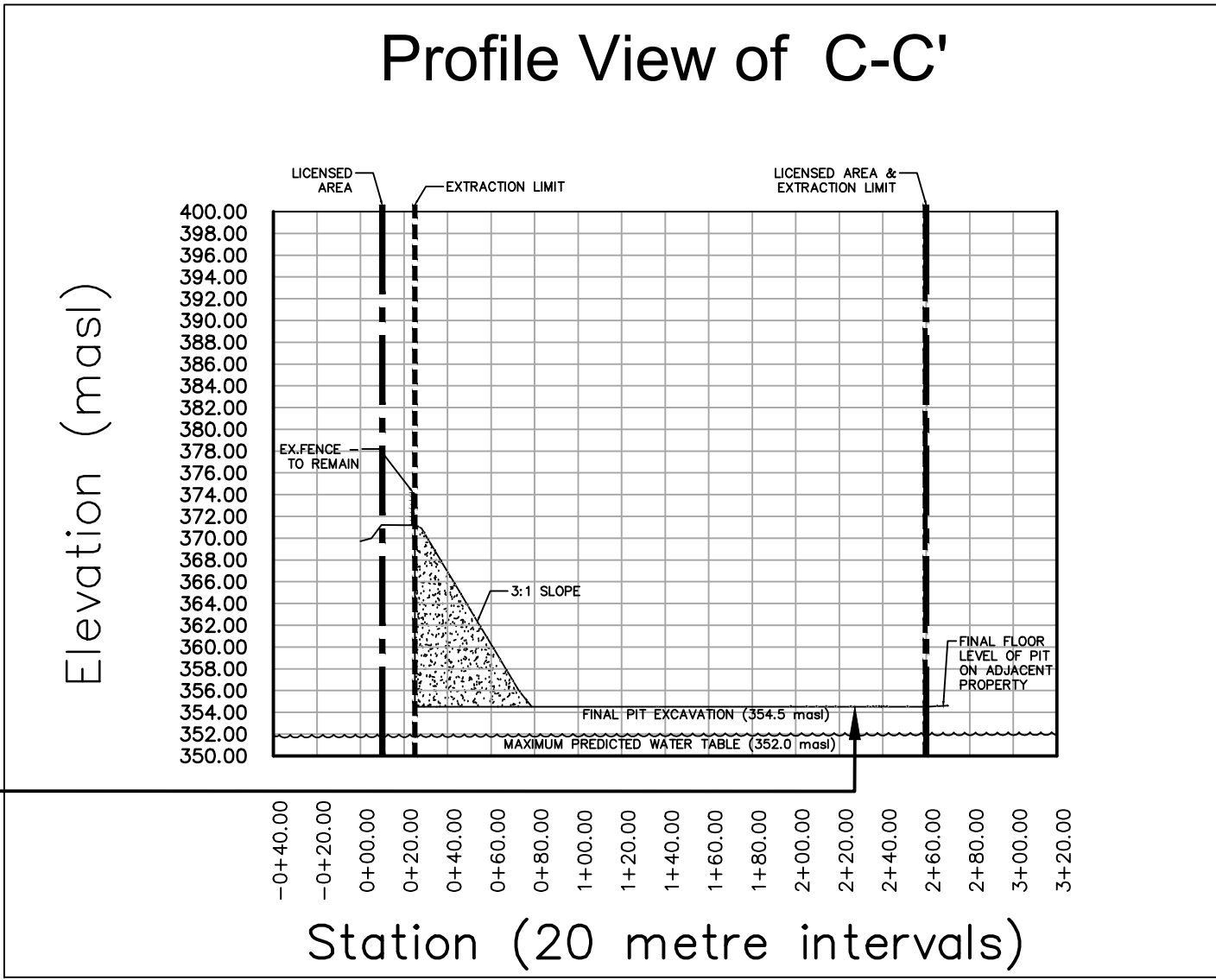
REHABILITATION PROFILE VIEW OF B-B'



EXISTING PROFILE VIEW OF C-C'



REHABILITATION PROFILE VIEW OF C-C'



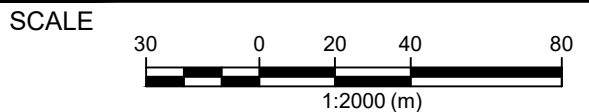
REVISIONS PRIOR TO APPROVAL		
No.	DATE	DESCRIPTION
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SITE PLAN AMENDMENTS		
No.	DATE	DESCRIPTION

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APRIL 22, 2022
DATE: DAVE BORRETT, MCIP, RPP



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SHEET TITLE
CROSS-SECTIONS

SHEET NUMBER 5 of 5	ISSUE 1
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