

THE CORPORATION OF THE TOWNSHIP OF EAST GARAFRAXA

BY-LAW NUMBER 3-2020

Being a By-Law to Number Zoning By-Law Amendment for the lands described as West 1/2 Lot 2, Concession 17 and East 1/2 Lot 1, Concession 18 Township of East Garafraxa.

WHEREAS The Local Planning Appeal Tribunal (Case Numbers PL15410451 & PL15410453) by its Decision and Partial Order dated February 8, 2019 approved the site specific Zoning By-Law with respect to West ½ Lot 2, Concession 17 and East ½ Lot 1, Concession 18, Township of East Garafraxa;


AND WHEREAS The Local Planning Appeal Tribunal by its Order dated January 2, 2020 authorizes that the Township Clerk may assign a By-Law number to the Zoning By-Law approved by the Tribunal in its partial order for the subject lands;

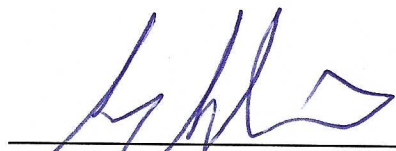
NOW THEREFORE Council of the Corporation of the Township of East Garafraxa enacts as follows:

1. That Zoning By-Law Amendment attached as Schedule "A" be numbered 3-2020 pursuant to The Local Planning Appeal Tribunal Order dated January 2, 2020 attached as Schedule "B"
2. This by-law shall take effect from the date of passing thereof.

BY-LAW READ A FIRST AND SECOND TIME THIS 28th DAY OF JANUARY 2020

BY-LAW READ A THIRD TIME AND PASSED THIS 28th DAY OF JANUARY 2020


Clerk


Head of Council

THE CORPORATION OF THE TOWNSHIP OF EAST GARAFRAXA

BY-LAW NUMBER _____

BEING A BY-LAW TO AMEND ZONING BY-LAW NUMBER 60-2004,
AS AMENDED

WHEREAS the Council of the Corporation of the Township of East Garafraxa is empowered to pass By-laws to regulate the use of land pursuant to Sections 34 and 36 of the *Planning Act*, R.S.O. 1990, c. P. 13, as amended;

AND WHEREAS the owner of the East Half of Lot 1, Concession 18 (East Pit) and the West Half of Lot 2, Concession 17, (West Pit) Township of East Garafraxa, County of Dufferin has filed two applications to amend the Zoning By-law Number 60-2004, as amended (Township File Nos.: Z2-12 and Z3-12 Greenwood East and West Pits);

AND WHEREAS it is deemed appropriate to amend By-law 60-2004 as amended to rezone the subject lands to permit an extractive industrial use (i.e. pits 1.5 m above the established groundwater table) together with rezoning small portion of the East Pit agricultural and environmental lands;

NOW THEREFORE THE COUNCIL OF THE CORPORATION OF THE TOWNSHIP OF EAST GARAFRAXA ENACTS AS FOLLOWS:

1. That Schedule 'A' to By-law 60-2004, as amended, is further amended by rezoning the lands described as the East Half of Lot 1, Concession 18 and the West Half of Lot 2, Concession 17, identified on Schedule 'A' to this By-law as follows:

From Agricultural to the following zones:

Extractive Industrial Exception Three(H) (MX-3 (H)) Zone
Environmental Protection (EP) Zone;

And from Environmental Protection to the following zone:

Extractive Industrial Exception Three(H) (MX-3 (H)) Zone

2. Section 4.12.3 of Zoning By-law 60-2004 (Extractive Industrial Exceptions) is hereby amended by adding the following new sub-section as 4.12.3.3:

- a) Extractive Industrial Exception Three(H) (MX-3 (H))

Notwithstanding the provisions of the Extractive Industrial (MX) Zone to the contrary, on lands zoned Extractive Industrial Exception Three(H) (MX-3 (H)) the following shall apply:

Only the following uses shall be permitted:

- i) farm which shall be restricted to the cultivation of field crops together with any associated farm storage buildings;
- ii) East Pit with extraction permitted to a maximum depth of 1.5m above the established groundwater table;
- iii) West Pit with extraction permitted to a maximum depth of 1.5m above the established groundwater table;

- iv) notwithstanding section 4.12.1 of the Extractive Industrial (MX) Zone and section 5.110 definition of pit, a pit is defined for the purposes of this By-law as the extraction of aggregate 1.5 m above the established groundwater table; together with primary crushing/processing and stockpiling of extracted aggregate along with staged stripping and progressive rehabilitation, but not including the crushing, processing and stockpiling to occur subsequent to the conveyance of aggregate production from the East Pit to the abutting licenced Pit (Licence No. #10606) and the conveyance of aggregate production from the West Pit to the abutting licenced Pit (Licence No. #80956) for processing at the respective existing licenced processing;
 - v) the accessory use of the importation of sand and gravel, concrete and asphalt is prohibited;
 - vi) the accessory use of the existing farmhouse as a dwelling occupied by manager and/or staff and related persons employed by the extractive industrial operation is permitted;
 - vii) the importation of soil, topsoil and fill is not permitted unless specifically authorized in the Development Agreement;
 - viii) hours of operation as per the Development Agreement;
 - ix) Notwithstanding section 4.12.1 of the Extractive Industrial (MX) Zone and section 5.110 definition of pit, the following uses shall not be permitted: a pit (1) with extraction permitted 1.5 m below the established groundwater table, a wash plant, peat extraction, recycling, portable and/or permanent asphalt/concrete production and/or batching plant, quarries, resource management activities save and except as set out in sections ii, iii), iv), v), and vi) above;
 - x) Notwithstanding section 5.48 definition of farm, the only permitted farm use is as set out in 2 a) i) for the time period that the pit remains licenced; and subsequently all farm uses are permitted.
- b) Notwithstanding section 4.12.2 of the Extractive Industrial (MX) Zone, the following regulations shall apply to the permitted uses:
- i) Minimum Lot Area 8 ha
 - ii) Minimum Lot Frontage 200 m
 - iii) Minimum Front Yard 30 m
 - iv) All Other Interior Side Yards 15 m

Notwithstanding this regulation b) v), should there be an abutting licenced aggregate operation and should a Common Boundary Agreement be entered into as per the Development Agreement the applicable interior side yard shall be reduced to 0 m for extraction only (and for any other uses including the erection of buildings and/or structures shall remain at 15 m)

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|----|-------------------|------|
| v) | Minimum Rear Yard | 15 m |
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Notwithstanding this regulation b) vi), the rear yard regulation is further reduced as follows:

i) for the lands zoned for extractive industrial use under this By-law for the lands between the East and West Half of Lot 1, Concession 18 and between the East and West Half of Lot 2, Concession 17 the yard setback is reduced to 0 m for extraction only (and for any other uses including the erection of buildings and/or structures shall remain at 15 m) and ii) should there be an abutting licenced aggregate operation and should a Common Boundary Agreement be entered into as per the Development Agreement the applicable rear yard shall be reduced to 0 m for extraction only (and for any other uses including the erection of buildings and/or structures shall remain at 15 m)

- | | | |
|-------|---|-------|
| vi) | Maximum Lot Coverage | 1 % |
| vii) | Minimum Setback of Extraction to a Rural Residential Lot | 30 m |
| viii) | Maximum Area that can be Disturbed by Extraction including the establishment of berms, planting strips, internal haul roads, at any one time, in the East Pit | 20 ha |
| | and | |
| | Maximum Area that can be Disturbed by Extraction including the establishment of berms, planting strips, internal haul roads, at any one time, in the West Pit | 20 ha |
| ix) | Maximum Lot Coverage for Buildings and Structures Related to the Operation of the Pit | 1 % |
| x) | Minimum Landscaped Open Space | 10% |
| xi) | Maximum Height of Buildings | 12 m |

- | | | |
|------|--|--|
| xii) | In the yards abutting the 16 th Line, the 18 th Line and the Erin-East Garafraxa Townline a planting strip of at least 30 m or grassed berming shall be required to be established and maintained to the satisfaction of the | |
|------|--|--|

Township. Notwithstanding this regulation and section 5.113 definition of the planting strip, the planting strip of at least 30 m along the frontage of the 16th Line, the 18th Line and the Erin-East Garafraxa Townline may be cultivated for common field crops or grassed or otherwise planted without achieving a minimum height of 1.5 metres, which plantings are to be established and maintained to the satisfaction of the Township as per the Development Agreement.

3. Notwithstanding anything else to the contrary in Zoning By-law No. 60-2004 as amended, the following Holding Provision applies to the Extractive Industrial Exception Three (H) (MX-3 (H)) Zone in this By-law:

HOLDING PROVISION

- i) A Holding (H) Provision is hereby established and identified on Schedule 'A' attached hereto, by the letter "H" in parentheses following a zoning symbol established in this By-law.
 - ii) Where a zoning symbol is followed by the letter "H" in parentheses, the provisions of the By-law applicable to the zone symbol shall only apply upon the removal of the letter "H" by an Amendment By-law as approved by Council in accordance with the provisions of Section 36 of the Planning Act.
 - iii) Until the removal of the letter "H":
 - a) No land, building or structure shall be used for any purpose other than that for which it was lawfully used prior to the passing of this By-law with the exception of a use by a public authority or existing agricultural use or for use of the lands for site preparation (excluding aggregate extraction and production) once the specific items listed in section iv) (a), (b) and (c) have been satisfied;
 - iv) The (H) Holding Provision shall only be lifted for all other uses when the Township of East Garafraxa is satisfied that the following items have been addressed:
 - a) A development agreement(s) between the Owner, the Township of East Garafraxa and the County of Dufferin has been executed and registered on title in accordance with the terms of the development agreement(s);
 - b) The Owner's developer account is in good standing;
 - c) The Ministry of Natural Resources and Forestry has confirmed that the Category 3 – Class A Pits Above Water Licence being issued shall include the agreed to Site Plan with applicable notes and conditions; and,
 - d) That the haul route improvements have been designed, approved and secured, all to the satisfaction of the Township of East Garafraxa and the County of Dufferin in accordance with the terms of a development agreement(s).
4. For the lands zoned Environmental Protection (EP), the provisions of section 4.15 shall apply.

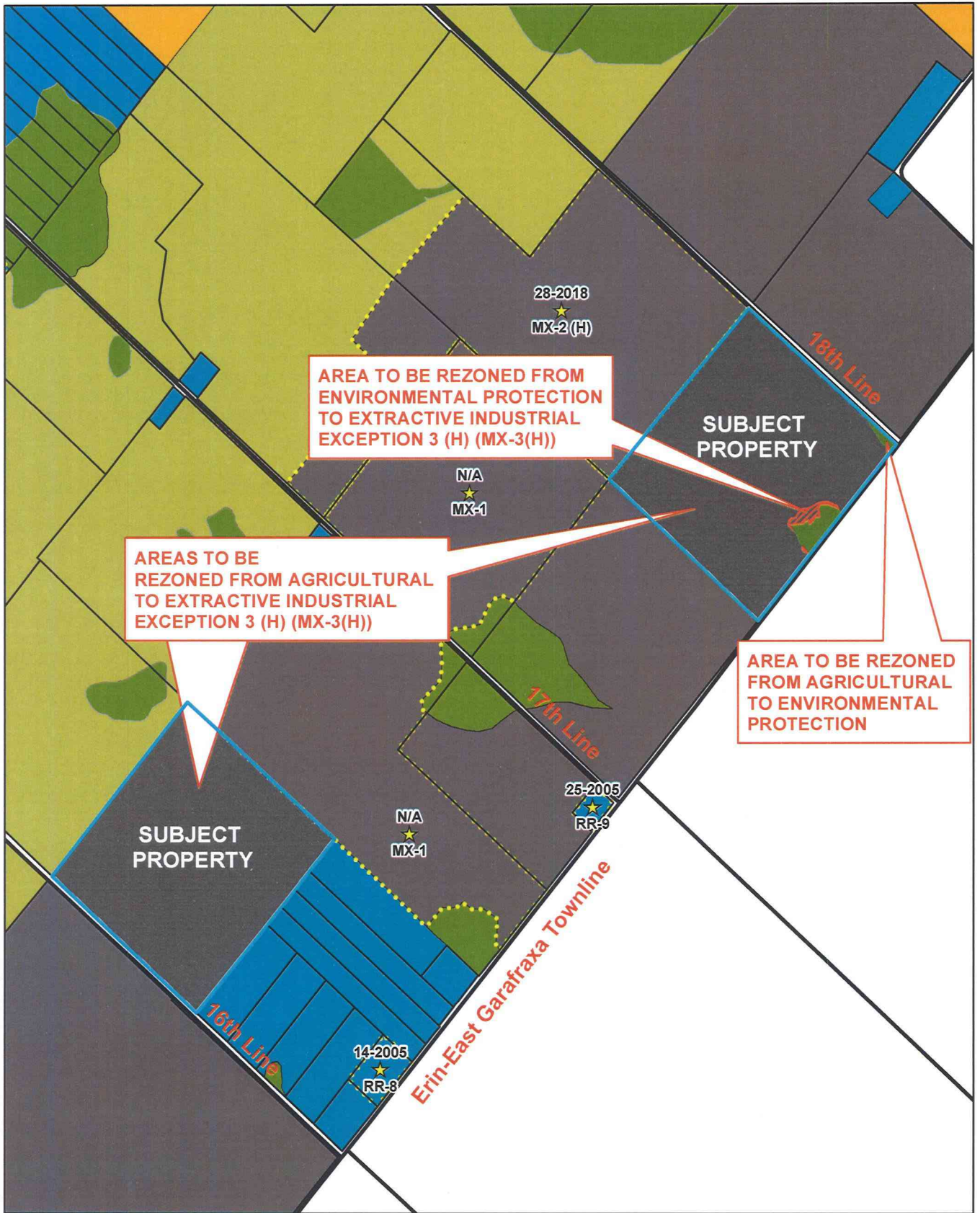
5. Notwithstanding any other provisions of this by-law, to the contrary, public uses in accordance with section 3.18 of Zoning By-law No. 60-2004 shall be permitted in all zones under this By-law.
6. In all other respects, the provisions of Zoning By-law 60-2004, as amended shall apply.
7. Upon approval of Official Plan Amendment No. 6 by the County of Dufferin, this by-law shall take effect from date of passing thereof, providing no appeal has been filed. Where objections to the by-law are received in accordance with provisions of the Planning Act, the by-law shall come into effect upon approval of the Local Planning Appeal Tribunal.

BY-LAW READ A FIRST AND SECOND TIME THIS OF , 2019

BY-LAW READ A THIRD TIME AND PASSED THIS OF , 2019

Susan M. Stone, CAO/Clerk

Guy Gardhouse, Mayor



SCHEDULE A - LAND USE TOWNSHIP OF EAST GARAFRAXA ZONING BY-LAW



**SCHEDULE 'A' TO ZONING BY-LAW - 2019
BEING A BY-LAW TO AMEND ZONING BY-LAW 60-2004**

Local Planning Appeal Tribunal
Tribunal d'appel de l'aménagement
local



ISSUE DATE: January 2, 2020

CASE NO.: PL151041 &
PL151043

The Ontario Municipal Board (the "OMB") is continued under the name Local Planning Appeal Tribunal (the "Tribunal"), and any reference to the Ontario Municipal Board or Board in any publication of the Tribunal is deemed to be a reference to the Tribunal.

PROCEEDING COMMENCED UNDER subsection 22(7) of the *Planning Act*, R.S.O. 1990, c. P.13, as amended

Applicant and Appellant:	Greenwood Construction Company Limited
Subject:	Request to amend the Official Plan - Failure of the Township of East Garafraxa to adopt the requested amendment
Existing Designation:	Agricultural
Proposed Designated:	Extractive Industrial
Purpose:	To permit the expansion of two existing aggregate operations
Property Address/Description:	Concession 17 West 1/2 Lot 2 (West Pit)
Municipality:	Township of East Garafraxa
Approval Authority File No.:	OPA2/12
OMB Case No.:	PL151041
OMB File No.:	PL151041
OMB Case Name:	Greenwood Construction Company Limited v. East Garafraxa (Township)

PROCEEDING COMMENCED UNDER subsection 34(11) of the *Planning Act*, R.S.O. 1990, c. P.13, as amended

Applicant and Appellant:	Greenwood Construction Company Limited
Subject:	Application to amend Zoning By-law No. 69- 2004 - Refusal or neglect of the Township of East Garafraxa to make a decision
Existing Zoning:	Agricultural (A) Zone
Proposed Zoning:	Extractive Industrial (MX) Zone
Purpose:	To permit the expansion of two existing

Property Address/Description:	aggregate operations
Municipality:	Concession 17 West 1/2 Lot 2 (West Pit)
Municipality File No.:	Township of East Garafraxa
OMB Case No.:	Z2/12
OMB File No.:	PL151041
	PL151042

PROCEEDING COMMENCED UNDER subsection 11(5) of the *Aggregate Resources Act*, R.S.O. 1990, c. A.8, as amended

Referred by:	Greenwood Construction Company Limited
Objector:	Township of East Garafraxa
Applicant:	Greenwood Construction Company Limited
Subject:	Application for a Class A licence for the removal of aggregate
Property Address/Description :	West 1/2 Lot 2, Concession 17
Municipality:	Township of East Garafraxa
OMB Case No.:	PL151041
OMB File No.:	MM160077

PROCEEDING COMMENCED UNDER subsection 22(7) of the *Planning Act*, R.S.O. 1990, c. P.13, as amended

Applicant and Appellant:	Greenwood Construction Company Limited
Subject:	Request to amend the Official Plan - Failure of the Township of East Garafraxa to adopt the requested amendment
Existing Designation:	Agricultural
Proposed Designated:	Extractive Industrial
Purpose:	To permit the expansion of two existing aggregate operations
Property Address/Description:	Concession 18 East 1/2 Lot 1 (East Pit)
Municipality:	Township of East Garafraxa
Approval Authority File No.:	OPA3/12
OMB Case No.:	PL151043
OMB File No.:	PL151043
OMB Case Name:	Greenwood Construction Company Limited v. East Garafraxa (Township)

PROCEEDING COMMENCED UNDER subsection 34(11) of the *Planning Act*, R.S.O. 1990, c. P.13, as amended

Applicant and Appellant:	Greenwood Construction Company Limited
Subject:	Application to amend Zoning By-law No. 69-2004

Existing Zoning:	- Refusal or neglect of the Township of East Garafraxa to make a decision
Proposed Zoning:	Agricultural (A) Zone
Purpose:	Extractive Industrial (MX) Zone
	To permit the expansion of two existing aggregate operations
Property Address/Description:	Concession 18 East 1/2 Lot 1 (East Pit)
Municipality:	Township of East Garafraxa
Municipality File No.:	Z3/12
OMB Case No.:	PL151043
OMB File No.:	PL151044

PROCEEDING COMMENCED UNDER subsection 11(5) of the *Aggregate Resources Act*, R.S.O. 1990, c. A.8, as amended

Referred by:	Greenwood Construction Company Limited
Objector:	Township of East Garafraxa
Applicant:	Greenwood Construction Company Limited
Subject:	Application for a Class A licence for the removal of aggregate
Property Address/Description :	East 1/2 Lot 1, Concession 18
Municipality:	Township of East Garafraxa
OMB Case No.:	PL151043
OMB File No.:	MM160076

PROCEEDING COMMENCED UNDER subsection 11(5) of the *Aggregate Resources Act*, R.S.O. 1990, c. A.8, as amended

Referred by:	Greenwood Construction Company Limited
Objector:	Township of East Garafraxa
Applicant:	Greenwood Construction Company Limited
Subject:	Application for a Class A licence for the removal of aggregate
Property Address/Description :	West 1/2 Lot 2, Concession 17
Municipality:	Township of East Garafraxa
OMB Case No.:	PL151041
OMB File No.:	MM160077

BEFORE:

GERALD S. SWINKIN)	Thursday, the 2 nd
MEMBER)	
)	day of January, 2020

THESE APPEALS having come on for a Public Hearing on January 14, 2019;

AFTER THE HEARING, the Tribunal in its Decision/Partial Order issued February 8, 2019 granted the appeals in part and approved the Site Specific Official Plan Amendment No.6 to the Official Plan of the Township of East Garafraxa and approved the Township of East Garafraxa site specific zoning by-law;

AND THE TRIBUNAL in its Decision/Partial Order directed the parties to file the final site plans for the respective proposed aggregate operations;

AND WHEREAS the Parties have agreed to the site plans for the proposed aggregate operations for the properties, subject to the agreed revisions of the existing site plans for the two existing licences between the parties, and which revisions the Ministry of Natural Resources and Forestry has advised will be implemented;

AND UPON CONSENT of the Parties to the issuance of this Order;

AND UPON the jurisdiction of this Tribunal as set out in section 11(8)(1) of the *Aggregate Resources Act*, as amended:

THE TRIBUNAL FURTHER ORDERS and directs the Minister of Natural Resources and Forestry to issue the Class A aggregate licence to Greenwood Construction Company Limited for the lands legally described as the West 1/2 Lot 2, Concession 17 subject to the prescribed conditions and in accordance with the

site plan (4 pages) dated October 6, 2019 as prepared by Rollins Hyland Consulting and as attached as Schedule “A” to this Order (and with Note 12 of page 2 of the site plan to include reference to the new licence numbers as assigned), and further as the foregoing licence is for an expansion, the foregoing licence shall only be released to Greenwood Construction Limited upon the Minister of Natural Resources and Forestry amending existing licence nos. 10606 and 80956, including revision to the site plan(s) to those existing licences, in the content and form as agreed to by the municipalities and as submitted to the Ministry of Natural Resources and Forestry;

THE TRIBUNAL FURTHER ORDERS and directs the Minister of Natural Resources and Forestry to issue the Class A aggregate licence to Greenwood Construction Company Limited for the lands legally described as the East 1/2 Lot 1, Concession 18 subject to the prescribed conditions and in accordance with the site plan (4 pages) dated October 6, 2019 as prepared by Rollins Hyland Consulting and as attached as Schedule “B” to this Order (and with Note 12 of page 2 of the site plan to include reference to the new licence numbers as assigned), and further as the foregoing licence is for an expansion, the foregoing licence shall only be released to Greenwood Construction Limited upon the Minister of Natural Resources and Forestry amending existing licence nos. 10606 and 80956, including revision to the site plan(s) to those existing licences, in the content and form as agreed to by the municipalities and as submitted to the Ministry of Natural Resources and Forestry;

THE TRIBUNAL FURTHER ORDERS that the Appellant/Applicant to provide a copy of this Order to the Ministry of Natural Resources and Forestry;

THE TRIBUNAL FURTHER ORDERS and authorizes as a housekeeping matter that the Township Clerk may assign a by-law number to the Zoning By-law approved by the Tribunal in its prior partial order;

AND THE TRIBUNAL FURTHER ORDERS that it may be spoken to in the event any matter or matters should arise in the connection with the implementation of this Order.

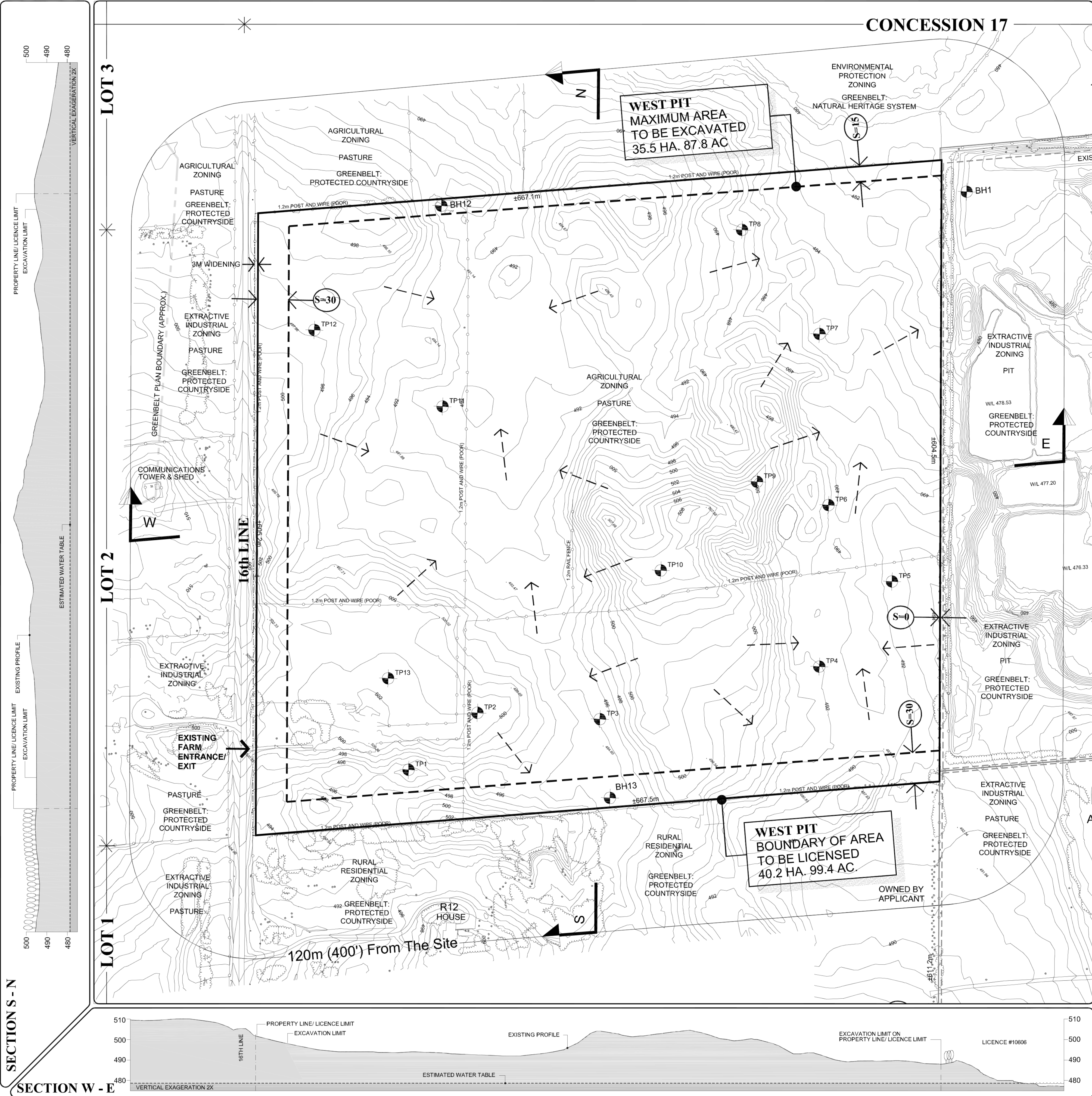
“Evelyn Dawes”

EVELYN DAWES
DEPUTY REGISTRAR

If there is an attachment referred to in this document,
please visit www.elto.gov.on.ca to view the attachment in PDF format.

Local Planning Appeal Tribunal

A constituent tribunal of Tribunals Ontario – Environment and Land Division
Website: www.elto.gov.on.ca Telephone: 416-212-6349 Toll Free: 1-866-448-2248



LEGEND

- BOUNDARY OF AREA TO BE LICENSED
- AREA TO BE EXCAVATED
- SETBACKS, METRES
- EXISTING CONTOURS
- EXISTING SPOT ELEVATIONS
- EXISTING TREE COVER
- EXISTING FENCES
- TYPICAL SECTION LOCATIONS
- SEPTEMBER 2004 TEST PIT LOCATION & NUMBER
- MONITORING WELL / BOREHOLE LOCATION & NUMBER
- SURFACE DRAINAGE DIRECTION
- ROAD WIDENING

NOTES

- TOPOGRAPHIC BASE MAPPING DERIVED FROM 2006 AIRPHOTO AS PREPARED BY FIRST BASE SOLUTIONS INC. MAPPING SUPPLEMENTED WITH ADDITIONAL INFORMATION FROM LOCAL PLANNING DOCUMENTS. CONTOUR INTERVAL IS 1 METRE.
- THE GROUNDWATER TABLE IS ESTABLISHED AT ELEVATION 478.7.
- NO STOCKPILES OF TOPSOIL/OVERBURDEN, OR AGGREGATE INCLUDING RECYCLABLE MATERIALS, NO SCRAP AND NO FUEL STORAGE AREA EXIST ONSITE.

REFERENCES

- "STAGE I-II ARCHAEOLOGICAL/HERITAGE ASSESSMENT OF THE PROPOSED GREENWOOD CONSTRUCTION WEST PIT" BY YORK NORTH ARCHAEOLOGICAL SERVICES INC., DECEMBER 2008
- ARCHAEOLOGICAL CLEARANCE LETTER, ONTARIO MINISTRY OF TOURISM AND CULTURE, MARCH 2010
- "AN ASSESSMENT OF THE POTENTIAL NOISE ASSOCIATED WITH AGGREGATE EXTRACTION AND PROCESSING AT THE PROPOSED EAST AND WEST PITS" BY AERCOUSTICS ENGINEERING LTD., MARCH, 2012 AND UPDATE 08 JULY 2014.
- LEVEL I HYDROGEOLOGICAL INVESTIGATION - GREENWOOD CONSTRUCTION WEST PIT" BY MTE CONSULTANTS INC., APRIL, 2010
- "NATURAL ENVIRONMENT LEVELS 1 AND 2 REPORT AND ENVIRONMENTAL IMPACT STATEMENT" BY ROBIN E. CRAIG, B.Sc., M.Sc., MARCH 2011. AMENDMENT AND BOBLINK REPORT, JULY 22 and NOVEMBER 18, 2014.
- DUST ASSESSMENT BY RWDI CONSULTING ENGINEERS AND SCIENTISTS, 28 MAY 2014 AND CORRESPONDENCE 05 SEPTEMBER 2014.
- TOWNSHIP OF EAST GARAFRAXA ZONING BY-LAW 60-2004.
- "AGGREGATE RESOURCES INVENTORY PAPER 163 REVISED" BY THE ONTARIO GEOLOGICAL SURVEY, 2009
- "VISUAL IMPACT ASSESSMENT" BY ECOVUE CONSULTING SERVICES INC., JULY 2012
- "SOIL TEST REPORT" BY GREENWOOD CONSTRUCTION COMPANY LIMITED, MAY 2007
- THREE METRE ROAD WIDENING FROM PLAN OF SURVEY BY VAN HARTEN SURVEYING INC. JANUARY 21, 2019.

R.R. 2 Orangeville, Ontario L9W 2Y9

WEST PIT

W 1/2 LOT 2, CONCESSION 17
TOWNSHIP OF EAST GARAFRAXA
DUFFERIN COUNTY

Page 1 of 4

EXISTING FEATURES

1: 100,000

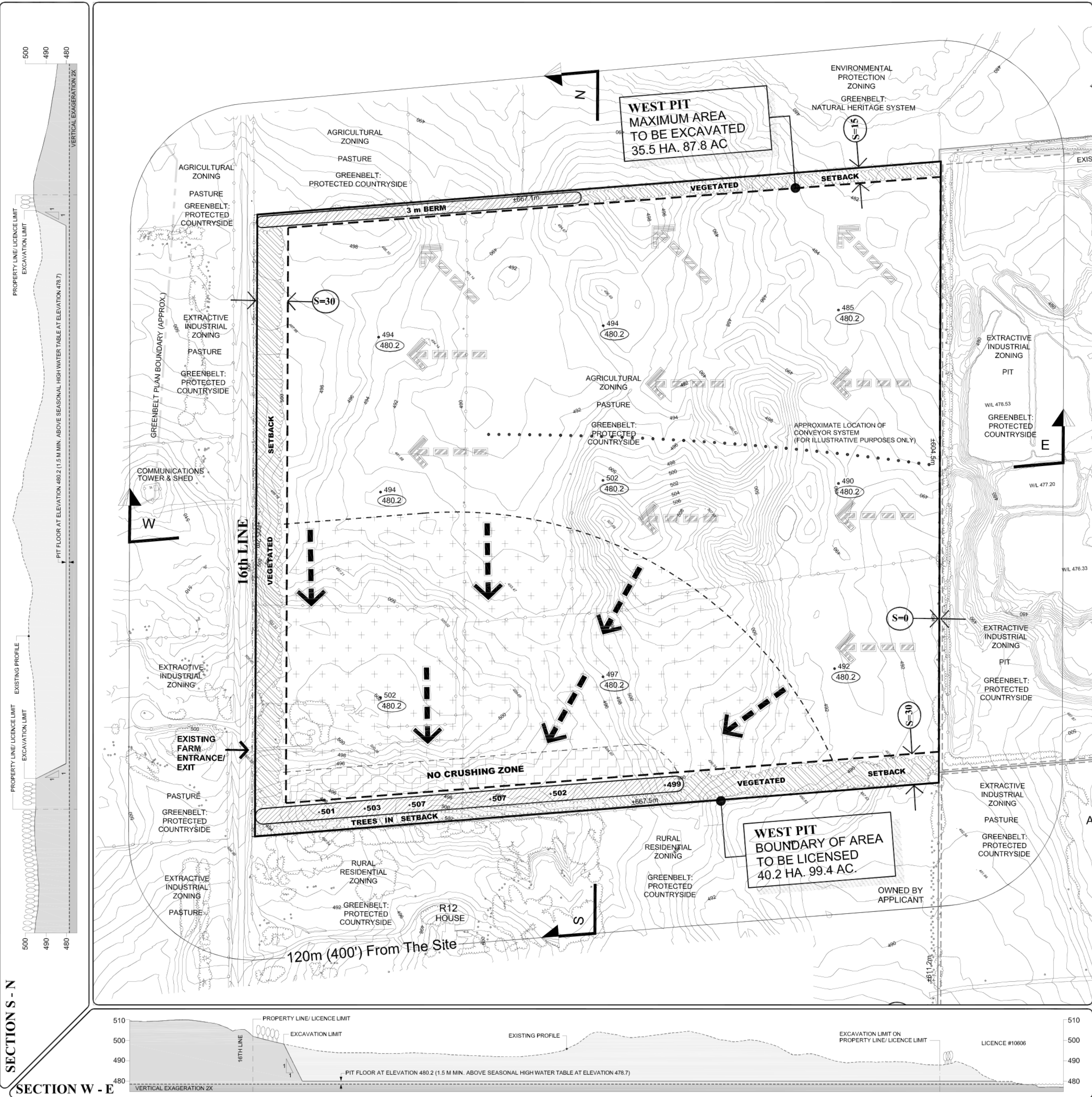
KEY MAP

DRAWN: J.A.R.	I ACKNOWLEDGE AND SHALL CARRY ON MY OPERATION IN ACCORDANCE WITH THE SITE PLAN UPON WHICH MY LICENCE IS BASED.	THIS SITE PLAN IS PREPARED UNDER THE AGGREGATE RESOURCES ACT FOR A CLASS A LICENCE, CATEGORY 3
APPROVED: S.G.	GREENWOOD CONSTRUCTION COMPANY LIMITED	
FILE: E Gara Updates / East West Pits October 2019.dwg	PER: DATE:	
PLOTTED: OCT. 06 2019	SITE PLANS APPROVED BY:	JEFFREY A. ROLLINGS
AMENDMENT NO. 0	MINISTRY OF NATURAL RESOURCES & FORESTRY	DATE:

No.	DATE	DESCRIPTION	APP'D
AMENDMENTS			

ROLLINGS HYLAND CONSULTING
Orangeville, Ontario info@rollingshyland.com 519.942.1961

CERTIFIED TO PREPARE SITE PLANS UNDER SECTION 8(4) OF THE AGGREGATE RESOURCES ACT



LEGEND

- BOUNDARY OF AREA TO BE LICENSED
- AREA TO BE EXCAVATED
- SETBACKS, METRES
- EXISTING CONTOURS
- EXISTING SPOT ELEVATIONS
- EXISTING TREE COVER
- EXISTING FENCES
- TYPICAL SECTION LOCATIONS
- DIRECTION OF EXCAVATION, GENERAL
- DIRECTION OF EXCAVATION, SPECIFIC
- NOISE CONTROL ENVELOPE
- PROPOSED SCREENING BERM MIN. HEIGHT (m) ABOVE GRADE
- PROPOSED SCREENING BERM WHERE MIN. TOP ELEVATION (masl) REQUIRED
- EXISTING ELEVATION
- PROPOSED ELEVATION

NOTES

- AS EACH STAGE OF EXCAVATION IS OPENED, TOPSOIL & SUBSOIL ARE TO BE STRIPPED & STOCKPILED IN SEPARATE SCREENING &/OR STORAGE BERMS ON SETBACK OR ALONG EXCAVATION BOUNDARY AND PRESERVED FOR USE DURING REHABILITATION. BERMS ON SETBACKS ALONG EXTERNAL ROADWAYS WILL BE CONSTRUCTED AS FAR FROM ROADWAYS AS POSSIBLE.
- PROGRESSIVELY GRADE PIT SLOPES, TOPSOIL & SEED AS EXCAVATION OF EACH STAGE IS COMPLETED. WHERE POSSIBLE, TOPSOIL FOR REHABILITATING EACH STAGE SHOULD BE STRIPPED FROM SUCCEEDING STAGE AS PER THE AGRICULTURAL REHABILITATION SEQUENCE SCHEMATIC SHOWN ON PAGE 4.
- INTERIM & FINAL SEEDING WILL BE IN A LEGUME-GRASS MIXTURE WITH MULCH IN ACCORDANCE WITH ONTARIO STANDARD SPECIFICATION OPSS 804 OR EQUAL.
- THE OPERATION SEQUENCE MAY VARY DUE TO QUALITY OF MATERIAL, SITE HYDROLOGY/HYDROGEOLOGY OR MARKET DEMAND.
- EXCAVATION WILL PROCEED IN LIFTS OF 10 M (33 FT.) OR LESS, WITH BENCHING IF REQUIRED.
- FINAL SITE DRAINAGE WILL BE BY INFILTRATION, IN SURFACE WATER RECHARGE AREAS. REFER TO PAGE 3, PROGRESSIVE AND FINAL REHABILITATION PLAN. THERE WILL BE NO WATER DIVERSION OR POINTS OF DISCHARGE FROM THE SITE.
- FENCE WILL BE 1.2m HT., HEAVY DUTY POST & WIRE FARM TYPE, TOGETHER WITH LOCKING HEAVY DUTY FARM TYPE GATES AT ALL ENTRANCES. INSTALLATION TO OCCUR PRIOR TO ANY SITE DISTURBANCE. FENCE WILL BE ERECTED ON THE BOUNDARY OF THE LICENSED AREA. NO FENCES ARE REQUIRED ALONG BOUNDARIES ADJACENT TO LICENSED PITS.
- NO SCRAP WILL BE STORED WITHIN THE SITE EXCEPT ON A TEMPORARY BASIS. TREES AND STUMPS SHALL BE UTILIZED AS FOLLOWS: MARKETABLE WOOD SHALL BE SALVAGED FOR SALE, STUMPS AND BRUSH SHALL BE USED FOR SHORELINE REHABILITATION ENHANCEMENT ON THE ADJACENT, EXISTING LICENSED PIT PONDS.
- SCREENING & STORAGE BERMS ARE TO BE COVERED WITH 50 MM (2") MINIMUM TOPSOIL, GRADED TO SLOPES OF 3:1 OR FLATTER, SEEDED AND MAINTAINED. BERMS MAY BE LOCATED ON SETBACKS AND WITHIN EXCAVATION AREA. MAINTAIN VEGETATION ON BERMS, SETBACKS & SLOPES ON A REGULAR BASIS. REMOVE AND REPLACE ANY AREAS WHICH BECOME DAMAGED OR DISEASED, BY NEXT GROWING SEASON.
- EQUIPMENT OPERATING IN THE PIT MAY INCLUDE, BUT IS NOT LIMITED TO, BULLDOZERS, LOADERS, TRUCKS, CRUSHERS, SCREENERS, CONVEYORS & POWER PLANTS, ETC. THE EXISTING SCALE & SCALE HOUSE FOR THE EXISTING LICENSED PIT WILL BE UTILIZED. NO BUILDINGS OR STRUCTURES WILL BE ERECTED ON THE SITE.
- AGGREGATE STOCKPILES (MAX. HEIGHT 10 METRES) WILL PRIMARILY BE LOCATED IN THE PROCESSING AREA ON THE ADJACENT LICENSED SITE, HOWEVER TEMPORARY STOCKPILES MAY BE LOCATED WITHIN THE EXCAVATION AREA AS REQUIRED.
- NO MORE THAN 2,000,000 TONNES OF AGGREGATE SHALL BE CUMULATIVELY REMOVED FROM LICENCE #10606, LICENCE #80956, LICENCE # WEST PIT, AND LICENCE # EAST PIT IN ANY CALENDAR YEAR.
- THE MAXIMUM DEPTH OF EXTRACTION WILL BE 1.5M ABOVE THE GROUNDWATER TABLE. GROUNDWATER ELEVATIONS ARE TO BE CHECKED PRIOR TO REACHING THE PROPOSED PIT FLOOR LEVEL. THE HIGHEST GROUNDWATER ELEVATION RECORDED WAS IN SPRING 2009 (MTE, 2010). IF FOR ANY REASON IN THE FUTURE THE GROUNDWATER ELEVATION RISES, THE OPERATOR WILL ENSURE THE PIT FLOOR REMAINS AT LEAST 1.5M ABOVE THE GROUNDWATER TABLE.
- THE MAXIMUM DISTURBED AREA SHALL BE 20.0 HA. (49.4 AC.)

FOR ADDITIONAL GENERAL OPERATIONAL NOTES, HYDROGEOLOGY NOTES, NATURAL ENVIRONMENT MITIGATION NOTES, SPILL CONTINGENCY PLAN AND VARIATIONS FROM THE OPERATIONAL STANDARDS, SEE PAGE 4.

Greenwood Construction

R.R. 2 Orangeville, Ontario L9W 2Y9

WEST PIT

W 1/2 LOT 2, CONCESSION 17
TOWNSHIP OF EAST GARAFRAXA
DUFFERIN COUNTY

Page 2 of 4

OPERATIONS

NOISE CONTROL MEASURES

- THE EXTRACTION AND PROCESSING EQUIPMENT OPERATING IN THE WEST PIT SHALL BE LIMITED TO ONE LOADER AND ONE PRIMARY CRUSHING PLANT. THE REFERENCE SOUND LEVELS OF THE EQUIPMENT SHALL NOT EXCEED THE LEVELS SPECIFIED IN THE TABLE BELOW. THE CRUSHER SHALL BE MAINTAINED IN THE QUIET ORIENTATION WITH RESPECT TO RECEPTOR R12. THE CRUSHER IS CONSIDERED TO BE IN A QUIET ORIENTATION WHEN THE RECEPTOR HAS NO DIRECT EXPOSURE TO THE SIDE OF THE CRUSHER CONTAINING THE ENGINE COOLING FAN.
- OPERATIONS IN THE PIT SHALL BE RESTRICTED TO WEEKDAY DAYTIME HOURS (07:00-19:00). THERE WILL BE NO OPERATIONS ON WEEKENDS OR HOLIDAYS.
- PERIMETER BERMING SHALL BE CONSTRUCTED AS INDICATED ON THIS DRAWING. THE MINIMUM BERM HEIGHTS OR THE MINIMUM TOP-OF-BERM ELEVATIONS ARE SPECIFIED. THE BERMS SHALL BE CONSTRUCTED PRIOR TO EXTRACTION WITHIN 400 M OF THE WEST PERIMETER OF THE SITE (16TH LINE).
- THE 1ST AND SUBSEQUENT LIFTS SHALL BE OF A MINIMUM DEPTH OF 7 METRES WHERE THE DEPTH OF THE RESOURCE MAKES THIS POSSIBLE. WHERE THERE IS NOT SUFFICIENT DEPOSIT TO MEET THE MINIMUM 7 M FACE HEIGHT REQUIREMENT, THE LIFTS SHALL BE EXTRACTION IN CLOSE SUCCESSION SUCH THAT THE TOTAL (COMBINED) FACE HEIGHT IS AT LEAST 7 METRES.
- IN THE AREAS WHERE THE DIRECTION OF EXTRACTION IS SPECIFIED, THE CRUSHER SHALL REMAIN WITHIN 30 METRES OF THE WORKING FACE IN ORDER TO ENSURE THAT THE WORKING FACE WILL PROVIDE ACOUSTICAL SHIELDING OF THE EQUIPMENT FOR RECEPTOR R12.
- THE CRUSHER IS PROHIBITED FROM OPERATING IN THE AREA INDICATED.
- THE SOUND EMISSIONS OF ALL CONSTRUCTION EQUIPMENT INVOLVED IN SITE PREPARATION AND REHABILITATION ACTIVITIES SHALL COMPLY WITH THE SOUND LEVEL LIMITS SPECIFIED IN MOE PUBLICATION NPC-115 "CONSTRUCTION EQUIPMENT".
- ANY PROPOSED CHANGES TO THE ASPECTS OF THE EXTRACTION AND PROCESSING OPERATIONS DEALT WITH ABOVE AS RELATING TO NOISE CONTROL SHALL BE REVIEWED BY A QUALIFIED ACOUSTICAL CONSULTANT FOR COMPLIANCE WITH THE RELEVANT NOISE CRITERIA.
- THE LICENSEE WILL INSTITUTE A COMPLAINT PROCEDURE. AS PART OF THIS PROCEDURE, COMPLAINANTS WILL BE REQUESTED TO IDENTIFY THE LOCATION OF THE INCIDENT, AS WELL AS THE TIME OF DAY THAT THE INCIDENT OCCURRED AND ANY OTHER INFORMATION THAT THEY FEEL IS RELEVANT. THE LICENSEE WILL KEEP A COMPLAINTS LOG BOOK CONTAINING A RECORD OF ALL COMPLAINTS AS WELL AS ALL COMPLAINT RESPONSES, WHICH LOG BOOK SHALL BE ACCESSIBLE TO THE MNRF AND TOWNSHIP ON REQUEST.

EQUIPMENT	SOUND LEVEL LIMIT (dBA) ONE HOUR LEQ @ 20 METRES
LOADER	76
PRIMARY CRUSHER (PORTABLE) - LOUD ORIENTATION	83
PRIMARY CRUSHER (PORTABLE) - QUIET ORIENTATION	81

DRAWN: J.A.R.	I ACKNOWLEDGE AND SHALL CARRY ON MY OPERATION IN ACCORDANCE WITH THE SITE PLAN UPON WHICH MY LICENCE IS BASED.	THIS SITE PLAN IS PREPARED UNDER THE AGGREGATE RESOURCES ACT FOR A CLASS A LICENCE, CATEGORY 3
APPROVED: S.G.	GREENWOOD CONSTRUCTION COMPANY LIMITED	
FILE: E Gara Updates / East West Pit October 2019.dwg	PER: DATE:	
PLOTTED: OCT. 06 2019	SITE PLANS APPROVED BY:	
AMENDMENT NO. 0	MINISTRY OF NATURAL RESOURCES & FORESTRY	JEFFREY A. ROLLINGS
	DATE:	DATE:

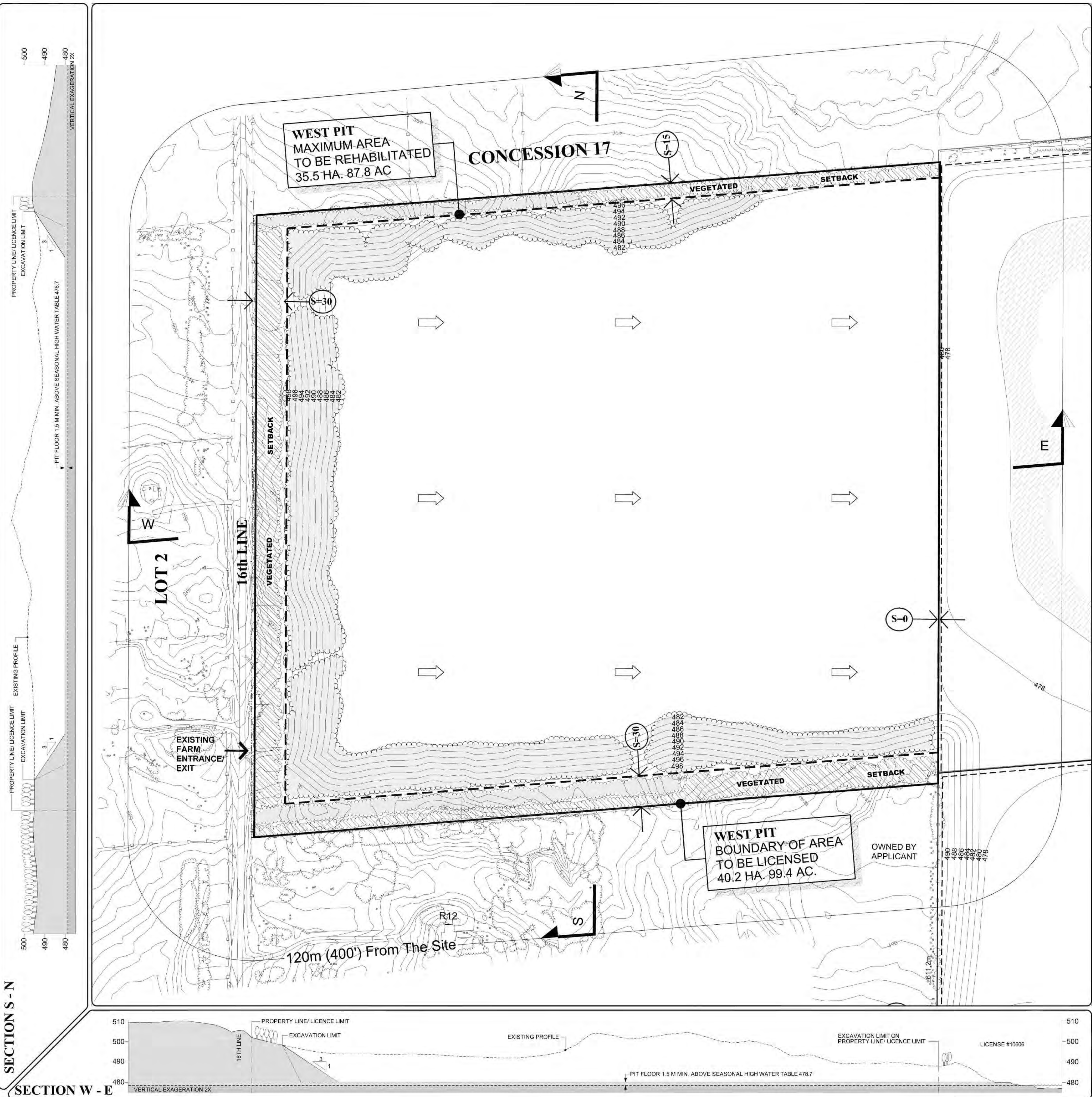
No.	DATE	DESCRIPTION	APP'D
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ORIGINAL SCALE 1:2,000 @ 22x34

ROLLINGS HYLAND CONSULTING

Orangeville, Ontario info@rollingshyland.com 519.942.1961

CERTIFIED TO PREPARE SITE PLANS UNDER SECTION 8(4) OF THE AGGREGATE RESOURCES ACT



LEGEND

- BOUNDARY OF AREA TO BE LICENSED
- AREA TO BE EXCAVATED
- SETBACKS, METRES
- EXISTING TREE COVER
- EXISTING FENCES
- TYPICAL SECTION LOCATIONS
- REHABILITATION CONTOURS
- PROPOSED SURFACE DRAINAGE DIRECTION

- ### NOTES
- PROGRESSIVE REHABILITATION TO OCCUR WITHIN ONE FULL GROWING SEASON AFTER EXCAVATION OF EDGES.
 - PIT FLOOR TO BE GRADED TO PROPOSED REHABILITATION ELEVATIONS. TOPSOIL AND SUBSOIL ARE TO BE PROGRESSIVELY RECLAIMED FROM NEW STAGES AND/OR BERMS, IN SEQUENCE, AND PLACED ON PREPARED (GRADED AREAS). AVERAGE DEPTH OF TOPSOIL AVAILABLE FOR REHABILITATION IS APPROX. 30CM, (12")
 - REHABILITATION SOILS WILL HAVE COMPACTION AND FERTILITY TESTED, PRIOR TO SEEDING, TO CONFIRM SOIL RESTORATION AND REVEGETATION REQUIREMENTS. THE TOWNSHIP OF EAST GARAFRAXA WILL BE COPIED WITH THESE TEST RESULTS ON AN ANNUAL BASIS.
 - ALL FIELD AREAS TO BE REHABILITATED IN ACCORDANCE WITH MINISTRY OF NATURAL RESOURCES AND FORESTRY GUIDELINES FOR REHABILITATION TO AN AGRICULTURAL AFTER USE. SEE AGRICULTURAL REHABILITATION SEQUENCE ON PAGE 4.
 - COMPLETE EDGE REHABILITATION BY FILLING SLOPES WITH OVERBURDEN RECLAIMED FROM STORAGE BERMS, OR WHERE POSSIBLE, WITH MATERIAL STRIPPED FROM CURRENT STAGES.
 - AFTER USE OF THE PROPOSED LICENSE AREA IS AGRICULTURAL AND OPEN SPACE CONSERVATION
 - ULTIMATE CONTOURS MAY VARY AS A RESULT OF ACTUAL SITE CONDITIONS, UNSUITABLE GRANULAR MATERIAL AND GROUNDWATER LEVELS.
 - SIDE SLOPES TO BE PERMITTED TO RE-VEGETATE WITH WOODY SPECIES.
 - SURFACE DRAINAGE WILL BE BY INFILTRATION INTO THE GROUND.
 - THE AGRICULTURAL REHABILITATION PROGRAM WILL BE COORDINATED WITH THE ADJUTING LICENSED PROPERTY TO ENSURE A UNIFORM SURFACE THAT CAN BE CULTIVATED.

Greenwood Construction

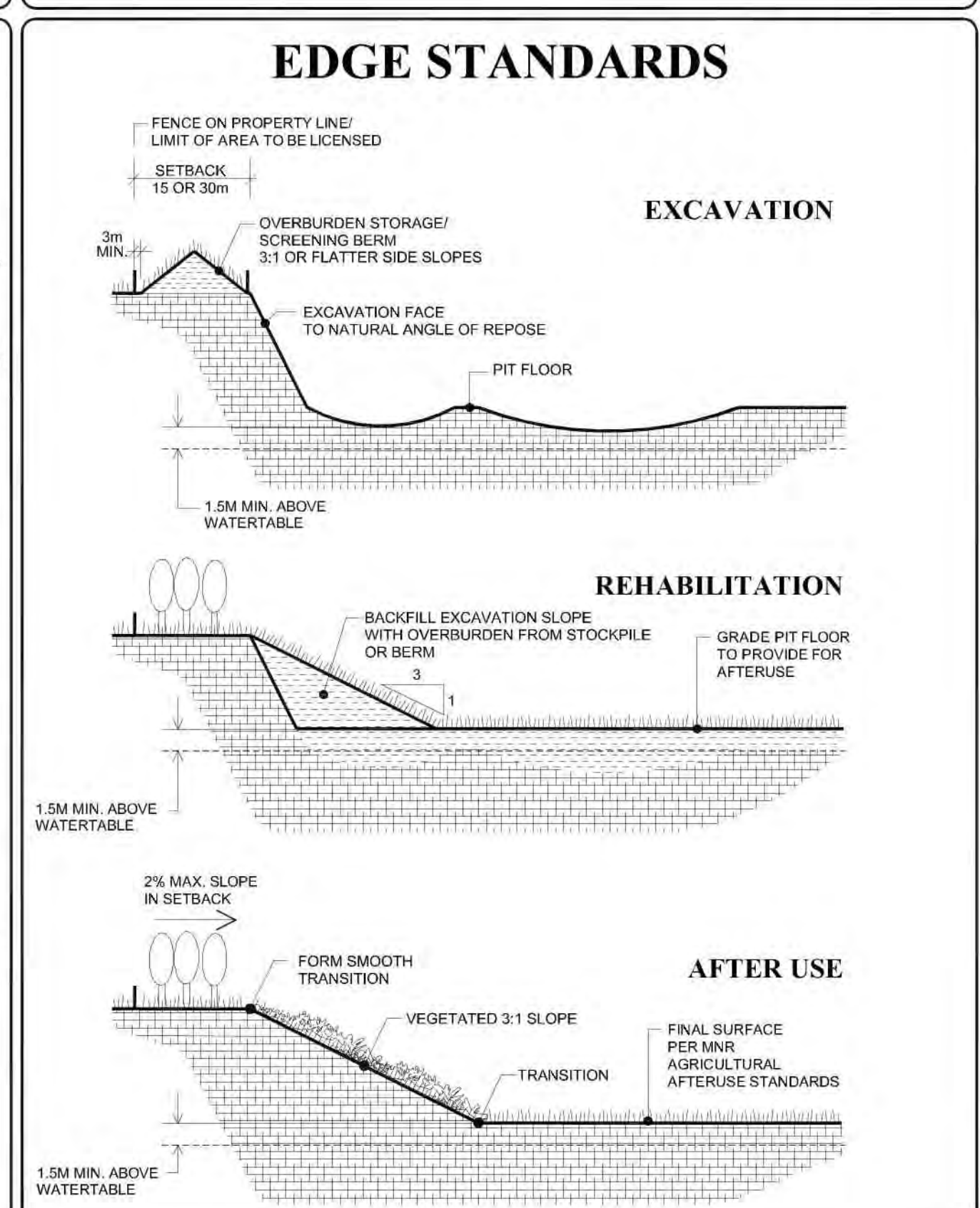
R.R. 2 Orangeville, Ontario L9W 2Y9

WEST PIT

W 1/2 LOT 2, CONCESSION 17
TOWNSHIP OF EAST GARAFRAXA
DUFFERIN COUNTY

Page 3 of 4

PROGRESSIVE AND FINAL REHABILITATION



DRAWN: J.A.R.	I ACKNOWLEDGE AND SHALL CARRY ON MY OPERATION IN ACCORDANCE WITH THE SITE PLAN UPON WHICH MY LICENCE IS BASED.	THIS SITE PLAN IS PREPARED UNDER THE AGGREGATE RESOURCES ACT FOR A CLASS A LICENCE, CATEGORY 3
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No.	DATE	DESCRIPTION	APP'D
AMENDMENTS			

ORIGINAL SCALE 1:2,000 @ 22x34

ROLLINGS HYLAND CONSULTING

Orangeville, Ontario info@rollingshyland.com 519.942.1961

CERTIFIED TO PREPARE SITE PLANS UNDER SECTION 8(4) OF THE AGGREGATE RESOURCES ACT

GENERAL OPERATIONAL NOTES,
CONTINUED FROM PAGE 2

15. NO IMPORTATION OF CONCRETE OR ASPHALT FOR REPROCESSING.
16. THE CONVEYOR AS SHOWN IS SCHEMATIC. THE ACTUAL LOCATION WILL BE DETERMINED DEPENDING ON MATERIAL REQUIREMENTS AND WILL FOLLOW THE OPERATION SEQUENCE. WHILE CONVEYORS WILL BE THE MEANS OF INTERNAL MATERIAL TRANSPORT, THERE MAY BE UPSET OR REPAIR CONDITIONS OF THE CONVEYOR SYSTEM WHERE TEMPORARY USE OF TRUCKS FOR CONVEYANCE ON SAME GENERAL ROUTE MAY OCCUR.
17. REMOVAL OF OVERBURDEN TYPICALLY OCCURS TWICE PER YEAR: ONCE DURING LATE FALL OR EARLY SPRING, AND A SECOND TIME DURING LATE SUMMER. THE DURATION OF THE ACTIVITY IS 1-2 WEEKS. THE ACTUAL TIMING AND DURATION MAY VARY SOMEWHAT.
18. PRIOR TO ANY LAND CLEARING:
- A) FIELD SURVEYS WILL BE UNDERTAKEN BY A QUALIFIED PROFESSIONAL TO INVENTORY FOR SPECIES AT RISK IN AREAS TO BE CLEARED.
- B) THE RESULTS OF THE SURVEY(S) WILL BE FORWARDED TO THE MNRF AND THE TOWNSHIP AS PART OF THE ANNUAL COMPLIANCE ASSESSMENT REPORT.
- C) APPROVALS SHALL BE OBTAINED UNDER THE ENDANGERED SPECIES ACT AND/OR AMENDMENTS MADE TO THE SITE PLAN AS NECESSARY.
- D) NO LAND CLEARING WILL OCCUR ON NATURALLY REGENERATING AREAS EXCLUDING ACTIVELY CULTIVATED LANDS BETWEEN APRIL 1 AND JULY 15 IN ANY GIVEN YEAR.
19. IMPLEMENT TECHNICAL RECOMMENDATIONS OF THE BEST MANAGEMENT PLAN FOR DUST CONTROL BY RWDI, JULY 7, 2016. A LOG OF DAILY SITE INSPECTIONS SHALL BE MAINTAINED AS PER THE BMP AND A COPY OF THE LOG SHALL BE PROVIDED TO THE TOWNSHIP ON REQUEST.
20. NO PERMANENT FUEL STORAGE AREA IS PERMITTED.
21. NO IMPORTATION OF FILL WILL BE PERMITTED WITHOUT TOWNSHIP APPROVAL
22. THE LICENSEE SHALL USE BROADBAND BACKUP ALARM SYSTEMS OR SIMILAR TECHNOLOGY - AS OPPOSED TO BACK UP BEEPERS - SUBJECT TO MINISTRY OF LABOUR APPROVAL, FOR ALL LOADERS AND ANY OTHER EQUIPMENT WITHIN LICENSES #10606, #80956, EAST PIT AND WEST PIT.
23. A WASH PLANT IS PROHIBITED WITHOUT TOWNSHIP APPROVAL AND REQUIRED PERMITS.
24. NATIVE CONIFEROUS TREES WILL BE PLANTED ALONG THE 16TH LINE TO THE SATISFACTION OF THE TOWNSHIP.

ARCHAEOLOGY

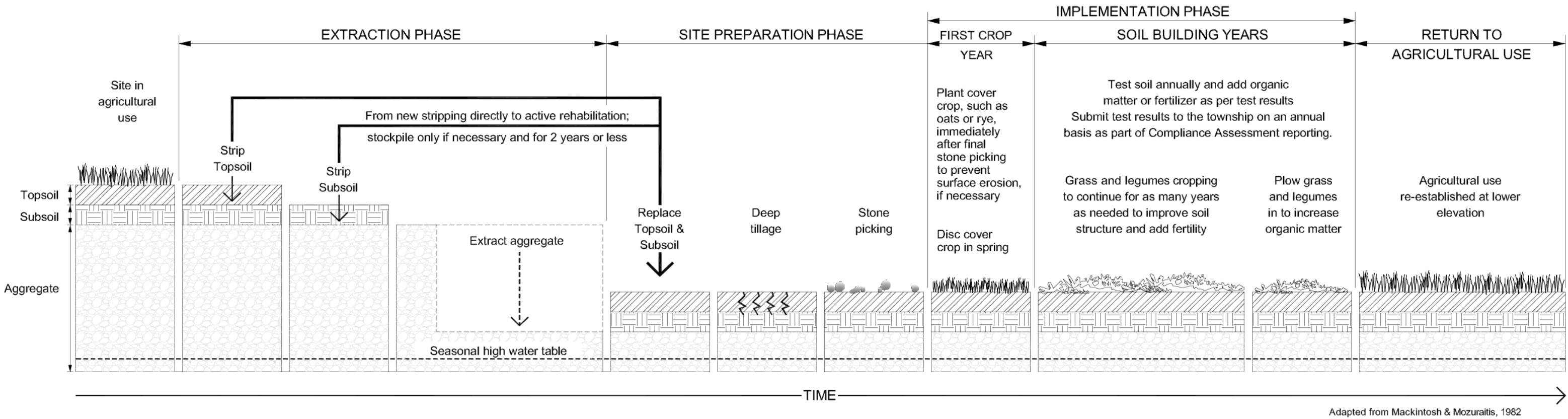
1. SHOULD DEEPLY BURIED ARCHAEOLOGICAL/HERITAGE REMAINS BE FOUND ON THE PROPERTY DURING SITE PREPARATION AND/OR EXTRACTION ACTIVITIES, MOC SHOULD BE NOTIFIED IMMEDIATELY. IN THE EVENT THAT HUMAN REMAINS ARE ENCOUNTERED DURING SITE PREPARATION AND/OR EXTRACTION ACTIVITIES ASSOCIATED WITH THE PROPOSED DEVELOPMENT OF THE STUDY AREA, THE PROJECT PROPONENT, GREENWOOD CONSTRUCTION COMPANY LIMITED, SHOULD IMMEDIATELY CONTACT BOTH MOC AND THE REGISTRAR OR DEPUTY REGISTRAR OF THE CEMETERIES REGULATION UNIT OF THE MINISTRY OF CONSUMER AND COMMERCIAL RELATIONS AT 416-326-9382.

SPILL CONTINGENCY PLAN

(APPLIES UNIFORMLY TO ALL GREENWOOD OPERATIONS)

1. IN CASE OF ACCIDENTAL SPILL OF PETROLEUM PRODUCTS, THE FOLLOWING CONTINGENCY PLAN WILL BE ACTIVATED:
- A) THE MINISTRY OF ENVIRONMENT AND CLIMATE CHANGE AND SURROUNDING LANDOWNERS WILL BE NOTIFIED.
- B) FOR A LEAKAGE, IMMEDIATE ACTION WILL BE TAKEN TO STOP IT. AT THE SAME TIME, MEASURES WILL BE TAKEN TO PREVENT THE SPREAD OF THE LEAK (I.E., CONSTRUCTION OF A BERM, DIGGING OF A DITCH). IF IT IS A SPILL, SIMILAR MEASURES AS MENTIONED FOR PREVENTING THE SPREAD OF A LEAK WILL BE TAKEN.
- C) GREENWOOD CONSTRUCTION CO LTD. WILL COMMENCE RECOVERY PROCEDURE BY PUMPING THE SPILLED LIQUID INTO CONTAINERS. THE SPILLED LIQUID MAY HAVE TO BE RECOVERED FROM AN OPEN WATER BODY OR LAND OR FROM BOTH. FOR A SPILL CONTAINED IN AN OPEN WATER BODY, RECOVERY MAY REQUIRE PUMPING OR SKIMMING OR BOTH.
- D) THE SOIL IN THE AREA AFFECTED BY THE SPILL OR LEAK WILL BE REMOVED.
- E) THE CONTAMINATED SOIL, THE RECOVERED SPILL AND WATER WILL BE DISPOSED OF BY GREENWOOD CONSTRUCTION CO. LTD. AT LOCATIONS PRESCRIBED BY THE MINISTRY OF ENVIRONMENT AND CLIMATE CHANGE.
2. THE FOLLOWING WILL BE AVAILABLE AT THE SITE:
- i) A SKIMMING DEVICE (WHERE OPEN WATER EXISTS)
- ii) A DIESEL PUMP
- iii) PORTABLE CONTAINERS
3. LIQUID PETROLEUM PRODUCTS WILL NOT BE STORED ONSITE.
4. TEMPORARY FUEL STORAGE WILL BE INSPECTED FOR LEAKS ON A WEEKLY BASIS.
5. DURING THE FUELING OF EQUIPMENT, THE AREA IN QUESTION WILL BE INSPECTED FOR LEAKS AND SPILLS.
6. IF A SPILL VOLUME OF 5 LITRES OR MORE, THE SPILLS ACTION CENTRE ESTABLISHED BY THE M.O.E.C.C. 1-800-268-6060 WILL BE CONTACTED IMMEDIATELY.
7. THE LICENSEE SHALL TAKE REASONABLE MEASURES TO STOP OR CONTROL THE SPILL.
8. A QUALIFIED PERSON SHALL INSPECT THE SPILL SITE AND COMPLETE A GENERAL ASSESSMENT OF THE AREA AFFECTED.
9. THE LICENSEE SHALL IMPLEMENT REMEDIAL MEASURES RECOMMENDED BY THE QUALIFIED PERSON AND/OR THE M.O.E.C.C.
10. A WRITTEN REPORT OF THE INCIDENT WILL BE PREPARED AND SUBMITTED TO THE M.O.E.C.C., TOWNSHIP AND M.N.R.F.

AGRICULTURAL REHABILITATION SEQUENCE



DUST CONTROL MEASURES

1. OPERATIONS WITHIN THE NOISE CONTROL ENVELOPES SHOWN ON THE SITE PLANS SHOULD BE SUSPENDED WHEN MOISTURE LEVELS IN THE MATERIAL BEING HANDLED ARE LOW (I.E., WHEN MATERIAL HANDLING GENERATES VISIBLE DUST) OR IS EXPECTED TO GENERATE VISIBLE DUST) AND THE WIND IS DIRECTED TOWARD THE RELEVANT RESIDENCE AT SPEEDS ABOVE 30 KM/HR (REFERENCED TO 10M HEIGHT). FOR CLARITY, WIND SPEED MEASUREMENTS WILL NOT BE TAKEN ON SITE BUT CAN BE OBTAINED FROM LOCAL WEATHER REPORTING. THIS APPLIES TO EXTRACTION, OVERBURDEN STRIPPING, BERM CONSTRUCTION AND REHABILITATION ACTIVITY.
2. DIESEL ENGINES ON THE CRUSHER, LOADER AND SCRAPERS USED WITHIN THE PROPOSED NOISE CONTROL ENVELOPES SHOULD CONFORM TO EMISSION LIMITS FOR 2012 AND LATER MODEL YEARS.
3. VISUAL INSPECTION FOR DUSTY CONDITIONS SHOULD OCCUR AT A MINIMUM OF TWICE DAILY DURING DRY WEATHER AND ONCE PER DAY OTHERWISE. DURING DRY WEATHER THE OPERATOR SHALL APPLY WATER AS REQUIRED TO ENSURE THE SURFACE REMAINS WET.
4. TRAVEL SPEEDS FOR SCRAPERS, LOADERS AND ANY OTHER EQUIPMENT OPERATING WITHIN THE EAST OR WEST PIT SHOULD BE KEPT AS LOW AS POSSIBLE, BUT AT NO TIME SHALL EXCEED A MAXIMUM SPEED OF 35 KM/HR.
5. WEATHER FORECASTS SHOULD BE CHECKED DAILY, PARTICULARLY WHEN OPERATING IN THE NOISE CONTROL ENVELOPES, TO PLAN FOR NEXT-DAY OPERATIONS AND WATERING NEEDS.
6. THERE SHOULD BE A MAINTENANCE/INSPECTION SCHEDULE FOR THE WATER TRUCK AND WATER SPRAY SYSTEM ON THE CRUSHING PLANT, TO ENSURE THAT THE DUST SUPPRESSION EQUIPMENT ARE FULLY OPERATIONAL WHEN NEEDED.
7. THE FACILITY SHOULD KEEP A RECORD OF HOW AND WHEN DUST CONTROL MEASURES ARE IMPLEMENTED.
8. DOCUMENT COMPLAINTS, INCLUDING OPERATIONS IN THE PIT AND WEATHER CONDITIONS, AS PER COMPLAINTS PROCEDURE IN NOISE NOTE 8, PAGE 2. INSPECT TO IDENTIFY THE SOURCE OF THE PROBLEM, IF POSSIBLE. IF ANY DEFICIENCY IS FOUND WITH THE IMPLEMENTATION OF THESE DUST RECOMMENDATIONS, IT SHOULD BE CORRECTED IMMEDIATELY. A COPY OF THE LOG OF COMPLAINTS SHALL BE PROVIDED TO THE TOWNSHIP AND/OR COUNTY UPON REQUEST.
9. DUST RECOMMENDATIONS LISTED HERE SERVE AS A STANDARD OPERATING PROCEDURE OR AIR QUALITY MANAGEMENT PLAN FOR THE SITE. THEY SHOULD BE KEPT ON FILE AND USED FOR STAFF TRAINING AND GUIDANCE.

NATURAL ENVIRONMENT
MITIGATION

THE FOLLOWING MITIGATION WILL PROTECT NATURAL FEATURES ON AND OFF SITE OF THE GREENWOOD WEST PIT;

- ESTABLISH A 15 M VEGETATED SETBACK FROM THE ACTIVE EXTRACTION AREA ALONG THE NORTH PROPERTY BOUNDARY TO INCREASE THE SEPARATION FROM THE NEAREST WETLAND TO 65 M.
- THE NORTH BOUNDARY SETBACK WILL BE SEEDED WITH A NATIVE GRASS MIX AND PERMITTED TO FURTHER RE-VEGETATE NATURALLY.
- THE WEST SETBACK WILL BE PLANTED WITH CREEPING RED FESCUE 55 %, PERENNIAL RYE 15% KENTUCKY BLUE GRASS 27% AND WHITE CLOVER 3%.
- A VARIETY OF LOCALLY SOURCED, APPROPRIATE TO THE PLANTING ZONE, NATIVE TREES AND SHRUBS WILL BE PLANTED ALONG THE SOUTHERLY SETBACK IN THE AREA INDICATED ON PAGE 2, UPON LICENSE APPROVAL TO ENHANCE VALUE FOR WILDLIFE. SPECIES TO BE PLANTED WILL INCLUDE BUT NOT BE LIMITED TO EASTERN WHITE PINE, WHITE SPRUCE, SUGAR MAPLE, SERVICEBERRY AND RED-OSIER DOGWOOD, DEPENDING UPON AVAILABILITY AND SITE SUITABILITY.
- ALL PLANTING WILL BE PLANNED AND IMPLEMENTED BY QUALIFIED PROFESSIONALS. WATER TREES AFTER PLANTING.
- ALL PLANTINGS WILL BE MONITORED BY A QUALIFIED PROFESSIONAL FOR 5 YEARS AND TREES AND/OR SHRUBS THAT DIE WILL BE REPLACED WITHIN 1 GROWING SEASON. DOCUMENT RESULTS OF MONITORING IN ANNUAL COMPLIANCE ASSESSMENT REPORT.
- RETAIN ALL SURFACE WATER ON THE SITE TO PREVENT IMPACTS TO SURFACE WATER QUALITY FLOWING FROM THE SITE.
- MAINTAIN EQUIPMENT AND STORE FUEL OFFSITE.
- RE-FUEL EQUIPMENT FROM A MOBILE SOURCE BROUGHT TO THE SITE WHEN REQUIRED.
- PREPARE, IMPLEMENT AND ENFORCE A SPILLS RESPONSE PLAN TO PROTECT GROUND WATER QUALITY.
- IF GROUNDWATER IS ENCOUNTERED AT AN UNEXPECTED LEVEL (NOT PERCHED WATER), EXTRACTION WILL CEASE UNTIL A REVISED PIT FLOOR ELEVATION IS ESTABLISHED.
- WHEN THE PROPOSED PIT FLOOR IS REACHED, TEST PITTING TO PROBE FOR THE WATER TABLE WILL ENSURE 1.5 M SEPARATION IS MAINTAINED BETWEEN THE WATER TABLE AND THE EXTRACTION OPERATION.
- PRIOR TO ANY LAND CLEARING:
 - A) FIELD SURVEYS WILL BE UNDERTAKEN BY A QUALIFIED PROFESSIONAL TO INVENTORY FOR SPECIES AT RISK (ENDANGERED AND THREATENED) IN AREAS TO BE CLEARED.
 - B) THE RESULTS OF THE SURVEY(S) WILL BE MADE AVAILABLE TO THE OMNRF AND THE TOWNSHIP.
 - C) APPROVALS SHALL BE OBTAINED UNDER THE ENDANGERED SPECIES ACT AND/OR AMENDMENTS MADE TO THE SITE PLANS AS NECESSARY.
- NO LAND CLEARING WILL OCCUR ON NATURALLY REGENERATING AREAS EXCLUDING ACTIVELY CULTIVATED LANDS BETWEEN APRIL 1 AND JULY 15 IN ANY GIVEN YEAR.
- TO COMPENSATE FOR THE IMPACT TO GRASSLAND WILDLIFE DURING THE CLEARING OF THE SITE AN AREA EAST OF THE SITE IN LOT 1, CON. 17 OF THE THE MCFEE PIT LICENSE #80956 WILL BE MANAGED FOR GRASSLAND SPECIES AND WILL BE IMPLEMENTED PRIOR TO LAND CLEARING ON THE WEST SITE.
- THE GRASSLAND AREA WILL BE GREATER THAN 200 M WIDE AND WILL CONSIST OF ABOUT 16 HA.
- THREE SPECIES OF GRASSES WITH AT LEAST ONE SPECIES GROWING TALLER THAN 50 CM WILL BE PLANTED ON 60 - 80 % OF THE NEW GRASSLAND. THE GRASS SPECIES SUGGESTED ARE AWNLESS BROME (*BROMUS INERMIS*), COMMON TIMOTHY (*PHELUM PRETENSE*) AND ORCHARD GRASS (*DACTYLIS GLOMERATA*). THE REMAINING AREA WILL BE PLANTED IN LEGUMES SUCH AS ALFALFA (*MEDICAGO SATIVA*) AND/OR RED CLOVER (*TRIFOLIUM PRETENSE*). THE SPECIES PLANTED MAY VARY SUBJECT TO SITE CONDITIONS AT THE TIME OF PLANTING. THIS WILL CREATE HABITAT WITH THE HIGH GRASS TO FORB RATIO PREFERRED BY BOBOLINK.
- NO MORE THAN HALF THE NEW GRASSLAND WILL BE HARVESTED, CUT, MOWED OR GRAZED BETWEEN APRIL 1 AND JULY 31 IN ANY YEAR.
- THE NEW GRASSLAND WILL BE MONITORED BY A QUALIFIED PROFESSIONAL AND WOODY VEGETATION AND INVASIVE SPECIES WILL BE REMOVED IF REQUIRED TO MAINTAIN THE SITE. REPORT RESULTS OF MONITORING IN ANNUAL COMPLIANCE ASSESSMENT REPORT.
- THE NEW GRASSLAND WILL BE MANAGED AND REMAIN FUNCTIONAL FOR AT LEAST 5 YEARS AFTER FULL SITE REHABILITATION.
- THE SITE PLANS OF THE MCFEE PIT LICENSE #80956 WILL BE AMENDED TO INCORPORATE THE DETAILS OF THIS NEW GRASSLAND PLAN.



WEST PIT
W 1/2 LOT 2, CONCESSION 17
TOWNSHIP OF EAST GARAFRAXA
DUFFERIN COUNTY

Page 4 of 4

NOTES &
DETAILS

HYDROGEOLOGY

THE GRAVEL PIT EXTRACTION SHOULD REMAIN 1.5 METRES ABOVE THE ESTABLISHED WATER TABLE AND WILL HAVE NO INTERACTION WITH WATER TABLE, SO THERE IS NO RISK OF AN INTERFERENCE WITH ANY EXISTING PRIVATE WELLS, OR ANY NATURAL FEATURES.

PIT FLOOR

THE PIT SHOULD REMAIN A MINIMUM 1.5 METRES ABOVE THE WATER TABLE. IT IS RECOMMENDED THAT THE FLOOR OF THE PIT BE SET AT 480.2 METRES. SHOULD GROUNDWATER BE ENCOUNTERED AT AN UNEXPECTED DEPTH, EXTRACTION SHOULD CEASE UNTIL A REVISED PIT FLOOR ELEVATION IS ESTABLISHED.

GROUNDWATER ELEVATIONS SHOULD BE CHECKED PRIOR TO REACHING PROPOSED PIT FLOOR LEVELS. ONCE THE CURRENTLY RECOMMENDED PIT FLOOR ELEVATION IS REACHED, FURTHER EXTRACTION SHOULD BE PRECEDED BY TEST PITTING TO PROBE FOR WATER TABLE TO ENSURE THAT THE 1.5 METRE SEPARATION DISTANCE IS MAINTAINED. INDICATIONS OF THE WATER TABLE WILL INCLUDE SATURATED CONDITIONS AND/OR A CHANGE IN THE COLOUR OF THE AGGREGATE FROM BROWN TO GREY. THE ELEVATION FOR A REVISED PIT FLOOR CAN BE DETERMINED FROM THIS TEST PITTING INVESTIGATION.

PROVIDE MONITORING RESULTS TO TOWNSHIP ON AN ANNUAL BASIS AS PART OF COMPLIANCE ASSESSMENT REPORTING.

VARIATIONS FROM THE
OPERATIONAL STANDARDS

THE FOLLOWING CONDITIONS ILLUSTRATED ON THIS PLAN VARY FROM THE REQUIREMENTS OF THE PROVINCIAL STANDARDS THAT APPLY TO LICENSED PITS IN ONTARIO

STANDARD	OVERRIDE
5.1	FENCING OF ENTIRE LICENSED BOUNDARY NOT REQUIRED THROUGH AGREEMENT WITH LANDOWNER (PROPERTY OWNED BY LICENSEE).
5.11	ELIMINATION OF A PORTION OF THE SETBACK IS PERMITTED THROUGH AGREEMENT WITH LANDOWNER (PROPERTY OWNED BY LICENSEE)

NOTE: UNFENCED LICENSED BOUNDARIES WILL BE STAKED FOR IDENTIFICATION PURPOSES IN LOCATIONS WHERE STAKING WILL NOT INTERFERE WITH THE ADJACENT LAND USES.

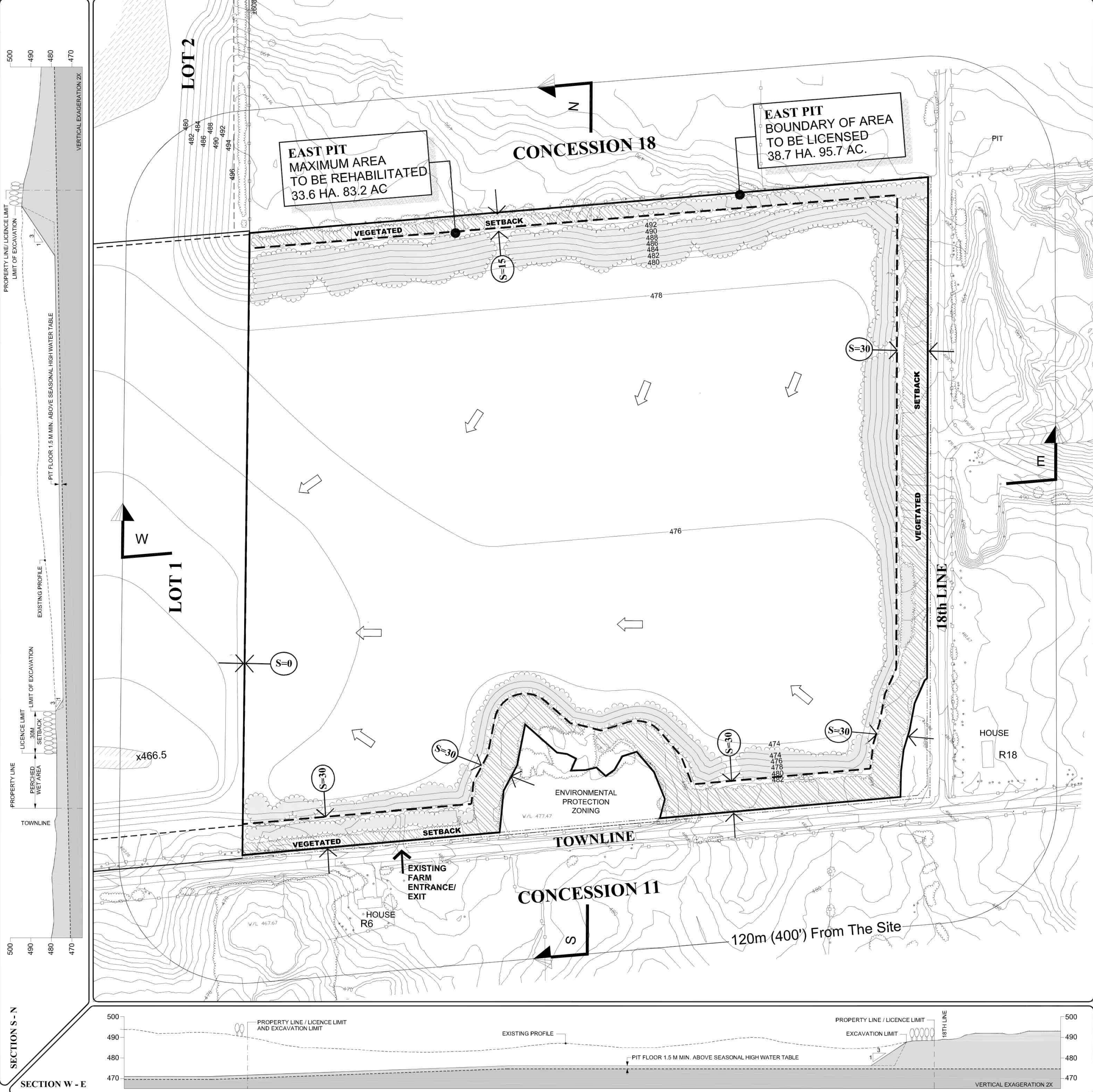
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AMENDMENT NO. 0	MINISTRY OF NATURAL RESOURCES & FORESTRY DATE: _____	JEFFREY A. ROLLINGS DATE: _____

No.	DATE	DESCRIPTION	APP'D

AMENDMENTS



CERTIFIED TO PREPARE SITE PLANS UNDER SECTION 8(4) OF THE AGGREGATE RESOURCES ACT



LEGEND

BOUNDARY OF AREA TO BE LICENSED

AREA TO BE EXCAVATED

S=15

←

SETBACKS, METRES

EXISTING TREE COVER

EXISTING FENCES

TYPICAL SECTION LOCATIONS

REHABILITATION CONTOURS

PROPOSED SURFACE DRAINAGE DIRECTION

- NOTES**
1. PROGRESSIVE REHABILITATION TO OCCUR WITHIN ONE FULL GROWING SEASON AFTER EXCAVATION OF EDGES.

2. PIT FLOOR TO BE GRADED TO PROPOSED REHABILITATION ELEVATIONS. TOPSOIL AND SUBSOIL ARE TO BE PROGRESSIVELY RECLAIMED FROM NEW STAGES AND/OR BERMS, IN SEQUENCE, AND PLACED ON PREPARED (GRADED AREAS). AVERAGE DEPTH OF TOPSOIL AVAILABLE FOR REHABILITATION IS APPROX. 30CM, (12")

REHABILITATION SOILS WILL HAVE COMPACTION AND FERTILITY TESTED, PRIOR TO SEEDING, TO CONFIRM SOIL RESTORATION AND REVEGETATION REQUIREMENTS.

ALL FIELD AREAS TO BE REHABILITATED IN ACCORDANCE WITH MINISTRY OF NATURAL RESOURCES AND FORESTRY GUIDELINES FOR REHABILITATION TO AN AGRICULTURAL AFTER USE.

3. COMPLETE EDGE REHABILITATION BY FILLING SLOPES WITH OVERBURDEN RECLAIMED FROM STORAGE BERMS, OR WHERE POSSIBLE, WITH MATERIAL STRIPPED FROM CURRENT STAGES.

4. AFTER USE OF THE PROPOSED LICENSE AREA IS AGRICULTURAL AND OPEN SPACE CONSERVATION

5. ULTIMATE CONTOURS MAY VARY AS A RESULT OF ACTUAL SITE CONDITIONS, UNSUITABLE GRANULAR MATERIAL AND GROUNDWATER LEVELS.

6. SIDE SLOPES TO BE PERMITTED TO RE-VEGETATE WITH WOODY SPECIES.

7. SURFACE DRAINAGE WILL BE BY INFILTRATION INTO THE GROUND.

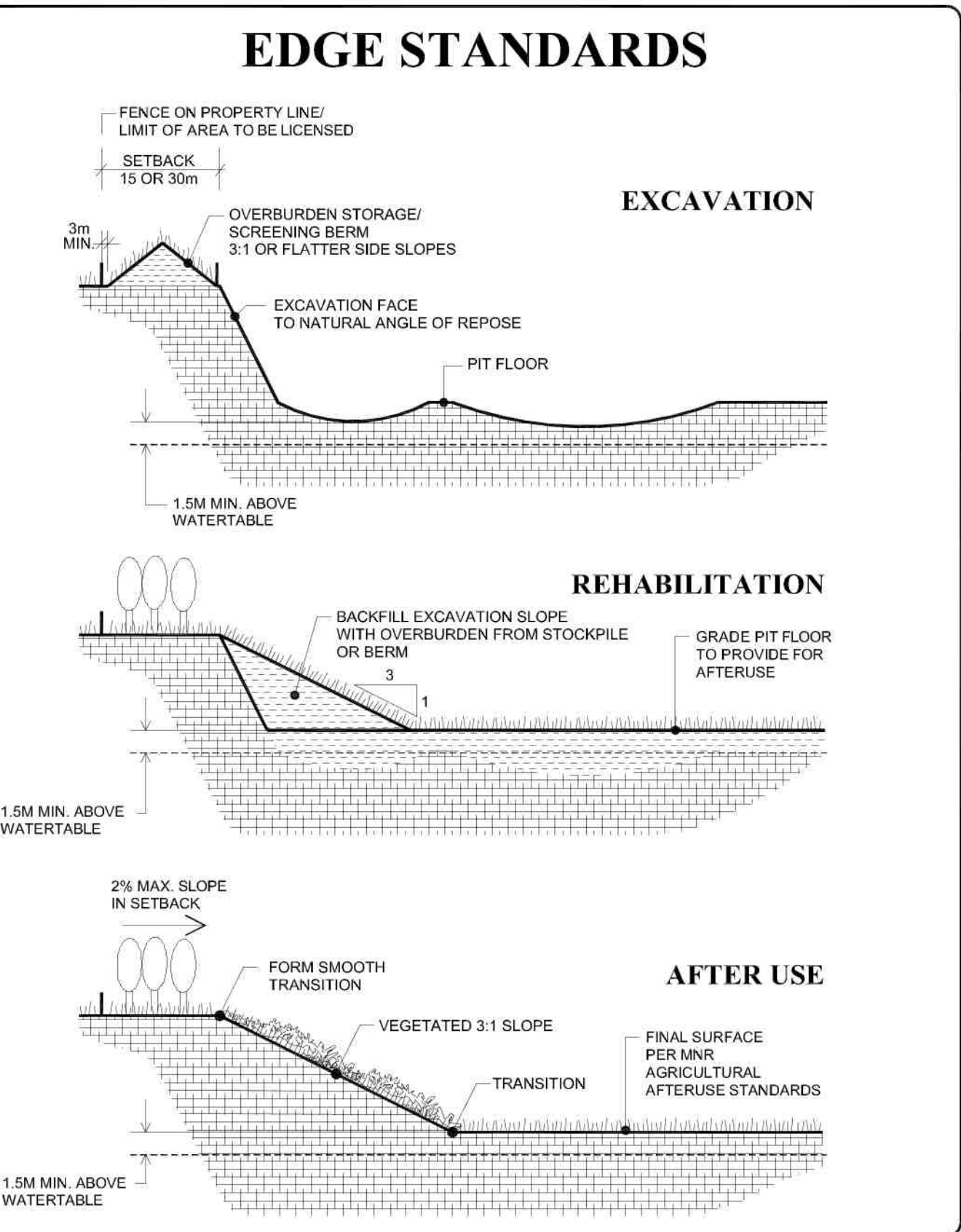
8. THE AGRICULTURAL REHABILITATION PROGRAM WILL BE COORDINATED WITH THE ADJUTING LICENSED PROPERTY TO ENSURE A UNIFORM SURFACE THAT CAN BE CULTIVATED.

Greenwood
Construction
R.R. 2 Orangeville, Ontario L9W 2Y9

EAST PIT
E 1/2 LOT 1, CONCESSION 18
TOWNSHIP OF EAST GARAFRAXA
DUFFERIN COUNTY

Page 3 of 4

**PROGRESSIVE
AND FINAL
REHABILITATION**



DRAWN: J.A.R.
APPROVED: S.G.
FILE: E Gara Updates /
East West Pits October 2019.dwg
PLOTTED: OCT. 06 2019

I ACKNOWLEDGE AND SHALL CARRY ON MY
OPERATION IN ACCORDANCE WITH THE SITE PLAN
UPON WHICH MY LICENCE IS BASED.
GREENWOOD CONSTRUCTION COMPANY LIMITED
PER: DATE:
SITE PLANS APPROVED BY:
MINISTRY OF NATURAL RESOURCES & FORESTRY
DATE:

THIS SITE PLAN IS PREPARED UNDER
THE AGGREGATE RESOURCES ACT
FOR A CLASS A LICENCE, CATEGORY 3
JEFFREY A. ROLLINGS
DATE:

AMENDMENT
NO. 0

No.	DATE	DESCRIPTION	APP'D
AMENDMENTS			

North

0

25

50

75m

150

ORIGINAL SCALE
1:2,000 @ 22x34

ROLLINGS HYLAND CONSULTING
Orangeville, Ontario info@rollingshyland.com 519.942.1961

CERTIFIED TO PREPARE SITE PLANS UNDER SECTION 8(4) OF THE AGGREGATE RESOURCES ACT

GENERAL OPERATIONAL NOTES, CONTINUED FROM PAGE 2

16. NO IMPORTATION OF CONCRETE OR ASPHALT FOR RE-PROCESSING.
17. THE CONVEYOR AS SHOWN IS SCHEMATIC. THE ACTUAL LOCATION WILL BE DETERMINED DEPENDING ON THE MATERIAL REQUIREMENTS AND WILL FOLLOW THE OPERATION SEQUENCE. WHILE CONVEYORS WILL BE THE MEANS OF INTERNAL MATERIAL TRANSPORT, THERE MAY BE UPSET OR REPAIR CONDITIONS OF THE CONVEYOR SYSTEM WHERE TEMPORARY USE OF TRUCKS FOR CONVEYANCE ON SAME GENERAL ROUTE MAY OCCUR.
18. REMOVAL OF OVERBURDEN TYPICALLY OCCURS TWICE PER YEAR: ONCE DURING LATE FALL OR EARLY SPRING, AND A SECOND TIME DURING LATE SUMMER. THE DURATION OF THE ACTIVITY IS 1-2 WEEKS. THE ACTUAL TIMING AND DURATION MAY VARY SOMEWHAT.
19. PRIOR TO ANY LAND CLEARING:
- A) FIELD SURVEYS WILL BE UNDERTAKEN BY A QUALIFIED PROFESSIONAL TO INVENTORY FOR SPECIES AT RISK IN AREAS TO BE CLEARED.
- B) THE RESULTS OF THE SURVEY(S) WILL BE FORWARDED TO THE MNRF AND THE TOWNSHIP AS PART OF THE ANNUAL COMPLIANCE ASSESSMENT REPORT.
- C) APPROVALS SHALL BE OBTAINED UNDER THE ENDANGERED SPECIES ACT AND/OR AMENDMENTS MADE TO THE SITE PLAN AS NECESSARY.
- D) NO LAND CLEARING WILL OCCUR ON NATURALLY REGENERATING AREAS EXCLUDING ACTIVELY CULTIVATED LANDS BETWEEN APRIL 1 AND JULY 15 IN ANY GIVEN YEAR.
20. IMPLEMENT TECHNICAL RECOMMENDATIONS OF THE BEST MANAGEMENT PLAN FOR DUST CONTROL BY RWDI, JULY 7, 2016. A LOG OF DAILY SITE INSPECTIONS SHALL BE MAINTAINED AS PER THE BMP AND A COPY OF THE LOG SHALL BE PROVIDED TO THE TOWNSHIP ON REQUEST.
21. NO PERMANENT FUEL STORAGE AREA IS PERMITTED.
22. NO IMPORTATION OF FILL WILL BE PERMITTED WITHOUT TOWNSHIP APPROVAL
23. THE LICENSEE SHALL USE BROADBAND BACKUP ALARM SYSTEMS OR SIMILAR TECHNOLOGY - AS OPPOSED TO BACK UP BEEPERS - SUBJECT TO MINISTRY OF LABOUR APPROVAL, FOR ALL LOADERS AND ANY OTHER EQUIPMENT WITHIN LICENSES #10606, #80956, EAST PIT AND WEST PIT.
24. A WASH PLANT IS PROHIBITED WITHOUT TOWNSHIP APPROVAL AND REQUIRED PERMITS.
25. NATIVE CONIFEROUS TREES WILL BE PLANTED ALONG THE 18TH LINE TO THE SATISFACTION OF THE TOWNSHIP.

ARCHAEOLOGY

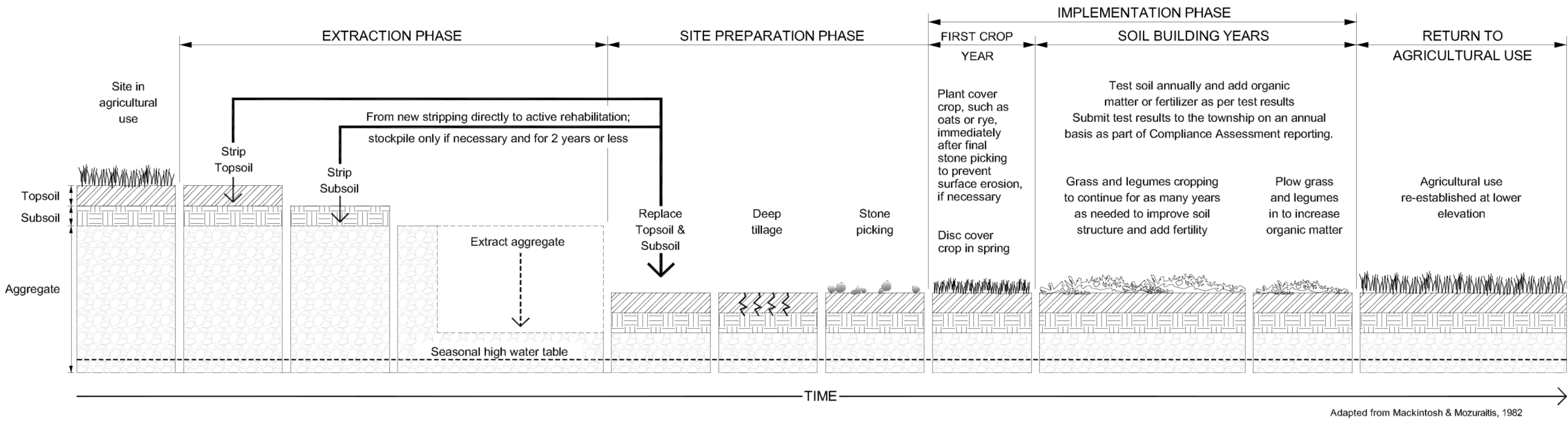
1. SHOULD DEEPLY BURIED ARCHAEOLOGICAL/HERITAGE REMAINS BE FOUND ON THE PROPERTY DURING SITE PREPARATION AND/OR EXTRACTION ACTIVITIES, MOC SHOULD BE NOTIFIED IMMEDIATELY. IN THE EVENT THAT HUMAN REMAINS ARE ENCOUNTERED DURING SITE PREPARATION AND/OR EXTRACTION ACTIVITIES ASSOCIATED WITH THE PROPOSED DEVELOPMENT OF THE STUDY AREA, THE PROJECT PROPONENT, GREENWOOD CONSTRUCTION COMPANY LIMITED, SHOULD IMMEDIATELY CONTACT BOTH MOC AND THE REGISTRAR OR DEPUTY REGISTRAR OF THE CEMETERIES REGULATION UNIT OF THE MINISTRY OF CONSUMER AND COMMERCIAL RELATIONS AT 416-326-9382.

SPILL CONTINGENCY PLAN

(APPLIES UNIFORMLY TO ALL GREENWOOD OPERATIONS)

1. IN CASE OF ACCIDENTAL SPILL OF PETROLEUM PRODUCTS, THE FOLLOWING CONTINGENCY PLAN WILL BE ACTIVATED:
- A) THE MINISTRY OF ENVIRONMENT AND CLIMATE CHANGE AND SURROUNDING LANDOWNERS WILL BE NOTIFIED.
- B) FOR A LEAKAGE, IMMEDIATE ACTION WILL BE TAKEN TO STOP IT. AT THE SAME TIME, MEASURES WILL BE TAKEN TO PREVENT THE SPREAD OF THE LEAK (I.E., CONSTRUCTION OF A BERM, DIGGING OF A DITCH). IF IT IS A SPILL, SIMILAR MEASURES AS MENTIONED FOR PREVENTING THE SPREAD OF A LEAK WILL BE TAKEN.
- C) GREENWOOD CONSTRUCTION CO LTD. WILL COMMENCE RECOVERY PROCEDURE BY PUMPING THE SPILLED LIQUID INTO CONTAINERS. THE SPILLED LIQUID MAY HAVE TO BE RECOVERED FROM AN OPEN WATER BODY OR LAND OR FROM BOTH. FOR A SPILL CONTAINED IN AN OPEN WATER BODY, RECOVERY MAY REQUIRE PUMPING OR SKIMMING OR BOTH.
- D) THE SOIL IN THE AREA AFFECTED BY THE SPILL OR LEAK WILL BE REMOVED.
- E) THE CONTAMINATED SOIL, THE RECOVERED SPILL AND WATER WILL BE DISPOSED OF BY GREENWOOD CONSTRUCTION CO. LTD. AT LOCATIONS PRESCRIBED BY THE MINISTRY OF ENVIRONMENT AND CLIMATE CHANGE.
2. THE FOLLOWING WILL BE AVAILABLE AT THE SITE:
- i) A SKIMMING DEVICE (WHERE OPEN WATER EXISTS)
- ii) A DIESEL PUMP
- iii) PORTABLE CONTAINERS
3. LIQUID PETROLEUM PRODUCTS WILL NOT BE STORED ONSITE.
4. TEMPORARY FUEL STORAGE WILL BE INSPECTED FOR LEAKS ON A WEEKLY BASIS.
5. DURING THE FUELING OF EQUIPMENT, THE AREA IN QUESTION WILL BE INSPECTED FOR LEAKS AND SPILLS.
6. IF A SPILL VOLUME OF 5 LITRES OR MORE, THE SPILLS ACTION CENTRE ESTABLISHED BY THE M.O.E.C.C. 1-800-268-6060 WILL BE CONTACTED IMMEDIATELY.
7. THE LICENSEE SHALL TAKE REASONABLE MEASURES TO STOP OR CONTROL THE SPILL.
8. A QUALIFIED PERSON SHALL INSPECT THE SPILL SITE AND COMPLETE A GENERAL ASSESSMENT OF THE AREA AFFECTED.
9. THE LICENSEE SHALL IMPLEMENT REMEDIAL MEASURES RECOMMENDED BY THE QUALIFIED PERSON AND/OR THE M.O.E.C.C.
10. A WRITTEN REPORT OF THE INCIDENT WILL BE PREPARED AND SUBMITTED TO THE M.O.E.C.C., TOWNSHIP AND M.N.R.F.

AGRICULTURAL REHABILITATION SEQUENCE



DUST CONTROL MEASURES

1. OPERATIONS WITHIN THE NOISE CONTROL ENVELOPES SHOWN ON THE SITE PLANS SHOULD BE SUSPENDED WHEN MOISTURE LEVELS IN THE MATERIAL BEING HANDLED ARE LOW (I.E., WHEN MATERIAL HANDLING GENERATES VISIBLE DUST) OR IS EXPECTED TO GENERATE VISIBLE DUST) AND THE WIND IS DIRECTED TOWARD THE RELEVANT RESIDENCE AT SPEEDS ABOVE 30 KM/HR (REFERENCED TO 10M HEIGHT). FOR CLARITY, WIND SPEED MEASUREMENTS WILL NOT BE TAKEN ON SITE BUT CAN BE OBTAINED FROM LOCAL WEATHER REPORTING. THIS APPLIES TO EXTRACTION, OVERBURDEN STRIPPING, BERM CONSTRUCTION AND REHABILITATION ACTIVITY.
2. DIESEL ENGINES ON THE CRUSHER, LOADER AND SCRAPERS USED WITHIN THE PROPOSED NOISE CONTROL ENVELOPES SHOULD CONFORM TO EMISSION LIMITS FOR 2012 AND LATER MODEL YEARS.
3. VISUAL INSPECTION FOR DUSTY CONDITIONS SHOULD OCCUR AT A MINIMUM OF TWICE DAILY DURING DRY WEATHER AND ONCE PER DAY OTHERWISE. DURING DRY WEATHER THE OPERATOR SHALL APPLY WATER AS REQUIRED TO ENSURE THE SURFACE REMAINS WET.
4. TRAVEL SPEEDS FOR SCRAPERS, LOADERS AND ANY OTHER EQUIPMENT OPERATING WITHIN THE EAST OR WEST PIT SHOULD BE KEPT AS LOW AS POSSIBLE, BUT AT NO TIME SHALL EXCEED A MAXIMUM SPEED OF 35 KM/HR.
5. WEATHER FORECASTS SHOULD BE CHECKED DAILY, PARTICULARLY WHEN OPERATING IN THE NOISE CONTROL ENVELOPES, TO PLAN FOR NEXT-DAY OPERATIONS AND WATERING NEEDS.
6. THERE SHOULD BE A MAINTENANCE/INSPECTION SCHEDULE FOR THE WATER TRUCK AND WATER SPRAY SYSTEM ON THE CRUSHING PLANT, TO ENSURE THAT THE DUST SUPPRESSION EQUIPMENT ARE FULLY OPERATIONAL WHEN NEEDED.
7. THE FACILITY SHOULD KEEP A RECORD OF HOW AND WHEN DUST CONTROL MEASURES ARE IMPLEMENTED.
8. DOCUMENT COMPLAINTS, INCLUDING OPERATIONS IN THE PIT AND WEATHER CONDITIONS, AS PER COMPLAINTS PROCEDURE IN NOISE NOTE 8, PAGE 2. INSPECT TO IDENTIFY THE SOURCE OF THE PROBLEM, IF POSSIBLE. IF ANY DEFICIENCY IS FOUND WITH THE IMPLEMENTATION OF THESE DUST RECOMMENDATIONS, IT SHOULD BE CORRECTED IMMEDIATELY. A COPY OF THE LOG OF COMPLAINTS SHALL BE PROVIDED TO THE TOWNSHIP AND/OR COUNTY UPON REQUEST.
9. DUST RECOMMENDATIONS LISTED HERE SERVE AS A STANDARD OPERATING PROCEDURE OR AIR QUALITY MANAGEMENT PLAN FOR THE SITE. THEY SHOULD BE KEPT ON FILE AND USED FOR STAFF TRAINING AND GUIDANCE.

NATURAL ENVIRONMENT MITIGATION

THE FOLLOWING MITIGATION WILL PROTECT NATURAL FEATURES ON AND OFF SITE OF THE GREENWOOD EAST PIT;

1. THE WETLANDS HAVE BEEN EXCLUDED FROM THE LICENCE AREA AND 30 M SETBACKS FROM THEIR BOUNDARIES HAVE BEEN ESTABLISHED AND CLEARLY MARKED.
2. THE LICENSE BOUNDARIES AS SHOWN IN THE VICINITY OF THE WETLAND AREAS WERE STAKED IN THE FIELD BY CREDIT VALLEY CONSERVATION, AND SURVEYED BY VAN HARTEN SURVEYORS.
3. INITIALLY WETLAND SETBACK LANDS WILL BE VEGETATED WITH A NATIVE MEADOW MIXTURE (IF AVAILABLE) OR GRASS/LEGUME MIX TO STABILIZE SOILS. (SEE EXAMPLE THIS PAGE)
4. BY REMOVING AGRICULTURAL DISTURBANCE FROM THE 30 M SETBACK LANDS, THE SETBACK WILL ALSO BE ALLOWED TO RE-VEGETATE NATURALLY WITH NATIVE SPECIES FROM THE ADJACENT WETLANDS.
5. PLANT THE CENTRAL WETLAND SETBACK LANDS WITH NATIVE TREES SUCH AS EASTERN WHITE CEDAR.
6. THE BERM LOCATED NEXT TO THE WETLAND IN THE SOUTH EAST CORNER OF THE SITE WILL BE SLOPED TO NO MORE THAN 3:1 ADJACENT TO THE WETLAND SIDE. THE BERM WILL BE SEEDED TO PREVENT EROSION. NO TREE PLANTING WILL TAKE PLACE ON THE BERM OR IN THE WETLAND TO KEEP SIGHT LINES OPEN AT THE INTERSECTION. A SILT CURTAIN WILL BE PLACED AT THE TOE OF THE BERM TO PREVENT UNDESIRABLE MATERIAL FROM ENTERING THE WETLAND. THE SILT CURTAIN WILL BE CHECKED AND MAINTAINED AS REQUIRED.
7. PLANT THE NORTH, EAST AND SOUTH BOUNDARY SETBACKS WITH GRASSES/LEGUME MIX ONLY. DO NOT PLANT TREES IN THESE SETBACK AREAS. SEED MIX: CREEPING RED FESCUE 55%, PERENNIAL RYE, 15% KENTUCKY BLUE GRASS 27%, WHITE CLOVER 3%.
8. NO TREES WILL BE PLANTED ON THE BERMS OR WITHIN THE 3 METRE SETBACK BETWEEN THE BERMS AND THE PROPERTY LINE ALONG ROADWAYS..
9. ALL PLANTING WILL BE PLANNED AND IMPLEMENTED BY QUALIFIED PROFESSIONALS.
10. ALL PLANTINGS WILL BE MONITORED BY A QUALIFIED PROFESSIONAL FOR 5 YEARS AND PLANTINGS THAT DIE WILL BE REPLACED WITHIN 1 GROWING SEASON.
11. MAINTAIN ALL EQUIPMENT AND STORE FUEL OFFSITE.
12. RE-FUEL EQUIPMENT FROM A MOBILE SOURCE BROUGHT TO THE SITE WHEN REQUIRED.
13. PREPARE, IMPLEMENT AND ENFORCE A SPILLS RESPONSE PLAN TO PROTECT WATER QUALITY (SEE NOTE ON PAGE 4)
14. CEASE EXTRACTION IF GROUNDWATER IS ENCOUNTERED AT AN UNEXPECTED LEVEL (NOT PERCHED WATER), AND ESTABLISH A REVISED PIT FLOOR ELEVATION.
15. BEGIN TEST PITTING TO PROBE FOR THE WATER TABLE WHEN THE PROPOSED PIT FLOOR IS REACHED TO ENSURE 1.5 M SEPARATION IS MAINTAINED BETWEEN THE WATER TABLE AND THE EXTRACTION OPERATION.

NATIVE SEED MEADOW MIX

ONTARIO MEADOW MIX (MESIC) ANAPHALIS MARGARITACEA ANEMONE CANADENSIS ASCLEPIAS TUBEROSE ASTER ERICOIDES ASTER LAEVIS ASTER NOVAE-ANGLIAE ASTER PILOSUS BOULEDOUA CURTIPENDULA DESMODIUM CANADENSE ELYMUS CANADENSIS HELANTHUM AUTUMNAL LESPEDEZA CAPITATA MONARDA FISTULOSA	PEARLY EVERLASTING TALL ANEMONE BUTTERFLY MILKWEED HEATH ASTER SMOOTH ASTER NEW ENGLAND ASTER HAIRY ASTER SIDE-OATS GRAMA SHOWY TICK-TREFOIL CANADA WILD RYE MARSH SNEEZEWEED ROUNDHEADED BUSHCLOVER WILD BERGAMOT	OENOTHERA BIENNIS PANICUM VIRGATUM PENSTEMON HIRSUTUS PYCNANTHEMUM VIRGINIANUM RITIBIDA PINNATA RUDBECKIA SEROTINA SCHIZACHYRIUM SCOPARIUM SOLIDAGO GRAMINIFOLIA SOLIDAGO NEMORALIS SOLIDAGO RIGIDA	EVENING PRIMROSE SWITCH GRASS HAIRY BEARDTONGUE VIRGINIA MOUNTAIN MINT GREY CONEFLOWER BLACK-EYED SUSAN LITTLE BLUESTEM LANCE-LEAVED GOLDENROD GREY GOLDENROD STIFF GOLDENROD
SEEDING RATE: 8 KG/HA			



EAST PIT
E 1/2 LOT 1, CONCESSION 18
TOWNSHIP OF EAST GARAFRAXA
DUFFERIN COUNTY

Page 4 of 4
NOTES & DETAILS

HYDROGEOLOGY

THE GRAVEL PIT EXTRACTION MUST REMAIN 1.5 METRES ABOVE THE ESTABLISHED WATER TABLE AND WILL HAVE NO INTERACTION WITH WATER TABLE, SO THERE IS NO RISK OF AN INTERFERENCE WITH ANY EXISTING PRIVATE WELLS.

PIT FLOOR
THE RIDGE THAT BISECTS THE SITE DIVIDES THE SITE INTO NORTH AND SOUTH HALVES. THE GROUNDWATER ELEVATION IN THE NORTHERN HALF IS ESTABLISHED THROUGH GROUNDWATER ELEVATIONS AT WELL MW9-09 AT 477.2MAMSL. THE GROUNDWATER ELEVATION IN THE SOUTHERN HALF IS ESTABLISHED AT WELL MW10-09 AT 472.2MAMSL. IT IS RECOMMENDED THAT THE PROPOSED PIT FLOOR BE GRADED BETWEEN 478.7MAMSL IN THE NORTH TO 473.7MAMSL IN THE SOUTH SO THAT THE PIT FLOOR IS SLOPED FROM NORTH TO SOUTH. SHOULD GROUNDWATER (OTHER THAN PERCHED WATER) BE ENCOUNTERED AT AN UNEXPECTED ELEVATION, THEN EXCAVATION ACTIVITIES SHOULD CEASE UNTIL A REVISED PIT FLOOR ELEVATION IS ESTABLISHED.

GROUNDWATER ELEVATIONS SHOULD BE CHECKED PRIOR TO REACHING PROPOSED PIT FLOOR LEVELS. ONCE THE CURRENTLY RECOMMENDED PIT FLOOR ELEVATION IS REACHED, FURTHER EXTRACTION SHOULD BE PRECEDED BY TEST PITTING TO PROBE FOR WATER TABLE TO ENSURE THAT THE 1.5 METRE SEPARATION DISTANCE IS MAINTAINED. INDICATIONS OF THE WATER TABLE WILL INCLUDE SATURATED CONDITIONS AND/OR A CHANGE IN THE COLOUR OF THE AGGREGATE FROM BROWN TO GREY. THE ELEVATION FOR A REVISED PIT FLOOR CAN BE DETERMINED FROM THIS TEST PITTING INVESTIGATION.

PROVIDE MONITORING RESULTS TO TOWNSHIP ON AN ANNUAL BASIS AS PART OF COMPLIANCE ASSESSMENT REPORTING.


ON-SITE WETLAND
A MINIMUM 30 METRE BUFFER WILL BE ESTABLISHED BETWEEN THE LIMIT OF EXTRACTION AND THE ON-SITE WETLAND BOUNDARY. THIS IS INTENDED TO ALLOW THE ON-SITE WETLAND TO MAINTAIN ITS EXISTING FUNCTIONS.

VARIATIONS FROM THE OPERATIONAL STANDARDS

THE FOLLOWING CONDITIONS ILLUSTRATED ON THIS PLAN VARY FROM THE REQUIREMENTS OF THE PROVINCIAL STANDARDS THAT APPLY TO LICENSED PITS IN ONTARIO

STANDARD	OVERRIDE
5.1	FENCING OF ENTIRE LICENSED BOUNDARY NOT REQUIRED THROUGH AGREEMENT WITH LANDOWNER (PROPERTY OWNED BY LICENSEE).
5.11	ELIMINATION OF A PORTION OF THE SETBACK IS PERMITTED THROUGH AGREEMENT WITH LANDOWNER (PROPERTY OWNED BY LICENSEE)

NOTE: UNFENCED LICENSED BOUNDARIES WILL BE STAKED FOR IDENTIFICATION PURPOSES IN LOCATIONS WHERE STAKING WILL NOT INTERFERE WITH THE ADJACENT LAND USES.

DRAWN: J.A.R.		I ACKNOWLEDGE AND SHALL CARRY ON MY OPERATION IN ACCORDANCE WITH THE SITE PLAN UPON WHICH MY LICENCE IS BASED.		THIS SITE PLAN IS PREPARED UNDER THE AGGREGATE RESOURCES ACT FOR A CLASS A LICENCE, CATEGORY 3	
APPROVED: S.G.		GREENWOOD CONSTRUCTION COMPANY LIMITED			
FILE: E Gara Updates / East West Pits October 2019.dwg		PER: _____ DATE: _____			
PLOTTED: OCT. 06 2019		SITE PLANS APPROVED BY:		JEFFREY A. ROLLINGS	
AMENDMENT NO. 		MINISTRY OF NATURAL RESOURCES & FORESTRY		DATE: _____	
No.	DATE	DESCRIPTION			APP'D
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CERTIFIED TO PREPARE SITE PLANS UNDER SECTION 8(4) OF THE AGGREGATE RESOURCES ACT