CORPORATION OF THE TOWNSHIP OF EDWARDSBURGH/CARDINAL

BY-LAW NO. 2019-55

"BEING A BY-LAW TO AUTHORIZE THE EXECUTION OF A SITE PLAN CONTROL AGREEMENT WITH SHORELINE RAIL GROUP INC."

WHEREAS the Council of the Corporation of the Township of Edwardsburgh Cardinal deems it advisable to enter into a Site Plan Control Agreement with ShoreLine Rail Group Inc. respecting development of a property described as:

3518 County Road 2
Con 1, Pt Lot 34, 35
RP 15R9747 Parts 1, 7 and 8
TOWNSHIP OF EDWARDSBURGH/CARDINAL
Property Roll #0701 701 050 11501
Identified as Part of PIN 68155-0792 (LT)

WHEREAS Authority is granted under Section 41 of the Planning Act, RSO 1990, c.P. 13, as amended to the Council of the Corporation of the Township of Edwardsburgh/Cardinal to enter into and amend such agreements; and

NOW THEREFORE BE IT RESOLVED THAT the Council of the Corporation of the Township of Edwardsburgh Cardinal enacts as follows:

- 1. That the Mayor and Clerk are hereby authorized to execute an agreement with ShoreLine Rail Group Inc. and that a signed copy of said agreement is attached hereto as Schedule "A".
- 2. That the following by-law to authorize execution of a site plan control previously passed is hereby repealed: By-law 2018-46, GC56137 registered on February 7, 2019.
- 3. That this by-law shall come into force and effect upon passing.

Read a first and second time in open Council this 23rd day of September, 2019.

Read a third and final time, passed, signed and sealed in open Council this 23rd day of September, 2019.

Mayor\

Deputy Clerk

SITE PLAN AGREEMENT

3518 County Road 2;

Con 1, Pt Lot 34, 35

RP 15R9747 Parts 1, 7 and 8

TOWNSHIP OF EDWARDSBURGH/CARDINAL

Property Roll #0701 701 050 11501

Identified as Part of PIN 68155-0792 (LT)

BETWEEN

SHORELINE RAIL GROUP INC.

AND

THE CORPORATION OF THE TOWNSHIP OF EDWARDSBURGH/CARDINAL

September <u>23</u>, 2019

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THIS AGREEMENT MADE BETWEEN: SHORELINE RAIL GROUP INC.

HEREINAFTER CALLED THE "OWNER"

OF THE FIRST PART

AND: THE CORPORATION OF THE TOWNSHIP OF

EDWARDSBURGH/CARDINAL

HEREINAFTER CALLED THE "TOWNSHIP"

OF THE SECOND PART

WHEREAS the Township of Edwardsburgh/Cardinal has enacted Site Plan Control By-law 2002-31 pursuant to the provisions of Section 41 of the Planning Act R.S.O. 1990, Chapter P.13, as amended;

AND WHEREAS the Owner is the Owner of the lands, more particularly described in Schedule "A" attached, and which are hereinafter referred to as the "Site";

AND WHEREAS the Owner and the Township have previously agreed to certain matters under Site Plan Control Agreement adopted by Bylaw 2018-46 duly registered on title of the lands;

AND WHEREAS the Owner and Township wish to amend said Agreement by adding certain matters to said Site Plan Control Agreement hereinafter expressed relating to the development of the lands pursuant to the Township's Site Plan Control By-law:

NOW THEREFORE THIS AGREEMENT WITNESSETH that in consideration of the approval of the plans for the development on the subject parcel of land by the Township and the sum of One Dollar (\$1.00) of lawful money of Canada paid by the Township to the Owner the receipt whereof is hereby acknowledged by the Owner, the Owner and the Township agree as follows:

1. DEFINITIONS

In this Agreement:

"ACCEPTANCE" - means the date on which the Township accepts that all works and obligations which are constructed, installed, supplied or performed by the Owner pursuant to this Agreement and further referred to in this Agreement;

"AGREEMENT" - shall mean this Agreement and the Schedules which Schedules shall also be deemed to be covenants as though specifically set out therein;

"APPROVAL" - means the Township is satisfied that certain works have been constructed, installed or performed to the satisfaction of the Township, and as required in this Agreement;

"TOWNSHIP" - shall mean the Corporation of the Township of Edwardsburgh/Cardinal and shall include its successor and assigns and its officers, employees, agents, and contractors;

"TOWNSHIP ENGINEER" - Means the Director of Operations of the Corporation of the Township of Edwardsburgh/Cardinal or such other person or persons designated;

"CHIEF BUILDING OFFICIAL" - shall mean the person appointed by the Township as the Chief Building Official, or his/her designate;

"TOWNSHIP TREASURER" - shall mean the Treasurer of the Corporation of the Township of Edwardsburgh/Cardinal or such other person or persons so designated;

"LETTER OF CREDIT" - means a letter of credit provided by the Owner to the Township in accordance with the requirements of this Agreement;

"MAINTAIN" - includes repair, replace, and/or keep operational;

"PLAN(S)" OR "SITE PLAN" - means the Site Plan and all associated plans approved by Council and includes the land described in Schedule "A";

"ROAD" - shall mean those public roads or any part thereof, any daylighting triangles, and areas of road widening shown or laid out on the Site Plan. The use of "Street" or "Public Highway" shall be synonymous with "Road";

"WORKS" - shall mean the whole works, materials, matters and things required by this Agreement to be supplied, performed, or constructed.

LANDS

The Owner agrees that the lands affected by this Agreement shall be those described in Schedule "A". The Owner warrants that it is the Owner in fee simple of the lands described in Schedule "A".

SCOPE OF WORKS AND CONFORMITY

The Owner agrees to construct and maintain the proposed development in conformity with this Agreement and Schedules attached hereto. No works shall be erected on the lands other than those erected in conformity with the said Schedules. It is understood and agreed that written approval of the Township, in a form determined solely by the Township, is required prior to any departure from the specifications of the Schedules being undertaken.

GENERAL

- a) The Owner shall not call into question, directly or indirectly, in any proceeding whatsoever, in law or in equity, or before any administrative tribunal, the right of the Township to enter into this Agreement and to enforce each and every term, covenant and condition herein contained.
- b) The Owner covenants and agrees with the Township that if the Owner sells or conveys the lands herein described as the "Site" or any part thereof; that each transfer of an interest in land shall contain a covenant on the part of the Grantee in such Deed binding itself, its heirs, executors administrators, successors and assigns to the terms of this Agreement. Furthermore, the carrying out of the Works and obligations of the Owner under this Agreement shall include a similar covenant in all subsequent Deeds of Grant of the said lands until the Works and obligations of the Owner under this Agreement have been fully performed. All covenants and Agreements herein contained, assumed by, or imposed upon the Owner are deemed to be covenants which run with and bind the lands herein described and every part thereof.
- c) The Owner agrees that there will be no subdivision of the lands herein described on Schedule "A" except by application pursuant to the provisions of the Planning Act, R.S.O. 1990, Chapter P13, as amended.
- d) The Owner shall provide, in addition, digital copies of plans included in the Schedules of this Agreement in a pdf format.
- e) The Owner shall supply to the Township, one set of "as-constructed" road, grading and service drawings including the location of all works, certified under seal by a Professional Engineer, for Township records, upon completion of the Works. Furthermore, the Owner may be required to provide the "as-constructed" information and attribute data for the works in an electronic form that is compatible with the Township's computer systems.
- f) The Owner covenants and agrees to satisfy all conditions of approval and abide by all municipal by-laws, statutes and regulations, including those of the United Counties of Leeds & Grenville.
- g) The Owner further covenants and agrees to satisfy all conditions of approval and abide by all Federal and Provincial statutes and regulations.

5. BUILDING AND PLANNING REQUIREMENTS

- a) The Owner shall not commence or permit the commencement of any building or structure before the issuance to the Owner by the Township of a building permit, as required.
- b) The Owner further agrees that the proposed Works including lot grading detail specified in the Schedules attached hereto shall be erected in conformity with the said Schedules to the satisfaction of the Township. No buildings or other Works shall be erected on the said lands other than those in conformity with Schedules. It is understood and agreed that written authority

of the Township shall be obtained prior to any alterations being made which would in any way represent a departure from the specifications detailed in the said Schedules.

- c) Nothing in this Agreement shall restrict the Owner from applying at any time in the future for building permits to construct extensions and/or additional buildings as may be permitted from time to time by the By-Laws of the Township, subject to the requirement by the Township of a new Site Plan Approval.
- d) The property and buildings subject to this Agreement shall be maintained per the provisions of this Agreement as well as being in compliance with any Property Standards By-law adopted by the Township of Edwardsburgh/Cardinal Council. The Owner shall repair and maintain at all times and to the satisfaction of the Township, all buildings located on the subject property together with all other on-site works.
- e) The Owner covenants and agrees to pay to the Township any applicable fees which are established by By-Law of the Council of the Township and said charges shall be those in effect on the date of issue of a building permit for which an application has been made.
- f) The Owner shall separately arrange for the removal of all construction waste and recycling material from the Site, and shall dispose of such garbage and waste at its own expense in accordance with Township By-Laws.
- g) Until all Works have been completed to the satisfaction of the Township, the Owner shall immediately remove at its expense any mud or debris deposited on any public road(s) used for access to the Site which mud or debris has been deposited as a consequence of any Works carried out under the terms of this Agreement.
- h) The Owner shall provide adequate parking facilities on-site or other approved locations where workers employed on the Site shall be required to park their vehicles, except for those times when reasonable access to the Site is not available due to services or street construction in the public street or except as may be authorized in writing by the Township.
- i) Where any road has been used for the provision of access to a construction site and has been damaged by the Owner, or any employees or authorized agents of the Owner as a result of such use, the Owner shall restore or reconstruct it to its former state to the satisfaction of the Township or appropriate road authority.
- j) The Owner shall not dump or permit to be dumped any fill or debris on adjacent lands, except as approved by the Township.
- k) All exterior lighting shall be directed to shine away and down from abutting residential zones and public highways. All exterior lighting proposed for the subject lands shall be installed only in the locations and in accordance with specifications shown on the approved plans attached hereto, unless otherwise approved in writing by the Chief Building Official.
- I) The Owner shall comply with those additional planning and engineering requirements set out in Schedule "E" hereto attached.

REGISTRATION

The Township shall require this Agreement to be registered against the lands to which it applies immediately following the execution by the parties hereto and the Owner agrees not to register any other instrument against the subject lands until this has been accomplished.

7. FAILURE TO COMPLY

The Owner acknowledges and agrees that failure to comply with any term or condition herein may result in the Township taking such action to enforce compliance, as deemed appropriate by the Township.

8. SERVICING AND EASEMENT REQUIREMENTS

- a) The Owner shall provide, dedicate, and register such easements to the Township which may be required for water, sewer, drainage or other purposes related to the development of the Owner's lands. Copies of any and all plans and registration documents shall be provided to the Township by the Owner
- b) The Owner agrees to clean out and remove solids accumulated in the sumps of catch basins. Township shall be permitted lawful entry onto the Site in order to examine and adjust, at the Owner's expense, all storm water management devices that do not then conform to the requirements of this Agreement. If the Township determines that the devices are not in conformance with this Agreement, the Township shall not enter to complete the adjustments aforesaid unless it has given prior written notice to the Owner and an opportunity to rectify the defect, all in accordance with the default provisions for this agreement. If, in the opinion of the Township, the non-conformance presents an emergency, the Township may, without notice to the Owner enter upon the Site to complete the required adjustments at the Owner's expense.
- c) The Owner shall arrange at its own expense with Hydro One, Bell Canada, Union Gas, the local cable company or any other similar utility company for the installation of such services to the Site and for the provision of any easements with respect to such installations and in accordance with the terms, conditions and specifications laid down by said company. If in relation to the development of the Site the Owner is required, it shall also arrange for the relocation of any existing installation at no cost to the Township. Notwithstanding the aforementioned, the location of all boxes, lines or other works proposed to be installed in connection with the provisions of any service shall be submitted for approval to the Township before installation.
- d) Water and sanitary services are to be provided on site by the owner and are subject to the approval of the District Health Unit or Ministry of Environment as appropriate

9. IMPLEMENTATION OF REPORTS AND STUDIES

All reports and/or studies required as a result of the Works in this Agreement shall be implemented to the Township's satisfaction at the sole expense of the Owner. The studies shall be identified in Schedule "E" Additional Township Conditions.

10. COMPLETION TIME LIMIT

Failure by the Owner to complete all Works required by this Agreement within the time limit specified by the Township or as extended, in writing at its sole discretion, shall constitute a default, in which case the Township may avail itself of the remedies hereinafter prescribed or available to it in law.

11. FINANCIAL REQUIREMENTS

a) Payment

The Owner shall pay to the Township, by cash or certified cheque, the charges and fees, as set out in this Agreement and other financial requirements including but not limited to reasonable administrative, legal, planning and engineering fees, development charges and building permit fees that may be required of the Township as established by by-law or resolution of the Council of the Township in effect at the time of application for a building permit.

b) Performance Deposits

It is further agreed that all matters and things required to be provided and maintained in this Agreement shall be provided and maintained by the Owner at its sole risk and expense and to the satisfaction of the Township. In order to ensure that such matters and things are provided and maintained by the Owner, before this Agreement is executed by the Township, the Owner shall deposit with the Township, a sum in cash or by irrevocable letters of credit in a form approved by the Township Treasurer (which deposit however made, may be referred to hereafter as "a deposit"), equal to fifty percent (50%) of the estimated cost of construction and installation of the Works being shown in Schedule "C" hereto annexed. If The Owner satisfies the provisions of this clause by depositing irrevocable letters of credit with the Township they must be in the form set out in Schedule "D" annexed hereto.

c) Default

In the event of a default by the Owner or its assigns in the provision and maintenance of all matters and things required to be done by the Owner pursuant to this Agreement, the Township may at the expense of the Owner, enter upon the lands and do all such matters and things as are in default. The Township may authorize the use of any or all of the cash or letters of credit deposited with the Township pursuant to Clause 11(b), to pay for the cost to the Township of carrying out of such matters or things. "Cost" and "expense of the Owner" in this Clause shall be

actual cost incurred by the Township plus twenty-five percent (25 %) of such cost as a charge for overhead and administration fees. Any costs incurred by the Township pursuant to this clause which are in excess of the amount of a deposit held by the Corporation pursuant to clause 11(b) shall be paid by the Owner to the Township within thirty (30) days of the mailing of an invoice by the Township addressed to the Owner at its last known address for such amount in excess and any costs referred to in this clause may be recovered by the Township in like manner as municipal taxes pursuant to the provisions of Section 427 of the Municipal Act, 2001, S.O. 2001, c.25 as amended.

d) Extension of Letter of Credit

If the Owner satisfies the provisions of Clause 11(b) by depositing irrevocable letter(s) of credit with the Township, the following provisions shall apply:

- i) Until the completion of all Works required to be provided and maintained by the Owner pursuant to this Agreement, to the satisfaction of the Township, it will be a condition of the letter of credit that it shall be deemed to be automatically extended without amendment from year to year from the existing or any expiration date thereof, unless at least 90 days prior to any such future expiration date, the financial institution which issued the letter of credit notifies the Township in writing by registered mail that it elects not to consider the letter of credit to be renewable for any additional period.
- ii) Until the completion of all Works required to be provided and maintained by the Owner pursuant to this Agreement, the irrevocable letter of credit shall continue to be automatically extended in the same manner as provided in sub-clause (i) hereof until the said completion of the Works.
- iii) If the Owner and/or financial institution fails to extend the letter of credit as required under sub-clauses (i) and (ii) hereof as required by the Township, such failure shall be deemed to be a breach of this Agreement by the Owner, and the Township, without notice to the Owner, may call upon any part of the whole amount of the existing letter of credit notwithstanding anything otherwise contained herein. Any amount received by the Township shall be held by the Township in the same manner as if it had originally been cash deposited.

e) Release of Performance Deposit

On completion of all matters and things to be provided and maintained by the Owner pursuant to this Agreement to the satisfaction of the Township, the Owner shall be entitled to have released to it the deposit or the balance of the deposit then held by the Township pursuant to this Agreement.

f) Partial Release of Performance Deposit

Partial release of the performance deposit may be permitted prior to final inspection and Approval as described in Clause g) below. Until final release of the performance deposit, the Owner agrees that the Township shall retain a minimum performance deposit in an amount that

is the greater of 10% of the total amount of the performance deposit required by Schedule "C", or \$50,000.00. At no time will this amount be less than the outstanding works.

g) Inspection – Release of Performance Deposit

It is hereby understood that it is the Owner's responsibility to make an application to the Director of Operations for the inspection of any completed works for which the Owner wishes the release of a Performance Deposit. The application must be submitted at least 90 days prior to the expiry of any Letter of Credit held as a Performance Deposit by the Township. Inspections for the release of a Performance Deposit will not be undertaken during winter conditions. The Township shall use all reasonable efforts to reply to requests in a timely manner.

h) Transfer of Performance Deposit

The Owner acknowledges and agrees that the Township shall hold in its possession the Performance Deposit until completion of the Works in accordance with the approved Plans to the satisfaction of the Township. The Owner covenants and agrees:

- That the Owner shall be responsible to arrange for the transfer or replacement of the Performance Deposit provided to the Township prior to the sale or transfer of the owner's lands;
- ii) That if the Performance Deposit has not been replaced prior to the sale or transfer of the Owner's lands, the Township may, to the benefit of the new registered Owner, apply the deposit for any Works as approved by the Township which have not been completed pursuant to the Plans. For this purpose, the Director of Operations is hereby authorized to call in Letters of Credit. The Township may refuse any or all necessary Building Permits until such time as a new Letter of Credit to the satisfaction of the Director of Operations, is provided by the subsequent new Owner (s). The balance of deposit held, if any, will be refunded to the original Owner who provided the deposit, upon completion of the Works to the satisfaction of the Township.

i) Taxes

The Owner shall pay all arrears of taxes outstanding against the lands prior to the execution of this Agreement. The Owner shall pay all taxes levied or to be levied on the lands on the basis of and in accordance with assessment and the collector's roll entries until such time as the lands have been reassessed and re-entered on the tax roll.

12. INSURANCE

a) The Owner shall provide before the execution of this Agreement, and continue in force until such time as all obligations under this Agreement are satisfied, a comprehensive policy of public liability and property damage insurance acceptable to the Township, providing insurance coverage in respect of any one occurrence to the limit of at least Five Million Dollars (\$5,000,000.00) per occurrence, exclusive of interest and costs against loss or damage

resulting from bodily injury to, or death of one or more persons and loss of or damage to property. Such policy shall designate the Township as a named additional insured thereunder.

- b) The policy shall provide coverage against all claims for all damage or injury including death to any person or persons, for damage to any property of the Township or any other public or private property resulting from or arising out of any act or omission on the part of the Owner or any of its servants or agents or contractors during the construction or installation or maintenance of any Works to be performed pursuant to this Agreement. The policy shall include completed operations coverage and shall be maintained in effect until all obligations under this Agreement are satisfied.
- c) The policy shall include blanket written contractual liability, cross liability, contingent employer's liability, personal injury endorsement, liability with respect to non-owned licensed vehicles. In the event that the Owner intends to carry out any shoring, blasting, excavating, underpinning, demolition, pile driving, caisson works and works below ground surface including tunnelling and grading on the lands, it shall first provide the Township with the Certificate of Public Liability Insurance covering such operations in a format satisfactory to the Township, in which the Township is named as additional insured prior to undertaking any such operations.
- d) The Owner shall forward to the Township, prior to the signing of this Agreement by the Township, a Certificate of Liability Insurance. This Certificate of Insurance shall be signed by an authorized employee of the Insurance Company providing the insurance. Such insurance policy shall contain an endorsement to provide the Township and the Owner with not less than thirty (30) days written notice of cancellation.
- e) The Owner shall furnish, prior to commencement of any construction, and at such other times as the Township may require, a certified copy of the policy together with proof of payment of the premiums for same.

RELEASE OF PLANS

The Owner hereby releases to the Township its rights to any approved drawings that form part of this Agreement, for the purposes of tendering the construction upon any default of this Agreement. The Owner shall also ensure that appropriate releases to the Township are obtained from the Owner's consultants, if required.

14. INDEMNITY

The Owner, on behalf of himself, his heirs, executors, administrators and assigns, including his successors in title; covenants and agrees to indemnify and save harmless the Township from all actions, causes of actions, suits, claims or demands whatsoever which arise directly or by reason of the development of the Site Plan and the construction and maintenance or the improper or inadequate construction and/or maintenance of Works.

15. GENERAL CONDITIONS

- a) If required, the Owner shall at its own cost submit to the Ministry of the Environment Conservation and Parks for approval all plans required by the said Ministry and shall be responsible for obtaining any subsequent approvals from the Ministry of the Environment Conservation and Parks for the proposed site works, facility or any addition thereto and shall supply the Township with copies of all approvals or conditions enforced or set by the Ministry.
- b) If required, the Owner shall at its own cost submit to the Technical Standards and Safety Authority (T.S.S.A.) for approval all plans required by said Authority and shall be responsible for obtaining any subsequent approvals from the T.S.S.A. for proposed site works, facility or any addition thereto and shall supply the Township with copies of all approvals or conditions enforced or set by the Authority.
- c) Any notice required or permitted by this Agreement to be given by the parties hereto shall be in writing and shall be conclusively deemed to have been delivered on the date of mailing of such notice.
- d) Any such notice required to be given herein shall be in writing and shall be delivered in person or by prepaid registered mail, to the attention of the Owner and/or the Township as follows:

TO THE OWNER:

ShoreLine Rail Group 1044 Hunters Lane Oxford Station, ON K0G 1T0 Attention: Clayton Jones

or such other address as the Owner has notified the Chief Administrative Officer of the Township in writing.

TO THE TOWNSHIP:

THE CORPORATION OF THE TOWNSHIP OF EDWARDSBURGH/CARDINAL 18 Centre Street
P.O. Box 129
Spencerville, ON K0E 1X0

e) All clause headings are for ease of reference only and shall not affect the construction or interpretation of this Agreement.

BINDING EFFECT; ASSIGNMENT

This Agreement shall ensure to the benefit of and be binding upon the parties hereto and their respective successors and assigns, and all covenant and agreements herein contained, assumed by, or imposed upon the Owner are deemed to be covenants which run with and bind the lands and every part thereof. This agreement may not be assigned without the prior written consent of each party.

SEVERABILITY

The invalidity or unenforceability of any particular provision of this agreement will not affect or limit the validity or enforceability of the remaining provisions.

18. EFFECTIVE DATE

This agreement is effective as of the date shown at the bottom of the first page, even if any signatures are made after that date.

COUNTERPARTS

This agreement may be signed in any number of counterparts, each of which is an original, and all of which taken together, constitute one single document. Counterparts may be transmitted by fax or in electronically scanned form. Parties transmitting by fax or electronically will also deliver the original counterpart to the other parties, but failure to do so does not invalidate this agreement.

INTERPRETATION

In construing this agreement, words in the singular shall include the plural and vice versa and words importing the masculine shall include the feminine, and the neuter and vice versa, and words importing persons shall include corporations and vice versa.

DISPUTE RESOLUTION

All matters in dispute between the parties, unless otherwise herein provided shall be determined by arbitration conducted by a single arbitrator in accordance with a submission made by either party under the Arbitration Act, 1991 S.O. 1991, CHAPTER 17. The decision of any such arbitrator shall be final and binding upon the parties, and any such arbitrator shall have the power to award costs in his or her discretion.

IN WITNESS WHEREOF the Owner hereunto set his Hand and Seal or affixed its Seal duly attested to by its proper officers in that behalf.

DATED AT THE TOWNSHIP OF EDWARDSBURGH CARDINAL

THIS 8	TH DAY OF October, 2019.
S	SIGNED, SEALED AND DELIVERED in the presence of:
_	Clays
р	er: Clayton Jones
, т	Title: President
p	per:
т	Title:
1/	We have the authority to bind the Corporation

DATED AT THE TOWNSHIP OF EDWARDSBURGH/CARDINAL THIS 15TH DAY OF _____, 2019.

SIGNED, SEALED AND DELIVERED in the presence of:

Patrick Sayeau, Mayor

Debra McKinstry, CAO/Clerk

SCHEDULE "A"

DESCRIPTION OF THE LANDS TO WHICH THIS AGREEMENT APPLIES:

3518 County Road 2;

Con 1, Pt Lot 34, 35

RP 15R9747 Parts 1, 7 and 8

TOWNSHIP OF EDWARDSBURGH/CARDINAL

Property Roll #0701 701 050 11501

Identified as Part of PIN 68155-0792 (LT)

SCHEDULE "B1" to "B7" INCLUSIVE

Being the approved drawings and plans:

Schedule "B1" - Overall Site Plan

Schedule "B2" - Stormwater Management Brief, Overall Site

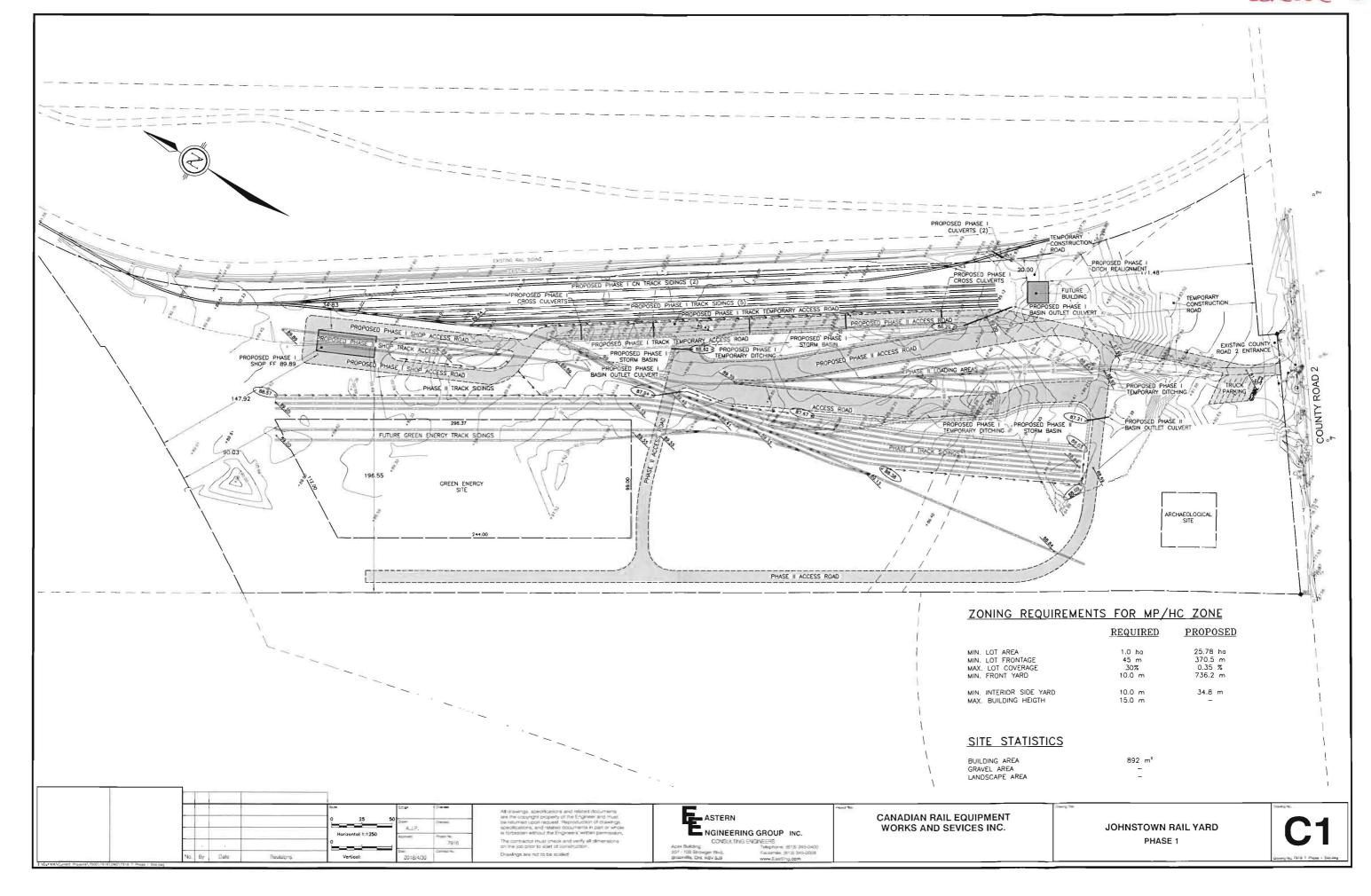
Schedule "B3" - Site Plan, Greenergy Site

Schedule "B4" - Stormwater Management Report, Greenergy Site

Schedule "B5" - Elevations

Schedule "B6" - County Road 2 Main Entrance Taper

Schedule "B7" - Fire Suppression Infrastructure







Apex Building 100 Strowger Blvd., Suite 207 Brockville, Ontario K6V 5J9 Tel: (613) 345-0400 Fax: (613) 345-0008 Web Site: www.EastEng.com

File: 7916

CREWS JOHNSTOWN RAIL YARD JOHNSTOWN, ONTARIO TOWNSHIP OF EDWARDSBURGH-CARDINAL

STORMWATER MANAGEMENT BRIEF

PROJECT

The project involves several phases of development on a former crop field which has been left unattended for many years. The site has areas of woodland, open space, wet area caused by beaver dams and exposed bedrock. The development will create a railway siding and loading area for CREWS which will service the CN Rail main line on an existing spur line to the Port of Johnstown. The site will have an asphalt truck lane which will loop around the property to give access for each phase of construction. There will be several rail lines and loading areas throughout the site. The loading areas will be stone base. There is potential for up to 3-4 additional phases on the site including a separate developed area by a separate company in the north west corner of the site. Phase 3 is unknown and assumed to be a gravel loading area for rail cars. There will be multiple small buildings on the site.

AREA

The size of the site is 25.78 ha. This currently consists of rail lines, woodland, rock outcrops and wet areas. The site's natural drainage is to the south towards the roadside ditch on County Road 2, then to the St. Lawrence River via overland flow.

The post development flow will be surface drained to the ditches and collected in storm basins around the site. The water will be controlled by elevated outlet storm pipes and subdrains. The outlet will be to the ditch on County Road 2.

The proposed asphalt area is 3.51 ha. The storm basins and ditches will be approximately 0.95 ha. The gravel loading areas for the rail cars and railway lines is 8.94 ha. The untouched green space is 9.30 ha and the unknown Phase 3-5 of the development incorporates 3.08 ha.

QUALITY CONTROL

During construction, erosion and sediment is to be contained by the installation and maintenance of a silt fence along the south portion of the site. Sediment from the runoff of the gravel areas will be

collected in the storm basins. The removal of sediment will be part of the maintenance of the stormwater measures. A treatment train will be incorporated into the stormwater management design to treat the water before reaching the outlet from the site. The current site is uncontrolled from quality and quantity aspects. All disturbed grass areas are to be reinstated with topsoil and sod in the Township right of ways.

LOT GRADING AND DRAINAGE

The Lot Grading and Drainage Plan shows the existing ground contours and the proposed grades. Proposed grades at the borders of the property match to existing ground. Lot grading is directed to swales/ditches on the site between the railway lines. The railway lines are constructed with ballast which allows for natural drainage back into the earth. The basins will also be constructed to allow water to infiltrate back into the subsoils. The asphalt area will be sloped to ditches.

RUNOFF COEFFICIENT AND STORMWATER FLOW

The existing site is not developed and has the following characteristics.

Area: 25.78 ha

Field 15.05 ha @ 0.45 Woodland 8.43 ha @ 0.25

Other 2.3 ha @ 0.3

Pre Runoff Coefficient: 0.372

The proposed site will consist of asphalt, gravel, green space and buildings along with green space and will have the following characteristics.

Area: 25.78 ha

Asphalt Area 3.51 ha @ 0.9 Storm Basins 0.95 ha @ 0.35

Gravel/Ballast 8.94 ha @ 0.45 (C for railway yards)

Natural/Landscaped 9.30 ha @ 0.35

Phase 3-5 unknow 3.08 ha @ 0.45 (railyard)

Post Runoff Coefficient: 0.47

The runoff from the site for a 5 year storm event prior to the development using City of Brockville rainfall intensities is calculated using the Modified Rationale method. We use an estimated time of concentration of 15 minutes. Rainfall intensity for 5 year storm is 84.9 mm/hr

Qpre =
$$2.78 \times C \times I \times A = 2.78 \times .372 \times 25.78 \times 84.9 = 2,251.3 \text{ L/s}$$

Qpost =
$$2.78 \times C \times I \times A = 2.78 \times .47 \times 25.78 \times 84.9 = 2,859.8 \text{ L/s}$$

There is a slight increase in runoff with the developed site and the excess storage to release at the 5 year allowable rate will be stored in the 3 storm basins. The three basins shown on the site in the preliminary design allows for up to 6,656 m3 of stormwater storage. This can be increased if necessary in final design.

The site will be designed to accommodate the 100 year storm on site and release to the predevelopment 5 year rate.

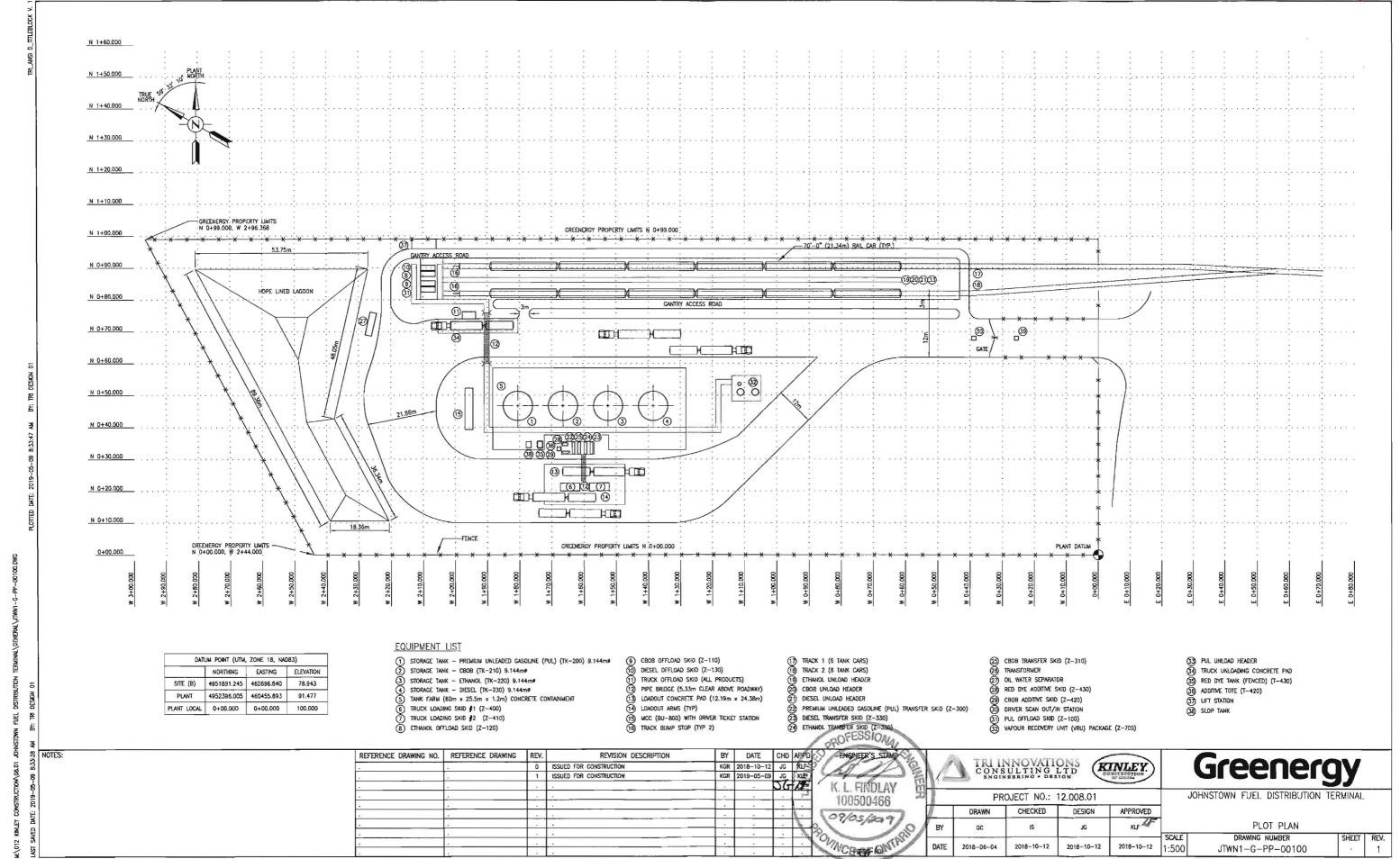
EROSION AND SEDIMENT CONTROL

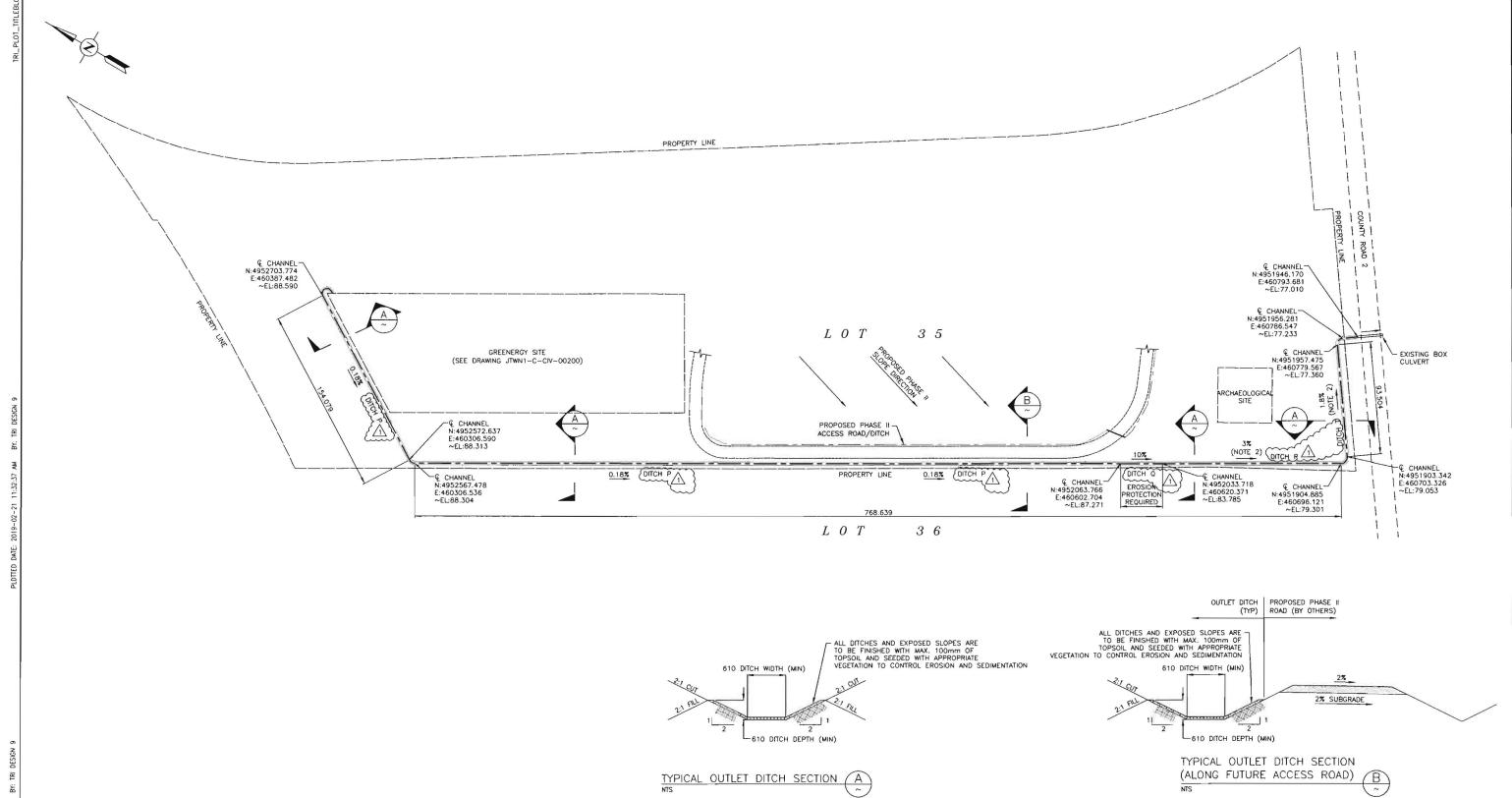
The silt fence and all other ESC measures required will be installed by the contractor as the facilities are constructed and shall remain in place with daily monitoring and maintenance until vegetative cover of disturbed areas has been re-established.

All disturbed areas are to be reinstated with topsoil and sod.



Prepared by: Eastern Engineering Group Inc. Consulting Engineers Colin Jardine, P. Eng June 15, 2018





NO	DIES:
1.	COORDINATES ARE IN METERS AND UTM, ZONE 18, NAD83 (CSRS)
2.	VELOCITY CHECK DAMS BEQUIRED FOR CHANNEL SLOPES CREATER THAN 0.5%
(FOR DAM SPACING SEE DRAWING JTWN1-C-CIV-00209
3.	FOR DAM SPACING SEE DRAWING JIWN1-C-CIV-00209 FINAL CHANNEL SLOPE AND ROUTING SHALL BE FIELD CONFIRMED.
4.	DRAINAGE OF SURROUNDING AREA TO BE MAINTAINED AND NOT IMPACTED.
5.	FUTURE SITE DEVELOPMENT CANNOT DRAIN INTO THIS CHANNEL WITHOUT
	APPROVAL FROM THE ENGINEER.
6.	OUTFLOW CHANNEL HAS BEEN SIZED FOR ADDITIONAL TEMPORARY CATCHMENT
	CAPACITY (APPROX. 2 HECTARES) UNTIL PHASE II WORK IS COMPLETED.
7.	LOT 35 AND LOT 36 GENERALLY SLOPE STRAIGHT SOUTH ALONG DIVIDING
	PROPERTY BOUNDARY.

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Greenergy

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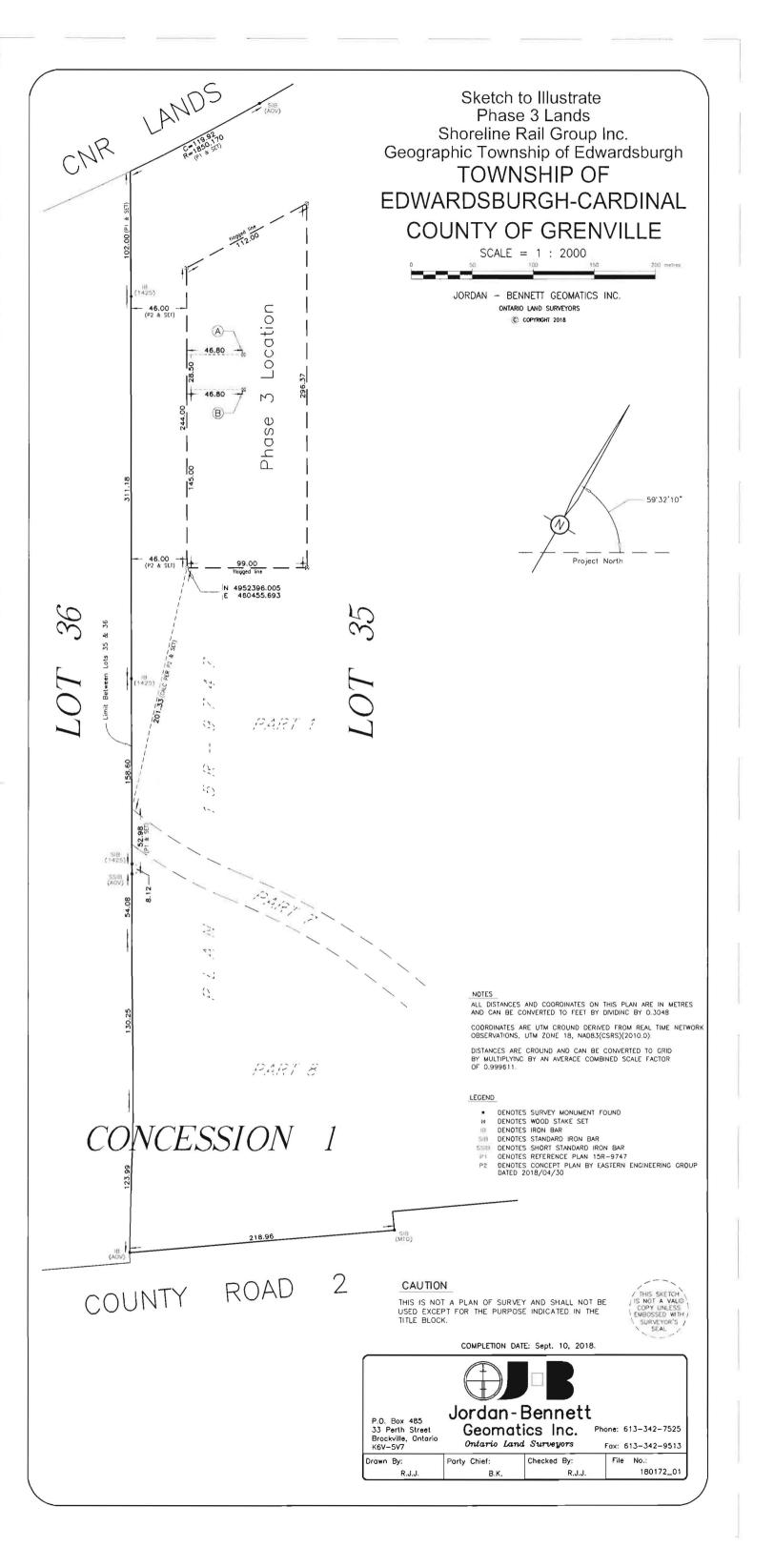
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0.18% DIRECTION AND SLOPE OF DRAINAGE









Date: 20-Feb-2019

Rev: H

Project No: 12.008.01

Greenergy

FUEL DISTRIBUTION FACILITY JOHNSTOWN, ON

STORMWATER MANAGEMENT REPORT PHASE III SCOPE OF WORK

PROJECT NO.: 12.008.01



Prepared By:



Rev	Description	Created By	Date	Reviewed By	Date	Client Rep	Date
А	Issued for Review	Dallin Blum	14-Sep-18	Jon Glaser	14-Sep-18		
В	Issued for Review	Dallin Blum	14-Oct-18	Jon Glaser	15-Oct-18		
С	Issued for Review	Dallin Blum	25-Oct-18	Jon Glaser	25-Oct-18		
D	Issued for Review	Dallin Blum	26-Nov-18	Jon Glaser	02-Dec-18		
E	Issued for Review	Dallin Blum	21-Dec-18	Jon Glaser	21-Dec-18		
F	Issued for Review	Dallin Blum	22-Jan-19	Jon Glaser	22-Jan-19		
G	Issued for Review	Dallin Blum	29-Jan-19	Jon Glaser	29-Jan-19		
Н	Issued for Review	Dallin Blum	20-Feb-19	Jon Glaser	20-Feb-19		

. Profession

Greenergy Johnstown Fuel Distribution Facility Stormwater Management Report

Date: 20-Feb-2019

Rev: H

Project No: 12.008.01

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1. Scope

1.1. Project Description

Shoreline Rail is planning to expand their fuel distribution capacity in the southern Ontario area with Phase III of their Fuel Distribution Terminal near Johnstown, Ontario, Canada. This document/design is for Phase III only, Phases I and II have been addressed in previous applications. The Phase III expansion will be designed to accommodate railcars with various products inbound and truck traffic with the same products or a blended product outbound. Kinley Construction of Canada (Kinley) will provide a turnkey solution for the construction of this project. Tri Innovations Consulting Ltd. (Tri Innovations) has been contracted to prepare the detailed engineering design. The terminal will be operated for Shoreline Rail by Canadian Rail Equipment Works & Services Inc. (CREWS).

The fuel distribution terminal will have the capability to offload Conventional Blendstock for Oxygenate Blending (CBOB), Diesel Fuel Oil (DFO), Premium Unleaded Gasoline (PUL), and Ethanol (E100) from both railcars or tanker trucks. Railcars will be unloaded via six (6) dual sided rail car unloading stations, located on two (2) new rail spur lines, for a total of twelve (12) railcar unloading spots. Trucks will be unloaded via one (1) truck offloading station. All products will be offloaded into dedicated storage tanks located on site. From the storage tanks the product will either be blended and loaded or directly loaded into trucks for local distribution, via two (2) truck loading stations.

1.2. Background

This study has been prepared on behalf of Kinley to address the stormwater management requirements for the proposed development. This is a Green Field Facility. The purpose of this report is to outline how the drainage design will not adversely impact the overall drainage of the site and surroundings.

1.3. Objectives

- 1) Detect any potential impacts the development runoff may have on downstream watercourses.
- 2) Meet the requirements of the review agencies regarding both quantity and quality of the surface runoff.
- Create a safe, reliable, and effective overall drainage strategy for the facility.

2. Site Drainage Summary

2.1. Existing Site Drainage

The current Phase III site (Fig 1 - shown in white below) is green field and is approximately 2.65 hectares and has a composite runoff coefficient of 0.3 (for rolling meadows/pasture land).



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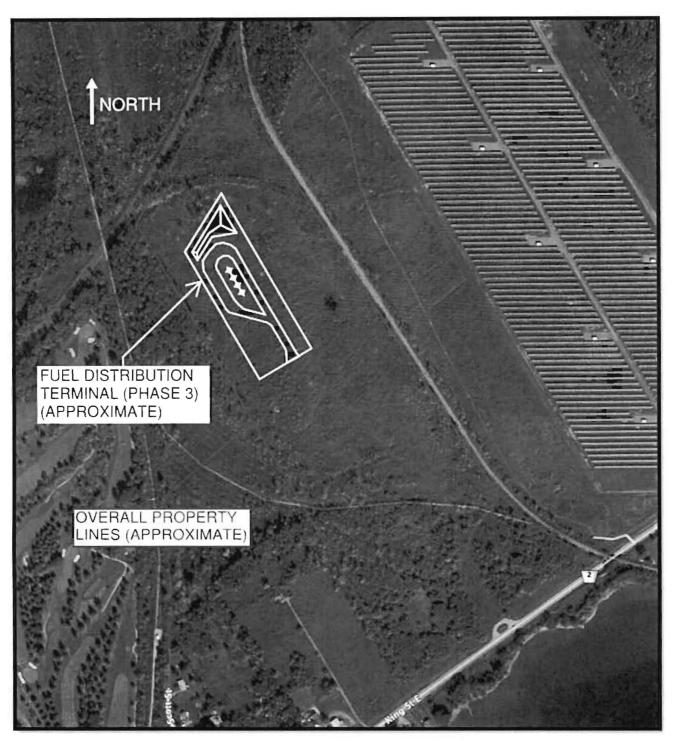


Figure 1 - Site Overview



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2.2. Proposed Site Drainage

The Owner plans to develop the property based on the description in Section 1. There is no municipal stormwater sewer on the property, so all surface runoff will be managed on site with the proposed infrastructure in this report. The site will have a synthetically lined surface runoff pond on lease, located at the natural low point of the site. This pond will be owned by Shoreline Rail Group and operated by CREWS as stated in Section 1. All the developed space on the lease will drain to this pond. Any undeveloped areas (currently total approximately 0.4 hectares) will be permitted to bypass this pond and enter the downstream ditch unimpeded. The pond is however adequately sized to manage these areas if they are developed in the future and directed toward the pond. No off-lease surface runoff is permitted to enter the pond catchment area. To ensure this, a collector ditch has been placed along the South and West site boundaries that intercept any off-site water and direct it around the facility. Additionally, the site is locally higher in elevation than its surroundings and this naturally prevents any off-site water from running onto the lease

A series of ditches and culverts will collect stormwater from the developed lease and deliver it to the pond.

Any stormwater that falls in more spill sensitive locations will be directed through one of two oil water separators (OWS) before entering the pond. The following areas (Fig 2 - highlighted in red) will pass through the OWS with the current design:

- 1) Track pan footprint
- 2) Asphalt housekeeping pad between rail tracks
- 3) Truck loadout slabs
- 4) Equipment slabs
- 5) Secondary containment area

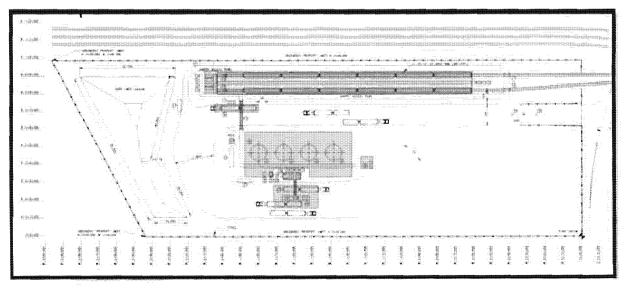


Figure 2



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The rail area access roads are too low in elevation to gravity drain to the pond. Any surface runoff from that area will be directed to an open ditch then flows to a small lift station that will direct the water into the pond. The pump is adequately sized (minimum flow rate of 0.003 m³/s or 48 GPM) to meet the 1:25 year, 15 minute rainfall event in conjunction with the available ditch storage upstream. In the event of pump failure, the ditch is adequately sized to hold the entire volume of the rainfall event.

The pond will be equipped with both an overflow pipe and a contingency overflow ditch that enters the bypass ditch which carries the non-developed runoff to the main site outlet. The outlet of this site enters directly into an outflow channel that flows directly to an existing box culvert at the South end of the property. The collection ditch will be owned by Shoreline Rail Group and operated by CREWS as stated in Section 1. The outflow channel is oversized to carry the site pump out flow rates mentioned below in Section 3. The outflow channel will not be required during design rainfall events and will only receive flow during pond pump out, which will not coincide with rainfall events (refer to dwg # JWTN1-C-CIV-00208). It should be noted that the high-level overflow pipe chokes the flow rate exiting the pond to less than the calculated pre-development flow rate for the site as will be further explained below. The contingency overflow channel is not meant for use in normal operation and its only purpose is to control the location of an overflow in the event all of the design flow rates and storage capacities are exceeded.

3. Site Drainage Calculations

The Short Duration Rainfall IDF data was obtained for Johnstown, Ontario (Appendix F). The following pre-development flow rates were calculated based on the lease area of 2.65 ha, and a runoff coefficient of 0.3 (for rolling meadows/pasture land).

Pre-Development Runoff Data					
Return Period (years)	Duration (min)	Rainfall Intensity (mm/hr)	Multiplier (Factor)	Peak Flow Rate (m³/s)	Volume (m³)
2	5	114.7	1.00	0.254	76
2	1440	2.2	1.00	0.005	420
5	5	152.8	1.00	0.338	101
3	1440	2.9	1.00	0.006	554
10	5	177.2	1.00	0.392	118
10	1440	3.4	1.00	0.008	650
25	5	209.0	1.10	0.508	152
25	1440	4.0	1.10	0.010	841
F0	5	231.7	1.20	0.615	184
50	1440	4.4	1.20	0.012	1009
100	5	255.0	1.25	0.705	211
100	1440	4.9	1.25	0.014	1170



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The following post-development flow rates were calculated based on the 2.65 ha, and a composite runoff coefficient of 0.84 (based on the developed lease surface finishes).

	Р	ost-Development Runo	ff Data (Into Pond)	
Return Period (years)	Duration (min)	Rainfall Intensity (mm/hr)	Multiplier (Factor)	Peak Flow Rate (m³/s)	Volume (m³)
2	5	114.7	1.00	0.710	213
	1440	2.2	1.00	0.014	1177
5	5	152.8	1.00	0.946	284
	1440	2.9	1.00	0.018	1551
10	5	177.2	1.00	1.097	329
	1440	3.4	1.00	0.021	1819
25	5	209.0	1.10	1.423	427
	1440	4.0	1.10	0.027	2353
50	5	231.7	1.20	1.721	516
	1440	4.4	1.20	0.033	2824
100	5	255.0	1.25	1.973	592
	1440	4.9	1.25	0.038	3276

Because the post-development runoff flow rates are greater than the pre-development flow rates, the surface runoff pond captures all the runoff for the developed site. The post-development runoff flow rate leaving the pond will be equal to 0.00 m³/s for any storm of less than 3,160 m³ (which is the design capacity of the pond). In addition, because of the overflow design, any storm with total volume greater than 3,160 m³ and less than 3,680 m³ will be choked back to a flow rate of 0.013 m³/s as it leaves the pond. This can be illustrated in the table below:

Return Period (years)	Duration (min)	Peak Flow Rate into Pond (m³/s)	Volume into Pond (m³)	Peak Flow Rate Out of Pond (m³/s)	Volume Out of Pond (m³)
2 -	5	0.710	213	0.000	0
	1440	0.014	1177	0.000	0
5	5	0.946	284	0.000	0
	1440	0.018	1551	0.000	0
10	5	1.097	329	0.000	0
	1440	0.021	1819	0.000	0
25	5	1.423	427	0.000	0
	1440	0.027	2353	0.000	0
50	5	1.721	516	0.000	0
	1440	0.033	2824	0.000	0
100	5	1.973	592	0.000	0
	1440	0.038	3276	0.013	116



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The surface runoff will all be contained within the pond (described below) and the runoff will be tested prior to release. As shown above, the rate of release from the pond during a rainfall event will be kept to less than the 2, 5, and 100-year pre-development flow rates.

The facility operational procedure will stipulate a maximum flow rate for the portable pump that is used during facility operations of 0.045 m³/s, however the pump will not be operated in conjunction with a rainfall event. Additionally, the pond outfall pipe flow rate is choked back to 0.013 m³/s so under no normal operational circumstances will the pre-development runoff rates be exceeded during post-development conditions.

The approximate rainfall intensity, from the Johnstown Short Duration Rainfall IDF data, is 117.6 mm/24hr (4.9 mm/hour) for the 1:100 year return design storm (IDF data was downloaded from Ministry of Transportation website and can be found in Appendix E). Using the Modified Rational Method for calculating the maximum stormwater run-off rate for the outfall, for the 1:100 year storm, we obtain the following:

$Q = Cf \times C \times I \times A$

Where:

- Cf = Run-Off Coefficient Adjustment Factor:
 - 1.0 (for the 1:2, 1:5, & 1:10 year storm events)
 - 1.1 (for the 1:25 year storm event)
 - 1.2 (for the 1:50 year storm event)
 - 1.25 (for the 1:100 year storm event)
- C = Rational Method Runoff Coefficients = 0.8 for graveled area, 0.9 for building roof, 0.9 for asphalt, 0.9 for containment areas, 1.0 for the pond footprint, and 0.8 for unimproved area (weighted composite value for this site is 0.84, note that a value of 0.8 was carried for the unimproved areas of the site to account for the possibility of future development)
- I = Intensity of Rainfall for Johnstown = 117.6mm/24hours (4.9 mm/hour) (average rainfall intensity for 1:100 year 24-hour storm)
- A = Total Drainage Area = 2.65 ha

Total volume to be contained on site (Q applied over 24 hour period) = 3276 m³

The actual pond has been designed to hold a volume of 2,824 m³ (1:50 year 24 hour storm, this value is actually 3,160 m³ including freeboard and sediment allowance). Once the 1:50 year, 24 hour capacity is exceeded and the freeboard/sediment allowance used up, the operating water level will reach the choked HDPE pipe overflow designed to limit the overflow rate to 0.013 m³/s, which is less than the 1:100 year, 24 hour predevelopment flow rate listed in the above table. The pond is also equipped with a controlled contingency overflow sized for a 1:100 year 15 minute rainfall event. This contingency outfall is above the 1:100 year, 24 hour water level and is only in place to control the overflow location in the event that a 1:100 year 24 hour volume is exceeded.



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The flow rate through this contingency overflow would exceed any pre-development flow rates listed above and is not meant for use during normal facility operation.

The correct operational procedure for the pond is to test accumulated runoff and release (if test results are acceptable) immediately after the operating water level in the pond reaches 1.5m deep. At this depth, the pond can still accept a 1:50 year, 24 hour rain event without releasing any runoff. As mentioned earlier, a portable pump will be used to empty the pond by the facility operators.

All site ditches and culverts are designed to a 1:25 year, 15 minute rainfall event.

The sub-grade drain headers and oil water separators are designed to a 1:10 year, 60 minute rainfall event. The North OWS will be sized for a minimum flow rate of 0.015 m³/s. The South OWS will be sized for a minimum flow rate of .014 m³/s (ZCL model # COWS-1630 have been selected for this application. Refer to product datasheet in Appendix I).

4. Flow Velocity Summary

The flow velocity calculations are summarized in Appendix H.

The ditch flow velocities within the Phase III area range from 0.5 m/s to 2.7 m/s. All these ditches will be seeded. Because of the low flow velocities, erosion control measures (check dams) are only necessary in ditches C & F.

The ditch flow velocities in the outfall channel between the Phase III area and the discharge location range from 0.7 m/s to 5.0 m/s. All of these ditches will be seeded. Open ditches with a flow rate greater than 1.2 m/s will be equipped with velocity check dams as shown on the project drawings. The exception is ditch Q (slope of 10%), which will have a full RIPRAP layer to prevent erosion.

5. TSS (Total Suspended Solids) Removal

The normal operation of this facility will not be a contributor to TSS aside from the standard dust and granular material that would be expected at a facility of this nature. The main risks associated with the facility operations are mitigated by the oil water separators strategically located on the site. The primary water quality treatment plan for TSS removal is a combination of prevention and sedimentation/settling. The proposed water quality treatment will remove 80% TSS (Total Suspended Solids) by implementing the following design features:

1) The entire site will have at least one of the following surface treatments, no areas will be stripped and left expose post-construction:



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- a. Compacted gravel driving surface
- b. Synthetically lined pond
- c. Cast-in-place concrete to low point drain
- d. Seeded/mulched
- 2) Catch basins will be installed upstream of sediment sensitive equipment (oil water separators) and will be regularly maintain by the facility operations group.
- 3) All ditches and exposed cut/fill slope will be seeded/mulched after construction
- 4) Synthetically lined surface runoff pond acts as final layer of protection against suspended solids leaving the site. The pond outlet is on the opposite side as the inlets and the water will be tested prior to controlled release. The detention time in the pond will be increased if the test results show higher than acceptable TSS. If the test results continue to be outside of acceptable limits, the water will be treated on site or hauled away to be treated offsite. If the test results are acceptable, the operational procedure will be to draw from near the water surface, preventing the settled solids from being drawn up through the pump and discharged downstream.

6. Sediment and Erosion Control Plan

The sediment and erosion control plan on the site will be managed in the following ways:

- Silt fences will be installed around all soil stockpiles (OPSD 219.130).
- Seed and mulch application will be applied on stockpiles and exposed slopes once final grades are met.
- Exposed ditches will be seeded to control erosion. Where ditch flow velocities are to high, check dams will be installed.
- RIPRAP all culverts inverts and ditch direction changes > 45°(OPSD 810.020).
- Catch basins upstream of both oil water separators (OPSD 701.010).

During construction, the contractor (Kinley Construction of Canada) will adhere to their maintenance and inspection plan, which involves daily visual inspections and weekly written inspections for the equipment and work areas. Equipment will be kept clean and will be washed regularly, and prior to removal from site. For regular facility operations (post-construction), the operator will produce a maintenance and inspection plan. It will be written into the operational procedure for the facility to perform daily inspections and weekly written inspections, similar to those performed during construction. These will be performed by CREWS (refer to Section 1).

In addition to the measures listed above, please refer to attached Erosion Control and Sedimentation Plan (drawing # JWTN1-C-CIV-00207, Sheet 1 & 2, located in Appendix D). Please note this is considered a "living document" which may be modified in the event that the control measures are or become insufficient.



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7. Conclusion

The post-development runoff for the facility is less than the pre-development runoff and all site runoff is directed into a synthetically lined surface runoff pond on lease that has been sized to store a 1:50 year, 24 hour rainfall event based on the IDF curve data for Johnstown, ON. The pond is also designed to manage a 1:100 year, 24 hour rainfall event without exceeding the pre-development runoff conditions. All drainage infrastructure, both surface and subsurface, has been designed to meet the appropriate flow rates. Any areas on site where a product spill potential exists are contained on concrete slabs and directed through an OWS via impermeable piping systems.

We trust this report satisfies the requirements for managing stormwater and erosion/sediment control for the authorities having jurisdiction.



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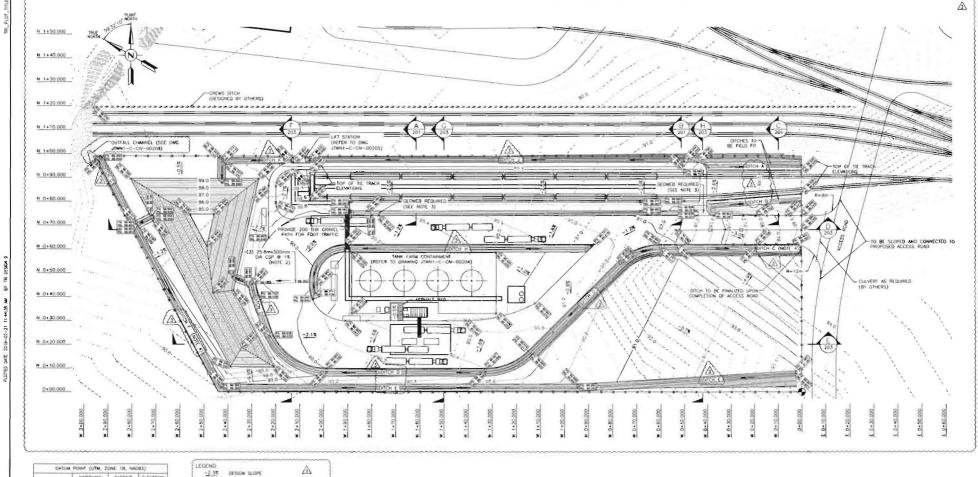
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Appendix A – Overall Grading Plan

Tri Innovations Drawing JTWN1-C-CIV-00200



LECEND

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-2.3% DESIGN SLOPE

-2.3% DESIGN CONTIGUES 0.2% INTERVAL

RG2 CXISTING CONTIGUES 0.2% INTERVAL

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	BOTTOM LIFT OF APPROACHES TO BE 150 THE PRESTO GEOWER (OR APPROVED ALTERNATE), CELE FILLED WITH COMPACTED SUBBALLAST MATERIAL FOR SLOPE STABILIZATION (ONLY REQUIRED ON STEEP GANTRY ACCESS ROAD
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4.	VELOCITY CHECK DAMS REQUIRED FOR DITCHES C & F. FOR DAM SPACING SEE DRAWING UTWN1-C-CIV-00208.

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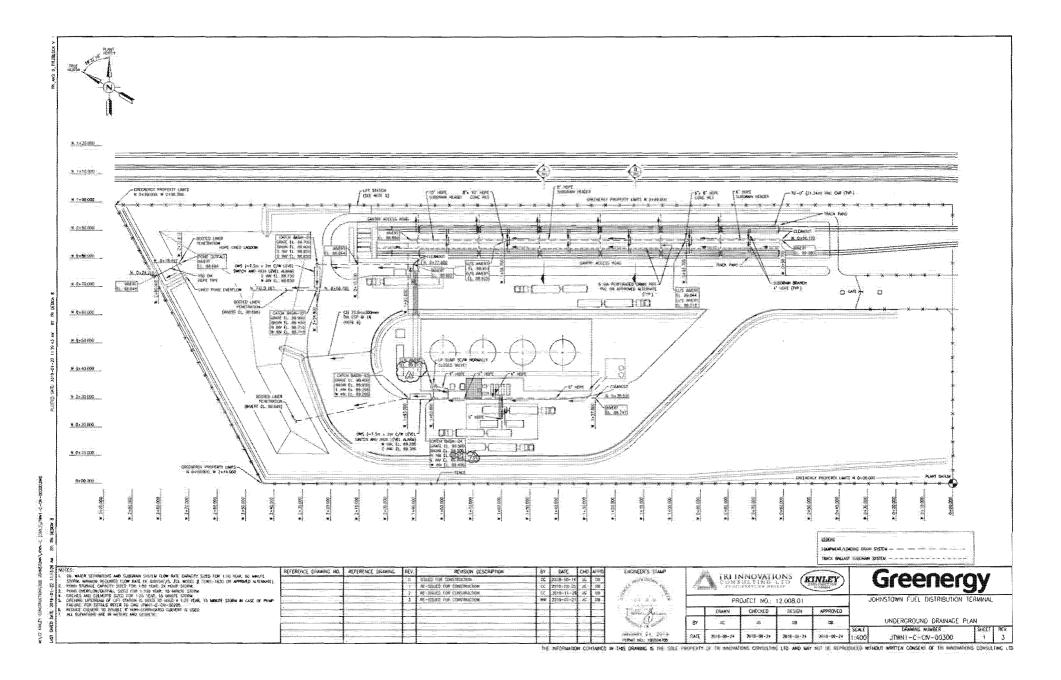
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Project No: 12.008.01

Appendix B – Underground Drainage Plan

Tri Innovations Drawing JTWN1-C-CIV-00300





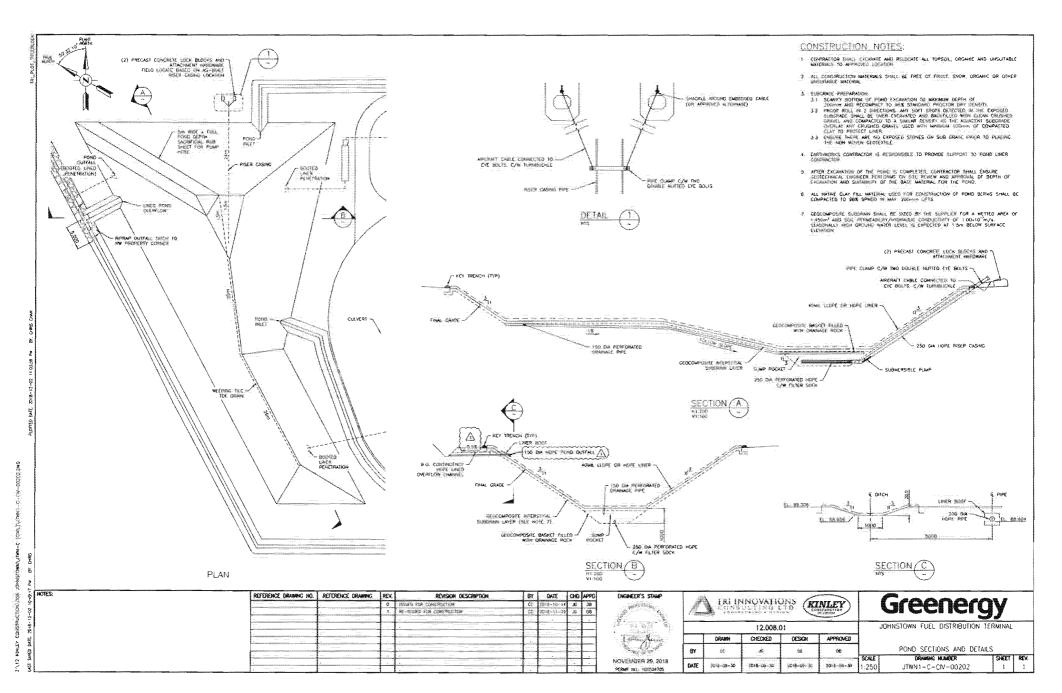
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Appendix C - Pond Sections and Details

Tri Innovations Drawing JTWN1-C-CIV-00202





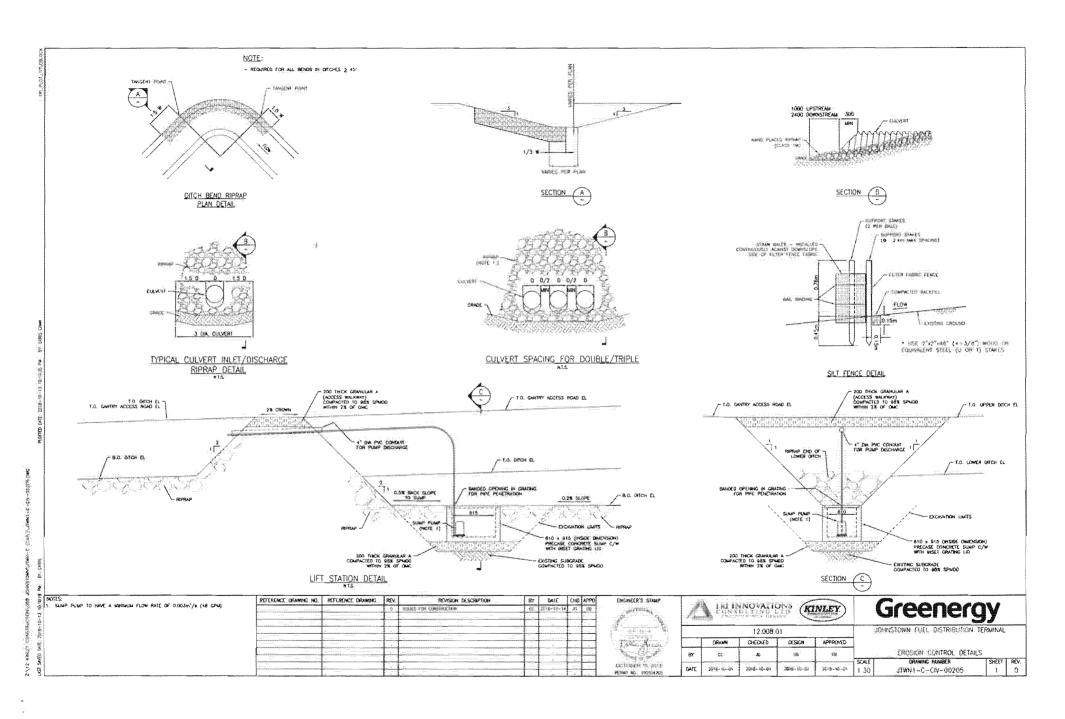
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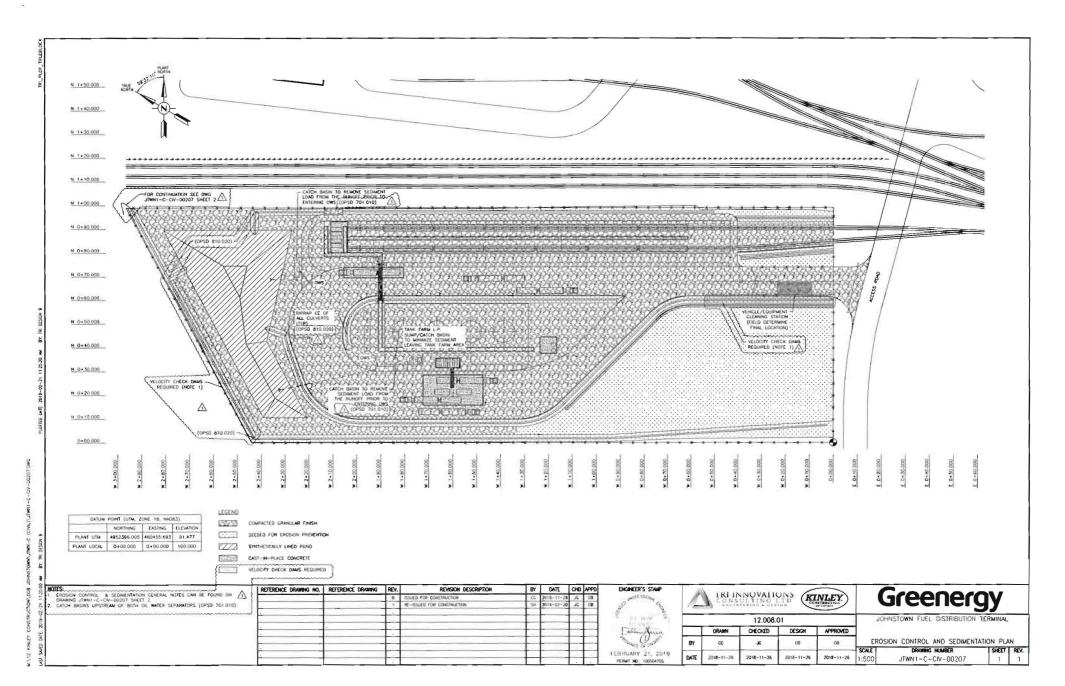
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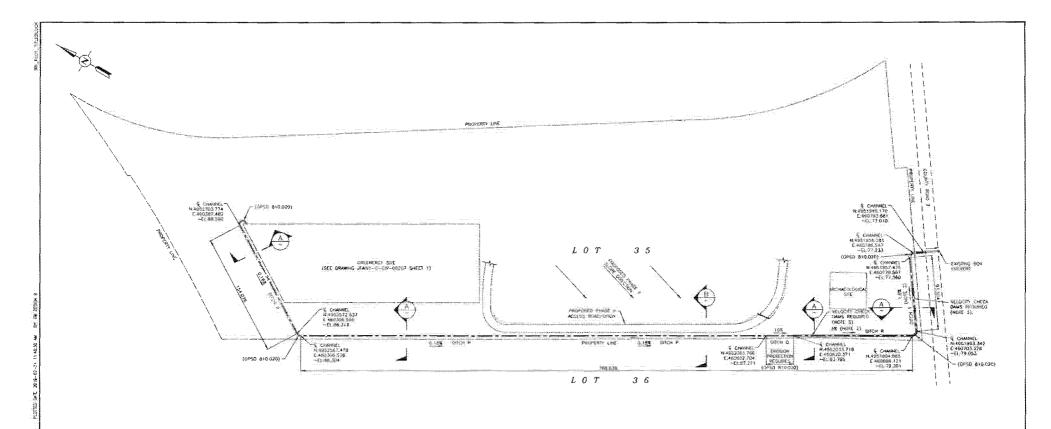
Project No: 12.008.01

Appendix D – Erosion Control and Sedimentation Plan

Tri Innovations Drawing JTWN1-C-CIV-00205
Tri Innovations Drawing JTWN1-C-CIV-00207 SHEET 1
Tri Innovations Drawing JTWN1-C-CIV-00207 SHEET 2
Tri Innovations Drawing JTWN1-C-CIV-00209







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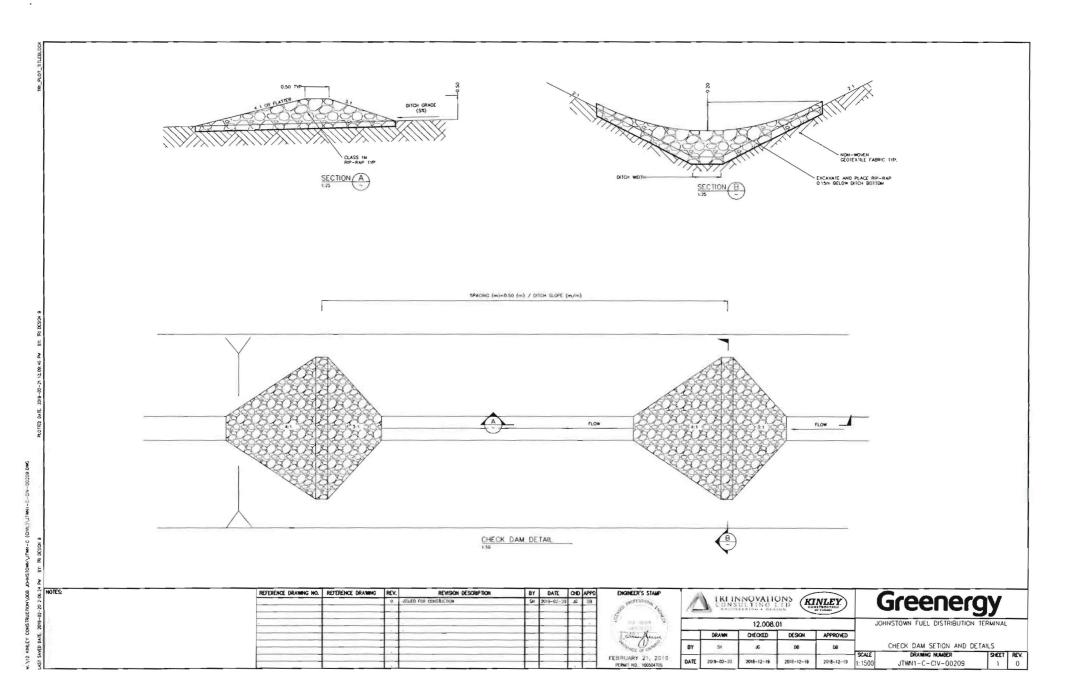
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JOHNSTOWN FUEL DISTRIBUTION TERMINAL 12.008.01 CHECKED DESIGN APPROVED

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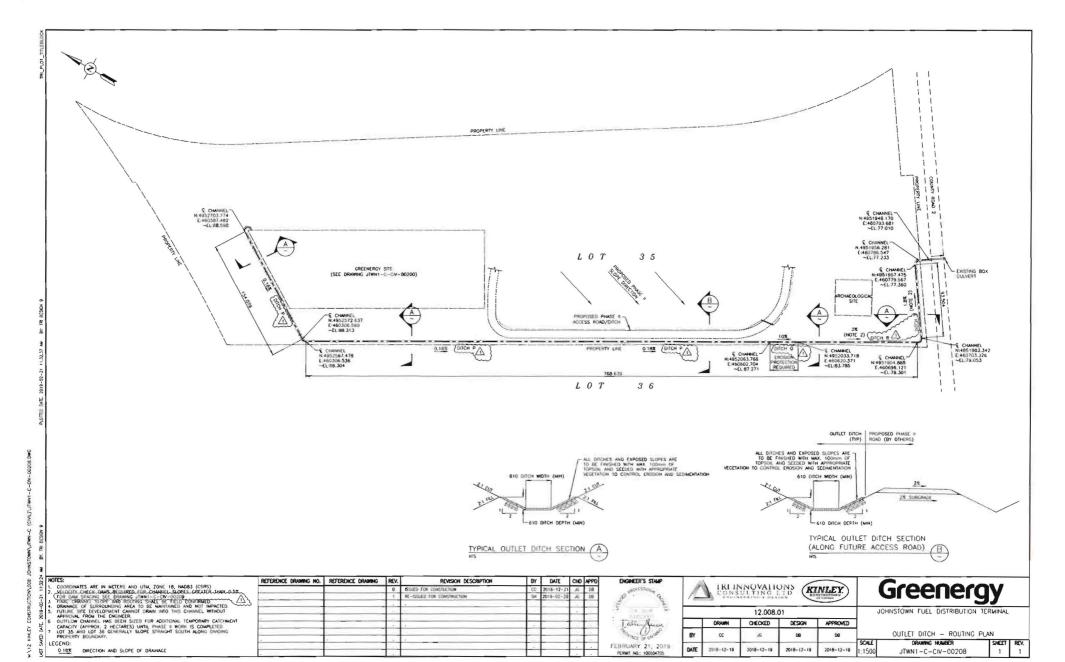


Date: 20-Feb-2019 Rev: H

Project No: 12.008.01

Appendix E – Outlet Ditch Routing Plan

Tri Innovations Drawing JTWN1-C-CIV-00208





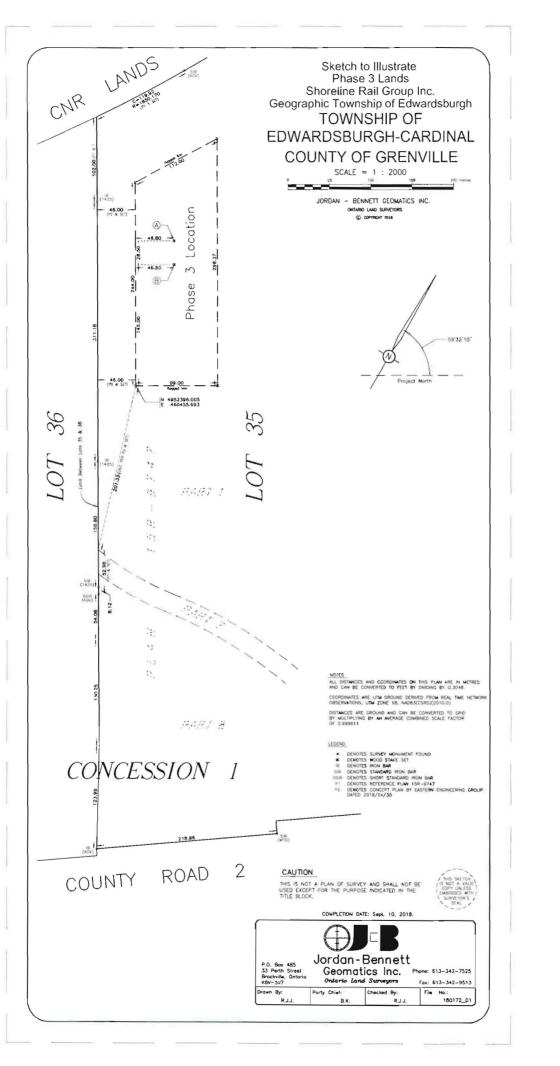
Date: 20-Feb-2019

Rev: H

Project No: 12.008.01

Appendix F – Survey of Surrounding Area

Jordan-Bennett Geomatics Survey 180172-01





Date: 20-Feb-2019

Rev: H

Project No: 12.008.01

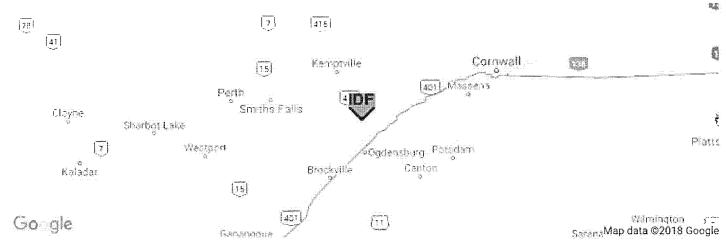
Appendix G - IDF Curve Data

Ontario IDF CURVE LOOKUP

Active coordinate

44° 49' 15" N, 75° 30' 14" W (44.820833,-75.504167)

Retrieved: Wed, 13 Jun 2018 17:15:51 GMT



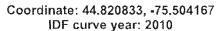
Location summary

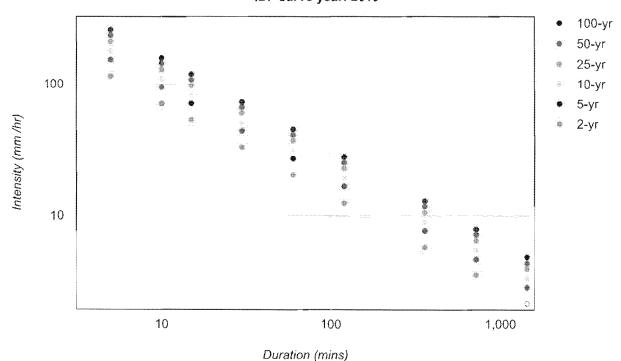
These are the locations in the selection.

IDF Curve: 44° 49′ 15" N, 75° 30′ 14" W (44.820833,-75.504167)

Results

An IDF curve was found.





Coefficient summary

IDF Curve: 44° 49' 15" N, 75° 30' 14" W (44.820833,-75.504167)

Retrieved: Wed, 13 Jun 2018 17:15:51 GMT

Data year: 2010 IDF curve year: 2010

Return period	2-yr	5-yr	10-yr	25-yr	50-yr	100-yr
Α	20.2	26.9	31.2	36.8	40.8	44.9
В	-0.699	-0.699	-0.699	-0.699	-0.699	-0.699

Statistics

Rainfall intensity (mm hr⁻¹)

Duration	5-min	10-min	15-min	30-min	1-hr	2-hr	6-hr	12-hr	24-hr
2-yr	114.7	70.7	53.2	32.8	20.2	12.4	5.8	3.6	2.2
5-yr	152.8	94.1	70.9	43.7	26.9	16.6	7.7	4.7	2.9
10-yr	177.2	109.2	82.2	50.6	31.2	19.2	8.9	5.5	3.4
25-yr	209.0	128.8	97.0	59.7	36.8	22.7	10.5	6.5	4.0
50-yr	231.7	142.8	107.5	66.2	40.8	25.1	11.7	7.2	4.4
100-yr	255.0	157.1	118.3	72.9	44.9	27.7	12.8	7.9	4.9
Rainfall depth (mn	1)								
Duration	5-min	10-min	15-min	30-min	1-hr	2-hr	6-hr	12-hr	24-hr

Duration	5-min	10-min	15-min	30-min	1-hr	2-hr	6-hr	12-hr	24-hr
2-yr	9.6	11.8	13.3	16.4	20.2	24.9	34.6	42.7	52.6
5-yr	12.7	15.7	17.7	21.8	26.9	33.1	46.1	56.8	70.0
10-yr	14.8	18.2	20.6	25.3	31.2	38.4	53.5	65.9	81.2
25-yr	17.4	21.5	24.2	29.9	36.8	45.3	63.1	77.7	95.8
50-yr	19.3	23.8	26.9	33.1	40.8	50.3	70.0	86.2	106.2
100-yr	21.3	26.2	29.6	36.4	44.9	55.3	77.0	94.9	116.9

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Ontario Ministry of Transportation | Terms and Conditions | About Last Modified: September 2016

http://www.mto.gov.on.ca/IDF_Curves/results_out.shtml?coords=44.822931,-75.506063



Date: 20-Feb-2019

Rev: H

Project No: 12.008.01

Appendix H – Ditch Flow Velocity Summary



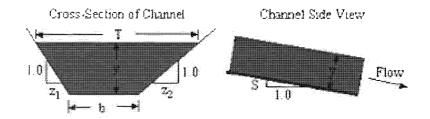
Date: 20-Feb-2019 Rev: H Project No: 12.008.01

		Phase	e III Area:		AND THE PROPERTY OF THE PROPER
Ditch ID#	Clana (0/)	Flow Velocity	Flow Velocity	Surface	Valority Cantral
(Appendix A)	Slope (%)	(m/s)	(ft/s)	Treatment	Velocity Control
А	0.0028	0.8	2.8	Seeded	Not Required
В	0.0028	0.8	2.8	Seeded	Not Required
C	0.0028	2.7	8.7	Seeded	Check Dams
D	0.006	1.2	4.0	Seeded	Not Required
E	0.006	1.2	4.0	Seeded	Not Required
F	0.01	1.6	5.2	Seeded	Check Dams
G	0.0011	0.5	1.7	Seeded	Not Required
Н	0.006	1.2	4.0	Seeded	Not Required
J	0.002	0.7	2.3	Seeded	Not Required
К	0.002	0.7	2.3	Seeded	Not Required

Outfall Cl	nannel f	rom Phase	III Area to	Discharg	ge Location:
Ditch ID#	Slope (%)	Flow Velocity	Flow Velocity	Surface	Velocity Control
(Appendix B)	Slope (%)	(m/s)	(ft/s)	Treatment	velocity control
Р	0.0018	0.7	2.2	Seeded	Not Required
Q	0.1	5.0	16.5	RIPRAP	Not Required
R	0.0300	2.8	9.0	Seeded	Check Dams
Т	0.018	2.1	7.0	Seeded	Check Dams

Permissible Velocities for Chann	ale Linad wi	th Grass ISCS	10/11
Terrasione velocities for Gright	Slope	Permissible vi	
Cover	range.	Eroson mantant	Earsty months
	%	5005	\$00°S
Bermuda grass	0 - 5	8	6
Ť	5 - 10	7	5
	> 10	6	4
Buffalo grass, Kentucky bluegrass,	0-5	7	5
smooth brome, blue grama	5 - 10	6	4
·	> 10	5	3
Grass mixture	0 - 5	5	4
900742	5 - 10	4	3
	Do not use on	slopes sleeper than	10%
Lespedeza sericea, weeping	0 - 5	3.5	25
love grass, ischaemum (yellow	Do not use on	stopes steeper than	i 5%
bluestem), kudzu, alfalfa, crabgrass	except for side	slopes in a combin	ation channe
Annuals - used on mild slopes or	0-5	3.5	2.5
as tempory protection until permanent	Use on slopes	steeper than 5% is	not
covers established, common	recommended		

Material	Manning n	
Exeavated Earth Channels		
Clean	0.022	
Gravelly	0.025	
Weedy	0.030	***************************************
Stony, Cobbles	0.035	



Variables [] indicates dimensions. [L]=Length, [T]=Time.

To calculation

- $A = \text{Flow cross-sectional area, determined normal (perpendicular) to the bottom surface [L^2].}$
- b = Channel bottom width [L].
- F = F from number. F is a non-dimensional parameter indicating the relative effect of inertial effects to gravity effects. River flows with $F \le I$ are low velocity flows called subcritical. $F \ge I$ are high velocity flows called supercritical. Subcritical flows are controlled by downstream obstructions while supercritical flows are affected by upstream controls. F = I flows are called critical.
- g \neq acceleration due to gravity = 32.174 ft/s² = 9.8066 nt/s², g is used in the equation for Froude number.
- k = unit conversion factor = 1.49 if English units = 1.0 if metric units. Our software converts all inputs to SI units (meters and seconds), performs the computations using k=1.0, then converts the computed quantities to units specified by the user.
- n = Manning coefficient, n is a function of the channel material, such as grass, concrete, earth, etc. Values for n can be found in the table of Manning's n coefficients shown below.
- P = Wetted perimeter {L]. P is the contact length between the water and the channel bottom and sides.
- O = Discharge or flow rate [L³/T].
- R = Hydraulic radius of the flow cross-section [L].
- S = Slope of channel bottom or water surface [L/L]. Vertical distance divided by horizontal distance.
- T = Top width of the flowing water [L].
- V = Average velocity of the water [L/T].
- y = Water depth measured normal (perpendicular) to the bottom of the channel [L]. If the channel has a small slope (S), then using the vertical depth introduces only minimal error.
- z_L z₂ = Side slopes of each bank of the channel. These slopes are computed as horizontal distance divided by vertical distance.
- θ = Angle formed by S.

$$Q=VA \qquad V = \frac{k}{n}R^{2/3}S^{1/2} \qquad R = \frac{A}{P} \qquad A = \frac{y}{2}(b+T)$$

$$P = b + y\left(\sqrt{1 + z_1^2} + \sqrt{1 + z_2^2}\right) \qquad T = b + y(z_1 + z_2)$$

$$F = V\sqrt{\frac{T}{gA\cos\theta}} \qquad \theta = Tan^{-1}(S)$$

Ditch ID#	А		Ditch ID#	В	Ditch ID#	С	Ditch ID#	D	Ditch (D#	E		Ditch ID#	F		Ditch ID#	G	
Inputs			Inputs		Inputs		Inputs		Inputs			Inputs			Inputs		
А	1.08	m²	A	1.08 m ²	A	1.08 m ²	А	1.08 m ²	A	1.08	m²	A	1.08	m ²	A	1.08	m ²
b	0.6	m	b	0.6 m	b	0.6 m	b	0.6 m	b	0.6	m	b	0.6	m	b	0.6	m
F	0.06	N/A	F	0.06 N/A	F	#NUM! N/A	F	0.09 N/A	F	0.09	N/A	F	0.12	N/A	E	0.04	N/A
5	9.81	m/s²	g	9.81 m/s ²	g	9.81 m/s ²	g	9.81 m/s²	g	9.81	m/s²	в	9.81	m/s ²	g	9.81	m/s ²
<	1 1	N/A	k	1 N/A	k	1 N/A	k	1 N/A	k	1	N/A	k	1	N/A	k	1	N/A
n	0.03	N/A	n	0:03 N/A	n	0.03 N/A	n	0.03 N/A	n	0.03	N/A	n	0.03	N/A	n	0.03	N/A
)	3.28	m	p	3.28 m	p	3.28 m	P	3,28 m	Р	3.28	m	P	3.28	m	P	3.28	m
2	0.91	m³/s	Q	0.91 m³/s	Q	2.87 m ³ /s	Q	1.33 m³/s	Q	1.33	m³/s	Q	1.71	m³/s	Q	0,56	m³/s
}	0.33 r	m	R	0.33 m	R	0.33 m	R	0.33 m	R	0.33	m	R	0.33	m	R	0.33	m
r.	0.0028	m/m	S	0.0028 m/m	S	0.0279 m/m	S	0.0060 m/m	S	0.0060	m/m	S	0.0100	m/m	S	0.0011	m/m
	3 r	m	T	3 m	T	3 m	T	- 3 m	T	3	m	T	3	m	T	3	m
′	0.8 r	m/s	V	0.8 m/s	V	2.7 m/s	V	1.2 m/s	V	1.2	m/s	V	1,6	m/s	V	0.5	m/s
1	2.8 f	ft/s	V	2.8 ft/s	V	8.7 ft/s	V	4.0 ft/s	V	4,0	ft/s	٨	5.2	ft/s	V	1.7	ft/s
	0.6 r	m	Y	0.6 m	у	0.6 m	У	0.6 m	У	0,6	m	y	0.6	m	У	0.6	m
1	2 r	m/m	z1	2 m/m	z1	2 m/m	Z1	2 m/m	z1	2	m/m	z1	2	m/m	z1	2	m/m
2	2 r	m/m	z2	2 m/m	22	2 m/m	z2	2 m/m	z2	2	m/m	22	2	m/m	z 2	2	m/m
)	0.16	deg	Θ	0.16 deg	Θ	1.60 deg	6	0.34 deg	0	0.34	deg	0	0.57	deg	Θ	0.06	deg

Ditch ID#	н	Ditch ID#	J	Ditch ID#	κ	Ditch ID#	þ		Ditch ID#	Q		Ditch ID#	R	Ditch ID#	T
Inputs		Inputs		Inputs		Inputs		-	Inputs			Inputs		Inputs	
А	1.08 m ²	A	1.08 m ²	A	1.08 m ²	Α	1.08	m²	Α	1.08	m²	Α	1.08 m ²	A	1.08 m²
b	0.6 m	b	0.6 m	b	0.6 m	b	0.6	m	b	0.6	m	b	0.6 m	b	0.6 m
F	0.09 N/A	F	0.05 N/A	F	0.05 N/A	F	0.05	N/A	F	0.39	N/A	F	#NUM! N/A	F	0.21 N/A
g	9.81 m/s ²	g	9.81 m/s ²	g	9.81 m/s ^z	g	9.81	m/s ²	g	9.81	m/s ²	g	9.81 m/s ²	g	9.81 m/s ²
k	1 N/A	k	1 N/A	k	1 N/A	k	1	N/A	k	1	N/A	k	1 N/A	k	1 N/A
n	0.03 N/A	n	0.03 N/A	n	0.03 N/A	n	0.03	N/A	n	0.03	N/A	n	0.03 N/A	n	0.03 N/A
р	3.28 m	р	3.28 m	p	3.28 m	р	3.28	m	p	3.28	m	p	3.28 m	Р	3.28 m
Q	1.33 m³/s	Q	0.77 m ³ /s	Q	0.77 m³/s	Q	0.73	m³/s	Q	5.42	m³/s	Q	2.97 m ³ /s	Q	2.30 m³/s
R	0.33 m	R	0.33 m	R	0.33 m	R	0.33	m	R	0.33	m	R	0.33 m	R	0.33 m
S	0.0060 m/m	S	0.0020 m/m	S	0.0020 m/m	S	0.0018	m/m	S	0.1000	m/m	S	0.0300 m/m	S	0.0180 m/m
T	3 m	T	3 m	Ŧ	3 m	Т	3	n)	7	3	m	T	3 m] <u>T</u>	3 m
٧	1.2 m/s	A.	0.7 m/s	V	0.7 m/s	V	0.7	m/s	ν	5.0	m/s	V	2.8 m/s	V	2.1 m/s
٧	4.0 ft/s	٧	2.3 ft/s	V	2.3 ft/s	٧	2.2	ft/s	٧	16.5	ft/s	V	9.0 ft/s	V	7.0 ft/s
у	0.6 m	У	0.6 m	у	0.6 m	у	0.6	m	у	0.6	m	У	0.6 m	У	0.6 m
z1	2 m/m	z1	2 m/m	z1	2 m/m	z1	2	m/m	z 1	2	m/m	z 1	2 m/m	z 1	2 m/m
z2	2 m/m	22	2 m/m	z2	2 m/m	z2	2	m/m	z2	2	m/m	22	2 m/m	z2	2 m/m
6	0.34 deg	θ	0. 1 1 deg	е	0.11 deg	О	0.10	deg	9	5.71	deg	Θ	1.72 deg	Θ	1.03 deg



Date: 20-Feb-2019 Rev: H

Project No: 12.008.01

Appendix I – Oil Water Separator Datasheet





Efficiently Removes Free Oil and Settleable Solids**

ZCL uses multiple angle plates that are virtually self cleaning. Oil contamination can be reduced to less than ten milligrams per litre.

Corrosion Resistant

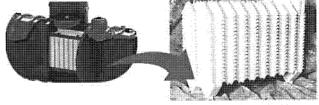
ZCL oil/water separators are manufactured with premium grade fibreglass reinforced plastic. They have no moving parts, require only minimal maintenance and are engineered for long term underground service.

**Not chemically or mechanically emulsified or dissolved hydrocarbons.

Vessels Are Designed And Constructed With Reference To:

- ✓ The API Manual on Disposal of Refinery Wastes
- √ API Publication N° 421
- √ ULC 5615 98
- ✓ ZCL Coalescing Oil-Water Separators are certified

by Underwriters Laboratories for Canada to the standard ULC-S656-14



Separation is enhanced with multiple angle coalescing plates.

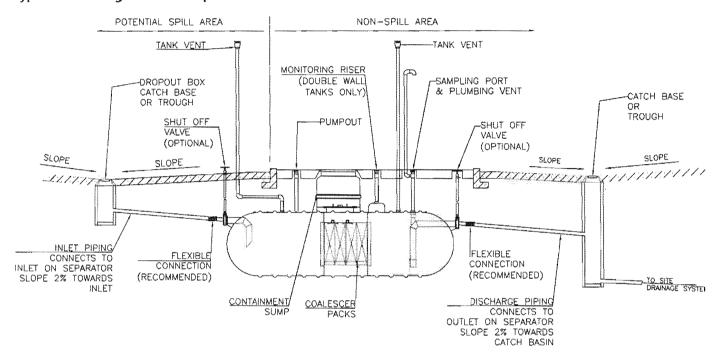
Better Flow, Better Separation

ZCL coalescing separators provide substantially better separation and higher design flows than differential gravity separators with the same footprint.

Technical Features

- Available in single wall or double wall construction.
- Corrosion resistant internal and external components.
- The multiple angle plates are self cleaning. Solids are separated to the bottom; oil is separated to the top.
- No moving parts; minimal maintenance requirements.
- The coalescing system can be cleaned in place and is designed for easy removal of plate packs for full maintenance.
- Optional shut off valve is available as an option either manual or automatic.

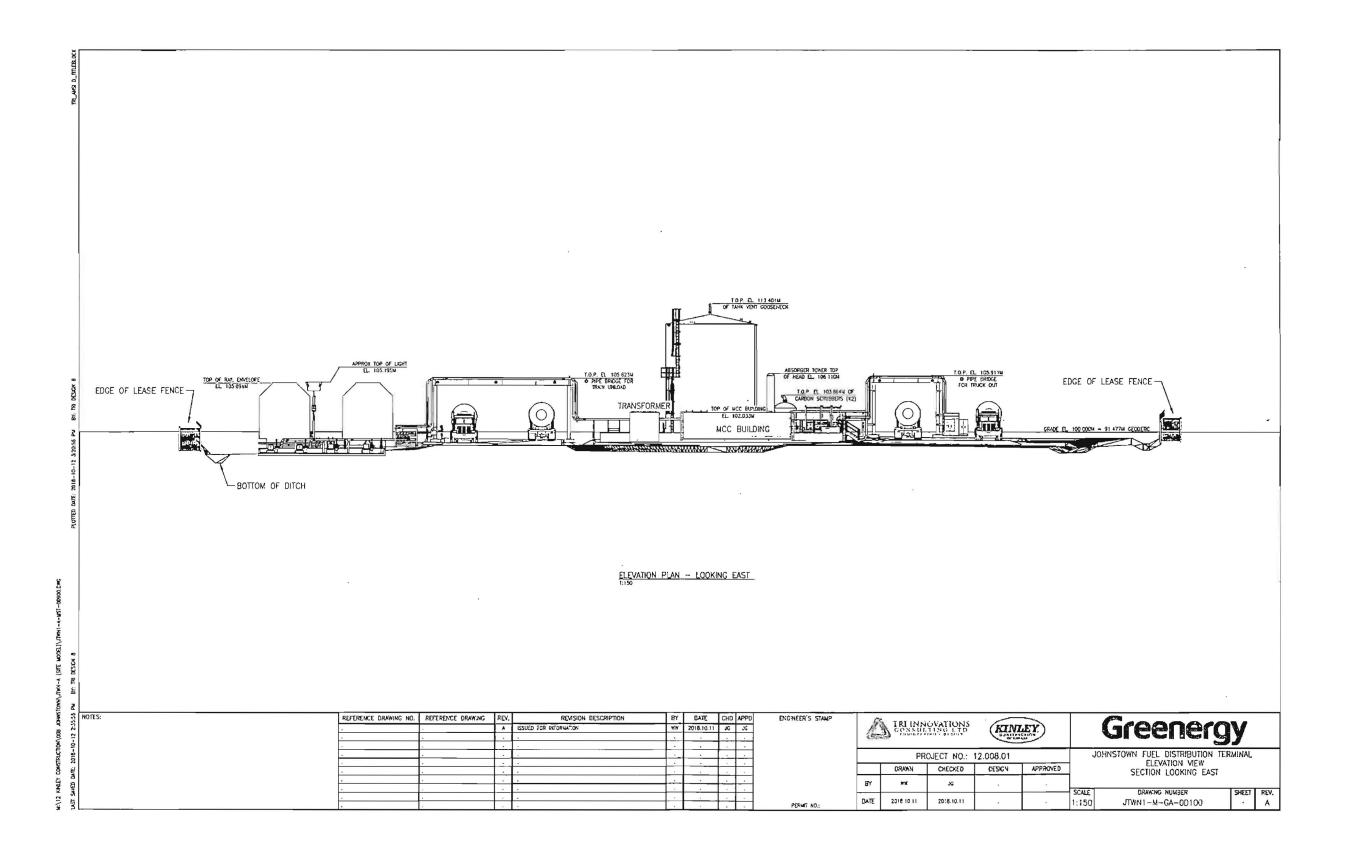
Typical Coalescing Oil/Water Separator

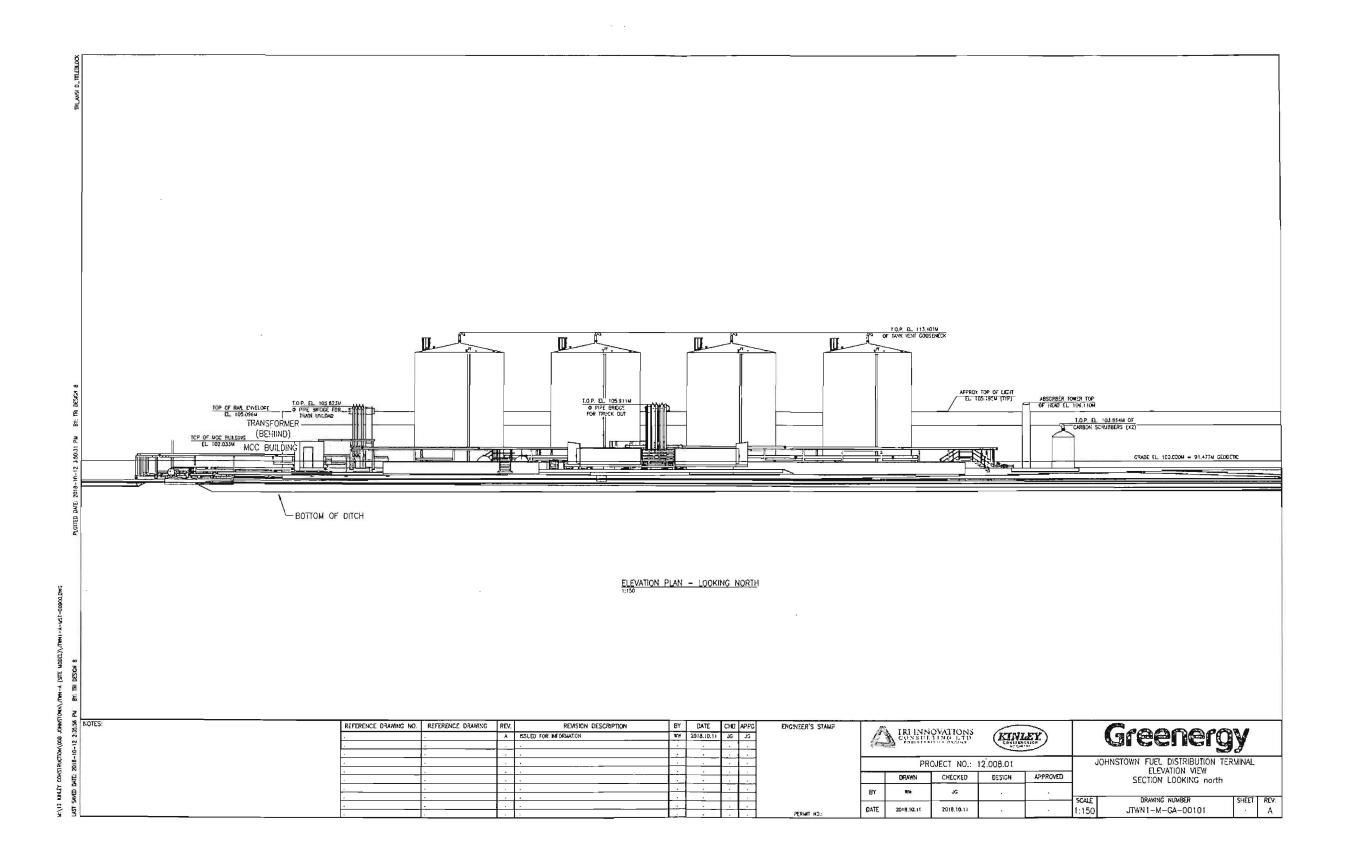


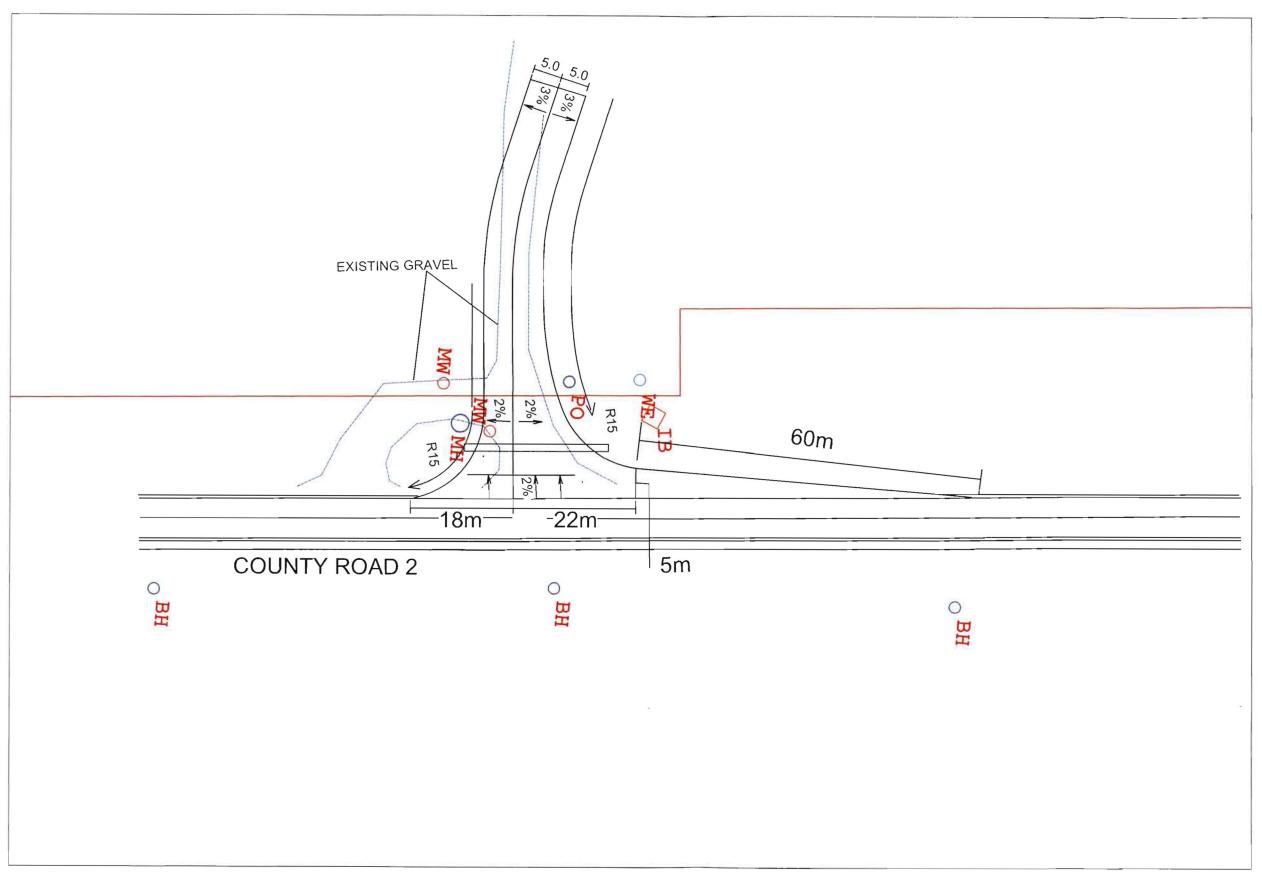
Separator Model Specifications - SW & DW

					Based on 0.85 SG storm water inlet f oil concentration 4	ree	Based on ULC-S656-14 0.85 SG oil/ 5°C/ storm oil concentration 2000	water inlet free
Model Number COWS- (L)	Nominal Diameter (mm)	Overail Length (mm) SW	Overall Length (mm) DW	Emergency Spill Capacity V° (L)	Flow Rate for 15 mg/L (L/minute)	Flow Rate for 10 mg/L (L/minute)	ULC S656 Rated Flow Rate (L/minute)	ULC S656 Rated Free Oil Cap (L)
190 - 5,000	1327	4368	4380	1240	190	130	37	740
380 - 5,000	1327	4368	4380	1240	380	260	74	740
620 - 15,000	1910	6528	6604	8400	620	440	164	1400
830 - 15,000	1910	6528	6604	8400	830	590	219	1400
1670 - 20,000	1910	8426	8465	10900	1670	1170	439	1870
1630 - 30,000	2590	7214	7264	17300	1630	1140	446	2300
2730 - 40,000	2590	9341	9392	22800	2730	1890	744	3040
4900 - 50,000	2590	11259	11328	27800	4900	3400	1339	3720













Greenergy

August 8 2019

Dear Ms. McKinstry,

As part of our ongoing discussions with Edwardsburgh/Cardinal regarding the development and construction of the Greenergy Johnstown Terminal, Greenergy Fuels Canada Inc had committed to provide an overview of the fire suppression infrastructure that will be included as part of the terminal design.

After many discussions with local stakeholders, it was decided that the best option for fire suppression infrastructure would include the addition of two fire hydrants on the property. Appended to this letter is a design of the property which illustrates the location of the two hydrants. The two hydrants are indicated with 'FH' on the drawing:

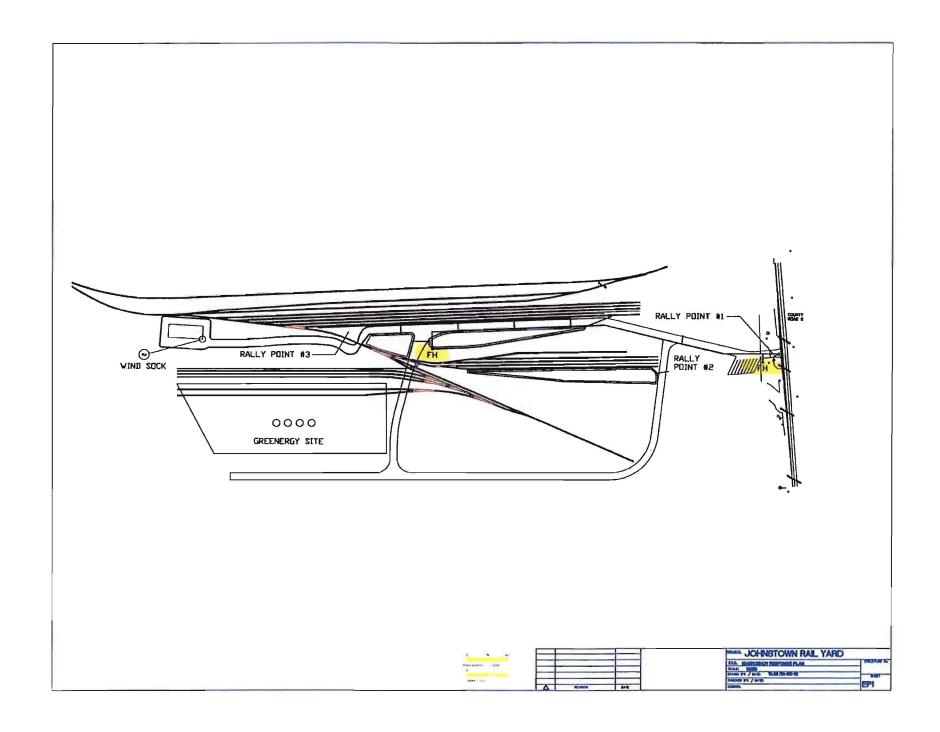
- First hydrant located at property entrance on County Road 2
- Second hydrant located 1,500 ft inside the property

The addition of these two hydrants will provide local responders the necessary water access in the unlikely event of a fire. The technical specifications of the hydrants have also been appended to this letter.

Sincerely.

Zac Scott

Senior VP Operations



CLOW CANADA - M-67 HERITAGE BRIGADIER FIRE HYDRANT SPECIFICATION

TESTING AND DESIGN SPECIFICATIONS (PER AWWA C502 / NSF /ULC & FM)

- 1. Hydrant shall be manufactured in accordance with AWWA C502 latest revision
- Hydrant Has been certified by UL in accordance with the ANSI/NSF 61 and ANSI/NSF 372 (LEAD CONTENT VERIFICATION OF PRODUCTS INCONTACT WITH POTABLE WATER)
- 3. Hydrant shall be designed for 250 *PSI* working pressure and tested to 500 *PSI* hydrostatic pressure.
- 4. Hydrant shall be rated for 250 PSI. FM working pressure and 200 PSI. ULC working pressure.
- 5. Hydrant shall be a compression type, dry barrel design with centre operating stem construction.
- 6. The O-ring seating surface on the upper stem shall be constructed of stainless steel.
- 7. Epoxy coating to be applied to interior and exterior of hydrant shoe for corrosion protection.
- 8. Hydrant shall be manufactured with operating nut and integral thrust collar made of bronze. A Delrin washer bearing shall be located above thrust collar for ease of hydrant operation.
- 9. Hydrant shall have a lower valve assembly that fully encapsulates the lower operating rod threads. This allows for increased corrosion resistance and ease of disassembly.
- 10. Intermediate section shall be ductile iron. (AWWA C110 08)

STANDARD HYDRANT FEATURES

- 1. Body style: Octagon with Octagon nozzle caps
- 2. Hydrant shall have an internally lubricated bronze operating nut with O-ring seals. Operating nut shall be of the Hydra-lubeTM design to ensure self lubrication during operation.
- 3. Hydrant hose nozzles shall be mechanically locked into place by an external allen screw, and have O-ring seals.
- 4. Hydrant Lower rod shall be 1-1/4" in sq.
- 5. Hydrant shall have a main valve opening of 5-1/4".
- 6. Hydrant shall be a traffic model, complete with safety flanges and stem coupling. Upper body can be rotated 360 degrees to adjust pumper direction.
- 7. Hydrant shall be manufactured with a lower valve plate that bottoms out in the shoe for maximum opening.
- 8. Hydrant shall be backed by manufacturer's 12 year limited warranty
- 9. Hydrant shall be the Clow Canada Brigadier as manufactured by Clow Canada.

M: Avity

CLOW
A division of Canada Pipe Company Ltd.

CONCORD



Phone: 613-658-3055 Fax: 613-658-3445 Toll Free: 866-848-9099

E-mail: mail@twpec.ca

18 Centre St. Spencerville, Ontario KOE 1XO

P.O. Box 129,

November 14, 2019

By Email to Johannes.Dunn@greenergy.com

Johannes Dunn, Financial Controller – North America Greenergy Fuels Canada Inc. 107 Germain Street, Suite 300 Saint John, NB, Canada E2L 2E9

Dear Mr. Dunn

RE: FINANCIAL SECURITY FOR DEVELOPMENT AT 3518 COUNTY ROAD 2
TOWNSHIP OF EDWARDSBURGH CARDINAL

Further to our recent correspondence, this letter is to confirm that the Township of Edwardsburgh Cardinal will accept financial security for Greenergy's development at 3518 County Road 2 in the form of a cash bond, in place of the Letter of Credit required under the Site Plan Control Agreement with Shoreline Rail Group Inc.

The amount of the required security is \$116,400 as per Schedule C of the Site Plan Control Agreement.

The municipality also confirms that the funds will be returned after the Township has given the final approval following project completion, which is currently scheduled for last week in November.

Following are the municipality's banking details:

Bank: Royal Bank of Canada

Institution #: 003 Transit #: 04782

Account No.: 119-151-9

Please contact me if you require any additional information.

Yours truly,

Debra McKinstry, Clerk

Cc: Dave Grant, CAO

Melanie Stubbs, Treasurer Zac Scott, Greenergy Kirby Tremblay, Greenergy

Clayton Jones, Shoreline Rail Group Inc.



Priority Payment

The status for payment 17275M100J31 is: Processed by bank

Debit account and beneficiary details

UETR: 6bed0ce3-ffb1-4e52-b09f-d327913df5c6 Pay from

GREENERGY FUELS CANADA INC

CA CAHBCACA093-134495-001 CAD

CAD Debit currency

Pay to

Beneficiary details

Township of Edwardsburgh Cardinal Beneficiary name and address

> 18 Centre Street Spencerville Ontario, KDE 1XO

Canada Beneficiary bank

> ROYAL BANK OF CANADA 29 BENNETT ST-PO BOX 190

C/O 302 KING ST W SPENCERVILLE

Account number 1191519 000304782 Bank code

Payment details

Amount 116,400.00 Currency

15 November 2019 Value date Sender pays Charges Your reference Cash bond

Additional details

Financial Security for Development Information for the beneficiary

at 3518 County Road 2 Township

of Edwardsburgh Cardinal

Not provided Intermediary bank

Time of report: 15 Nov 2019 15:02:12 GMT

SCHEDULE "C"

FINANCIAL REQUIREMENTS

The Owner shall deposit with the Township security, in a form approved by the Township Treasurer, in the amount of 50% of the estimated cost of the fire suppression infrastructure works, as outlined in schedule B7.

Estimated cost of fire suppression infrastructure works:

\$ 206,000°+HST (\$ 232,780)

50% of Estimate to be provided as security:

SCHEDULE "D"

FORM OF LETTER OF CREDIT

A payment under this Guarantee shall be made before the expiry hereof upon your presenting to the Bank at its ______ Branch.

- (a) Your written demand for payment in the form described below.
- (b) This Guarantee.
- (c) Either (i) Vouchers paid by the Corporation certified by its Treasurer as having been paid by him on account of the Customer, for works services or materials required to be performed or supplied under the said Agreement, or
- (ii) a letter from the Corporation certifying that the "Customer" is in default in performing or supplying works, services or materials required to be performed or supplied under the said Agreement whether or not the Corporation has itself already performed or supplied the same.

The said demand shall refer to this Guarantee by the above number, shall state the amount demanded and shall certify:

- (a) That the amount is due and payable to you by the Customer, and
- (b) That you have requested payment of the said amount from the Customer and have not received payment, and
- (c) That the amount remains unpaid thirty (30) days after mailing of written demand.

Upon receipt by the Bank at the said Branch of the said demand and the other document(s) referred to above on/or before the Expiry Date, the Bank shall pay to you the amount stated in the said demand to be payable to you by way of the Bank's draft without enquiring whether you have a right to such amount as between yourself and the Customer, provided that such amount, together with other amounts paid to you under this Guarantee, if any, does not exceed in the aggregate the amount of this Guarantee.

The Bank may note on this Guarantee the amount and date of any payment made to you under this Guarantee and shall retain this Guarantee if the aggregate amount of this Guarantee has been paid to your of the Expiry Date has occurred.

This letter of Guarantee is irrevocable until from year to year, unless the Bank gives thirty (30) day it. This letter of credit may be reduced from time to tim that part of the works has been completed. The amour reduced, shall be one-half (1/2) of the value of the workertified in writing by the Corporation.	ys notice that it does not propose to renew e if the Corporation certifies to the Bank nt by which this letter of credit shall be
Yours truly,	
(Authorized Signature)	

SCHEDULE "E"

ADDITIONAL TOWNSHIP CONDITIONS

- 1. The Owner shall provide revised plans and reports that address the questions of the Township prior to the Agreement being executed.
- 2. The Owner agrees to implement the recommendations of the reports submitted, and approved as revised, with this application for Site Plan Approval, including:
 - a. Stormwater Management Brief as described in schedule B2;
 - b. Stormwater Management Report as described in schedule B4;
 - c. Fire Suppression Infrastructure Plan as described in schedule B7,
- 3. The Owner shall be responsible for all approvals from the United Counties of Leeds and Grenville, and subsequent improvements to their satisfaction, regarding improvements that may be required within the County Road 2 right-of-way to service this development.
- 4. The Owner shall be responsible for any temporary services required for this development, including electrical services.
- 5. The Owner shall obtain such permits as may be required from Municipal or Provincial authorities including the Ministry of Transportation, Ministry of Environment, Conservation and Parks, the South Nation Conservation, and the United Counties of Leeds & Grenville and all other Federal, Provincial, or regulatory agencies. The Owner shall file copies thereof with the Township. This includes all necessary approvals with regard to the installation of storm sewers, and the provision of sewage treatment facilities where required. The Owner shall also obtain all necessary approvals from the Township regarding the provision and installation of required fire hydrants.
- 6. The Owner shall provide adequate water supply for firefighting. A report from their consultant, _______, shall confirm that the municipal system will have proper capacity to serve this site, and that the design for the site will meet the requirements of the Technical Standards and Safety Authority (TSSA), Ontario Building Code and any other applicable Codes or Regulations and shall be in accordance with the Township's Agreement with the Town of Prescott, barring which the owner shall be responsible for any required amendments to this agreement.
- 7. The final plans shall show that access routes for firefighting are designed and constructed in accordance with the TSSA and/or Ontario Building Code Act and Regulations. The approved access routes shall be maintained in accordance with the Fire Protection and Prevention Act, 1997. The Owner agrees to provide, maintain, and post signs designating fire lanes. The Owner further agrees to abide by any Township By-law relating to the maintenance and signage of such access routes. The location of any fire hydrants and shall be in accordance with the TSSA and/or Ontario Building Code. The required fire hydrants shall be installed and in service prior to the commencement of any storage or trans-loading of flammable material on the site.
- 8. Hydrants shall be maintained in operating condition, free of snow and ice accumulations and readily available and unobstructed for use at all times in accordance with the Ontario Fire Code and the requirements of the Township. The Owner acknowledges that no driveway shall be located within 3.0 metres of a fire hydrant. No person shall obstruct the free access to any fire hydrant. Vegetation or other objects shall neither be planted

- nor placed within a 1.5 meter radius beside or behind a hydrant without the express written consent of the Township.
- 9. The Owner shall submit a certificate of insurance in a form satisfactory to the Township. The certificate of insurance must be issued in favor of the Township in an amount not less than five million dollars per occurrence, must contain an endorsement naming the Township as an additional insured and an unconditional thirty days' notice of any material change or cancellation of the policy.
- 10. The Owner shall contact all utilities, including but not limited to Hydro One, Bell Canada and Union Gas Distribution for service and meter installation details.
- 11. The Owner acknowledges and agrees that if easement(s) are required to service this development, the Owner shall provide the easement(s).
- 12. The Township will have no responsibility to install any extension to municipal services which may be required in order for the Owner to comply with this Agreement or with any Provincial or Municipal laws or by-laws. In cases where such an extension of municipal services is required, the Work shall be undertaken by and at the expense of the Owner and construction shall be to the standards established by the Township for the installation of such municipal services. The owner shall provide public liability insurance in a form acceptable to the Township for any Works involving the extension of municipal services and obtain any required approvals and permits from the Township.
- 13. The Owner shall be responsible to maintain all infrastructure relating to the fire suppression system and storm sewer networks on the property. The Owner shall be required to maintain, clean, and/or repair all infrastructure within the Site.
- 14. Where the owner is proposing manholes, the maintenance of such manholes is required and it shall be the responsibility of the Owner to perform a regular removal of any trapped material (minimum once per 6 months). All materials arising from any spill should be removed immediately. These facilities are not to be dismantled or removed unless approval has been granted by the Township.
- 15. The Owner agrees to implement the erosion and sediment control plan as outlined in schedule B4 to provide for the protection of the receiving storm sewer or watercourse during construction activities. This plan to be used during construction is intended to ensure that no sediment and/or associated pollutants are discharged to a receiving water course which could degrade water quality and/or impair fish or other aquatic habitat. The methods used should be regularly maintained to ensure effectiveness of the methods and compliance with Provincial/Federal legislation pertaining to water quality and habitat.
- 16. The Owner shall require the storm water management calculations to be submitted in writing by a professional engineer to the Township for approval. Upon completion of the Works, a written certification from a professional engineer and as-built plans must be submitted to the Township confirming that the storm water measures have been implemented as per the approved design. The owner shall be responsible for the repair and maintenance of the storm water control facilities.
- 17. The Owner shall conduct any blasting in accordance with the most recent Ontario Provincial Standard Specifications (OPSS), and must include a pre-blast survey by a qualified consultant. A copy of this survey shall be provided to the Township.

- 18. The Owner shall maintain all streets within the area on a continuous basis during construction, in order that they are clear of mud, dust, and other material, resulting from vehicles involved in construction, to the satisfaction of the Township. The Owner shall prevent the "flushing" of dirt and debris associated with construction work into any municipal ditch. Upon any default by the Owner to maintain the streets, the Township may, at his/her discretion, arrange for the required cleaning to be performed and the cost incurred by the Township in doing so shall be recovered from the Owner.
- 19. The Owner shall ensure that the performance of Works required as a result of the Agreement, whether by the Owner or its employees, servants or agents or its contractors or subcontractors, shall be performed so as to not constitute a nuisance or disturbance to abutting or nearby properties or to the owners thereof. The Owner shall comply with and shall ensure that all of its contractors and subcontractors shall comply with any written instructions issued by the Township concerning any such nuisance or disturbance regardless of whether such instructions require positive action or discontinuance of action.
- 20. CCTV Inspection The Owner shall be responsible, at his expense, to provide all necessary CCTV inspection for storm sewer works on the Site. If the inspection is not satisfactory to the Township, the Owner shall rectify the works at his sole expense.
- 21. Video Examination Video examination of storm sewers, 200 mm or larger in diameter shall be required by the Township, at the Owner's expense, before final release of the Works.
- 22. Test Results All necessary and mandatory test results, conditions 20 and 21, must be submitted to the Township for approval prior to receiving a request from the owner to reduce any applicable security deposits.
- 23. Any portion of the lands which is intended to be used for snow storage shall be shown on the approved Site Plan or as otherwise approved by the Township. The grading and drainage Plan shall not be compromised by the storage of snow. Snow storage areas shall be setback from property lines, foundations, fencing and/or landscaping requirements a minimum of 1.5 metres. Snow storage areas shall not occupy driveways, aisles, required parking spaces or any portion of a road allowance.

SCHEDULE "F"

CONSENT OF MORTGAGEE/CHARGEE

IN THE MATTER OF a Site Plan Agreement for the attached hereto, the Mortgagee/Chargee.	
attached hereto, the Mortgagee/Chargee,	hereby consents to the terms
of the attached Site Plan Agreement dated on the day	
and the Corporation of the Township of E	
and agrees that in the event that the lands hereinbefore v	
the said Mortgagee/Chargee shall be required to comply	
extent as if it had been the Owner.	
IN WITNESS WHEREOF the Mortgagee/Chargee	has hereunto affixed its hands and
seals this day of 20	
WITNESS:	
Por:	
Per:	

OR

THE LAWYER FORM LETTER

We have been advised by (name of owner) that you will be retained by (him-it-her) to take the necessary steps to complete the registration of the site plan which is referred to above.

The owner (name) has confirmed to the Corporation of the Township of Edwardsburgh/Cardinal that you will certify to the said Township that the rights conferred to it pursuant to the provisions of the said agreement will rank in priority to the interests of any persons or parties which the said owner may have granted or may grant in the future.

The Municipality will not take any further steps in the above matter (issue of permit, etc.) until the aforementioned certification has been received by it.

The Municipality will require the following information to be provided to it at the time that the certification is provided:

- a) a copy of the aforementioned site plan agreement including confirmation of the details of registration;
- b) a copy of the abstract page (legal description) including the details of registration of the said agreement;
- c) (list other required info).

Please confirm to the Township of Edwardsburgh/Cardinal by return mail that you have in fact been retained by (owner) to carry out the aforementioned matters.

Yours very truly,

ACKNOWLEDGEMENT AND DIRECTION

	Samantha Berry	
	(Insert lawyer's name)	
ND TO:	AULT & AULT	
	(Insert firm name)	
E:	Notice of Site Control Agreement (Insert brief description of transaction)	("the transaction")
	(mont billi description of transaction)	
is will confirm	n that:	
I/We have re-	eviewed the information set out in this Acknowledgement and Direction and	in the documents described below
(the "Docume	nents"), and that this information is accurate;	
	gent or employee are authorized and directed to sign, deliver, and/or registe	er electronically, on my/our behalf the
	in the form attached.	betasticthe in the form attached
	eby authorized and directed to enter into an escrow closing arrangement su	
-	g a copy of the version of the Document Registration Agreement, which app oper Canada as the date of the Agreement of Purchase and sale herein. If	
	has been reviewed by me/us and that I/We shall be bound by its terms;	TTO HOTELY GONHOWIEUGE THE SAID
	f the Documents has been fully explained to me/us, and I/we understand the	at I/we are parties to and bound by
	nd provisions of the Documents to the same extent as if I/we had signed the	
I/we are in fa	act the parties named in the Documents and I/we have not misrepresented	our identities to you.
l.	am the spouse of	, the
SCRIPTION O	OF ELECTRONIC DOCUMENTS	
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LRO # 15 Notice

In preparation on 2019 12 10 at 14:13

This document has not been submitted and may be incomplete.

yyyy mm dd Page 1 of 1

Properties

PIN

68155 - 0792 LT

Description

PT LT 35 CON 1 EDWARDSBURGH PTS 1, 7 & 8, 15R9747; EDWARDSBURGH/CARDINAL

Address

3518 COUNTY ROAD 2

PRESCOTT

Consideration

Consideration

Applicant(s)

The notice is based on or affects a valid and existing estate, right, interest or equity in land

THE CORPORATION OF THE TOWNSHIP OF EDWARDSBURGH/CARDINAL

Address for Service

Acting as a company 18 Centre Street, Spencerville, Ontario, K0E 1X0

This document is not authorized under Power of Attorney by this party.

This document is being authorized by a municipel corporation Patrick Sayeau, Mayor and Debra McKinstry, CAO/Clerk.

Statements

This notice is pursuant to Section 71 of the Land Titles Act.

This notice is for an indeterminate period

Schedule: See Schedules

The applicant(s) hereby applies to the Land Registrar.

yyyy mm dd Page 1 of 68

Properties

68155 - 0792

PT LT 35 CON 1 EDWARDSBURGH PTS 1, 7 & 8, 15R9747; Description

EDWARDSBURGH/CARDINAL

3518 COUNTY ROAD 2 Address

PRESCOTT

Consideration

Consideration

\$0.00

Applicant(s)

The notice is based on or affects a valid and existing estate, right, interest or equity in land

Name THE CORPORATION OF THE TOWNSHIP OF EDWARDSBURGH/CARDINAL

Address for Service 18 Centre Street, Spencerville, Ontario,

K0E 1X0

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This notice is for an indeterminate period

Schedule: See Schedules

Signed By

Amanda Jayne Spink Pietersma Box 428, 522 St. Lawrence St. acting for Signed 2019 12 16

> Winchester Applicant(s)

K0C 2K0

Tel 613-774-2670 613-774-2266 Fax

I have the authority to sign and register the document on behalf of the Applicant(s).

Submitted By

AULT & AULT 2019 12 16 Box 428, 522 St. Lawrence St.

> Winchester K0C 2K0

613-774-2670 Tel 613-774-2266 Fax

Fees/Taxes/Payment

Statutory Registration Fee \$65.05 Total Paid \$65.05

File Number

Applicant Client File Number:

1369-372