

THE CORPORATION OF THE TOWN OF AMHERSTBURG

BY-LAW NO. 2011-14

A by-law to authorize the signing of an Amended and Restated Development Agreement.

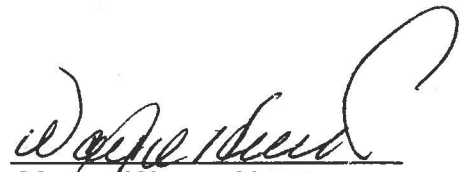
WHEREAS 1681351 ONTARIO INC. and HELIOS PROJECT IV LIMITED PARTNERSHIP, by its general partner, HELIOS PROJECT IV INC. have proposed the development of property at 191 Concession 3 North for purposes of solar energy facilities;

AND WHEREAS the Council of the Town of Amherstburg and owners of the said property have agreed to the terms and conditions of a Development Agreement in the form annexed hereto;

NOW THEREFORE THE COUNCIL OF THE CORPORATION OF THE TOWN OF AMHERSTBURG HEREBY ENACTS AS FOLLOWS:

1. That the Mayor and Clerk be and they are hereby authorized to execute the original and copies of a Development Agreement in the form annexed hereto and affix the Corporate Seal thereto.
2. Any other By-laws inconsistent with this By-law are hereby repealed.
3. This By-law shall come into force and effect on the date of final passage hereof.

Read a first, second and third time and finally passed this 24th day of January, 2011.



Mayor- Wayne Hurst



Clerk- Brenda M. Percy

Properties

PIN 01543 - 0164 LT
Description PT N1/4 LT 1 CON 3 ANDERDON; PT SW PT OF LT 1 CON 3 ANDERDON; PT SE1/4 LT 2 CON 3 ANDERDON; PT SW1/4 LT 2 CON 3 ANDERDON; SE PT OF LT 1 CON 3 BEING PTS 1 TO 3 12R14374 ANDERDON TOWN OF AMHERSTBURG
Address 191 CONCESSION 3 NORTH AMHERSTBURG

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 TOWN OF AMHERSTBURG
Address for Service 271 Sandwich St. S,
Amherstburg, On
N9V 2A5

I, LORY BRATT, AMCT, PLANNING COORDINATOR, have the authority to bind the corporation.
This document is not authorized under Power of Attorney by this party.

Party To(s) *Capacity* *Share*

Name 1681351 ONTARIO INC.
Address for Service Box 517
4955 Walker Rd.
Windsor, ON N9A 6M6

I, Loris Collavino,, have the authority to bind the corporation
This document is being authorized by a municipal corporation Lory Bratt, AMCT, Planning Coordinator.
This document is not authorized under Power of Attorney by this party.

Statements

This notice is pursuant to Section 71 of the Land Titles Act.
This notice may be deleted by the Land Registrar when the registered instrument, CE363717 registered on 2009/01/21 to which this notice relates is deleted
Schedule: See Schedules
This document relates to registration no.(s)CE363717; CE447655

Signed By

Armando Felice Antonio DeLuca 500-251 Goyeau Street acting for Signed 2011 02 11
Windsor Applicant(s)
N9A 6V2

Tel 519-258-0615
Fax 5192586833

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

Submitted By

MOUSSEAU DELUCA MCPHERSON PRINCE 500-251 Goyeau Street 2011 02 11
Windsor
N9A 6V2

Tel 519-258-0615
Fax 5192586833

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

Fees/Taxes/Payment

Statutory Registration Fee	\$60.00
Total Paid	\$60.00

File Number

Applicant Client File Number :	24873
Party To Client File Number :	24873

TOWN OF AMHERSTBURG

AMENDED AND RESTATED DEVELOPMENT AGREEMENT

BETWEEN:

1681351 ONTARIO INC.

-AND-

THE CORPORATION OF THE TOWN OF AMHERSTBURG

-AND-

**HELIOS PROJECT IV LIMITED PARTNERSHIP, by its general partner,
HELIOS PROJECT IV INC.**

AMENDED AND RESTATED DEVELOPMENT AGREEMENT

THIS AGREEMENT made in triplicate this 24th day of January, 2011.

BETWEEN:

1681351 ONTARIO INC.
Hereinafter called the "**Owner**"

OF THE FIRST PART;

– and –

THE CORPORATION OF THE TOWN OF AMHERSTBURG
Hereinafter called the "**Corporation**"

OF THE SECOND PART;

– and –

HELIOS PROJECT IV LIMITED PARTNERSHIP, by its general partner, HELIOS PROJECT IV INC.
Hereinafter called the "**Tenant**"

OF THE THIRD PART;

WHEREAS the Corporation and the Owner entered into a Development Agreement dated December 15, 2008 (the "**Original Development Agreement**") in respect of the development of the lands described in Schedule "A" attached hereto (the "**Lands**"), and the Corporation, the Owner and Helios Solar Star A-2 Company, as general partner of Helios Solar Star A-2, L.P. ("**Helios A-2**"), in its capacity as tenant of the Lands under a lease dated October 27, 2007, Notice of which has been registered as Instrument No. CE447655 (such lease as amended and assigned, the "**Lease**"), entered into an Amending Agreement dated September 28, 2009 to amend the Original Development Agreement (the "**Amending Agreement**");

AND WHEREAS pursuant to an agreement dated February 1, 2010, Helios A-2 assigned its rights and interests under the Lease to the Tenant, and pursuant to a notice to the Corporation dated April 20, 2010, the Tenant advised the Corporation that as a result of such assignment the Tenant was a Successor Tenant as such term is defined in the Amending Agreement;

AND WHEREAS the Owner warrants that as of the date hereof it is the registered owner of the Lands and the Tenant warrants that as of the date hereof it is the tenant of the Lands;

AND WHEREAS the Corporation, the Owner and the Tenant wish to amend and restate the Original Development Agreement and the Amending Agreement as set out herein, to provide for the development of the Lands for one or more solar energy facilities in accordance with the Site Plan attached hereto as Schedule "B" and hereinafter referred to as the "**Site Plan**";

AND WHEREAS in this Agreement each of the terms, "Owner" and "Tenant" includes an individual, an association, a partnership or corporation and, wherever the singular is used herein, it shall be construed as including the plural;

NOW THEREFORE THIS AGREEMENT WITNESSETH that in consideration of other good and valuable consideration and the sum of FIVE (\$5.00) DOLLARS of lawful money of Canada, now paid by each of the parties hereto to each of the other parties hereto, (the receipt of which is hereby acknowledged), the parties hereby covenant and agree as follows:

1. The following Schedules, which are identified by the signatures of the parties to this Agreement, and which are attached hereto, are hereby made a part of this Agreement as fully and to all intents and purposes as though recited in full herein:

SCHEDULE "A"	- Legal description of the Lands
SCHEDULE "B" ("B-1" to "B-5")	- Site Plan Drawings
SCHEDULE "B-1"	- Overall Site Plan (Drawing C101)
SCHEDULE "B-2"	- General Notes (Drawing C111)
SCHEDULE "B-3"	- Abbreviations and Legend (Drawing C112)
SCHEDULE "B-4"	- Demolition Plan (Drawing C131)
SCHEDULE "B-5"	- Existing Conditions (Drawing C121)
SCHEDULE "B-6"	- Overall Layout Plan (Drawing C301)
SCHEDULE "B-7"	- Traffic Control and Signage Details (Drawing C801)
SCHEDULE "C" ("C-1" to "C-3")	- Landscape Plan Drawings
SCHEDULE "C-1"	- Field Planting Plan (Drawing C701)
SCHEDULE "C-2"	- Landscape Plan (Drawing C702)
SCHEDULE "C-3"	- Landscape Details (Drawing C711)
SCHEDULE "D" ("D-1" to "D-4")	- Site Details
SCHEDULE "D-1"	- Typical Site Details (Drawing C901)
SCHEDULE "D-2"	- Typical Array Assembly (Drawing S352)
SCHEDULE "D-3"	- PCS Shelter - Site Layout and Miscellaneous Details (Drawing S401)
SCHEDULE "D-4"	- PCS Shelter - Plan and Exterior Elevations (Drawing S403)
SCHEDULE "E"	- Typical Table Plans and Elevation (Drawing S351)
SCHEDULE "F"	- Intentionally deleted
SCHEDULE "G" ("G-1" to "G-2")	- Fence Details
SCHEDULE "G-1"	- Typical Fence Details (Drawing C902)
SCHEDULE "G-2"	- Monument and Fence Plan (Drawing C241)
SCHEDULE "H" ("H-1" to "H-4")	- Grading, Drainage and Erosion Control
SCHEDULE "H-1"	- Grading and Drainage Plan (Drawing C311)
SCHEDULE "H-2"	- Drainage Schedules (Drawing C312)
SCHEDULE "H-3"	- Typical Erosion & Sediment Control (Drawing C903)
SCHEDULE "H-4"	- Erosion and Sediment Control Plan (Drawing C231)
SCHEDULE "I"	- Stormwater Management Report

2. Schedule "A" hereto describes the Lands affected by this Agreement.

3. Schedule "B" hereto shows:

- a) Site boundary
- b) Location of solar arrays
- c) Location of landscape berm
- d) Existing site conditions
- e) Location of fence

- f) Location of access roads
- g) Location of PCS shelters and PVCS/PVIS equipment

4. Schedule "C" hereto shows:

- (a) Landscape Plan and Details

5. Schedule "D" hereto shows:

- (a) Typical site details
- (b) PCS shelter details

6. Schedule "E" hereto shows:

- (a) Typical Table Plans and Elevation

7. Schedule "G" hereto shows:

- (a) Typical Fence Details

8. Schedule "H" hereto shows:

- (a) Grading, Drainage and Erosion Control

9. Schedule "I" hereto shows:

- (a) Stormwater Management Report

10. Hydro One Approvals

The Owner shall be responsible for consulting with and obtaining any necessary approvals from Hydro One regarding any matters that relate to services provided by Hydro One. Further the Owner shall be responsible for any costs associated with the reconstruction, relocation or changes to the hydro system resulting from the development described herein.

11. Ministry of Environment and Conservation Authority Approvals

The Owner shall be responsible for consulting with and obtaining any required approval from the Ministry of the Environment and the Essex Region Conservation Authority.

12. Construction and Truck Routes

The Owner agrees to be responsible for the construction of all perimeter granular base roads prior to the installation of the solar panels on the site. The haul route for Site "C" during the entire construction of this development shall use County Road 10 and Concession 3 North. The Owner shall adhere to load restrictions in effect at the time of construction for both County and municipal roads.

Construction will take place on a daily basis between the hours of 7:30 a.m. and 4:30 p.m., Monday to Friday.

The Owner shall ensure that trucks and equipment leaving the site are not laden with dirt, mud or debris. The Owner shall keep the highway surfaces clean of any debris and upon notice from the Corporation, the Owner shall immediately clean any debris off the highway. Failure of the Owner to respond will result in the Corporation arranging for the cleaning and invoicing the Owner which expense may also be recovered as municipal taxes with respect to the subject property.

If any municipal services or highway surfaces of the Corporation are damaged during the development, such damage shall be repaired or replaced by the Owner to the satisfaction of the Corporation. Failure of the Owner to repair or replace such damage will result in the Corporation arranging for the repair and/or replacement and invoicing the Owner which expense may also be recovered as municipal taxes with respect to the subject property.

13. Snow Removal

Snow removal from the access roads and within the site, if required, shall be the responsibility of the Owner.

14. Driveway Accesses

All new accesses and/or improvement to existing accesses shall be in consultation with and in accordance with the requirements of the Corporation's Director of Engineering and Infrastructure and Drainage Superintendent and shall be installed at the expense of the Owner. A new access over a Municipal Drain requires a report prepared by a drainage engineer under the Drainage Act. The Corporation may allow a letter of recommendation for any new access over a municipal drain from a drainage engineer with the new culvert being incorporated into the drain when a future report is required.

15. Stormwater Management

The development of the site requires special measures to deal with stormwater management as follows:

- (a) The Owner shall undertake a site grading plan and a stormwater management analysis as indicated in Schedule "I" to the satisfaction of the Corporation and the Essex Region Conservation Authority.
- (b) The Owner shall install stormwater management measures as approved by the Corporation and the Essex Region Conservation Authority as part of the development of this site, to the satisfaction of the Corporation and the Essex Region Conservation Authority.
- (c) The Owner shall obtain the necessary permits and/or clearance prior to construction activities and/or site alterations.
- (d) The Owner shall conduct regular inspections once every two weeks and after each sizable storm event of all sediment and erosion control measures recommended in the approved stormwater management plan during the construction of improvements for the solar energy facilities.
- (e) The Owner shall maintain an inspection log which shall be made available for review by the Corporation and the Essex Region Conservation Authority, upon request. The log shall state the name of the inspector, date of the inspection and rectification or replacement measures which were taken to maintain the sediment and erosion control measures. Inspections shall continue until development of the site is complete and approved by the Corporation.
- (f) The Owner acknowledges that this site is affected by both roadside ditches and municipal drains. Roadside ditch maintenance is performed from the road and will not affect this development. Municipal drainage maintenance is performed from the private property side of the drain with the spoils being spread over the adjacent lands. Therefore, a twenty (20ft) foot wide corridor must remain on the private property side of the drain clear of fences, trees and shrubs. Alternatively, the Corporation will allow for a letter of understanding drafted by an engineer, approved by the Owner and acceptable to the

Corporation, providing that maintenance work will be performed from the road side of the drain (in this case the Owen Bondy Drain) and the spoils trucked away, with the associated trucking costs for the particular length of drain adjacent to the development assessed to the Owner. This letter of understanding will be utilized for maintenance works until such time as a new drainage report is required. This site is affected by the Owen Bondy Drain located on the east side of the 3rd Concession North and the Darragh Drain located on the South Side of Site "C".

16. Garbage and Refuse

Any garbage or refuse that is stored outside shall be stored in a non-combustible container and maintained so that garbage or refuse does not blow or fall out of the container.

17. Lighting

Any and all lighting shall be installed and maintained in accordance with the standards set out in the Town's Development Manual so as to not, in the opinion of the Corporation interfere with the use or enjoyment of adjacent properties or with the safe flow of traffic on abutting or adjacent streets.

In addition to the requirement of full cut-off (directional lighting), the type, amount and intensity of lighting will also be a consideration in consultation with the Corporation to prevent undue light pollution.

18. Landscaping

(a) The Owner shall landscape and maintain in plants and ground cover acceptable to the Corporation those lands so indicated on Schedule "C-1" to "C-4" inclusive.

(b) The Owner agrees that the site will be inspected on an annual basis and any deficiencies as determined by the Corporation will require immediate correction in accordance with the approved site plan.

(c) The Owner agrees that where there are deficiencies or loss due to natural causes or management related issues in those areas which provide a visual buffer for neighbouring residences those deficiencies or losses will be corrected to the satisfaction of the Corporation in accordance with the approved Schedules. Failure of the Owner to correct the deficiency or loss will result in the Corporation arranging for the replacement and invoicing the Owner which expense may also be recovered on the municipal taxes of the subject property.

(d) The Owner agrees that those lands located on this site, but outside of the solar arrays and related equipment, and in particular south of the Darragh Drain, shall continue to be planted with ground cover in accordance with the approved Landscape plans (unless otherwise agreed to by the Corporation) and kept in an orderly fashion.

19. Fencing

The Owner agrees to construct a fence on those lands indicated on Schedule "B" in accordance with the fence detail forming part of Schedule "G". The Owner agrees that the site will be inspected on an annual basis and any deficiencies as determined by the Corporation will require immediate correction in accordance with the approved site plan.

20. Geo-Technical

The Owner and Corporation acknowledge correspondence dated April 11, 2007 from James D. Rodger, P. Eng. with Golder Associates Ltd. regarding a geo-technical investigation which results indicated that the sub-surface soil conditions appear appropriate to support the development of the type proposed for this site.

21. Start Up of the Solar Energy Facilities

- (a) The Owner shall notify the Corporation at least one week prior to the proposed start up date of the solar energy facilities in order to arrange for a site inspection system to be conducted.
- (b) The Owner shall not start up the solar energy facilities on the site before the applicable provisions of this Agreement are complied with.
- (c) The Owner shall ensure that the applicable approvals and regulations of Hydro One and all other governing authorities are adhered to.
- (d) The Owner shall ensure that Hydro One will monitor the site's connection point to the electricity system and will be able to identify any major electrical problems associated with the solar energy facilities, disconnecting them from the grid if necessary.

22. Driveways

All driveways for emergency vehicles shall:

- (a) be connected with a public thoroughfare;
- (b) be designed and constructed to support expected loads imposed by firefighting equipment;
- (c) have a clear width of 3 meters at all times;
- (d) have an overhead clearance of not less than 4.5 meters
- (e) have a change in gradient of not more than 1 in 12.5 over a minimum distance of 15.2 meters; and
- (f) have approved signs displayed to indicate the emergency route.

23. Certification by Architect or Professional Engineer

If the Ontario Building Code requires that an architect or professional engineer or both shall be responsible for the field review of any new building or extension provided for in this Agreement, the Owner shall not occupy or use or permit to be occupied or used any said new building or extension until after an architect or professional engineer has given to the Corporation a letter addressed to the Corporation and signed by him certifying that all services on or in the said lands, required for this development or redevelopment, newly installed by the Owner in connection with this development or redevelopment and not contained within a building, have been installed and completed in a manner satisfactory to the architect or professional engineer.

24. Corporation's Right to Enter

The Corporation through its servants, officers, and agents, including its building inspector, plumbing inspector, fire chief, public works head and municipal engineer may from time to time and at any time and upon reasonable notice to the Owner enter on the premises of the owner to inspect:

- (a) the progress of development;
- (b) the state of maintenance as provided for by this Agreement.

25. Stop Work Orders

In the event of any servant, officer or agent of the Corporation determining upon inspection that the development is not proceeding in strict accordance with the plans and specifications filed, such servant, officer or agent shall forthwith place a notice requiring all work to be stopped upon the premises and forward a copy by registered mail to the Owner to the address set out below in this Agreement, and the Owner shall forthwith correct the deficiency or deviation.

26. Notices of Non-Compliance

In the event of any servant, officer or agent of the Corporation, upon inspection, being of the opinion that the state of maintenance of works on the site is not in accordance with the requirements of this Agreement, such servant, officer or agent shall forthwith forward notice of such opinion to the Owner by registered mail to the address set out below in this Agreement, and the owner shall forthwith correct the deficiency to the standard required hereby.

27. Failure to Obey Stop Work Order

In the event that the Owner should fail to obey a stop work order issued under Section 25 hereof, the Owner recognizes the right of the Corporation to apply to the Court for a restraining order.

28. Correction of Deficiencies by Owner

Subject to the rights of the Owner under statute and at law, in the event that the Owner should fail to correct a deviation or deficiency after notice is given pursuant to Section 26, the Corporation, after two (2) weeks notice given to the Owner by registered mail to the address set out below in this Agreement, may correct the deviation or deficiency to the standard hereby required, the expense of which shall be paid out of security provided hereunder, and if such security is insufficient to cover such costs, to be forthwith paid by the Owner on demand by the Corporation, failing which such costs may be recovered as municipal taxes with respect to the subject property.

29. Decommissioning and Indemnification

(A) Definition

The term "decommissioning" when used in this Agreement means the process of removing the solar energy facilities, including all appliances and appurtenances thereto, from the Lands and restoring the surface of the Lands as close as possible to their former condition and use, and the term "decommission" shall have a similar meaning. For greater certainty, the terms "decommissioning" and "decommission" when used herein do not include any remediation obligations related to any hazardous substances that have migrated on to the Lands or are otherwise unrelated to the Owner's occupation or use of the Lands, and the Corporation acknowledges and agrees that the Owner shall have no such remediation obligations.

(B) Indemnification

The Owner shall at all times indemnify and save the Corporation harmless from and against any claims, demands, losses, costs, charges, expenses, actions and other proceedings (including those in connection with workplace safety and insurance compensation or any similar or successor arrangement) made, brought against, suffered by, imposed on or incurred by the Corporation in respect of any failure by the Owner to fulfill any of its obligations under this Agreement, including but not limited to the costs associated with decommissioning the Lands incurred by or on behalf of the Corporation, as a result of any loss, damage or injury (including injury resulting in death) to any person or property (including, but not limited to, employees, contractors, agents and property of the Corporation) directly arising out of, resulting from or sustained by reason of the Owner's occupation, use or decommissioning of the Lands, or any operation in connection therewith or any fixtures or chattels thereon, but excluding those caused by the acts, omissions and negligence of the Corporation and those for whom the Corporation is or was responsible.

(C) Corporation's Responsibility

The Corporation shall not under any circumstances be responsible for or be required to decommission the Lands or to incur any costs associated therewith. The Corporation may, in its sole discretion, undertake, in whole or in part, the decommissioning and incur the costs associated therewith, and shall collect those costs as set out herein, which costs shall remain the responsibility of the Owner.

(D) Decommissioning Events

In the event that any of the following events have occurred or in the reasonable opinion of the Corporation are likely to occur, whereby the Owner:

- (i) is dissolved;
- (ii) makes an assignment, arrangement or composition with or for the benefit of its creditors;
- (iii) institutes or is subject to a proceeding in bankruptcy or insolvency, or seeks any relief affecting creditor's rights;
- (iv) has a resolution passed for its winding up or its liquidation;
- (v) seeks or becomes subject to the appointment of an administrator, provisional liquidator, conservator, receiver, trustee, custodian or other official for it or for all or substantially all of its assets by reason of its insolvency;
- (vi) has a secured creditor take possession of all or substantially all its assets or has a distress, execution, attachment, sequestration or other legal process levied, enforced or sued on or against all or substantially all its assets;
- (vii) fails to post or maintain such security as may be required by Section 37 of this Agreement; or
- (viii) obtains possession of the Lands due to:
 - (a) permitted overholding by the Tenant,
 - (b) surrender of the whole of the Lease, or
 - (c) lawful termination of the Lease prior to expiry of its term,

then, subject to the provisions of Section 29E of this Agreement, the Owner shall commence decommissioning the Lands forthwith, and shall complete decommissioning within a reasonable period of time.

(E) Decommissioning Notice

The Corporation hereby irrevocably covenants and agrees that, notwithstanding Section 29D of this Agreement, in the event that any of the events listed in Section 29D has occurred or, in the reasonable opinion of the Corporation is likely to occur (each, a "**Decommissioning Event**"), the Owner shall not be required to commence decommissioning unless:

(a) The Corporation has delivered to:

- (i) the Owner;
- (ii) the Tenant (or any successor or assign of the Tenant from time to time who has delivered to the Corporation written notice at the address of the Corporation as set out in this Agreement that it is a successor or assign of the Tenant (each, a "Successor Tenant"); and
- (iii) any lender, mortgagee, chargee or other secured party to the Tenant (or any Successor Tenant) with a mortgage, charge or other security interest from time to time registered against title to the Tenant's (or any Successor Tenant's) leasehold interest in the Lands who has delivered to the Corporation written notice at the address of the Corporation as set out in this Agreement that it is a mortgagee, charge or secured party of the Tenant (or any Successor Tenant) (each such person, a "**Mortgagee**"),

notice in writing advising that a Decommissioning Event has occurred or is likely to occur and specifying which Decommissioning Event has occurred or is likely to occur (a "**Decommissioning Notice**"); and

- (b) (i) if the Decommissioning Event specified in the Decommissioning Notice is one of the events listed in Section 29D(a), (b), (c), (d) or (e), and the Owner, Tenant, a Successor Tenant or a Mortgagee does not deliver a notice in writing to the Corporation at the address of the Corporation as set out in this Agreement within 60 days after the date of receipt of the Decommissioning Notice advising the Corporation that it (or a successor, assign or nominee of it) will:
 - (A) continue to develop, construct and operate or assume responsibility for developing, constructing and operating the solar energy facilities on the Lands in accordance with the provisions of this Agreement; and
 - (B) enter into an agreement in favour of the Corporation assuming the obligations of the Owner under this Agreement (an "**Assumption Agreement**") or enter into a new development agreement on the same terms and conditions as are contained in this Agreement (a "**Replacement Development Agreement**"); or
- (ii) if the Decommissioning Event is the event listed in Section 29D(g) of this Agreement, and the Owner, the Tenant, a Successor Tenant or a Mortgagee does not deliver a notice in writing to the Corporation at the address of the Corporation as set out in this Agreement within 60 days after the date of receipt of the Decommissioning Notice advising the Corporation that it

will post the security required by the Corporation and within thirty (30) days thereafter such security is not posted.

For greater certainty, if the Corporation has delivered the Decommissioning Notice pursuant to the provisions of Section 29E(a) of this Agreement and none of the Owner, the Tenant, a Successor Tenant or a Mortgagee has delivered one of the notices described in Section 29E(b) of this Agreement within 60 days after the date of receipt of the Decommissioning Notice, then, but not otherwise, the Owner shall commence decommissioning the Lands forthwith after said 60 day period, and shall complete decommissioning within a reasonable period of time.

(F) Default in Decommissioning

In the event that the Owner fails to commence or to complete decommissioning of the Lands as required by this Agreement, the Corporation may take such steps as are necessary to decommission the Lands, as required herein. The Owner shall be responsible for the costs of the decommissioning incurred by or on behalf of the Corporation. The Owner agrees that the cost of the decommissioning incurred by or on behalf of the Corporation shall be deemed to be municipal taxes, and shall be a charge upon the Lands, premises, fixtures and chattels that are or were located on those Lands and premises in the same manner as municipal taxes. Further, the cost of decommissioning shall be collectible and shall have the same priority as municipal taxes. The Owner shall give notice to all secured creditors of the rights of the Corporation hereunder.

(G) Decommissioning Plans

The Owner shall, upon completion of construction and every five (5) years thereafter, submit a decommissioning plan for the Lands (a "**Decommissioning Plan**") for the Corporation's review. Such request shall not be made more than once every five (5) years during the term of this Agreement. A Decommissioning Plan shall set out the estimated cost as of the date of the Decommissioning Plan of decommissioning the Lands (the "Cost of Decommissioning"), which Cost of Decommissioning shall include, without limitation, the cost of recovering, removing, recycling and/or re-selling the solar energy facilities, including buildings and other structures, then located on the Lands and required pursuant to the terms hereof to be removed from the Lands upon a Decommissioning Event, and the estimated value, either as recycled materials or on re-sale, of such solar energy facilities (the "Value of the Facilities"). The Corporation may submit a Decommissioning Plan to independent peer review for verification of the Cost of Decommissioning and the Value of the Facilities as set out therein.

(H) Security for Decommissioning

In the event that a Decommissioning Plan indicates that the Cost of Decommissioning (as verified by independent peer review by the Corporation) exceeds the Value of the Facilities (as verified by independent peer review by the Corporation), then the Owner shall deliver to the Corporation financial security, in the form of a certified cheque or irrevocable, self-renewing letter of credit, in such amount as may be required by the Corporation, not to exceed the difference between the Cost of Decommissioning and the Value of the Facilities as so verified (the "Net Decommissioning Cost"). In the event that any subsequent Decommissioning Plan indicates that the Net Decommissioning Cost has increased or decreased, the financial security shall be adjusted accordingly. In such event, the Corporation shall release to the Owner the financial security then held by the Corporation upon delivery by the Owner to the Corporation of replacement financial security in the amount of the Net Decommissioning Cost as so adjusted.

(I) Responsibility

In addition to any other provisions of this Agreement, this Section 29 shall inure to the benefit of and be binding upon the Parties hereto and their respective, heirs, executors, administrators, successors, assigns, secured parties, affiliates, related corporations, provisional liquidators, conservators, receivers, trustees, custodians or other similar officials.

(J) Entry upon the Lands

In the event that the Corporation deems it necessary to perform any decommissioning of the Lands, the Owner hereby grants the Corporation, its employees, agents and contractors, an irrevocable licence to enter upon the Lands and to perform such acts as may be necessary in the opinion of the Corporation to perform any and all acts of decommissioning deemed necessary by the Corporation, without further notice to the Owner.

(K) Completion of Decommissioning

Upon completion of decommissioning by the Owner, the Owner shall obtain a report from an independent consultant verifying that the decommissioning has been completed in accordance with the requirements of this Agreement (the "Decommissioning Report") and such Decommissioning Report shall be provided to the Corporation.

30. Operation of Facility by the Tenant

- (a) The Corporation hereby confirms its understanding that the solar energy facilities to be developed, constructed and operated on the Lands will be developed, constructed and operated by the Tenant, pursuant to the terms of the Lease. The Corporation hereby irrevocably covenants and agrees not to amend this Agreement in any material respect or in any manner which would adversely affect the operations of the Tenant on and from the Lands without the prior written consent of the Tenant.
- (b) In the event that the Tenant, a Successor Tenant, a Mortgagee (or any successor, assign or nominee thereof) (each, a "Transferor") enters into an Assumption Agreement or a Replacement Development Agreement, the Transferor will be entitled to assign, transfer or otherwise dispose of its right, title and interest in and to this Agreement or the Replacement Development Agreement, as the case may be, without the consent of the Corporation, but on notice in writing to the Corporation (the "Transfer Notice") at the address of the Corporation as set out in this Agreement delivered at least 30 days prior to the date on which such assignment, transfer or other disposition is to be completed (the "Transfer Date") and identifying the assignee, transferee or other acquirer (each a "Transferee"), and provided that a Transfer Notice has been given, the Transferor will be released on the Transfer Date from all of its obligations under this Agreement or the Replacement Development Agreement, as the case may be, provided that the Transferee assumes the obligations of the Transferor under the Development Agreement or the Replacement Development Agreement, as the case may be.
- (c) The parties hereby acknowledge that the Corporation, the Owner, the Tenant, a Successor Tenant or a Mortgagee may register this Agreement or notice thereof against title to the Lands.
- (d) The Corporation hereby confirms and irrevocably agrees that this Agreement may be relied upon by, and enures to the benefit of, the Owner, the Tenant, any successor Tenant or any Mortgagee who delivers notice in writing to the Corporation at the address for the

Corporation set out in this Agreement and agrees that the Corporation will execute and deliver such documents, assurances and agreements as any one or more of such persons may reasonably require to further effect the agreements by the Corporation hereunder.

31. Change or Amendment to this Agreement

In the event of an Owner wishing to change at any time any of the buildings, structures or facilities described in the plans annexed or referred to in Section 3 hereof, it shall make application to Council of the Corporation for approval and shall not proceed with such change until approval is given by Council, or in default by the Ontario Municipal Board under the procedure set out in Section 41 of the *Planning Act*, R.S.O. 1990.

32. No Rights Obtained against Corporation

This Agreement and the provisions thereof do not give the Owner or any other person acquiring any interest in the Lands any rights against the Corporation with respect to the failure of the Owner to perform or fully perform any of its obligations under this Agreement or any negligence of the Owner in its performance of the said obligations.

33. Commencement of Construction

In the event that no construction on the Lands has commenced before June 30, 2011, the Corporation may, at its option, on one month's notice to the Owner, declare this Agreement to be subject to re-negotiation, whereupon the Owner agrees that it will not undertake any construction on the Lands until this Agreement has been re-negotiated.

34. Maintenance of Facilities by Owner

All facilities and matters required by this Agreement shall be provided and maintained by the Owner at its sole risk and expense in accordance with the standards determined by the Corporation and in default thereof and without limiting other remedies available to the Corporation, the provisions of Section 446 of the Municipal Act shall apply.

35. Agreement Binds Lands

It is specifically acknowledged and agreed that the burden of this Agreement shall run with the Lands. In this Agreement, "Owner" shall include any Owner of the Lands from time to time.

36. Enurement

This Agreement, including all its covenants, provisos, conditions and schedules shall enure to the benefit of and be binding upon the Parties hereto and their respective heirs, executors, administrators, successors and assigns.

37. Financial Securities

The Owner shall deliver to the Corporation a financial guarantee (certified cheque or irrevocable letter of credit – self renewing without burden of proof) for 50% of the value of on-site improvements required to be constructed under this Agreement (exclusive of the value of the solar energy facilities and other buildings and structures on the Lands) in addition to financial security in the amount of 100% of the value of all off-site works required to be constructed under this Agreement. The Owner's engineer and landscape architect shall provide a certified estimate of the value of such on-site and off-site work for consideration and approval by the Corporation's Director of Engineering and Infrastructure. Once the Corporation has inspected and approved the construction/installation/planting of such on-site and off-site works, the said financial guarantee and financial security shall be returned,

without interest, by the Corporation to the Owner, save and except for an amount equal to 15% of the value of such on-site and off-site improvements, which amount shall be retained by the Corporation for a period of one year following completion of construction of such works as security for the maintenance of such works by the Owner, and which amount shall be returned, without interest, by the Corporation to the Owner upon the approval by the Corporation of the construction/installation/planting of the said works at the end of such one year period

38. Due Authorization by Corporation

The Corporation hereby represents that the Corporation has the necessary power, authority and capacity to enter into this Agreement and to perform its obligations under this Agreement on the terms and subject to the conditions set out herein, and that the execution and delivery of this Agreement and performance by the Corporation of its obligations hereunder have been duly authorized by all requisite corporate and other proceedings on the part of the Corporation.

39. Notice

Any notice, direction, certificate, consent, determination or other communication required or permitted to be given or made under this Agreement shall be in writing and shall be effectively given and made if (i) delivered personally, (ii) sent by registered mail, or (iii) sent by electronic mail or other similar means of electronic communication, in each case to the applicable address set out below:

(a) if to the Owner, to:

1681351 Ontario Inc.
P.O. Box 517
4955 Walker Road
Windsor, ON N9A 6M6
Attention: Loris Collavino
Facsimile: (519) 737-6464

(b) if to the Corporation, to:

The Corporation of the Town of Amherstburg
271 Sandwich Street South
Amherstburg, ON N9V 2A5
Attention: Planning Coordinator
Facsimile: (519) 736-9859

(c) if to the Tenant, to:

Helios Project IV Limited Partnership
600 King Street West, Suite 200
Toronto, ON M5V 1M3
Attention: Winston Bennett
Facsimile: 1-866-509-0365

Any such communication so given or made shall be deemed to have been given or made and to have been received on the day of delivery if delivered, or on the day of sending by electronic or other means of recorded electronic communication, provided that such day in either event is a day other than a Saturday, Sunday or statutory holiday in the Province of Ontario (a "**Business Day**") and the communication is so delivered or sent before 4:30 p.m. EST on such day. Any such communication sent by registered mail shall be deemed to have been given and made and to have been received on the third Business Day following the mailing thereof; provided however that no such communication shall be mailed during any actual or apprehended disruption

of postal service. Otherwise, such communication shall be deemed to have been given and made and to have been received on the next following Business Day. Any such communication given or made in any other manner shall be deemed to have been given or made and to have been received only upon actual receipt.

Any party may from time to time change its address under this Section 39 by notice to the other parties given in the manner provided by this Section 39.

40. Counterparts

This Agreement may be signed in counterparts, including counterparts by facsimile, each of which shall be deemed an original and all of which when taken together shall constitute one instrument.

41. Governing Law

This Agreement shall be governed by and interpreted and enforced in accordance with the laws of the Province of Ontario and the federal laws of Canada applicable therein.

42. Agreement Supersedes Prior Agreements

This Agreement supersedes any other agreements related to the development of the Lands, whether written or oral, that may have been made or entered into between the Corporation and the Owner and/or the Tenant or any predecessor in interest to the Tenant under the Lease, including the Original Development Agreement and the Amending Agreement. This Agreement and the Schedules attached hereto constitute the entire agreement between the Corporation and either of the other parties with respect to the development of the Lands, and there are no other agreements between the Corporation and either of the other parties with respect to the development of the Lands except as set forth herein and therein.

IN WITNESS WHEREOF the parties have executed this Agreement.

1681351 ONTARIO INC.

Per: [Signature]
Name: LUIS COLLAVINO
Title: PRESIDENT

Per: _____
Name:
Title:

I/We have the authority to bind the Corporation

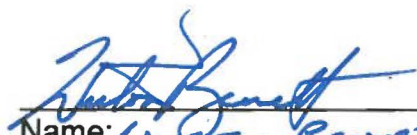
THE CORPORATION OF THE TOWN OF AMHERSBURG

Per: [Signature]
Mayor- Wayne Hurst

Per: [Signature]
Clerk- Brenda M. Percy

We have the authority to bind the Corporation

**HELIOS PROJECT IV LIMITED
PARTNERSHIP, by its general partner,
HELIOS PROJECT IV INC.**

Per: 
Name: WINSTON BENNETT
Title: VKE PRESIDENT

Per: _____
Name:
Title:

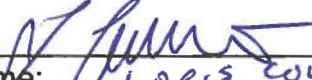
I/We have the authority to bind the
Corporation

SCHEDULE "A"

Legal Description of the Lands

PIN 01543-0164 (LT) being part of Lots 1 and 2 Concession 3 Anderdon designated as Parts 1 to 3 on Plan 12R-14374, Town of Amherstburg, County of Essex

1681351 ONTARIO INC.


Per: 
Name: LORIS COLLAVINO
Title: PRESIDENT

Per: _____
Name:
Title:

I/We have the authority to bind the Corporation

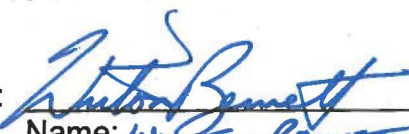
THE CORPORATION OF THE TOWN OF AMHERSBURG

Per: 
Mayor- Wayne Hurst

Per: 
Clerk- Brenda M. Percy

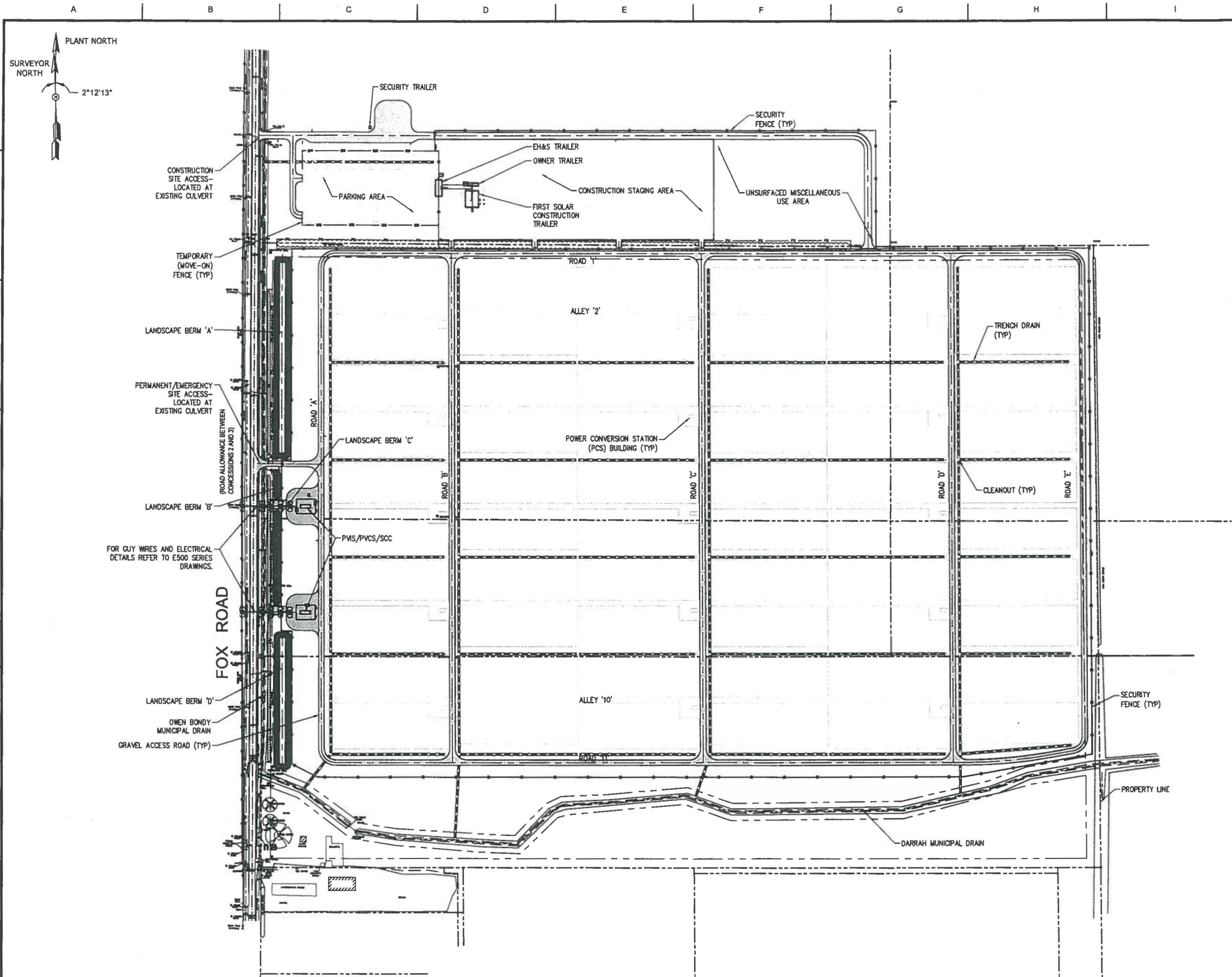
We have the authority to bind the Corporation

HELIOS PROJECT IV LIMITED PARTNERSHIP, by its general partner, HELIOS PROJECT IV INC.

Per: 
Name: WINSTON BENNETT
Title: VICE PRESIDENT

Per: _____
Name:
Title:

I/We have the authority to bind the Corporation



OVERALL SITE PLAN
SCALE: 1:2000

- NOTES:**
1. FOR GENERAL NOTES, SEE DWG C111.
 2. FOR LEGEND AND ABBREVIATIONS, SEE DWG C112.
 3. FOR SITE HORIZONTAL AND VERTICAL CONTROL MONUMENTS, SEE DWG. C241.

SCHEDULE "B-1" TO BY-LAW 2011-14

1681351 ONTARIO INC.
Per: *[Signature]*
Name: *LOUIS COLLETT*
Title: *PROJ. MGR.*

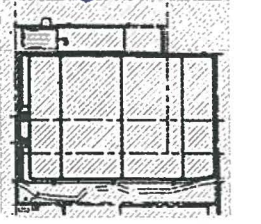
Per: _____
Name: _____
Title: _____

HELIOS PROJECT IV LIMITED PARTNERSHIP, by its general partner, HELIOS PROJECT IV INC.

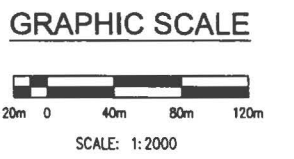
Per: *[Signature]*
Name: *WINSTON BENNETT*
Title: *VICE PRESIDENT*

Per: _____
Name: _____
Title: _____

TOWN OF AMHERSTBURG
[Signature]
MAYOR WAYNE HURST
[Signature]
CLERK- BRENDA M. PERCY



KEY PLAN
SCALE: NTS



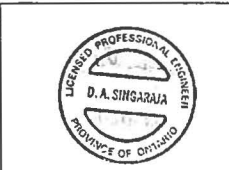
SCALE: 1:2000

REV	DATE	REVISION DESCRIPTION	BY	CHK	APP
1	01-19-2011	TOWN & MNR COMMENTS, RE-ISSUED FOR SPA	FWD	CE	MB
0	12-30-2010	IFC, PENDING SPA APPROVAL	MH	HK	CE



AMHERSTBURG 2 SOLAR FARM
191 CONCESSION 3 NORTH
AMHERSTBURG, ONTARIO N9V 2Y9

CONESTOGA-ROVERS & ASSOCIATES



PROJECT:	AMHERSTBURG 2 SOLAR FARM				
TITLE:	OVERALL SITE PLAN				
PROJ. MGR.	PROJ. ENGR.	DR. BY	CHK. BY	SCALE:	AS SHOWN
KEITH SYMMERS	MADHAN BROCKSTEIN	FWD	-	-	-
PROJ. DIRECTOR	PROJECT CODE	DRAWING No.	REV.		
KEITH SYMMERS		AMH2 C101	1		
FIRST SOLAR JOB No.	5043-0100-22				

THIS PRINT IS NOT TO BE USED FOR CONSTRUCTION UNLESS NOTED AND SIGNED OK FOR CONSTRUCTION ABOVE LAST REVISION.

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X:\Applications - Engineering\Projects\2010\5043-0100-22 Amherstburg 2 (Final)\Drawings\As-built Drawing Final\AMH2-C101.dwg 16/09/14 Jan 19, 2011 - 4:30pm

SAFETY NOTES

- SAFETY AND ENVIRONMENTAL RESPONSIBILITY ARE THE TOP TWO CORE VALUES OF FIRST SOLAR. SUB-CONTRACTOR SHALL PERFORM ALL WORK IN A SAFE AND RESPONSIBLE MANNER.
- THE CONTRACTOR SHALL COMPLY TO THE FULLEST EXTENT WITH THE LATEST ONTARIO OHS&A STANDARDS AND REGULATIONS, OR ANY OTHER AGENCY HAVING JURISDICTION FOR EXCAVATION AND TRENCHING PROCEDURES. THE CONTRACTOR IS RESPONSIBLE FOR DETERMINING THE MEANS AND METHODS REQUIRED TO MEET THE INTENT AND PERFORMANCE CRITERIA OF ONTARIO OHS&A, AS WELL AS ANY OTHER ENTITY THAT HAS JURISDICTION FOR EXCAVATION AND/OR TRENCHING PROCEDURES.

SURVEY NOTES

- MONUMENTS HAVE BEEN ESTABLISHED AS SHOWN ON DRAWING C241. COORDINATES, AND ELEVATIONS, FOR THESE MONUMENTS ARE PROVIDED ON THE MONUMENT AND FENCE PLAN. CONTRACTOR SHALL USE THESE MONUMENTS TO DETERMINE THE LOCATIONS FOR ALL REQUIRED WORK.
- ALL SURVEY WORK SHALL BE PERFORMED UNDER THE SUPERVISION OF A SURVEYOR LICENSED IN THE STATE, OR PROVINCE, WHERE THE WORK IS BEING PERFORMED.

CONTRACT NOTES

- IN CASES OF CONFLICT IN INFORMATION, OR MISSING INFORMATION, SUB-CONTRACTOR SHALL CONTACT FIRST SOLAR AND OBTAIN CLARIFICATION(S), BEFORE PROCEEDING WITH THE WORK.
- CIVIL DRAWINGS SHALL BE USED TOGETHER WITH SPECIFICATIONS, STRUCTURAL AND ELECTRICAL DRAWINGS, AS APPLICABLE.
- COPIES OF CONTRACT DRAWINGS SHALL NOT BE USED FOR SUBMISSION AS SHOP DRAWINGS. ALL REVISIONS SHALL BE IDENTIFIED ON THE SHOP DRAWINGS ON EACH SUBMISSION.
- SUB-CONTRACTOR IS RESPONSIBLE FOR ALL ITEMS OF CONSTRUCTION INDICATED ON THE CONTRACT DRAWINGS. SUBMISSION OF SHOP DRAWINGS FOR PARTIAL ITEMS OF WORK DOES NOT RELIEVE SUB-CONTRACTOR FOR BALANCE OF ITEMS ON CONTRACT DRAWINGS.
- CONSTRUCTION SHALL BE BASED ON DIMENSIONS SHOWN ON THE DRAWINGS. DRAWINGS SHALL NOT BE SCALED.

GENERAL SITEWORK NOTES

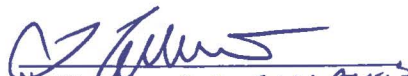
- ALL WORK SHALL BE PERFORMED IN ACCORDANCE WITH THE APPLICABLE FEDERAL, STATE (OR PROVINCIAL), AND LOCAL CODES
- ANY ADDITIONAL PERMITS SHALL BE OBTAINED BY THE SUB-CONTRACTOR
- LOCATIONS OF EXISTING CONDITIONS SHOWN ON DRAWINGS ARE BASED ON INFORMATION AVAILABLE AT THE TIME OF PREPARATION OF DRAWINGS, AND SHOULD BE CONSIDERED APPROXIMATE.
- SUB-CONTRACTOR SHALL FIELD VERIFY ALL EXISTING CONDITIONS, LOCATIONS, ELEVATIONS, AND DIMENSIONS PRIOR TO START OF WORK. SUB-CONTRACTOR SHALL NOTIFY FIRST SOLAR OF ANY DISCREPANCIES OR PROBLEMS WHICH COULD INTERFERE WITH SATISFACTORY COMPLETION OF THE WORK.
- CONTRACT DRAWINGS HAVE BEEN PREPARED BASED ON CURRENTLY AVAILABLE INFORMATION. ACTUAL FIELD CONDITIONS MAY REQUIRE MODIFICATIONS TO CONSTRUCTION DETAILS. SUB-CONTRACTOR SHALL NOTIFY FIRST SOLAR OF DIFFERING CONDITIONS, AND PERFORM WORK, BASED ON ACTUAL FIELD CONDITIONS, AS DIRECTED BY FIRST SOLAR.
- SUB-CONTRACTOR SHALL TAKE PRECAUTIONS TO PREVENT DAMAGE TO ANY ITEMS NOT INCLUDED IN THE SCOPE OF WORK, INCLUDING, BUT NOT LIMITED TO, EXISTING UTILITIES, MONUMENTS, MARKERS, IMPROVEMENTS, EQUIPMENT, STRUCTURES, ROADS AND PARKING AREAS. ANY DAMAGE CAUSED BY SUB-CONTRACTOR SHALL BE REPAIRED BY SUB-CONTRACTOR, AS APPROVED BY FIRST SOLAR AND/OR OTHER PARTIES AT NO ADDITIONAL COST TO FIRST SOLAR.
- ALL EROSION AND SEDIMENT CONTROL MEASURES SHALL BE IN PLACE PRIOR TO START OF GRADING OPERATIONS. THESE MEASURES SHALL BE MONITORED DURING CONSTRUCTION, REPAIRED AS REQUIRED AFTER EVERY SIGNIFICANT RAINFALL AND REMOVED AFTER CONSTRUCTION IS COMPLETE.
- NOT USED.
- SUB-CONTRACTOR SHALL LIMIT ALL WORK ACTIVITIES INCLUDING CONSTRUCTION STAGING, PARKING, LAYDOWN, ETC. TO BE INSIDE THE DEFINED PROPERTY LIMITS.
- SUB-CONTRACTOR TO NOTIFY FIRST SOLAR TWO (2) WORKING DAYS PRIOR OF ANY WORK TO BE PERFORMED OUTSIDE THE PROJECT LIMITS.
- CLEARING AND GRUBBING SHALL BE PERFORMED ONLY IN AREAS TO BE DISTURBED AS DEFINED WITHIN THE LIMITS OF DISTURBANCE AS SHOWN ON THE SOIL EROSION & SEDIMENT CONTROL PLANS.
- EXCAVATIONS SHALL BE CARRIED TO THE ELEVATIONS SHOWN ON THE CONTRACT DRAWINGS. ANY EXCAVATION CARRIED TO DEPTHS BELOW THOSE SHOWN ON THE DRAWINGS, AND NOT AUTHORIZED BY FIRST SOLAR, SHALL BE BACKFILLED WITH STRUCTURAL FILL AT NO ADDITIONAL COST TO FIRST SOLAR.
- NOT USED.
- STRUCTURAL FILL SHALL BE PLACED IN 8 INCH (200 mm) LIFTS MAXIMUM. THICKNESS SHALL BE MEASURED IN THE LOOSE CONDITION, PRIOR TO COMPACTION.
- STRUCTURAL FILL AND BACKFILL SHALL BE COMPACTED TO NOT LESS THAN 95% OF THE MAXIMUM DENSITY DETERMINED IN ACCORDANCE WITH ASTM D698, LATEST EDITION, UON.
- MINIMUM FREQUENCY OF TESTING SHALL BE AS PROVIDED BELOW:
TRENCHES: 1/500 LFT [150 LM] PER LFT
FOUNDATION BACKFILL: 1/100 LFT [30 LM] PER LFT
STRUCTURAL FILL IN ARRAY: 1/10,000 SFT [3,000 SM] PER LFT
ROAD SUBGRADE: 1/200 LFT [60 LM] PER LFT
ROAD SUB-BASE & BASE: 1/200 LFT [60 LM] PER LFT
- A MINIMUM OF ONE TEST PER LIFT PER DAY SHALL BE PERFORMED. FREQUENCY OF THE TESTING MAY BE INCREASED BY THE GEOTECHNICAL ENGINEER OR FIRST SOLAR, AS REQUIRED, DUE TO FIELD CONDITIONS AND/OR TESTS PERFORMED ON PLACED FILL.
- ALL TEST RESULTS SHALL BE REVIEWED AND APPROVED BY A GEOTECHNICAL ENGINEER, LICENSED IN THE STATE (OR PROVINCE) WHERE THE WORK IS BEING PERFORMED.
- ANY ADDITIONAL DEMOLITION OR CONSTRUCTION, NOT SHOWN ON DRAWINGS AND PERFORMED FOR CONSTRUCTION CONVENIENCE, SHALL BE RESTORED TO ITS ORIGINAL CONDITION, AS APPROVED BY FIRST SOLAR, AND AT NO ADDITIONAL COST TO FIRST SOLAR.
- SUB-CONTRACTOR SHALL UTILIZE ADEQUATE SAFEGUARDS TO MINIMIZE DUST, SEDIMENT, AND NOISE DUE TO DEMOLITION AND CONSTRUCTION ACTIVITIES.
- SUB-CONTRACTOR SHALL PROVIDE NECESSARY DEWATERING OF EXCAVATION SUCH THAT CONSTRUCTION CAN BE PERFORMED UNDER DRY CONDITIONS.
- IF ANY HISTORICAL ARTIFACTS ARE DISCOVERED DURING CONSTRUCTION, SUB-CONTRACTOR SHALL IMMEDIATELY STOP RELATED WORK AND NOTIFY FIRST SOLAR. WORK SHALL NOT RESUME UNLESS CLEARANCE TO RESUME WORK HAS BEEN PROVIDED BY FIRST SOLAR.
- FINAL GRADED SLOPES SHALL BE UNIFORM BETWEEN SPECIFIED CONTOURS AND/OR SPOT ELEVATIONS.
- THRU 55. NOT USED.
- ALL CLEARED AND/OR GRUBBED AREAS, EXCEPT AREAS COVERED WITH CRUSHED STONE OR PAVING SHALL BE SEEDED AND MULCHED. SUB-CONTRACTOR SHALL MAINTAIN SEEDED AREAS UNTIL FACILITY ACCEPTANCE. SEED MIX SHALL BE AS DESCRIBED ON C701.
- WOVEN GEOTEXTILE FABRIC SHALL BE MIRAFI STYLE 500X OR CONTRACTOR APPROVED EQUAL.
- ALL PAVEMENT EDGES SHALL BE SAW-CUT, TO THE FULL DEPTH OF THE EXISTING PAVEMENT, IN A STRAIGHT LINE, UON.
- NOT USED.
- NON-WOVEN GEOTEXTILE FABRIC SHALL BE MIRAFI STYLE 140NL OR CONTRACTOR APPROVED EQUAL.

SITE SPECIFIC NOTES:

- STRUCTURAL FILL MAY CONSIST OF IMPORTED MATERIALS OR SOIL EXCAVATED FROM THE SITE. STRUCTURAL FILL FROM EITHER SOURCE SHALL BE USED ONLY IF THE MATERIAL MEETS INDICATED REQUIREMENTS.
- MATERIAL FOR ROAD CONSTRUCTION SHALL BE GRANULAR B (TYPE II), IN ACCORDANCE WITH OPSS 1010, GRADATION SHALL BE AS FOLLOWS:
SIEVE SIZE % PASSING
106mm 100
26.5mm 50-100
4.75mm 20-55
1.18mm 10-40
300µm 5-22
75µm 0-10
- GRADATION FOR SIZE # 57 STONE, WHERE REQUIRED, SHALL BE IN ACCORDANCE WITH REQUIREMENTS IN ASTM C33, STANDARD SPECIFICATION FOR CONCRETE AGGREGATES. GRADATION SHALL BE AS FOLLOWS:
SIEVE SIZE % PASSING
1-1/2" 100
1" 95-100
1/2" 25-60
#4 0-10
#8 0-5
- PRIOR TO START OF CONSTRUCTION, FIRST SOLAR SHALL PREPARE A SITE SPECIFIC ENVIRONMENTAL MANAGEMENT PLAN (EMP). SUB-CONTRACTOR SHALL IMPLEMENT ALL REQUIREMENTS OF THE EMP AND BEST MANAGEMENT PRACTICES (BMP) FOR THE DURATION OF THE PROJECT. BMP SHALL INCLUDE STABILIZED CONSTRUCTION ACCESS, EROSION PROTECTION, PROTECTION OF ON-SITE MATERIALS, WASHOUT PITS, CONTROL OF PERIMETER WITH FIBRE ROLLS OR SILT FENCING, DRY STREET SWEEPING ETC.
- SUB-CONTRACTOR SHALL NOTIFY ONTARIO ONE CALL (1-800-400-2255) 5 DAYS PRIOR TO START OF CONSTRUCTION.
- SUB-CONTRACTOR SHALL NOTIFY ALL PUBLIC UTILITY COMPANIES, AND OWNERS OF PRIVATE UTILITIES, WITHIN THE SITE AREA PRIOR TO START OF CONSTRUCTION.
- SUB-CONTRACTOR SHALL NOTIFY THE TOWN OF AMHERSTBURG ENGINEERING DEPARTMENT, A MINIMUM OF 48 HOURS IN ADVANCE, PRIOR TO PERFORMING ANY WORK ON THE TOWNSHIP RIGHT-OF-WAY.
- NOT USED.
- SUB-CONTRACTOR SHALL PROTECT EXISTING MUNICIPAL DRAINS FROM DAMAGE. ANY DRAINS WHICH ARE DAMAGED SHALL BE RESTORED TO THEIR PRE-EXISTING CONDITION AT NO ADDITIONAL COST TO FIRST SOLAR AS REQUIRED.
- SUB-CONTRACTOR SHALL DECOMMISSION ALL WELLS INSIDE THE SITE AREA IN ACCORDANCE WITH MINISTRY OF ENVIRONMENT (MOE) REQUIREMENTS. FOR WELL CARD INFORMATION, CONTRACTOR SHALL CONTACT FIRST SOLAR.
- AFTER COMPLETION OF WORK, ALL EXISTING AND TEMPORARY UTILITY SERVICES THAT WILL NOT BE FURTHER REQUIRED, SHALL BE ABANDONED AS PER TOWN OF AMHERSTBURG STANDARD REGULATIONS AND/OR UTILITY PROVIDER REQUIREMENTS.
- THE DARRAH AND OWEN BONDY DRAINS MAY BE SUBJECT TO CONSTRUCTION TIMING RESTRICTIONS. ANY SUCH RESTRICTIONS SHALL BE ADHERED TO.
- THE SITE IS IN THE RANGE OF BUTLER'S GARTER SNAKE & EASTERN FOX SNAKE, WHO MAY CRAWL UP INTO THE MACHINERY. PRIOR TO COMMENCING CONSTRUCTION, SUB-CONTRACTOR SHALL REVIEW THE MITIGATION AND MEASURES PLAN WITH THE CONSTRUCTION MANAGER. DAILY PRACTICE SHALL ENSURE THAT ALL EQUIPMENT OPERATORS INSPECT MACHINERY PRIOR TO OPERATION. ALL PERSONNEL SHALL OPEN CAR HOODS FOR A SNAKE-CHECK PRIOR TO LEAVING THE SITE.

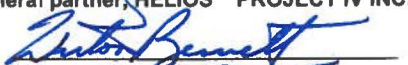
SCHEDULE "B-2" TO BY-LAW 2011-14

1681351 ONTARIO INC.

Per: 
Name: **BORIS CALAUAUD**
Title: **PRESIDENT**

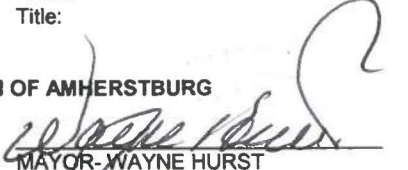
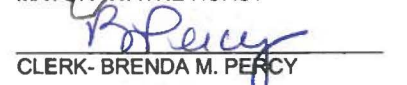
Per: _____
Name: _____
Title: _____

HELIOS PROJECT IV LIMITED PARTNERSHIP, by its general partner, HELIOS PROJECT IV INC.

Per: 
Name: **WINSTON BENNETT**
Title: **VPE PRESIDENT**


Per: _____
Name: _____
Title: _____

TOWN OF AMHERSTBURG


MAYOR- **WAYNE HURST**

CLERK- **BRENDA M. PERCY**

THIS PUBLICATION CONTAINS VALUABLE PROPRIETARY AND CONFIDENTIAL INFORMATION OF FIRST SOLAR, INC. (FIRST SOLAR) WHICH RETAINS ALL COPYRIGHT RIGHTS TO IT UNDER U.S. AND INTERNATIONAL LAW AND IS PROTECTED BY U.S. AND INTERNATIONAL LAW. ANY REPRODUCTION, PREPARATION OF DERIVATIVE WORKS, DISTRIBUTION, PUBLIC PERFORMANCE OR DISPLAY, DISSEMINATION AND/OR USE OF ALL, OR ANY PORTION, OF THIS PUBLICATION IN ANY FORM OR MEDIUM WITHOUT SPECIFIC WRITTEN AUTHORIZATION FROM FIRST SOLAR IS STRICTLY PROHIBITED.



1		01-19-2011	TOWN & MWR COMMENTS, RE-ISSUED FOR SPA	FWD	CE	MB
0		12-30-2010	IFC, PENDING SPA APPROVAL	MH	HR	CE
REV	DATE	REVISION DESCRIPTION	BY	CHK	APP	
 FIRST SOLAR DEVELOPMENT (CANADA) INC. 5115 BLACKWELL SIDING RD SARVIA, ONTARIO, N7T 7H3						
AMHERSTBURG 2 SOLAR FARM 191 CONCESSION 3 NORTH AMHERSTBURG, ONTARIO N9V 2Y9						
PROJECT: AMHERSTBURG 2 SOLAR FARM						
TITLE: GENERAL NOTES-CIVIL						
PROJ. MGR.	PROJ. ENGR.	DR. BY	CHK. BY	SCALE		
KEITH SYMANS	NARWAN BROOKESEN	MB	HR	AS NOTED		
PROJ. DIRECTOR	PROJECT CODE	DRAWING NO.	REV.			
KEITH SYMANS		AMH2 C111	1			
FIRST SOLAR JOB No.	5043-0100-22					
THIS PRINT IS NOT TO BE USED FOR CONSTRUCTION UNLESS NOTED AND SIGNED OK FOR CONSTRUCTION ABOVE LAST REVISION.						

X:\Applications - Engineering\Projects\2010\5043-0100-22 Amherstburg 2 (Heli) Drawings\Active Drawing File\AMH2-C111.dwg Is 10/27/11 Jan 19, 2011 - 4:38pm

NOTES:
1. FOR GENERAL NOTES, SEE DWG C111.

ABBREVIATIONS

- A AMPERE(S)
- AC ALTERNATING CURRENT
- AL ALUMINUM
- ALT ALTERNATE
- APPROX. APPROXIMATE
- BLDG. BUILDING
- BLKG. BLOCKING
- BM BEAM
- BMKX BENCHMARK
- BOT BOTTOM
- BW BOTTOM OF EXISTING WALL
- C CENTRE LINE
- CONDUIT CONDUIT
- CATV CABLE TELEVISION
- CB CIRCUIT BREAKER
- CKT CIRCUIT
- CLR CLEAR/CLEARANCE
- CMP CORRUGATED METAL PIPE
- CO CLEAN OUT
- COL COLUMN
- CONC CONCRETE
- COND CONDUCTOR
- CY CUBIC YARD
- D DEPTH
- DBL DOUBLE
- DC DIRECT CURRENT
- DEMO DEMOLITION
- DET DETAIL
- DS DESIGN GRADE
- DI DROP INLET
- DIP DUCTILE IRON PIPE
- DISC DISCONNECT SWITCH
- DN DOWN
- DWG DRAWING(S)
- E EASTING
- ELEV ELEVATION
- EMP ENVIRONMENTAL MONITORING PLAN
- EOR ENGINEER OF RECORD
- EP EDGE OF PAVEMENT
- EQ EQUAL
- E-TBR EXISTING TO BE REMOVED
- EX EXISTING
- FF FINISHED FLOOR
- FG FINISHED GRADE
- FH FIRE HYDRANT
- FL FLOW LINE
- FSE/FS FIRST SOLAR ELECTRIC FIRST SOLAR
- FT FOOT/FEET
- GA GAGE / GAUGE
- GB GRADE BREAK
- GALV GALVANIZE
- GR GRADE
- HP HIGH POINT
- HT HEIGHT
- HZ FREQUENCY (CYCLE PER SECOND)
- ID INSIDE DIAMETER
- INV INVERT
- JB JUNCTION BOX
- K KEY OPERATED
- KW KILOWATT(S)
- L LINE
- LF LINEAR FEET
- LL LIVE LOAD
- MFR MANUFACTURED
- MAX MAXIMUM
- MH MANHOLE
- MTL METAL
- MW MEGAWATT
- MIN MINIMUM
- # NUMBER
- N NEUTRAL
- NC NORMALLY CLOSED
- NOM NOMINAL
- NTS NOT TO SCALE
- OC ON CENTER
- OD OUTSIDE DIAMETER
- P PROPERTY LINE
- PCC PRECAST CONCRETE
- PCF POUND PER CUBIC FOOT
- PCS POWER CONVERSION STARTER
- PH PHASE
- PCC POINT OF CONNECTION
- PVC POLYVINYL CHLORIDE
- PVCS PHOTOVOLTAIC COMBINING SWITCHGEAR
- PMS PHOTOVOLTAIC INTERCONNECTION SWITCHGEAR
- R RADIUS
- RC REINFORCED CONCRETE
- RGS RIGID GALVANIZED STEEL
- R/W RIGHT OF WAY
- SD STORM DRAIN
- SL STREET LIGHT
- SPEC SPECIFICATION
- SPACD STANDARD PROCTOR MAXIMUM DRY DENSITY
- SO SQUARE
- SS SANITARY SEWER
- SST STAINLESS STEEL
- STA STATION
- STD STANDARD
- STL STEEL
- SW SWITCH
- T TELEPHONE
- TB TERMINAL BLOCK
- TEMP TEMPORARY
- THK THICK
- TW TOP OF WALL
- TYP TYPICAL
- VF VERIFY IN FIELD
- VERT VERTICAL
- W WATT(S)
- W/ WITH
- WP WEATHERPROOF
- XPWR TRANSFORMER

LEGEND

- BOUNDARY LINE
- EASEMENT
- EXISTING MAJOR CONTOUR (m)
- EXISTING MINOR CONTOUR (m)
- EXISTING EP PIPELINE
- EXISTING ELECTRICAL
- EXISTING WATER MAIN
- EXISTING STORM DRAIN
- EXISTING GAS LINE
- EXISTING BUILDING
- EXISTING TREE LINE
- EXISTING POWER POLE
- EXISTING FIRE HYDRANT
- EXISTING RAILROAD
- PROPOSED TRANSFORMER
- PROPOSED DRAIN PIPES
- PROPOSED FIBRE ROLL / LIMIT OF DISTURBANCE
- PROPOSED SILT FENCE / LIMIT OF DISTURBANCE
- TREE PROTECTION FENCE
- SECURITY FENCE
- SWITCHYARD FENCE
- TEMPORARY (MOVE-ON) FENCE
- PROPOSED ARRAY BOUNDARY
- PROPOSED CONTOUR
- PROPOSED UNDER GROUND ELECTRICAL WIRING
- PROPOSED OVERHEAD TRANSMISSION LINE
- OVERLAND DRAINAGE FLOW PATTERN
- FLOW DIRECTION IN DRAIN
- ARRAY (COMPRISED OF 4 SUB-ARRAYS)
- SUB ARRAY (4 PER ARRAY)
- DEMOLITION AREA
- LANDSCAPE BERM
- TEMPORARY TOPSOIL STOCKPILE
- MANAGED MEADOW
- TALL GRASS PRAIRIE
- AREA TO REMAIN UNDER AGRICULTURAL PRODUCTION OR APPROPRIATE GROUND COVER
- GRAVEL

SCHEDULE "B-3" TO BY-LAW 2011-14

1681351 ONTARIO INC.

Per: [Signature]
Name: WORLD'S COLLAR
Title: PRESIDENT

Per: _____
Name: _____
Title: _____

HELIOS PROJECT IV LIMITED PARTNERSHIP, by its general partner, HELIOS PROJECT IV INC.

Per: [Signature]
Name: WINSTON BENNETT
Title: VICE PRESIDENT

Per: _____
Name: _____
Title: _____

TOWN OF AMHERSTBURG

[Signature]
MAYOR WAYNE HURST
[Signature]
CLERK- BRENDA M. PERCY


REV	DATE	REVISION DESCRIPTION	BY	CHK	APP
1	01-19-2011	TOWN & LMR COMMENTS, RE-ISSUED FOR SPA	FWD	CE	NB
0	12-30-2010	IFC, PENDING SPA APPROVAL	MH	HK	CE



FIRST SOLAR DEVELOPMENT (CANADA) INC.
3118 BLACKWELL SIDERDASH
SARNA, ONTARIO, M7T 7H3

AMHERSTBURG 2 SOLAR FARM
191 CONCESSION 3 NORTH
AMHERSTBURG, ONTARIO N9V 2Y9

CONESTOGA-ROVERS & ASSOCIATES



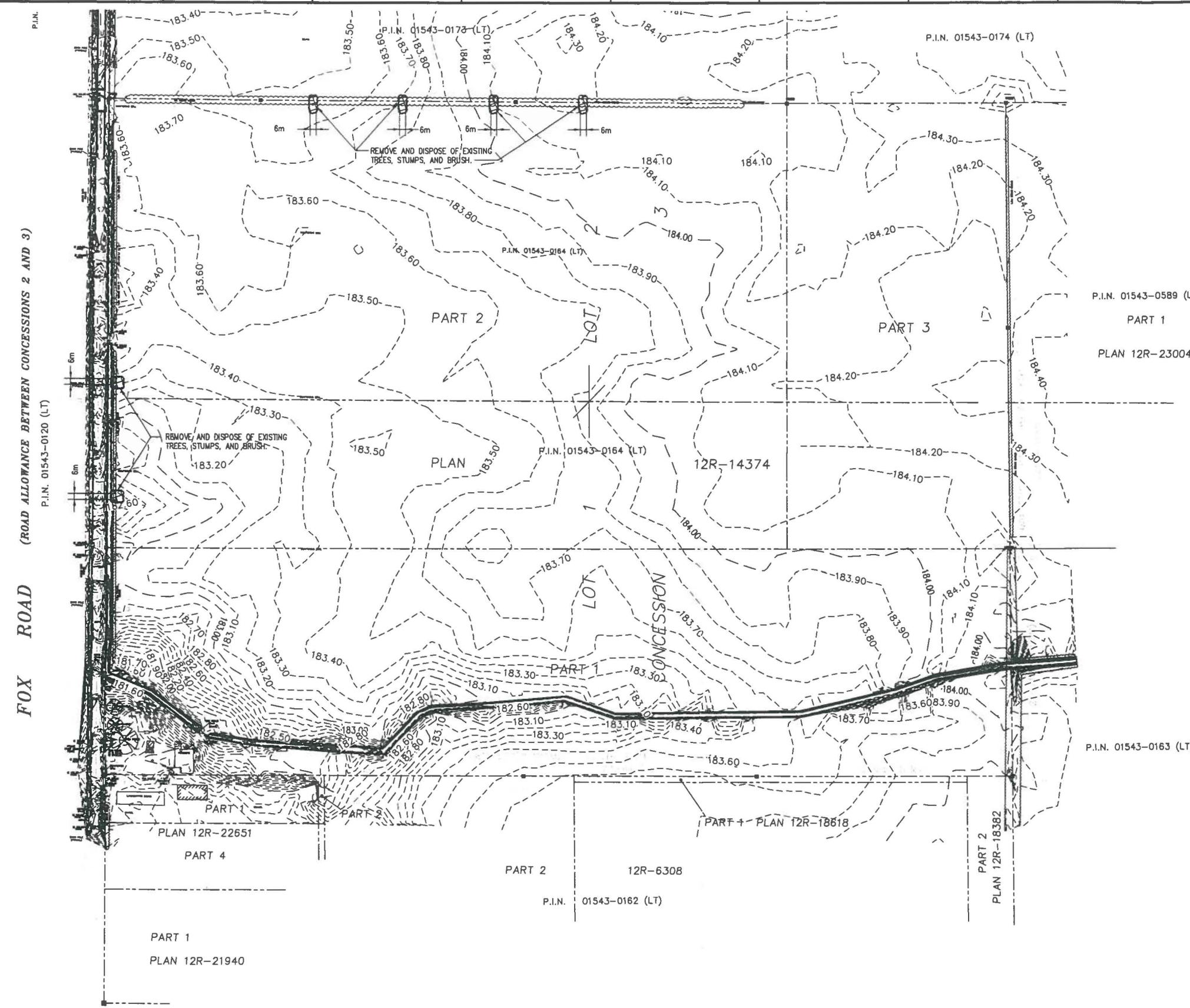
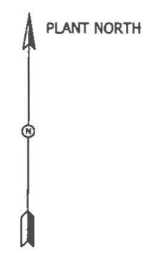
D. A. SINGARAJA
PROFESSIONAL ENGINEER
PROVINCE OF ONTARIO

ABBREVIATIONS AND LEGEND - CIVIL			
PROJ. MGR. NORM SYMMERS	PROJ. ENGR. MATTHEW BROOCHSTEIN	DR. BY -	CHK. BY SCALE: NONE
PROJ. DIRECTOR ESTER SYMMERS	PROJECT CODE AMH2	DRAWING NO. C112	REV. 1
FIRST SOLAR JOB No. 5043-0100-22			

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A B C D E F G H I J K



- NOTES:**
1. DUE TO THE PRESENCE OF EASTERN FOXSNAKE IN THE VICINITY OF THE PROJECT, THE SHOWN DEMOLITION OF VEGETATION MAY ONLY TAKE PLACE BETWEEN DECEMBER 1 AND MARCH 30, OR BETWEEN JUNE 1 AND SEPTEMBER 30. EACH AREA OF VEGETATION DEMOLITION MAY BE 6 METRES WIDE, MAXIMUM.
 2. SEE NOTE 83 ON DWG. C111 FOR ADDITIONAL REQUIREMENTS RELATED TO THE EASTERN FOXSNAKE.
 3. DEMOLISHED VEGETATION MAY BE SHREDDED AND USED AS MULCH OR DISPOSED OFFSITE.

SCHEDULE "B-4" TO BY-LAW 2011-14

1681351 ONTARIO INC.

Per:
 Name: Lore's Colquhoun
 Title: President

Per: _____
 Name: _____
 Title: _____

HELIOS PROJECT IV LIMITED PARTNERSHIP, by its general partner, HELIOS PROJECT IV INC.

Per:
 Name: Winston Bennett
 Title: Vice President

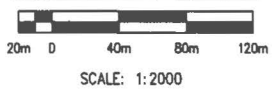
Per: _____
 Name: _____
 Title: _____

TOWN OF AMHERSTBURG

 Mayor - Wayne Hurst

 Clerk - Brenda M. Percy

GRAPHIC SCALE



REV	DATE	REVISION DESCRIPTION	BY	CHK	APP
1	01-19-2011	TOWN & MHC COMMENTS, RE-ISSUED FOR SPA	FWD	CE	NB
0	12-30-2010	IFC, PENDING SPA APPROVAL	MH	HK	CE

FIRST SOLAR DEVELOPMENT (CANADA) INC.
 3118 BLACKWELL RIDGE ROAD
 SARNAIA, ONTARIO, N7Y 7Y9

AMHERSTBURG 2 SOLAR FARM
 191 CONCESSION 3 NORTH
 AMHERSTBURG, ONTARIO N9V 2Y9

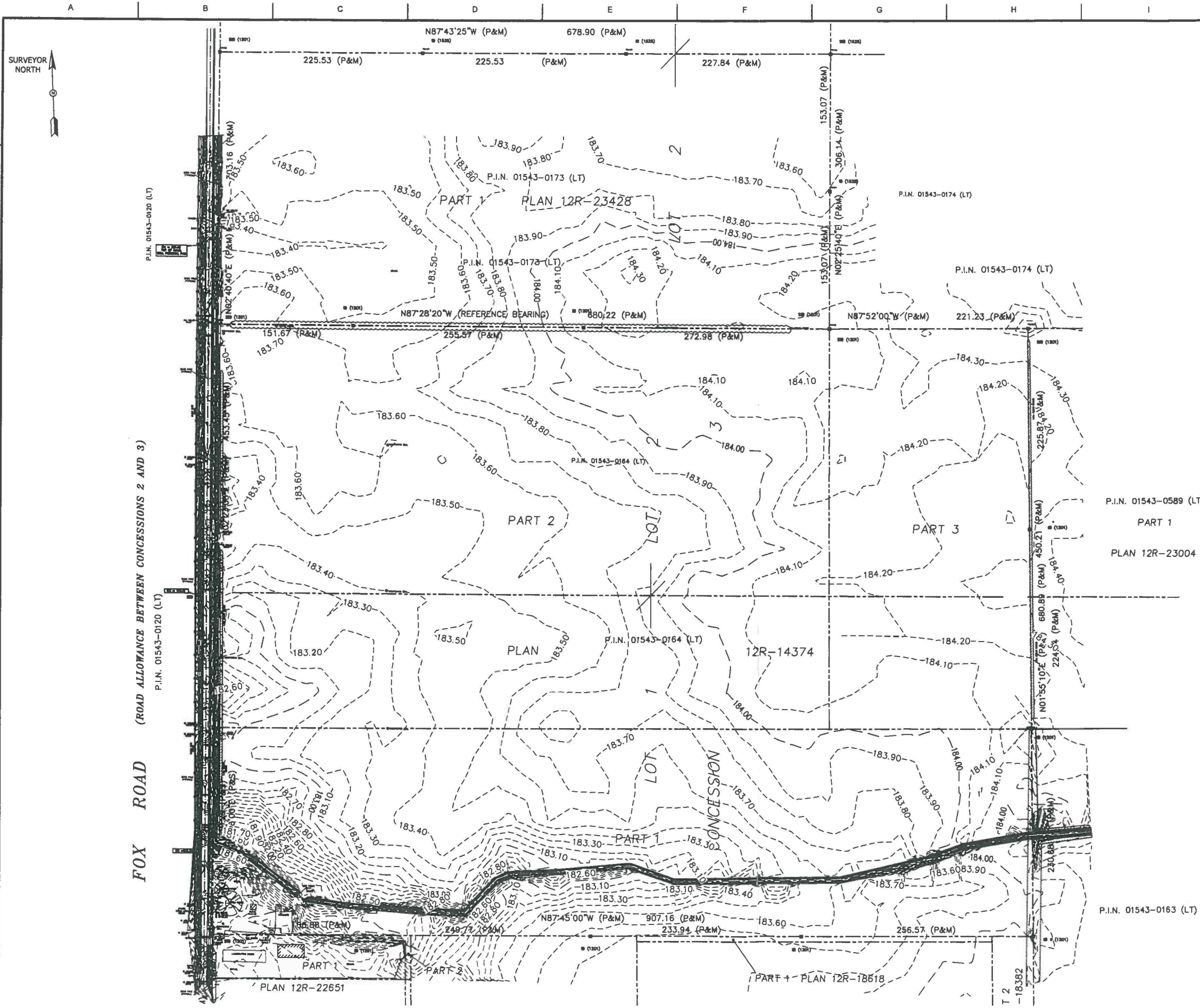
PROJECT: AMHERSTBURG 2 SOLAR FARM		TITLE: DEMOLITION PLAN	
PROJ. MGR. KEITH STAMERS	PROJ. ENGR. NATHAN BROOCHSTEIN	DR. BY MH	CHK. BY SCALE: EG AS NOTED
PROJ. DIRECTOR KEITH STAMERS	PROJECT CODE AMH2	DRAWING No. C131	REV. 1
FIRST SOLAR - JOB No. 5043-0100-22			

THIS PRINT IS NOT TO BE USED FOR CONSTRUCTION UNLESS NOTED AND SIGNED OK FOR CONSTRUCTION ABOVE LAST REVISION.
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DEMOLITION PLAN
 SCALE: 1:2000

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NOTES:
 ALL INFORMATION ON THIS DRAWING IS BASED ON A SURVEY PREPARED BY:
 TOTAL TECH SURVEYING
 316 TALBOT ST. NORTH UNIT 4
 ESSEX ON N8M2E2
 (519) 818-2787
 DATED OCTOBER 1, 2010
 LAST REVISION DATE: DECEMBER 1, 2010

SCHEDULE "B-5" TO BY-LAW 2011-14

1681351 ONTARIO INC.

Per: *[Signature]*
 Name: **LORIS COLLAVINO**
 Title: **PRESIDENT**

Per: _____
 Name: _____
 Title: _____

HELIOS PROJECT IV LIMITED PARTNERSHIP, by its general partner HELIOS PROJECT IV INC.

Per: *[Signature]*
 Name: **ANASTAS BENNETT**
 Title: **VICE PRESIDENT**

Per: _____
 Name: _____
 Title: _____

TOWN OF AMHERSTBURG

[Signature]
 Name: **WAYNE HURST**
 Title: **MAYOR**
[Signature]
 Name: **BRENDA M. PERCY**
 Title: **CLERK**

GRAPHIC SCALE



REV	DATE	REVISION DESCRIPTION	BY	CHK	APP
1	01-19-2011	TOWN & MNR COMMENTS, RE-ISSUED FOR SPA	FWD	CE	MB
0	12-30-2010	IFC, PENDING SPA APPROVAL	MH	HK	CE

FIRST SOLAR DEVELOPMENT (CANADA) INC.
 3115 BLACKWELL EBERHARD
 SARNA, ONTARIO, M7T 2Y9

AMHERSTBURG 2 SOLAR FARM
 191 CONCESSION 3 NORTH
 AMHERSTBURG, ONTARIO N9V 2Y9

CONESTOGA-ROVERS & ASSOCIATES

PROJECT: AMHERSTBURG 2 SOLAR FARM		TITLE: EXISTING CONDITIONS	
PROJ. MGR. KEVIN SYMMERS	PROJ. ENGR. MAYMAN BROOCHSTEIN	DR. BY FWD	CHK. BY SCALE: AS NOTED
PROJ. DIRECTOR KEVIN SYMMERS	PROJECT CODE FIRST SOLAR JOB No.	DRAWING No. AMH2 C121	REV. 1
5043-0100-22		THIS PRINT IS NOT TO BE USED FOR CONSTRUCTION UNLESS NOTED AND SIGNED OK FOR CONSTRUCTION ABOVE LAST REVISION.	

EXISTING CONDITIONS

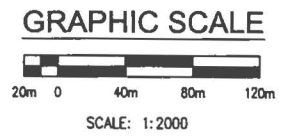
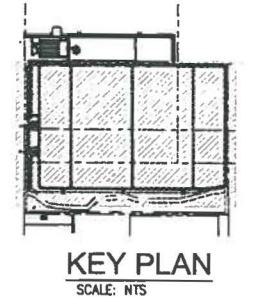
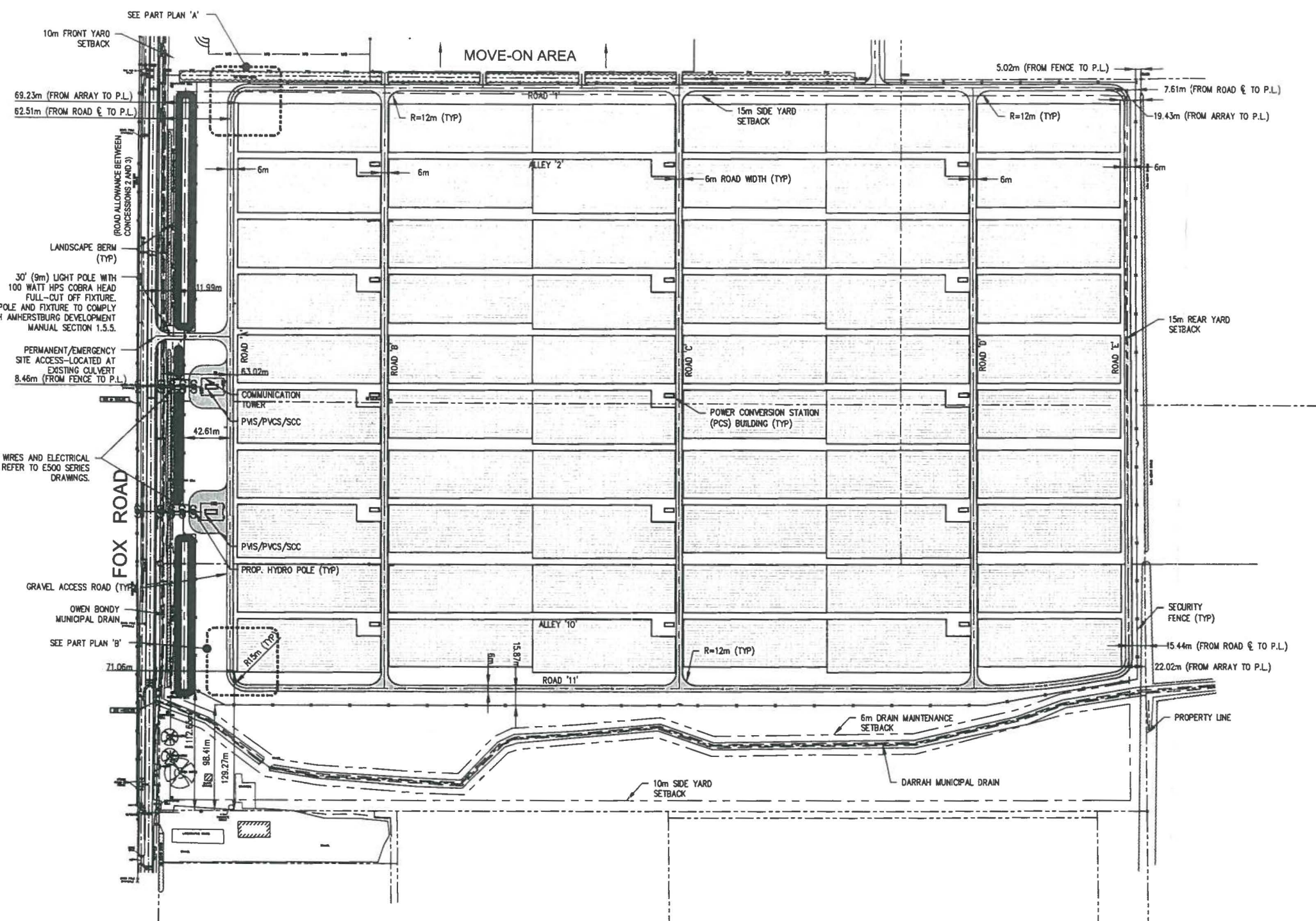
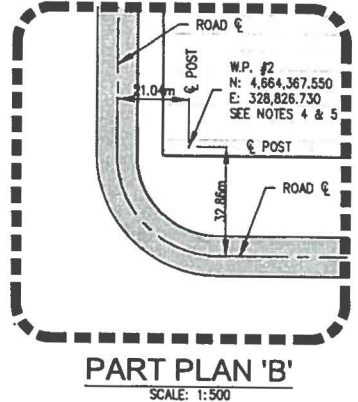
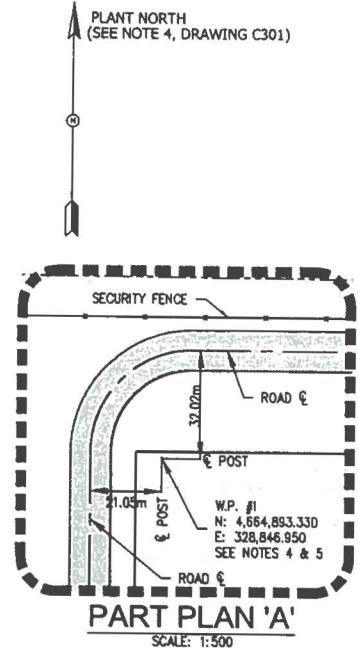
SCALE: 1:2000

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X:\Applications\Projects\2010\5043-0100-22 Amherstburg 2 (Revised)\Drawings\Vacare Drawing Files\AMH2-C121.dwg is 105794 Jun 19, 2011 - 4:36pm

A B C D E F G H I J K

- NOTES:**
1. FOR SITE HORIZONTAL AND VERTICAL CONTROL MONUMENTS, SEE DWG C241.
 2. FOR GENERAL NOTES, SEE DWG C111.
 3. FOR LEGEND AND ABBREVIATIONS, SEE DWG C112.
 4. PLANT NORTH IS DEFINED AS THE DIRECTION FROM WP#1 TO WP#2.
 5. WP#1 AND WP#2 ARE AT THE CENTERLINE LOCATIONS OF THE CORNER POSTS IN EACH SUB-ARRAY.



SCHEDULE "B-6" TO BY-LAW 2011-14

1681351 ONTARIO INC.

Per: *[Signature]*
Name: **LORIS COLLAVALINO**
Title: **PRESIDENT**

Per: _____
Name: _____
Title: _____

HELIOS PROJECT IV LIMITED PARTNERSHIP, by its general partner HELIOS PROJECT IV INC.

Per: *[Signature]*
Name: **WINNIE BENNETT**
Title: **VICE PRESIDENT**

Per: _____
Name: _____
Title: _____

TOWN OF AMHERSTBURG

[Signature]
MAYOR WAYNE HURST
[Signature]
CLERK BRENDA M. PERCY

CONESTOGA-ROVERS & ASSOCIATES



1	01-19-2011	TOWN & MNR COMMENTS, RE-ISSUED FOR SPA	FWD	CE	NB
0	12-30-2010	IFC, PENDING SPA APPROVAL	MH	HK	CE
REV	DATE	REVISION DESCRIPTION	BY	CHK	APP
<p>FIRST SOLAR DEVELOPMENT (CANADA) INC. 5115 BLACKWELL SIDEROAD AMHERSTBURG, ONTARIO, N7Y 2Y9</p>					
<p>AMHERSTBURG 2 SOLAR FARM 191 CONCESSION 3 NORTH AMHERSTBURG, ONTARIO N9V 2Y9</p>					
<p>PROJECT: AMHERSTBURG 2 SOLAR FARM</p>					
<p>TITLE: OVERALL LAYOUT PLAN</p>					
PROJ. MGR.	PROJ. ENGR.	DR. BY	CHK. BY	SCALE	AS SHOWN
KEITH SYMMERS	NATHAN BROOKE	FWD	-	-	-
PROJ. DIRECTOR	PROJECT CODE	DRAWING No.	REV.		
KEITH SYMMERS	AMH2	C301	1		
FIRST SOLAR JOB No.					
5043-0100-22					

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PLANT NORTH
(SEE NOTE 4, DRAWING C301)

- NOTES:**
- FOR GENERAL NOTES, SEE DWG C111.
 - FOR LEGEND AND ABBREVIATIONS, SEE OWG C112.
 - MAINTAIN EXISTING GRADES, UON.

- GENERAL TRAFFIC CONTROL NOTES:**
- THE SUBCONTRACTOR SHALL PROVIDE A TRAFFIC CONTROL PLAN TO THE APPLICABLE ROAD AUTHORITY FOR REVIEW AND APPROVAL PRIOR TO PERFORMING ANY WORK ON A PUBLIC ROADWAY AS PER THE ONTARIO TRAFFIC MANUAL - BOOK 7. THE MINIMUM REQUIREMENTS FOR A PLAN ARE PROVIDED HEREIN FOR THE SUBCONTRACTOR TO USE.
 - AN OVERSIZED TRUCK ENTRANCE SIGN (TC-31R) SHOULD BE INSTALLED ON FOX ROAD IN THE DIRECTION OF TRAVEL. THE EDUCATIONAL TRUCK ENTRANCE TAB SIGN (TC-31I) SHOULD BE ATTACHED JUST BELOW THE TRUCK ENTRANCE SIGN (TC-31R). THE SAME SIGNING IS REQUIRED IN THE OPPOSITE DIRECTION USING TC-31L AND TC-31L.
 - ALL SIGNS SHALL BE LOCATED AND PLACED IN ACCORDANCE WITH THE ONTARIO TRAFFIC MANUAL.
 - DETAILS FOR TRUCK ENTRANCE, ENTRANCE, NO PARKING, STOP AND HANDICAPPED ACCESSIBLE PARKING ARE PROVIDED ON SHEET C901.
 - DETAILS FOR THE SPEED LIMIT, SAFETY AND SECURITY SIGNS ARE PROVIDED IN THE PROJECT SPECIFICATIONS. CONSULT THE SPECIFICATION PACKAGE FOR DIMENSIONS, MATERIALS AND TEXT OF THESE SIGNS.

SCHEDULE "B-7" TO BY-LAW 2011-14

1681351 ONTARIO INC.
 Per: *[Signature]*
 Name: **LOUIS COLLAUINO**
 Title: **PRESIDENT**

Per: _____
 Name: _____
 Title: _____

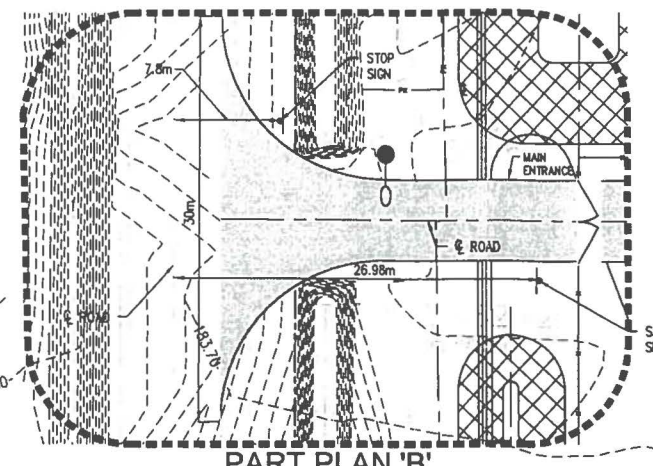
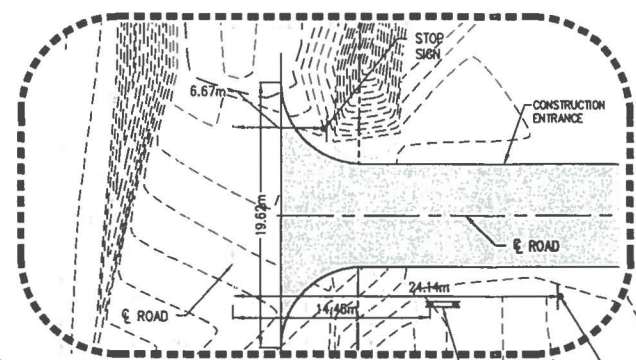
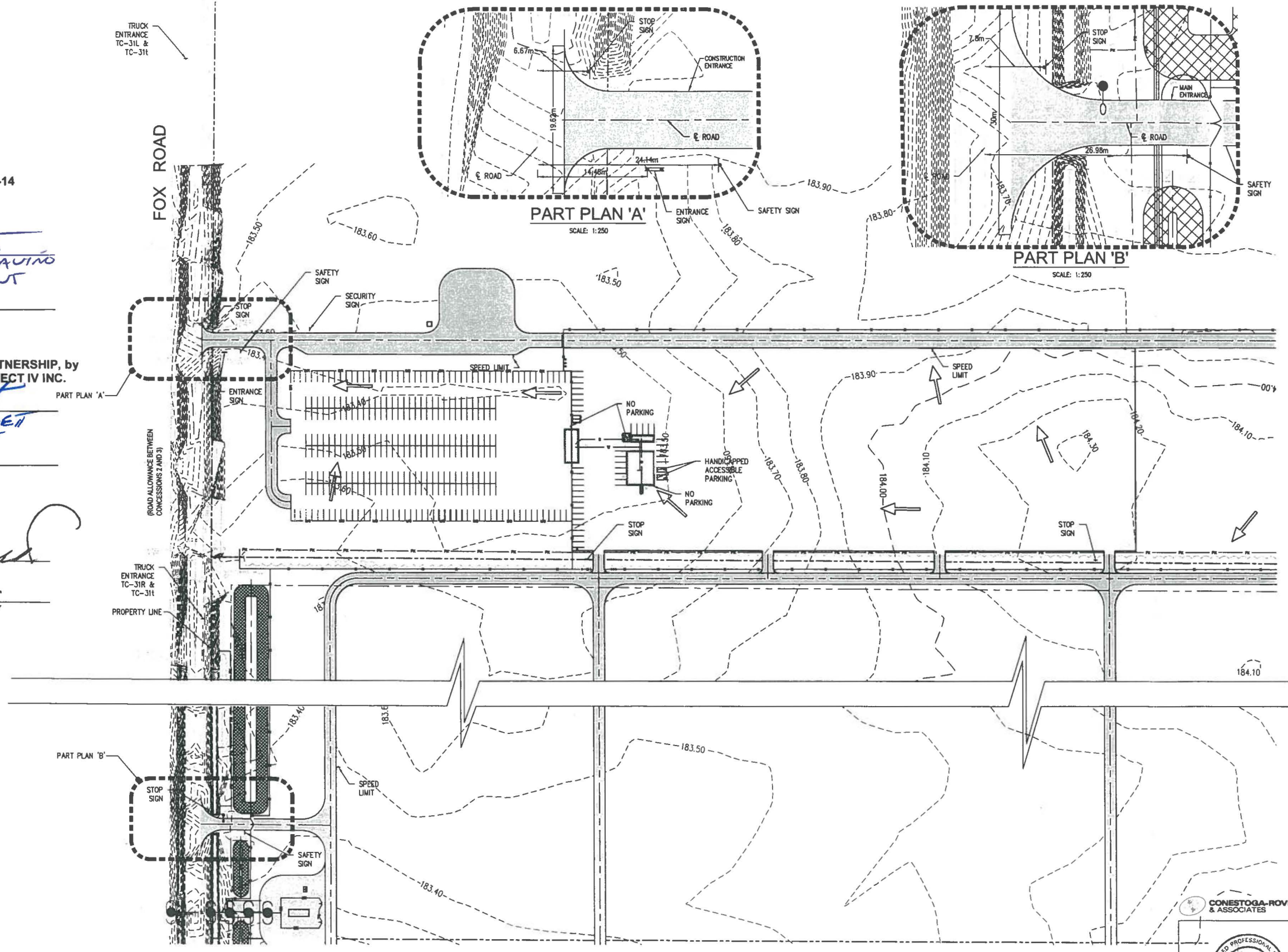
HELIOS PROJECT IV LIMITED PARTNERSHIP, by its general partner, HELIOS PROJECT IV INC.

Per: *[Signature]*
 Name: **WINSTON BENNETT**
 Title: **VICE PRESIDENT**

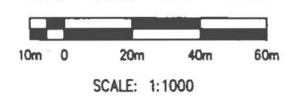
Per: _____
 Name: _____
 Title: _____

TOWN OF AMHERSTBURG

[Signature]
 MAYOR WAYNE HURST
[Signature]
 CLERK- BRENDA M. PERCY



GRAPHIC SCALE



REV	DATE	REVISION DESCRIPTION	BY	CHK	APP
1	01-19-2011	TOWN & MHR COMMENTS, RE-ISSUED FOR SPA	FWD	CE	MH
0	12-30-2010	IFC, PENDING SPA APPROVAL	MH	HK	CE

First Solar
 FIRST SOLAR DEVELOPMENT (CANADA) INC.
 5115 BLACKWELL SIDEROAD
 SARNA, ONTARIO, M7T 7H3

AMHERSTBURG 2 SOLAR FARM
 191 CONCESSION 3 NORTH
 AMHERSTBURG, ONTARIO N9V 2Y9

PROJECT: AMHERSTBURG 2 SOLAR FARM

TRAFFIC CONTROL AND SIGNAGE PLAN

PROJ. MGR. KEVIN SYMERS	PROJ. ENGR. MARIAN BRUCHSTEIN	DR. BY FWD	CHK. BY FWD	SCALE: AS NOTED
FIRST SOLAR JOB No. 5043-0100-22	PROJECT CODE AMH2	DRAWING No. C801	REV. 1	

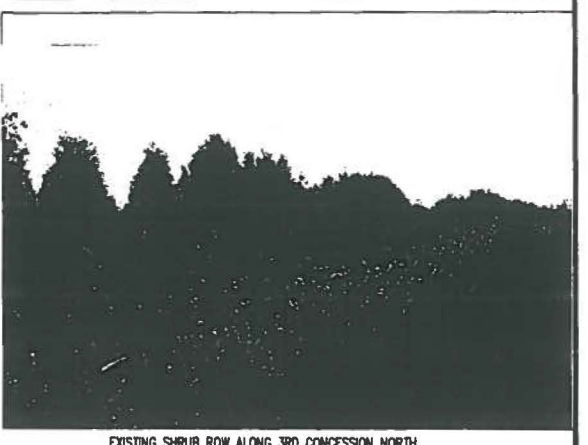
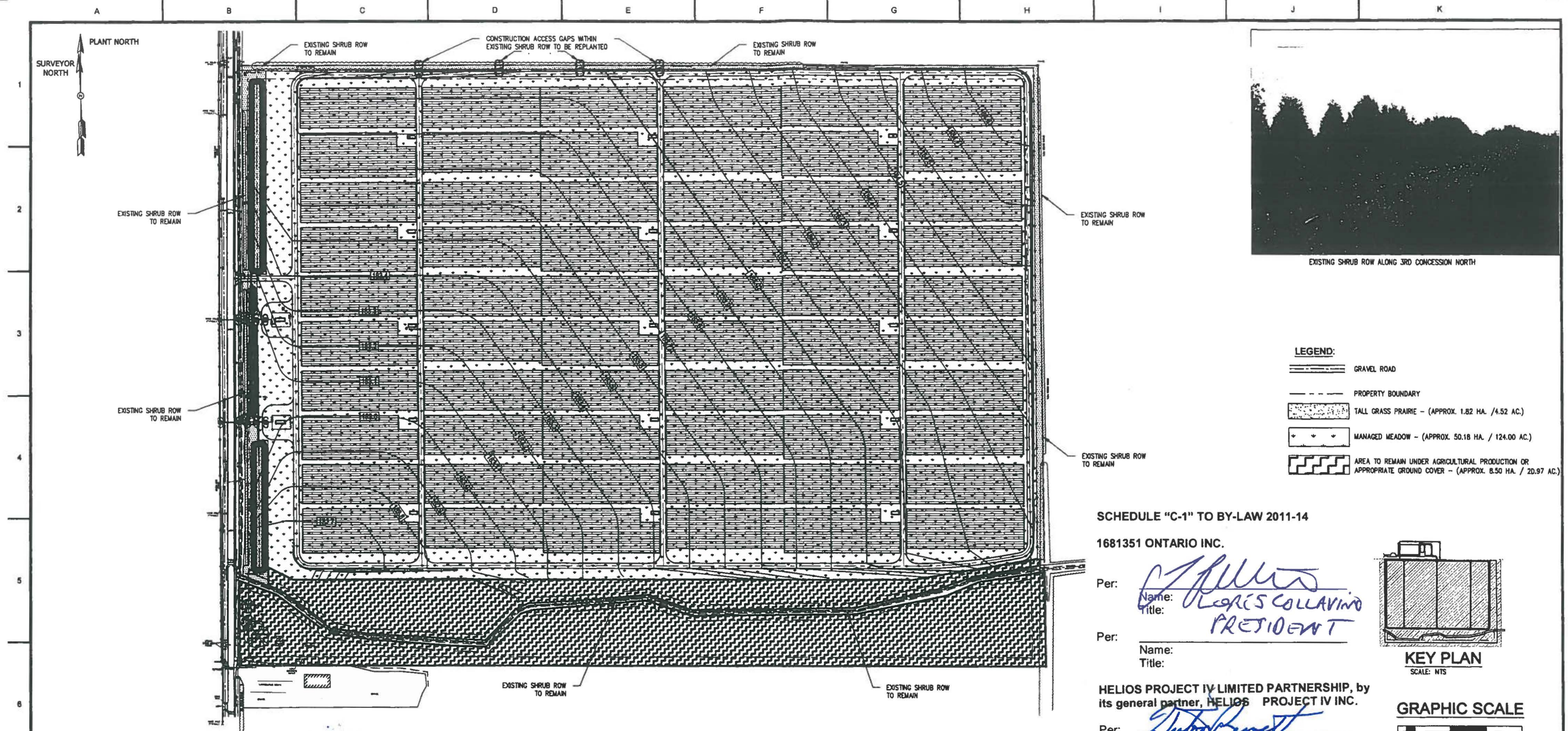


TRAFFIC CONTROL AND SIGNAGE PLAN

SCALE: 1:1000

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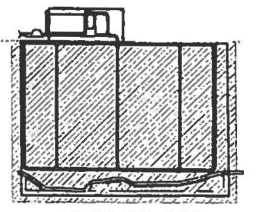
EXISTING SHRUB ROW ALONG 3RD CONCESSION NORTH

- LEGEND:**
- GRAVEL ROAD
 - PROPERTY BOUNDARY
 - TALL GRASS PRAIRIE - (APPROX. 1.82 HA. / 4.52 AC.)
 - MANAGED MEADOW - (APPROX. 50.18 HA. / 124.00 AC.)
 - AREA TO REMAIN UNDER AGRICULTURAL PRODUCTION OR APPROPRIATE GROUND COVER - (APPROX. 8.50 HA. / 20.97 AC.)

SCHEDULE "C-1" TO BY-LAW 2011-14

1681351 ONTARIO INC.

Per: *[Signature]*
 Name: **LORES COLLAVINO**
 Title: **PRESIDENT**

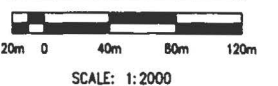


KEY PLAN
SCALE: NTS

HELIOS PROJECT IV LIMITED PARTNERSHIP, by its general partner, HELIOS PROJECT IV INC.

Per: *[Signature]*
 Name: **WILSON BENNETT**
 Title: **VICE PRESIDENT**

GRAPHIC SCALE



SCALE: 1:2000

FIELD PLANTINGS PLAN

SCALE: 1:2000

TALL GRASS PRAIRIE SEED MIX		
Botanical Name	Common Name	Percentage (%)
<i>Corynephorus leucostachya</i>	Lemon Leaf Ceregrass	25
<i>Asclepias tuberosa</i>	Butterfly Milkweed	25
<i>Urtica spicata</i>	Prickly Burning Star	25
<i>Lepachium pumilum</i>	Wild Lupinus	25
<i>Onocrotium dielsii</i>	Evening Primrose	25
<i>Mimulus lewisii</i>	Scarlet, Wild Bergamot	25
<i>Rudbeckia hirta</i>	Black-Eyed Susan	25
<i>Desmodium illinoense</i>	Canada Tick-Toad	25
<i>Rhizoma spicatum</i>	Sty Headed Cone Flower	25
<i>Aster spicatus</i>	Heath Aster	25
<i>Panicum capillare</i>	Sea-Rocket	25
<i>Hesperis matronalis</i>	Or Eye Sandewee	25
<i>Helianthus scaberrimus</i>	Pink Leaved Sunflower	25
<i>Aster spicatus</i>	Sty Blue Aster	25
<i>Dryas octopetala</i>	Canada Wild Eye	100
<i>Sparganium angustifolium</i>	Indian Grass	100
<i>Panicum virginicum</i>	Switch Grass	100
<i>Andropogon gerardii</i>	Big Bluestem	100

MANAGED MEADOW SEED MIX		
Botanical Name	Common Name	Percentage (%)
<i>Aquilegia canadensis</i>	Wild Columbine	35
<i>Aster novae-angliae</i>	Blue Crisped Aster	35
<i>Asclepias tuberosa</i>	Butterfly Weed	35
<i>Onocrotium dielsii</i>	Evening Primrose	35
<i>Fuchsia heterophylla</i>	Wandering Jew	400
<i>Dryas octopetala</i>	Canada Wild Eye	400

Per: _____
 Name: _____
 Title: _____

TOWN OF AMHERSTBURG

[Signature]
MAYOR WAYNE HURST
[Signature]
CLERK- BRENDA M. PERCY

1	07-19-2011	TOWN & URBAN COMMENTS, RE-ISSUED FOR SPA	FWO	CE	MS
0	12-30-2010	FC- PENDING SPA APPROVAL	MH	HK	CE
REV	DATE	REVISION DESCRIPTION	BY	CHK	APP

AMHERSTBURG 2 SOLAR FARM
 191 CONCESSION 3 NORTH
 AMHERSTBURG, ONTARIO N6V 2Y9

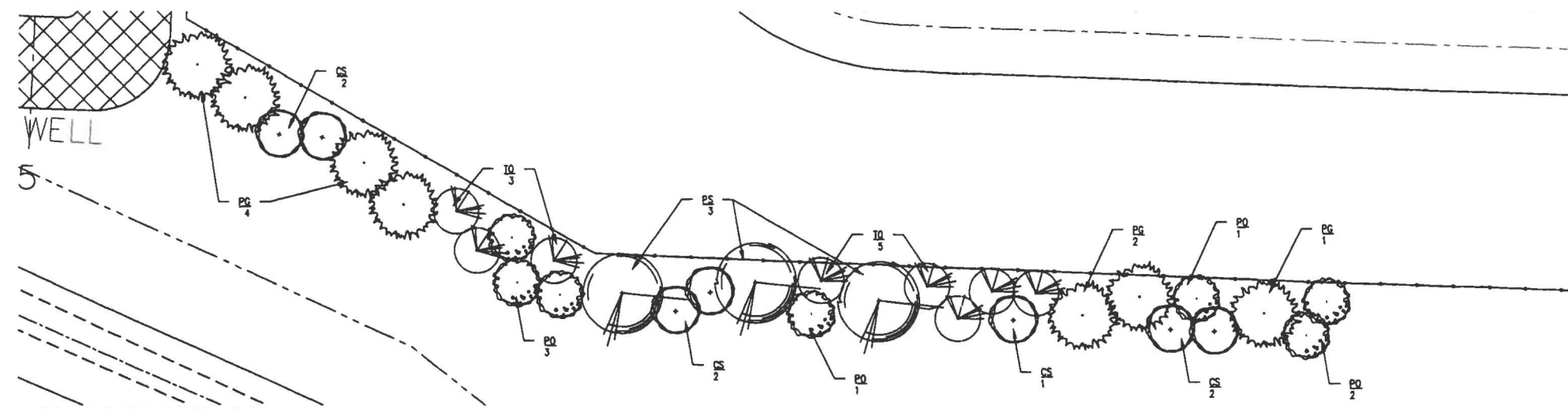
PROJECT: AMHERSTBURG 2 SOLAR FARM
 TITLE: FIELD PLANTINGS PLAN

PROJ. MGR. KATH SYMMERS	PROJ. ENGR. NATHAN BROOKSTEIN	DR. BY KATH SYMMERS	SCALE AS SHOWN
PROJ. DIR. KATH SYMMERS	PROJECT CODE 5043-0100-22	DRAWING No. AMH2 C701	REV. 1

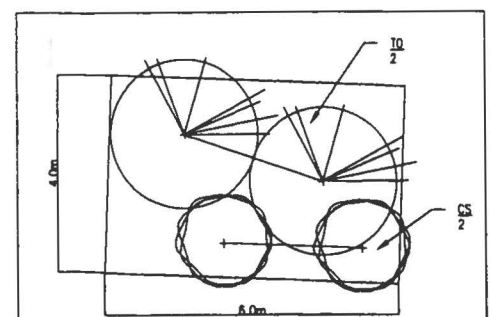
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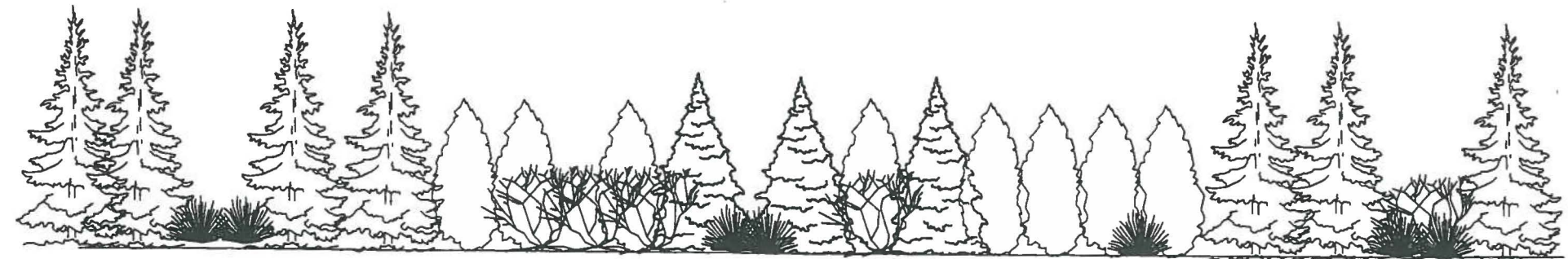
A B C D E F G H I J K



PLANTING AREA #1
SCALE: NTS



EXISTING SHRUB ROW DETAIL
SCALE: NTS
GAPS WITHIN THE EXISTING SHRUB ROW ALONG 3RD CONCESSION NORTH WILL BE REPLANTED AS PER ABOVE DETAIL.
FOR EVERY 24m²; 2 Thuja occidentalis and 2 Cornus sericea



PLANTING AREA #1-ELEVATION
SCALE: NTS

MASTER PLANT LIST				
Key	Quantity	Botanical Name	Common Name	Size & Condition
Trees				
PH	7	Pinus strobus	White Pine	300m H.S.
PH	3	Pinus strobus	White Pine	300m H.S.
TD	228	Thuja occidentalis	White Cedar	175m H.S.
Shrubs				
CS	7	Cornus sericea	Red-osier Dogwood	60m (Dpt.)
FO	7	Physocarpus opulifolius	Dioid	60m (Dpt.)
Woods				
CB	26	Calluna vulgaris	Blueberry	60m
PI	27	Pyrola asarifolia	Woods Creeper	60m
Access Gap Restoration				
TD	28	Thuja occidentalis	White Cedar	100m H.S.
Calluna Wood Gap Restoration (2nd Concession North)				
TD	28	Thuja occidentalis	White Cedar	175m H.S.
CS	28	Cornus sericea	Red-osier Dogwood	60m (Dpt.)

SCHEDULE "C-3" TO BY-LAW 2011-14
1681351 ONTARIO INC.

Per:
Name: **LOR'S COLAVINO**
Title: **PRESIDENT**

Per: _____
Name: _____
Title: _____

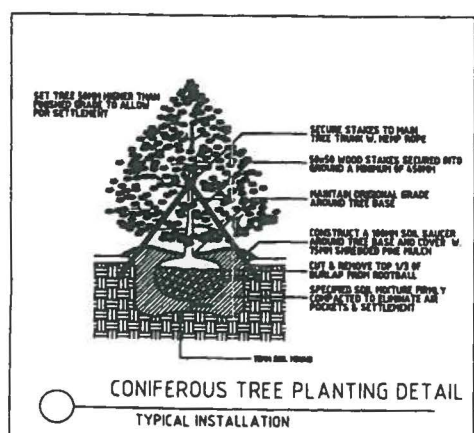
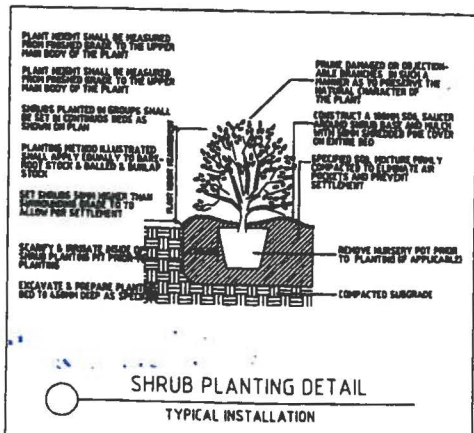
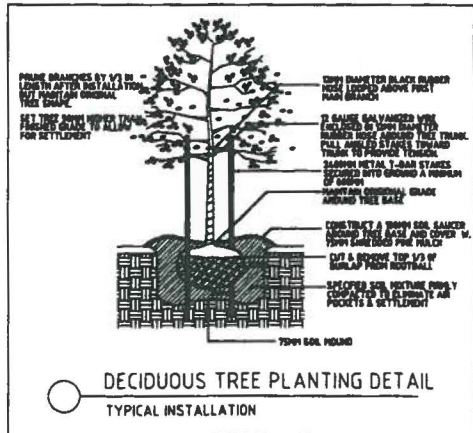
Per:
Name: **WINSTON BENNETT**
Title: **VICE PRESIDENT**

Per: _____
Name: _____
Title: _____

TOWN OF AMHERSTBURG

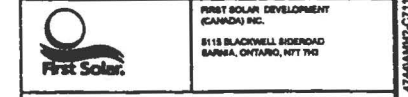
MAYOR WAYNE HURST

CLERK- BRENDA M. PERCY



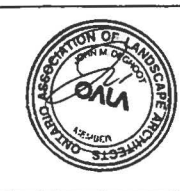
LANDSCAPE DETAILS
SCALE: NTS

REV	DATE	REVISION DESCRIPTION	BY	CHK/APP
1	01-19-2011	TOWN & MHC COMMENTS, RE-ISSUED FOR SPA	FWD	CE, MS
0	12-30-2010	IFC, PENDING SPA APPROVAL	MH	HK, CE

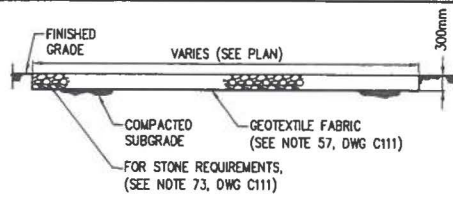


AMHERSTBURG 2 SOLAR FARM
181 CONCESSION 3 NORTH
AMHERSTBURG, ONTARIO N0V 2Y0

PROJ. NO.	PROJ. ENGR.	DR. BY	CHK. BY	SCALE
5043-0100-22	AMH2	C711	1	

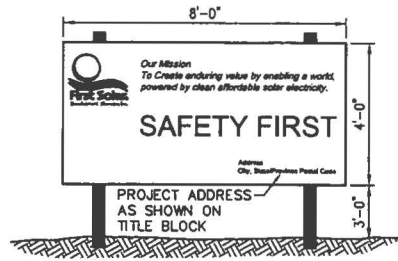


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NOTE: THIS ROADWAY DESIGN HAS BEEN VALUE ENGINEERED PER THE ADVICE OF FIRST SOLAR, INC. SOME ROADWAY REPAIR MAY BE REQUIRED DURING CONSTRUCTION.

DETAIL 1
TYPICAL ROAD SECTION
N.T.S.



DETAIL 6
ENTRANCE SIGN
N.T.S.



DETAIL 8
R7-1 SIGN
N.T.S.

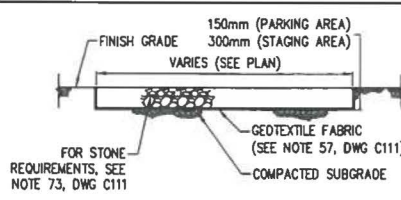


TC-31L



TC-31t

DETAIL 13
TC-31t & TC-31L SIGN
TRUCK ENTRANCE (LEFT)
N.T.S.



NOTE: THIS PARKING/STAGING AREA DESIGN HAS BEEN VALUE ENGINEERED PER THE ADVICE OF FIRST SOLAR, INC. SOME REPAIR MAY BE REQUIRED DURING CONSTRUCTION.

DETAIL 2
TYPICAL PARKING LOT SECTION
N.T.S.



DETAIL 7
R1-1 SIGN
N.T.S.



DETAIL 9
HANDICAPPED ACCESSIBLE
PARKING SIGN
N.T.S.

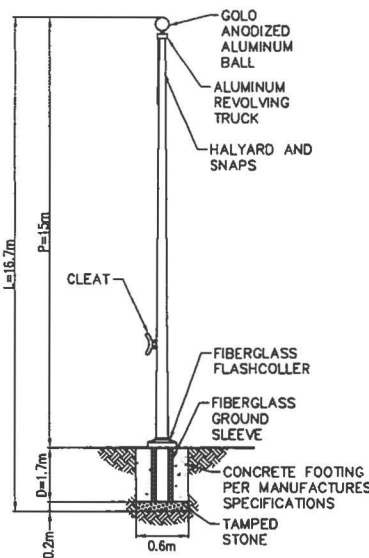


TC-31R

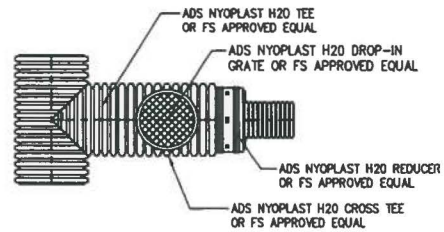


TC-31t

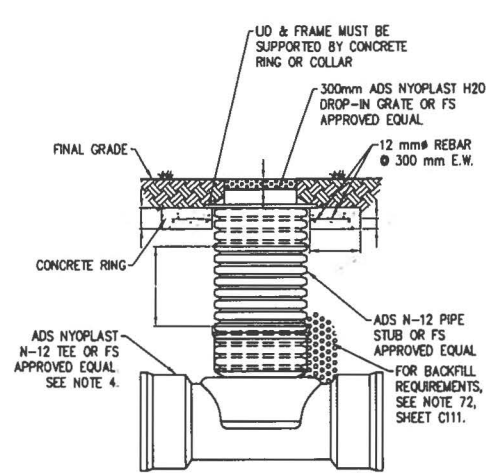
DETAIL 14
TC-31t & TC-31R SIGN
TRUCK ENTRANCE (RIGHT)
N.T.S.



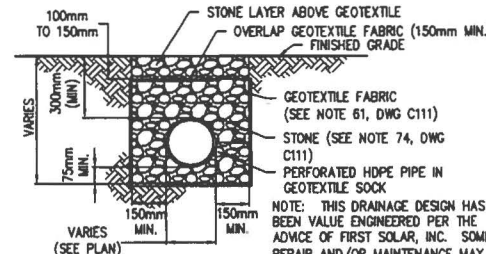
DETAIL 3
FLAGPOLE IN CLAYEY SOIL
N.T.S.



DETAIL 10
THREE WAY CONNECTION
N.T.S.



DETAIL 4
CLEANOUT WITH GRATE
N.T.S.



DETAIL 11
DRAINAGE PIPE TRENCH
N.T.S.

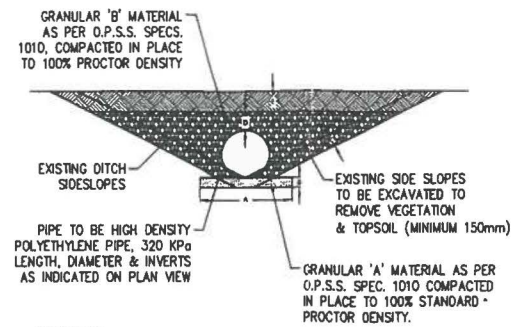
TOWER AND ACCESSORIES DESIGNED TO CAN/CSA-S37-01 FOR:
WIND - 450 Pa AND ICE - 25mm

NOTES:

- ALL MATERIAL - CSA GRADE 40.21 300W. (ALL MEMBERS HR SOLID ROUND BAR)
- ALL MATERIAL - HOT DIPPED GALVANIZED TO CSA-C164-M90 AFTER FABRICATION.
- ALL WELDING TO CWB APPROVED PROCEDURES CSA-W47.1-83.
- UNLESS OTHERWISE SPECIFIED, ALL BOLTS TO BE ASTM GRADE A325 / HOT DIPPED GALVANIZED.

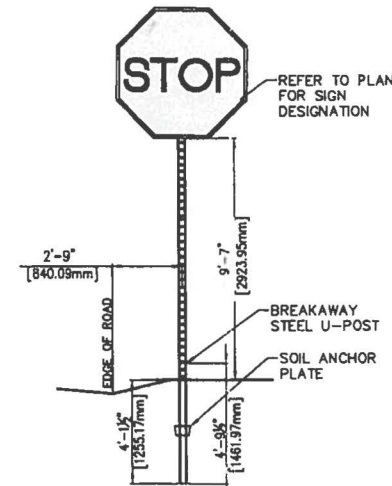
LEG SIZE	38mm BAR	38mm BAR	38mm BAR	35mm BAR	35mm BAR	32mm BAR	32mm BAR	32mm BAR	32mm BAR	32mm BAR
DIAGONAL	22mm	22mm	19mm	19mm	19mm	16mm	16mm	14mm	14mm	13mm
HORIZONTAL	25mm	25mm	25mm	25mm	19mm	19mm	19mm	19mm	14mm	13mm
SECTION WIDTH	1676 x 1549mm	1422 x 1295mm	1168 x 1041mm	914 x 787mm	680 x 533mm					
SECTION #	MA12-10	MA11-10	MA10-10	MA9-10	MA8-10	MA7-10	MA6-10	MA5-10	WA4-10	WA3-10

DETAIL 15
COMMUNICATION TOWER
N.T.S.



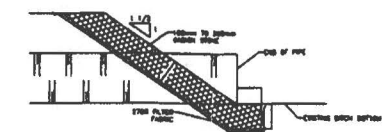
NOTE: FOR DRIVEWAY ENCLOSURES E MUST BE 300mm OF GRANULAR 'A' MATERIAL WITH D BEING GRANULAR 'B' MATERIAL BOTH COMPACTED TO 100% STANDARD PROCTOR DENSITY.

DETAIL 5
TYPICAL CROSS-SECTION
FOR DITCH ENCLOSURES
N.T.S.



- NOTES:**
- MINIMUM DISTANCE TO INSIDE OF CURB SHALL BE 2 FEET. SIGN SHALL BE SET AT AN ANGLE OF NOT LESS THAN 30 DEGREES NOR MORE THAN 45 DEGREES WITH THE LINE OF TRAFFIC FLOW, TO BE VISIBLE TO APPROACHING TRAFFIC.
 - SEE PLAN FOR LOCATION OF SIGNS.
 - ALL STRIPING, PAVEMENT MARKINGS, AND TRAFFIC CONTROL SIGNS SHALL BE IN CONFORMANCE WITH THE LATEST EDITION OF THE MANUAL OF UNIFORM TRAFFIC CONTROL DEVICES.

DETAIL 12
TRAFFIC SIGN INSTALLATION
N.T.S.



DETAIL 16
SLOPED GABION STONE
HEADWALL
N.T.S.

- NOTES:**
- FOR NOTES, SEE DWG C111.
 - FOR LEGEND AND ABBREVIATIONS, SEE DRAWING C112.

SCHEDULE "D-1" TO BY-LAW 2011-14

1681351 ONTARIO INC.

Per: *[Signature]*
Name: **LOUIS COLLAVINO**
Title: **PRESIDENT**

Per: _____
Name: _____
Title: _____

HELIOS PROJECT IV LIMITED PARTNERSHIP, by its general partner, HELIOS PROJECT IV INC.

Per: *[Signature]*
Name: **LINDSEY BARNETT**
Title: **VICE PRESIDENT**

Per: _____
Name: _____
Title: _____

TOWN OF AMHERSTBURG

[Signature]
MAYOR WAYNE HURST
[Signature]
CLERK- BRENDA M. PERCY

REV	DATE	REVISION DESCRIPTION	BY	CHK	APP
1	01-19-2011	TOWN & MNR COMMENTS, RE-ISSUED FOR SPA	FND	CE	NB
0	12-30-2010	IFC, PENDING SPA APPROVAL	MH	HK	CE

First Solar
FIRST SOLAR DEVELOPMENT (CANADA) INC.
3115 BLACKWELL BERRARD ROAD
SARASOTA, ONTARIO, N7T 2T8

AMHERSTBURG 2 SOLAR FARM
191 CONCESSION 3 NORTH
AMHERSTBURG, ONTARIO N8V 2Y9

PROJECT: AMHERSTBURG 2 SOLAR FARM

TITLE: TYPICAL SITE DETAILS

PROJ. MGR.	PROJ. ENGR.	DR. BY	CHK. BY	SCALE:
KEITH STYMERS	NATHAN BROOCHSTEIN	JW	RM	AS SHOWN
PROJ. DIRECTOR	PROJECT CODE	DRAWING No.	REV.	
KEITH STYMERS				
FIRST SOLAR JOB No.	AMH2	C901	1	

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SCHEDULE "D-2" TO BY-LAW 2011-14

1681351 ONTARIO INC.

Per: *[Signature]*
Name: **KARIS COLUANO**
Title: **PRESIDENT**

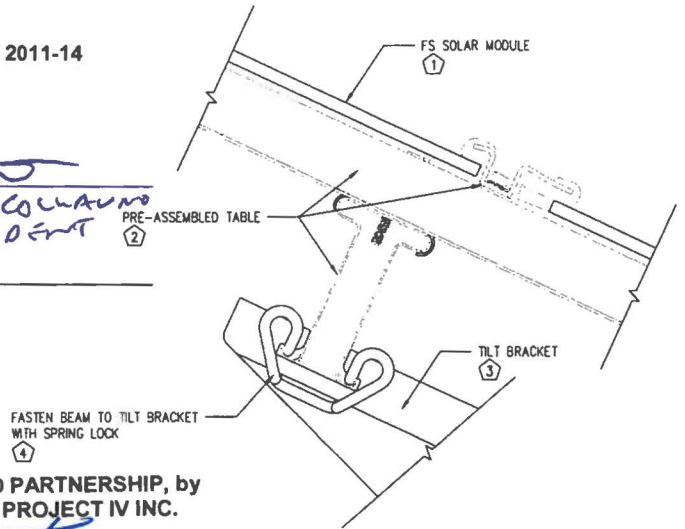
Per: _____
Name: _____
Title: _____

HELIOS PROJECT IV LIMITED PARTNERSHIP, by its general partner HELIOS PROJECT IV INC.

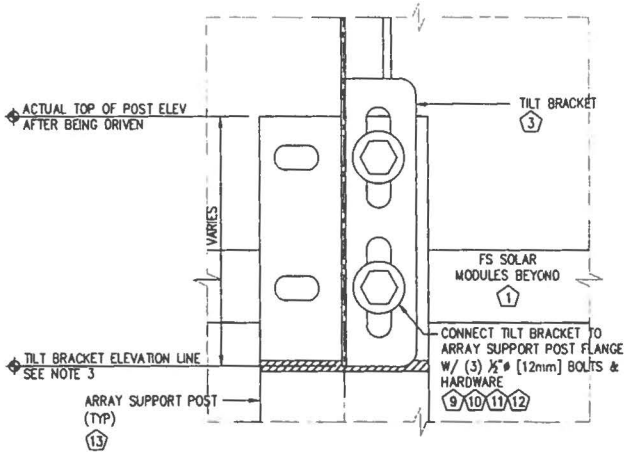
Per: *[Signature]*
Name: **WINSTON BARNETT**
Title: **VICE PRESIDENT**

Per: _____
Name: _____
Title: _____

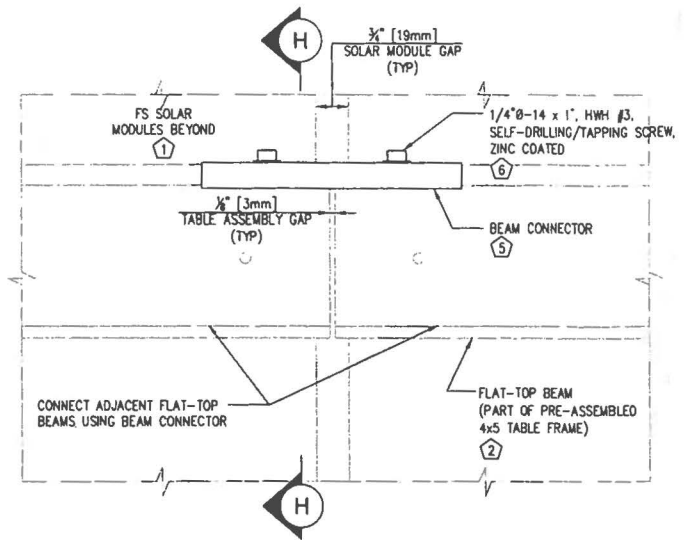
TOWN OF AMHERSTBURG
[Signature]
MAYOR- WAYNE HURST
[Signature]
CLERK- BRENDA M. PERCY



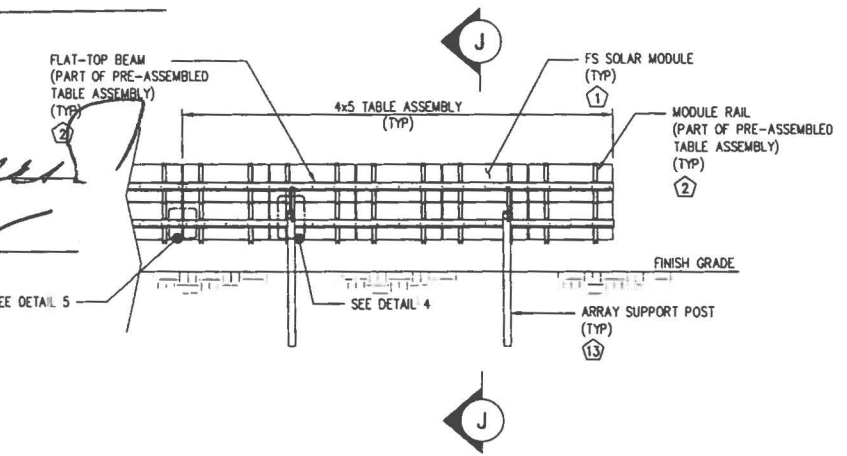
DETAIL 3
SCALE: NTS



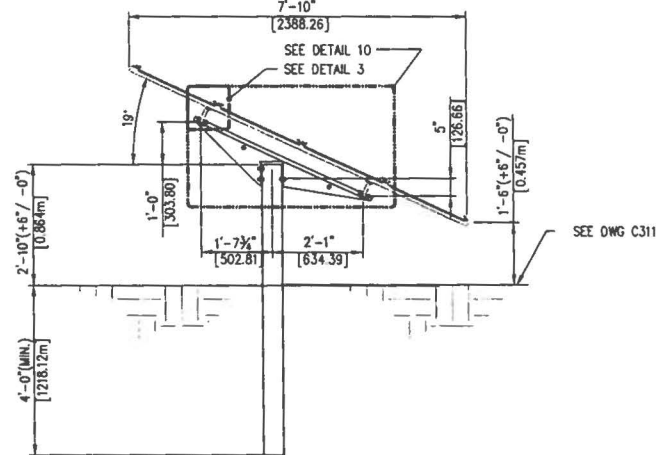
DETAIL 4
CONNECTION OF TILT BRACKET TO POST
SCALE: NTS



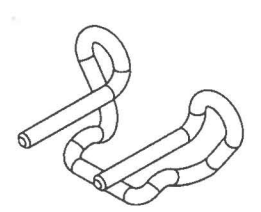
DETAIL 5
BEAM CONNECTION
SCALE: NTS



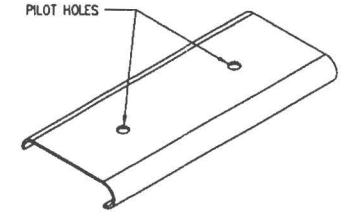
DETAIL 2
ARRAY ELEVATION REAR VIEW DETAIL
SCALE: 1/4"=1'-0"



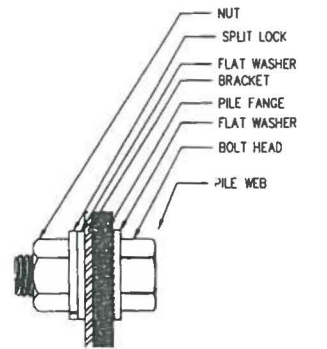
SECTION J-J
SIDE VIEW DETAIL
DIMENSIONS ARE FOR REFERENCE ONLY



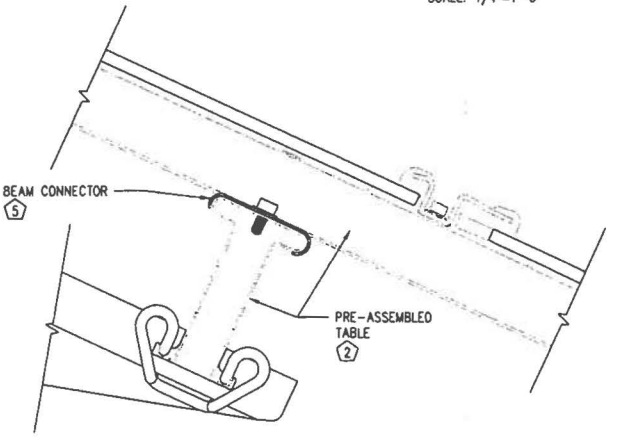
SPRING LOCK
SCALE: NTS



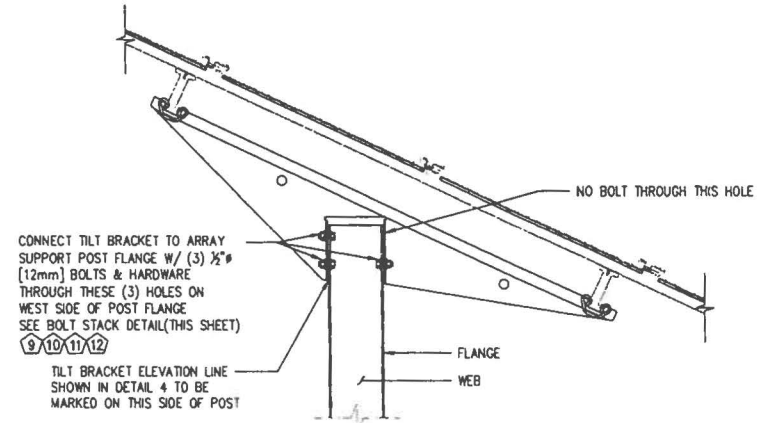
BEAM CONNECTOR
SCALE: NTS



BOLT STACK
SCALE: NTS



SECTION H-H
BEAM CONNECTION
SCALE: NTS

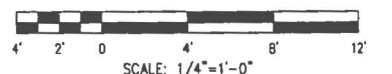


DETAIL 10
BRACKET TO POST BOLTING DETAIL
SCALE: NTS

NOTES:

- FOR GENERAL NOTES, SEE DWG S102
- FOR POST INFORMATION, SEE DWG S319.
- COMPONENT ASSEMBLY BELOW ARE PROVIDED FOR A TYPICAL POST, BRACKET AND BEAM ASSEMBLY.
- ALL HARDWARE ASSEMBLY SHALL BE ARRANGED AS FOLLOWS:
 - TILT BRACKET TO ARRAY SUPPORT POST
 - 1/2" [13mm] HEX NUT Gr 5 ZINC COATED
 - 1/2" [13mm] SPLIT-LOCK WASHER ZINC COATED, SAE
 - 1/2" [13mm] FLAT WASHER, ZINC COATED, USS
 - TILT BRACKET
 - ARRAY SUPPORT POST FLANGE
 - 1/2" [13mm] FLAT WASHER, ZINC COATED, USS
 - 1/2"-13 x 1-1/2" [13mm # x 25mm] HEX HEAD CAP SCREW, ASTM A325, OR Gr 5 ZINC COATED
 - FLAT-TOP BEAM TO TILT BRACKET SPRING LOCK
 - BEAM CONNECTOR
 - 1/4"-14 x 1" [6mm # x 25mm] HW #3, SELF-DRILLING/TAPPING SCREW, ZINC COATED
 - BEAM CONNECTOR
 - FLAT-TOP BEAM
- FOR TOUCH-UP GALVANIZING, SEE NOTE 78, DWG S102.
- FOR TOLERANCES, SEE DWG S102.
- FOR BOLTING REQUIREMENTS, SEE DWG S102.
- AFTER INSTALLATION OF POSTS, SUB-CONTRACTOR SHALL PROVIDE A HORIZONTAL LINE (MADE WITH PAINT OR A PERMANENT TYPE MARKER) ON THE NORTH FLANGE OF EACH ARRAY SUPPORT POST WHICH SHOWS THE ELEVATION FOR SETTING THE TILT BRACKET. ETCHING THE LINE WITH A SHARP OBJECT IS NOT PERMITTED. TOLERANCE FOR THIS ELEVATION SHALL BE ±2mm. FOR ELEVATIONS OF THE TILT BRACKET ELEVATION LINE, SEE DWG S232.

GRAPHIC SCALE



ITEM NO	DESCRIPTION
1	FS SOLAR MODULE
2	TABLE ASSEMBLY (4x5, 4x4, or 4x3 TABLE)
3	MODULE RAIL, 20 GAGE, "HAT" CHANNEL
4	FLAT-TOP BEAM, 4" x 2.4", 18 GAGE
5	HEX HEAD CAP SCREW, 1/4"Ø-20 x 2", ASTM A449 TYPE 1 or Gr 5, SERRATED FLANGE
6	FS TOP CLIP ASSEMBLY
7	201 SS, 12 GAGE with EPDM
8	1/4"Ø-20 x 1", HEX HEAD CAP SCREW, SERRATED FLANGE, 18-8 STAINLESS STEEL
9	FS MID CLIP ASSEMBLY
10	201 SS, 12 GAGE with EPDM
11	1/4"Ø-20 x 1", HEX HEAD CAP SCREW, SERRATED FLANGE, 18-8 STAINLESS STEEL
12	FS BOTTOM CLIP ASSEMBLY
13	201 SS, 12 GAGE with EPDM
14	1/4"Ø-20 x 1", HEX HEAD CAP SCREW, SERRATED FLANGE, 18-8 STAINLESS STEEL
15	TILT BRACKET, 25 DEGREES, FORMED SHEET METAL
16	FLAT-TOP BEAM TO TILT BRACKET CONNECTION
17	SPRING LOCK
18	BEAM CONNECTOR, 18 GAGE
19	BEAM CONNECTOR CONNECTION
20	1/4"Ø-14 x 1", HW#3, SELF-DRILLING/TAPPING SCREW, ZINC COATED
21	NOT USED
22	NOT USED
23	TILT BRACKET TO ARRAY SUPPORT POST CONNECTION
24	HEX HEAD CAP SCREW, 1/2"Ø-13 x 1 1/2", ASTM A325 or Gr 5, ZINC COATED
25	WASHER, FLAT, 1/2"Ø, ZINC COATED, USS
26	WASHER, SPLIT LOCK, 1/2"Ø, ZINC COATED, SAE
27	HEX NUT, 1/2"Ø, Gr 5, ZINC COATED
28	ARRAY SUPPORT POST, WGr.7.D

REV	DATE	REVISION DESCRIPTION
0	12-30-2010	IFC, PENDING SPA APPROVAL

FIRST SOLAR DEVELOPMENT (CANADA) INC.
 5115 BLACKWELL HIGHWAY
 BARNA, ONTARIO N1T 7H3

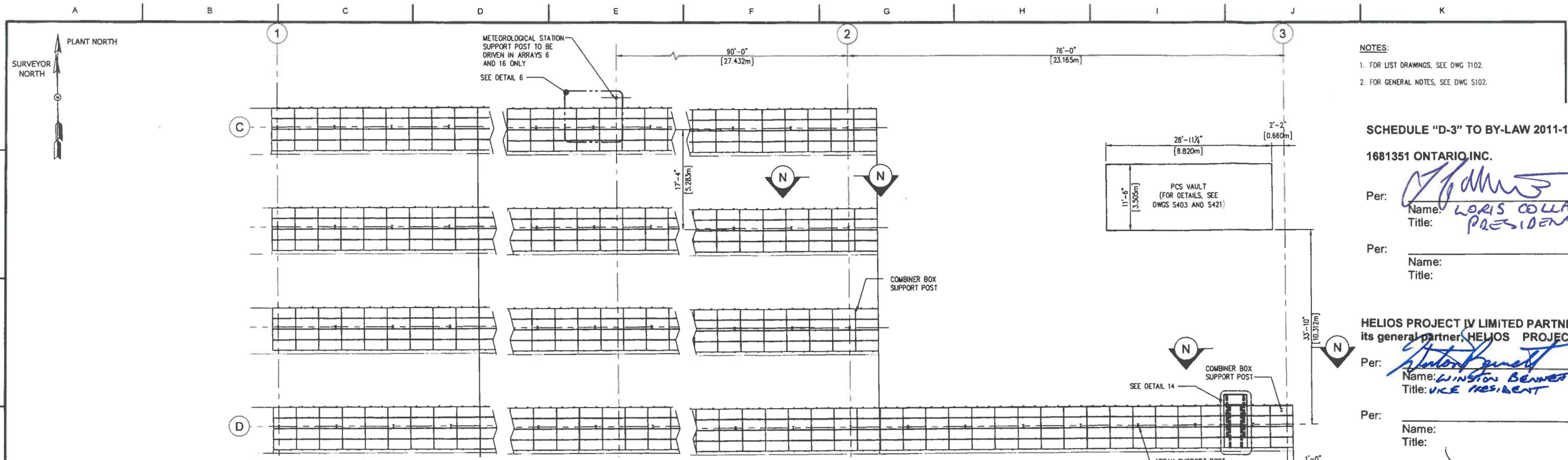
PROJECT: AMHERSTBURG 2 SOLAR FARM

TITLE: TYPICAL ARRAY ASSEMBLY

PROJ. MGR. KEITH SYMMERS	PROJ. ENGR. NATHAN BROOKSTEIN	DR. BY CC	CHK. BY HBC	SCALE AS NOTED
PROJ. DIRECTOR KEITH SYMMERS	PROJECT CODE FIRST SOLAR JOB No.	DRAWING No.	REV.	
	AMH2	S352	0	

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NOTES:
 1. FOR LIST DRAWINGS, SEE DWG T102.
 2. FOR GENERAL NOTES, SEE DWG S102.

SCHEDULE "D-3" TO BY-LAW 2011-14

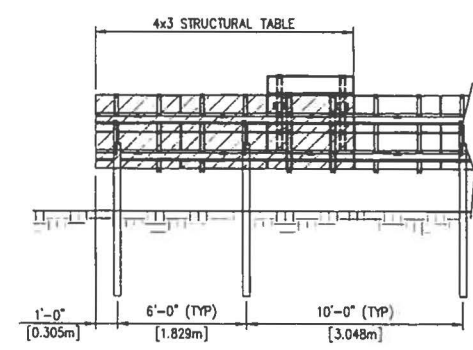
1681351 ONTARIO, INC.
 Per: *[Signature]*
 Name: **LORIS COLLAVINO**
 Title: **PRESIDENT**

Per: _____
 Name: _____
 Title: _____

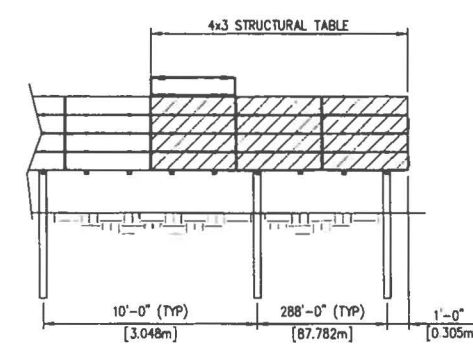
HELIOS PROJECT IV LIMITED PARTNERSHIP, b
its general partner, HELIOS PROJECT IV INC.
 Per: *[Signature]*
 Name: **WINSTON BENNER**
 Title: **VICE PRESIDENT**

Per: _____
 Name: _____
 Title: _____

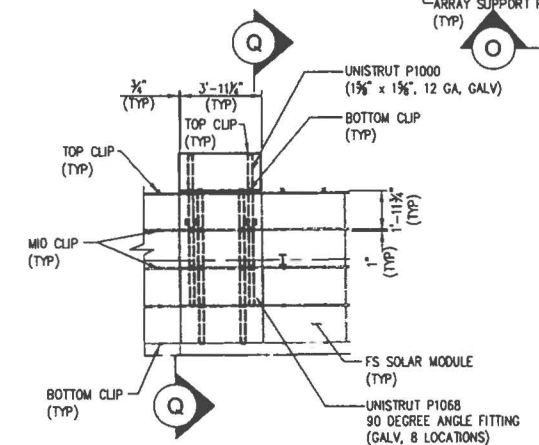
TOWN OF AMHERSTBURG
[Signature]
 MAYOR: **WAYNE HURST**
[Signature]
 CLERK: **BRENDA M. PERCY**



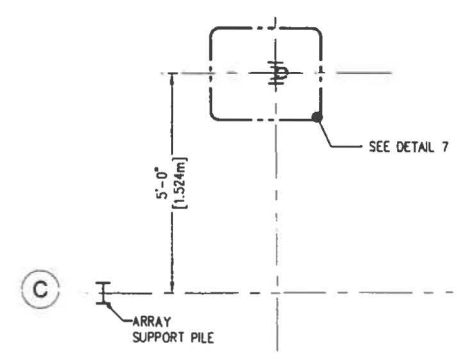
SECTION N-N
ARRAY ELEVATION REAR VIEW
 SCALE: 1/4"=1'-0"



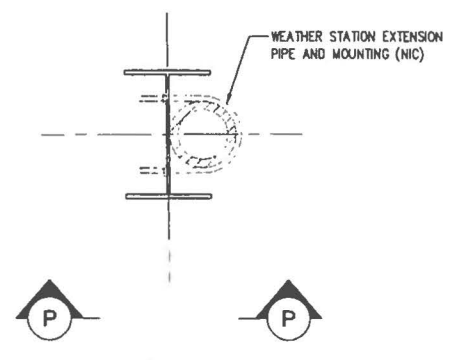
SECTION O-O
ARRAY ELEVATION FRONT VIEW
 SCALE: 1/4"=1'-0"



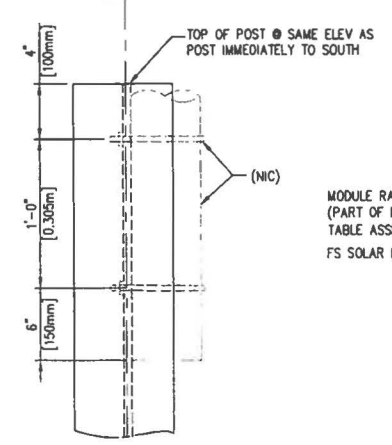
DETAIL 14
ADDITIONAL PANEL FOR
PERFORMANCE MONITORING
 SCALE: NTS
 (FOR ARRAYS 1, 5, 8, 11, 15)



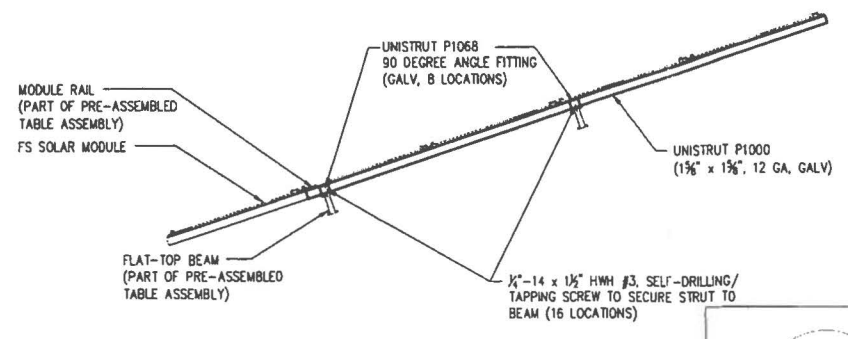
DETAIL 6
METEOROLOGICAL STATION SUPPORT POST
 SCALE: 1/2"=1'-0"



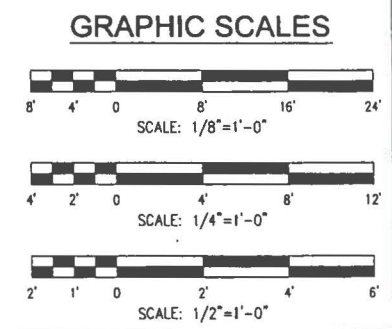
DETAIL 7
 SCALE: NTS



SECTION P-P
 SCALE: NTS



SECTION Q-Q
 SCALE: NTS



0	12-30-2010	IFC, PENDING SPA APPROVAL	
REV	DATE	REVISION DESCRIPTION	BY

First Solar
 1115 BLACKWELL SIDERoad
 SARASOTA, ONTARIO, M7T 2H3

AMHERSTBURG 2 SOLAR FARM
 191 CONCESSION 3 NORTH
 AMHERSTBURG, ONTARIO N9V 2Y9

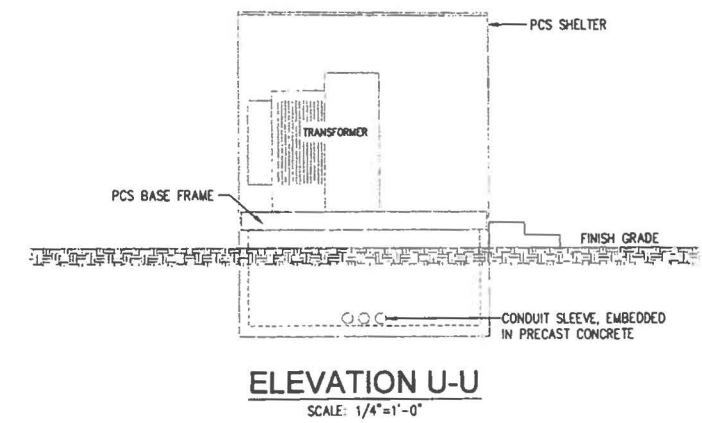
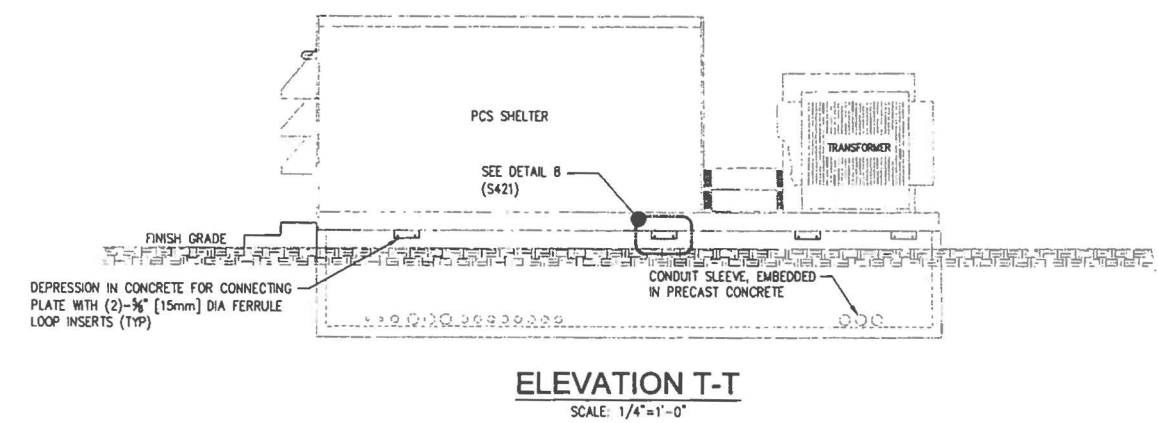
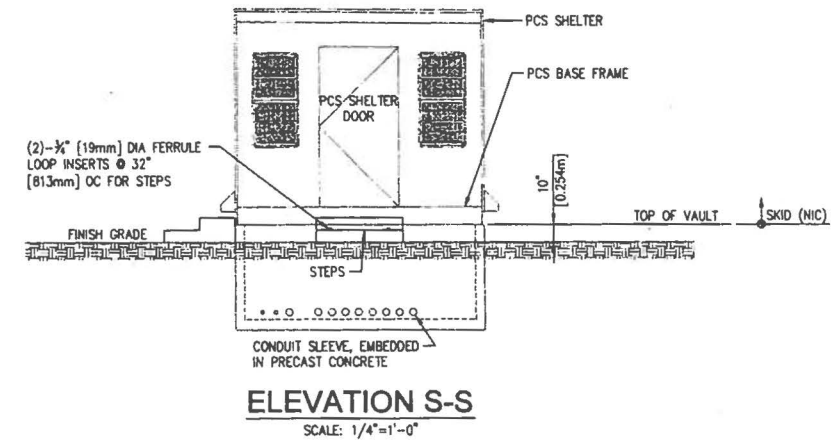
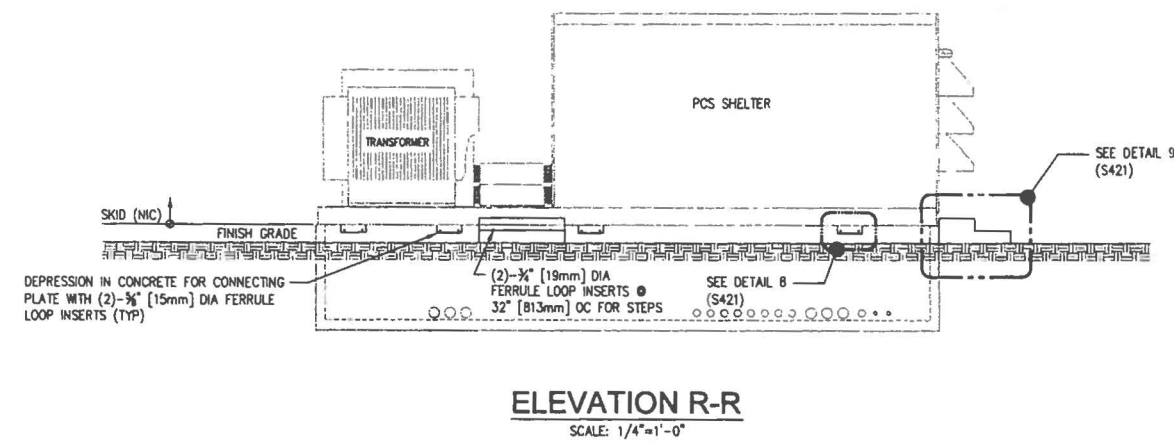
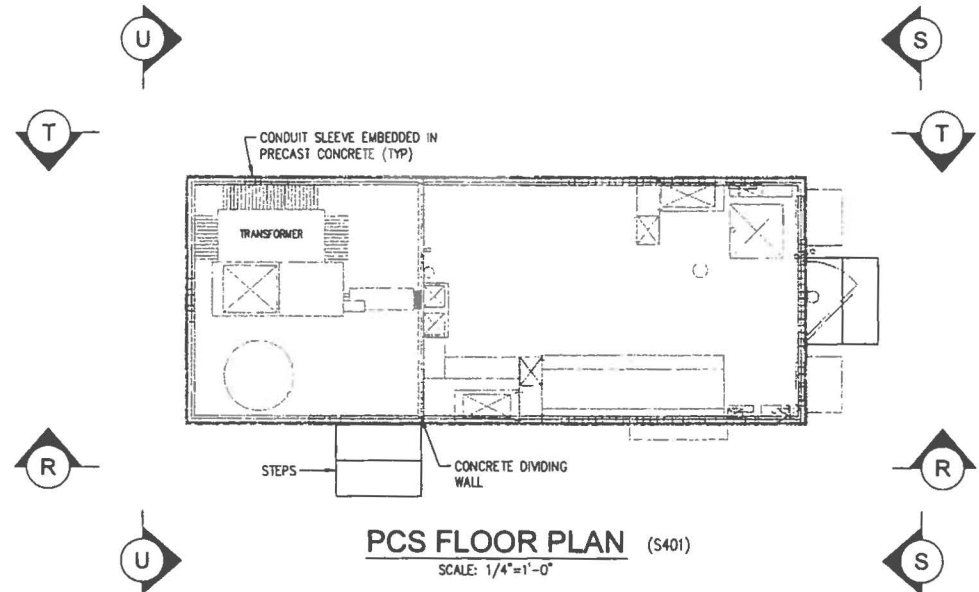
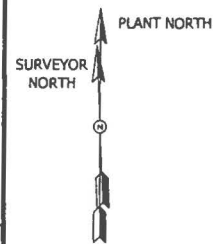
PROJECT: AMHERSTBURG 2 SOLAR FARM
 TITLE: PCS SHELTER - SITE LAYOUT & MISCELLANEOUS DETAILS

PROJ. MGR. KYLE SYMANS	PROJ. ENGR. NATHAN BROOKESTEN	DR. BY CC	CHK. BY HBC	SCALE AS NOTED
PROJ. DIRECTOR KYLE SYMANS	PROJECT CODE 5043-0100-22	DRAWING No. AMH2 S401	REV. 0	

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A B C D E F G H



- NOTES:**
1. FOR LIST OF DRAWINGS, SEE DWG T102
 2. FOR GENERAL NOTES, SEE DWG S102.
 3. PRECAST VAULT WILL BE SUPPLIED AT SITE BY FIRST SOLAR. SUB-CONTRACTOR SHALL UNLOAD VAULT IN ACCORDANCE WITH MANUFACTURER REQUIREMENTS.

SCHEDULE "D-4" TO BY-LAW 2011-14

1681351 ONTARIO INC.

Per:
Name: **LORIS COLLAVINO**
Title: **PRESIDENT**

Per: _____
Name: _____
Title: _____

HELIOS PROJECT IV LIMITED PARTNERSHIP, by its general partner, HELIOS PROJECT IV INC.

Per:
Name: **WINSTON BENNETT**
Title: **VICE PRESIDENT**

Per: _____
Name: _____
Title: _____

TOWN OF AMHERSTBURG

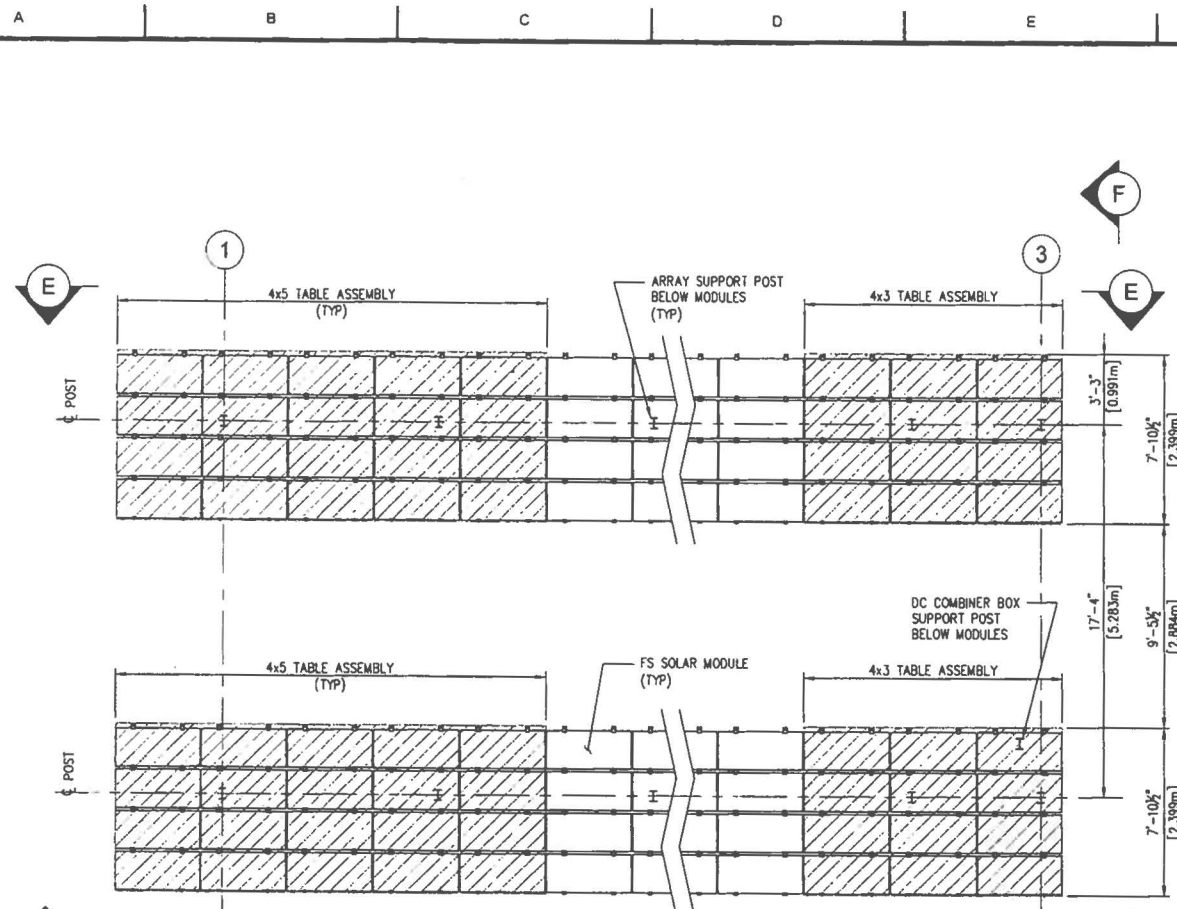
MAYOR- **WAYNE HURST**

CLERK- **BRENDA M. PERCY**

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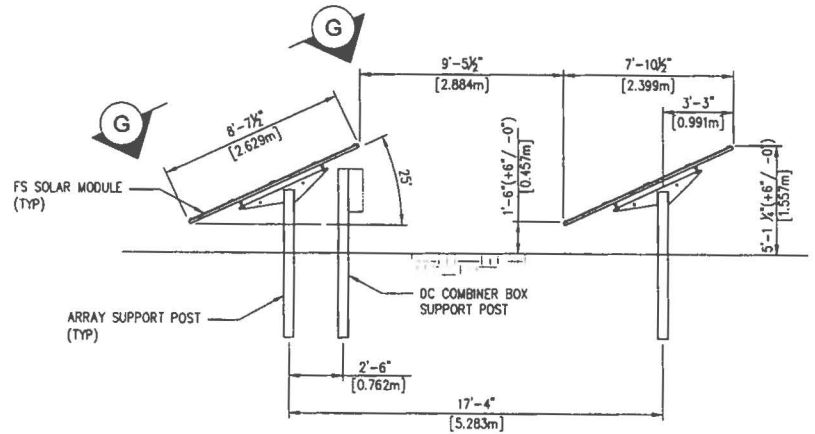
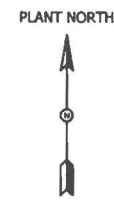
REV	DATE	REVISION DESCRIPTION	BY	CHK
0	12-30-2010	FC, PENDING SPA APPROVAL		
FIRST SOLAR DEVELOPMENT (CANADA) INC. 5115 BLACKWELL SIDERDAD SARNAIA, ONTARIO, N7T 1T0				
AMHERSTBURG 2 SOLAR FARM 191 CONCESSION 3 NORTH AMHERSTBURG, ONTARIO N9V 2Y9				
PROJECT: AMHERSTBURG 2 SOLAR FARM				
TITLE: PCS SHELTER - PLAN AND EXTERIOR ELEVATIONS				
PROJ. MGR.	PROJ. ENGR.	DR. BY	CHK. BY	SCALE
KEITH SYMMERS	NATHAN BROOSTEEN	CC	HBC	AS NOTED
PROJ. DIRECTOR	PROJECT CODE	DRAWING NO.	REV	
KEITH SYMMERS		AMH2	S403	0
FIRST SOLAR JOB NO.				
5043-0100-22				
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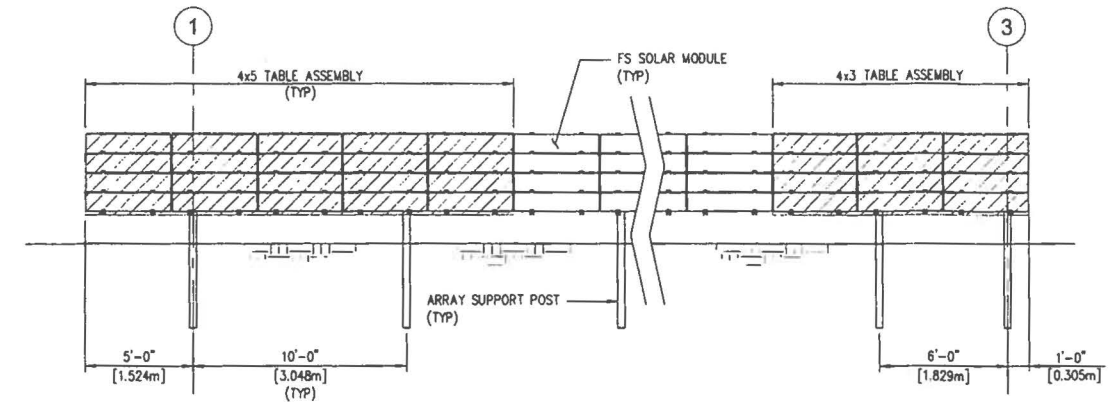


**PART PLAN 'B'
ARRAY PLAN**
SCALE: 1/4"=1'-0"

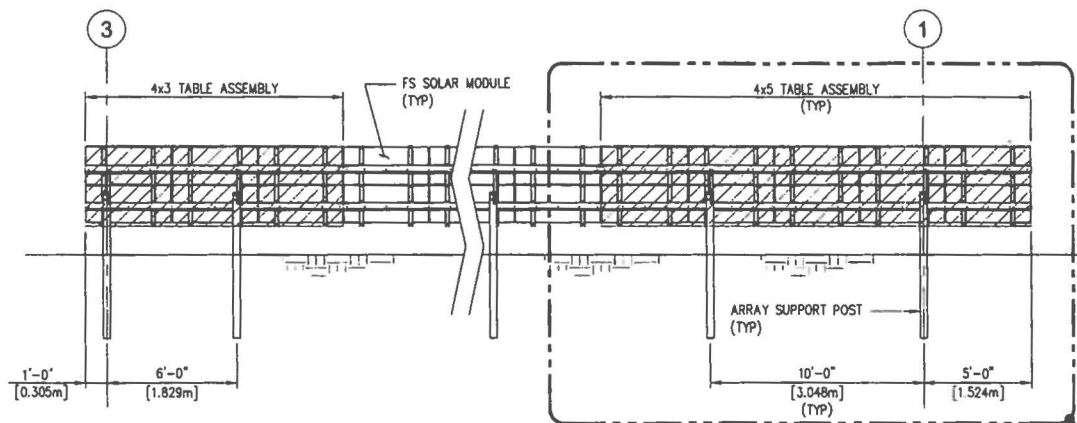
NOTE:
POSTS ON ARRAY PLAN ARE SHOWN FOR REFERENCE.



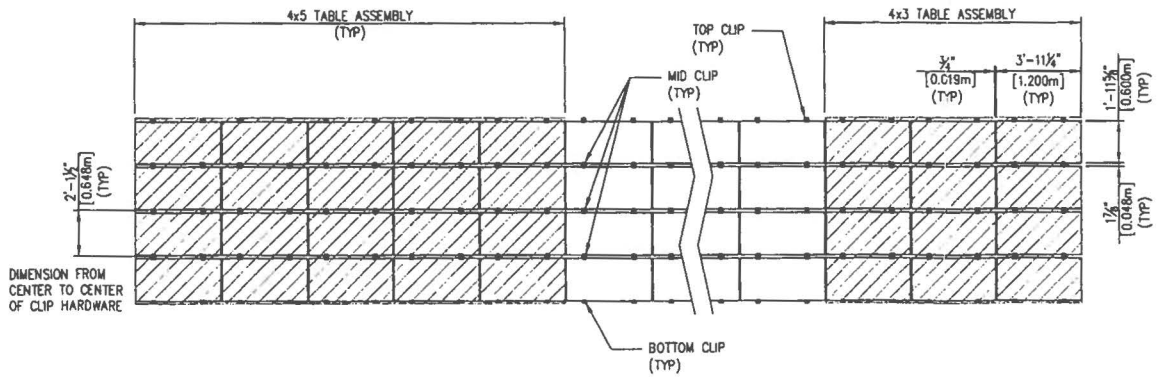
**SECTION F-F
ARRAY ELEVATION SIDE VIEW**
SCALE: 1/4"=1'-0"



**SECTION D-D
ARRAY ELEVATION FRONT VIEW**
SCALE: 1/4"=1'-0"



**SECTION E-E
ARRAY ELEVATION REAR VIEW**
SCALE: 1/4"=1'-0"



**SECTION G-G
VIEW NORMAL TO MODULE SURFACE**
SCALE: 1/4"=1'-0"

NOTE:
DIMENSIONS SHOWN ARE PERPENDICULAR TO FS MODULE SURFACE

SCHEDULE "E" TO BY-LAW 2011-14

1681351 ONTARIO INC.

Per: *[Signature]*
Name: **LORIS COLLAPINE**
Title: **PRESIDENT**

Per: _____
Name: _____
Title: _____

HELIOS PROJECT IV LIMITED PARTNERSHIP, by its general partner, HELIOS PROJECT IV INC.

Per: *[Signature]*
Name: **WINSTON BENNETT**
Title: **VICE PRESIDENT**

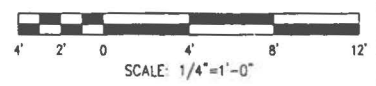
Per: _____
Name: _____
Title: _____

TOWN OF AMHERSTBURG

[Signature]
MAYOR WAYNE HURST
[Signature]
CLERK BRENDA M. PERCY

SEE DETAIL 2, DWG S352

GRAPHIC SCALE



REV	DATE	REVISION DESCRIPTION
0	12-30-2010	IFC, PENDING SPA APPROVAL

FIRST SOLAR DEVELOPMENT (CANADA) INC.
1115 BLACKWELL SIDEROAD
SARINA, ONTARIO, M7T 2Y3

AMHERSTBURG 2 SOLAR FARM
191 CONCESSION 3 NORTH
AMHERSTBURG, ONTARIO N9V 2Y9

PROJECT: AMHERSTBURG 2 SOLAR FARM

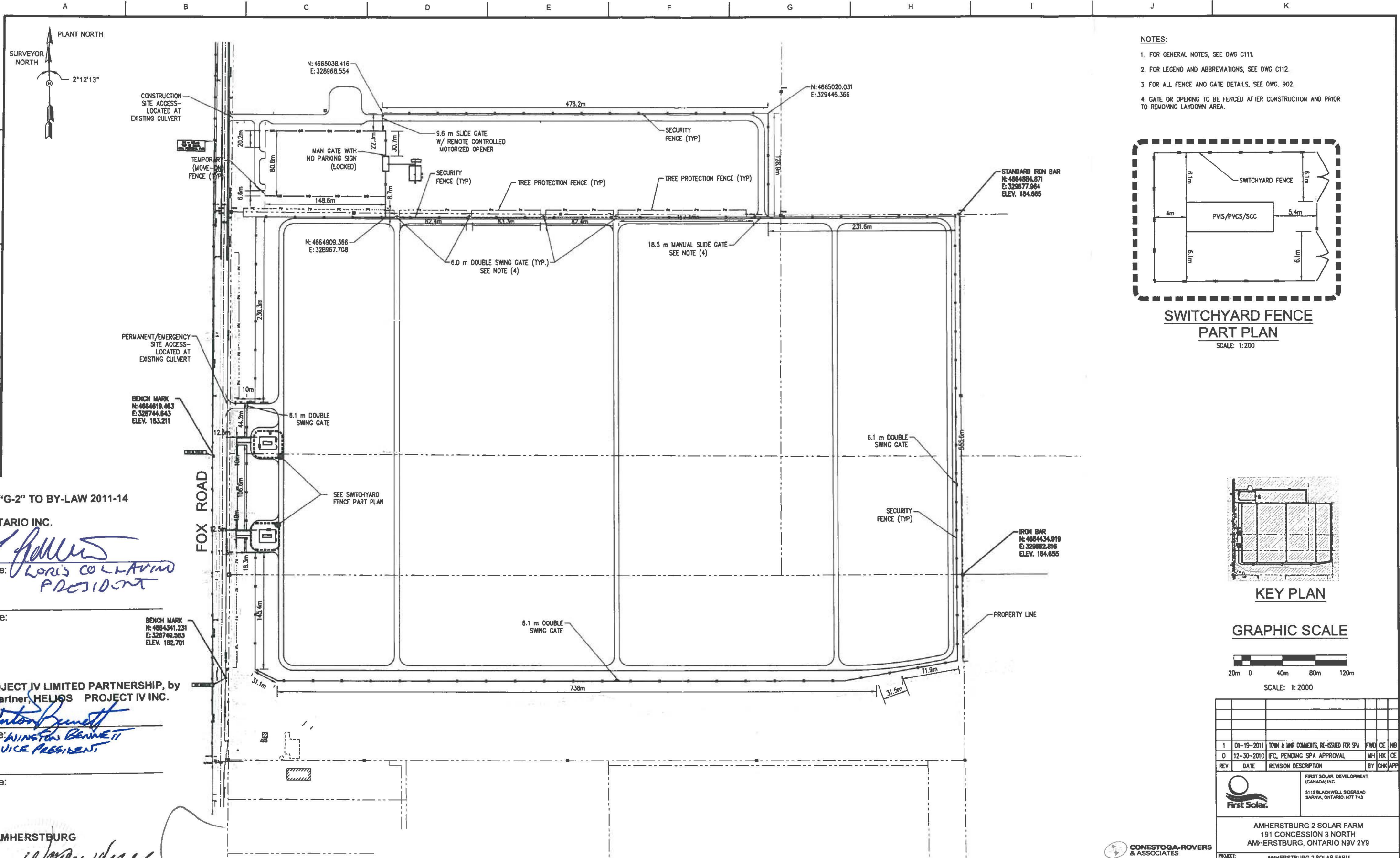
TITLE: TYPICAL TABLE PLANS AND ELEVATIONS

PROJ. MGR.	PROJ. ENGR.	DR. BY	CHK. BY	SCALE
KEITH SYMERS	NATHAN BROOKESTEIN	GC	HBC	AS NOTED
PROJ. DIRECTOR	PROJECT CODE	DRAWING No.	REV.	
KEITH SYMERS				
FIRST SOLAR JOB No.	AMH2	S351	0	

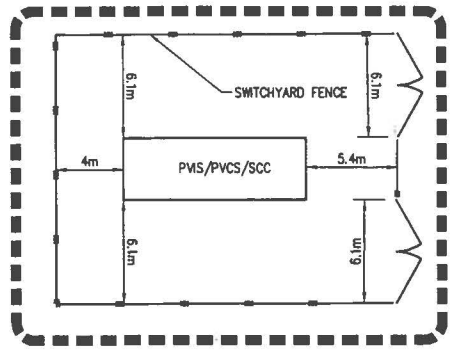
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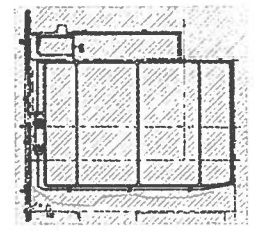
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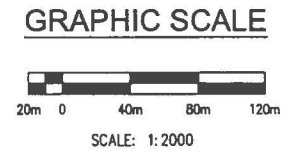
- NOTES:**
- FOR GENERAL NOTES, SEE DWG C111.
 - FOR LEGEND AND ABBREVIATIONS, SEE DWG C112.
 - FOR ALL FENCE AND GATE DETAILS, SEE DWG 902.
 - GATE OR OPENING TO BE FENCED AFTER CONSTRUCTION AND PRIOR TO REMOVING LAYDOWN AREA.



SWITCHYARD FENCE PART PLAN
SCALE: 1:200



KEY PLAN



SCHEDULE "G-2" TO BY-LAW 2011-14

1681351 ONTARIO INC.

Per: *[Signature]*
Name: **LORE'S COLLAVINO**
Title: **PRESIDENT**

Per: _____
Name: _____
Title: _____

HELIOS PROJECT IV LIMITED PARTNERSHIP, by its general partner, HELIOS PROJECT IV INC.

Per: *[Signature]*
Name: **WINSTON BENNETT**
Title: **VICE PRESIDENT**

Per: _____
Name: _____
Title: _____

TOWN OF AMHERSTBURG

[Signature]
MAYOR- WAYNE HURST

[Signature]
CLERK- BRENDA M. PERCY

MONUMENT & FENCE PLAN
SCALE: 1:2000

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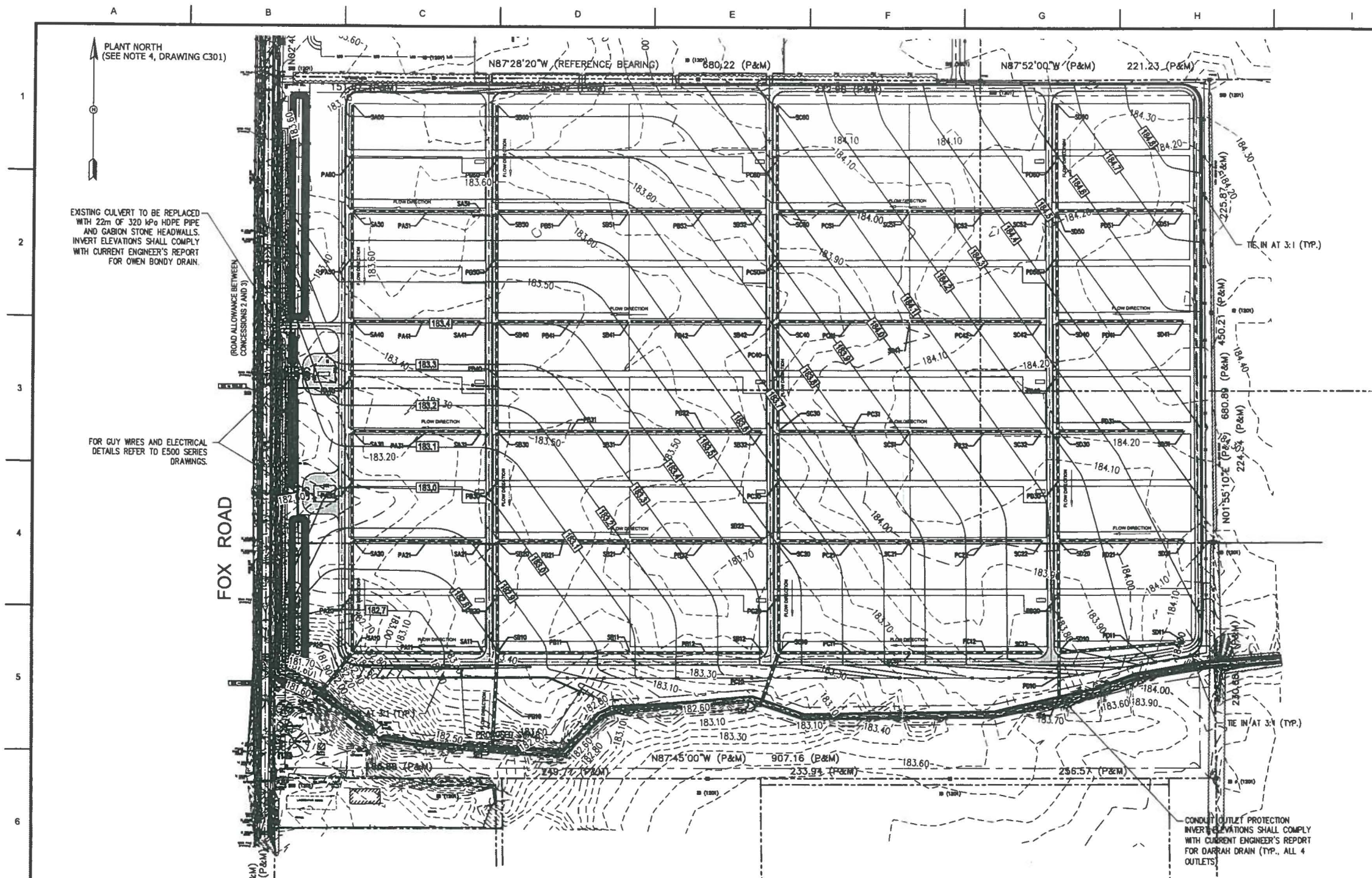
CONESTOGA-ROVERS & ASSOCIATES



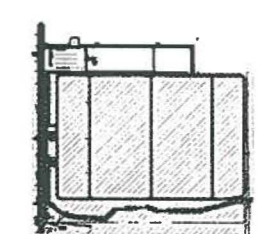
REV	DATE	REVISION DESCRIPTION	BY	CHK	APP
1	01-19-2011	TOWN & MFR COMMENTS, RE-ISSUED FOR SPA	FWD	CE	MB
0	12-30-2010	IFC, PENDING SPA APPROVAL	MH	HK	CE

		FIRST SOLAR DEVELOPMENT (CANADA) INC. 5115 BLACKWELL SIDEROAD SARNA, ONTARIO, N0T 7H3	
AMHERSTBURG 2 SOLAR FARM 191 CONCESSION 3 NORTH AMHERSTBURG, ONTARIO N9V 2Y9			
PROJECT:	AMHERSTBURG 2 SOLAR FARM		
TITLE:	MONUMENT AND FENCE PLAN		
PROJ. MGR.	PROJ. ENGR.	DR. BY	CHK. BY
KEVIN STYMERS	NATHAN BROOCHSTEIN	FWD	AS SHOWN
PROJ. DIRECTOR	PROJECT CODE	DRAWING No.	REV.
KEVIN STYMERS	AMH2	C241	0
FIRST SOLAR JOB No.	5043-0100-22		

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- NOTES:**
- FOR GENERAL NOTES, SEE DWG C111.
 - FOR LEGEND AND ABBREVIATIONS, SEE DWG C112.
 - FOR DRAIN AND CLEANOUT INFORMATION (SLOPE, LENGTH, COVER, INVERTS, ETC.) SEE DWG. C312.
 - PIPE LENGTHS ARE ESTIMATED. THE SUB-CONTRACTOR SHALL FIELD VERIFY THE CORRECT LENGTH.
 - FOR SITE HORIZONTAL AND VERTICAL CONTROL MONUMENTS, SEE DWG. C241.
 - GRADING TOLERANCE SHALL BE PLUS OR MINUS 50mm.
 - TOWN OF AMHERSTBURG DRAINAGE SUPERINTENDANT SHALL BE NOTIFIED IN WRITING AT LEAST ONE WEEK PRIOR TO CULVERT REPLACEMENT OR PLACEMENT OF CONDUIT OUTLET PROTECTION.



KEY PLAN

SCALE: NTS

GRAPHIC SCALE



SCALE: 1:2000

GRADING AND DRAINAGE PLAN
SCALE: 1:2000

SCHEDULE "H-1" TO BY-LAW 2011-14

1681351 ONTARIO INC.

Per: *[Signature]*
Name: **LORIS COLLAVINO**
Title: **PRESIDENT**

Per: _____
Name: _____
Title: _____

HELIOS PROJECT IV LIMITED PARTNERSHIP, by its general partner, HELIOS PROJECT IV INC.

Per: *[Signature]*
Name: **WINSTON BERRER**
Title: **VICE PRESIDENT**

Per: _____
Name: _____
Title: _____

TOWN OF AMHERSTBURG

[Signature]
MAYOR WAYNE HURST

[Signature]
CLERK- BRENDA M. PERCY

REV	DATE	REVISION DESCRIPTION	BY	CHK	APP
1	01-19-2011	TOWN & MNR COMMENTS, RE-ISSUED FOR SPA	FWD	CE	MB
D	12-30-2010	IFC, PENDING SPA APPROVAL	MH	HK	CE



AMHERSTBURG 2 SOLAR FARM
191 CONCESSION 3 NORTH
AMHERSTBURG, ONTARIO N9V 2Y9

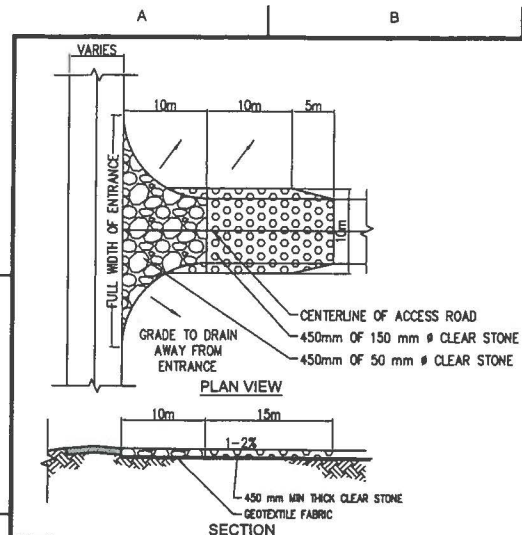
PROJECT: AMHERSTBURG 2 SOLAR FARM
TITLE: GRADING AND DRAINAGE PLAN

PROJ. MGR. KEITH STYMERS	PROJ. ENGR. NADIAH BROOCHSTEIN	DR. BY D.A. SINGARAJA	CHK. BY AS SHOWN	SCALE AS SHOWN
PROJ. DIRECTOR KEITH STYMERS	PROJECT CODE AMH2	DRAWING NO. C311	REV. 1	FIRST SOLAR JOB No. 5043-0100-22

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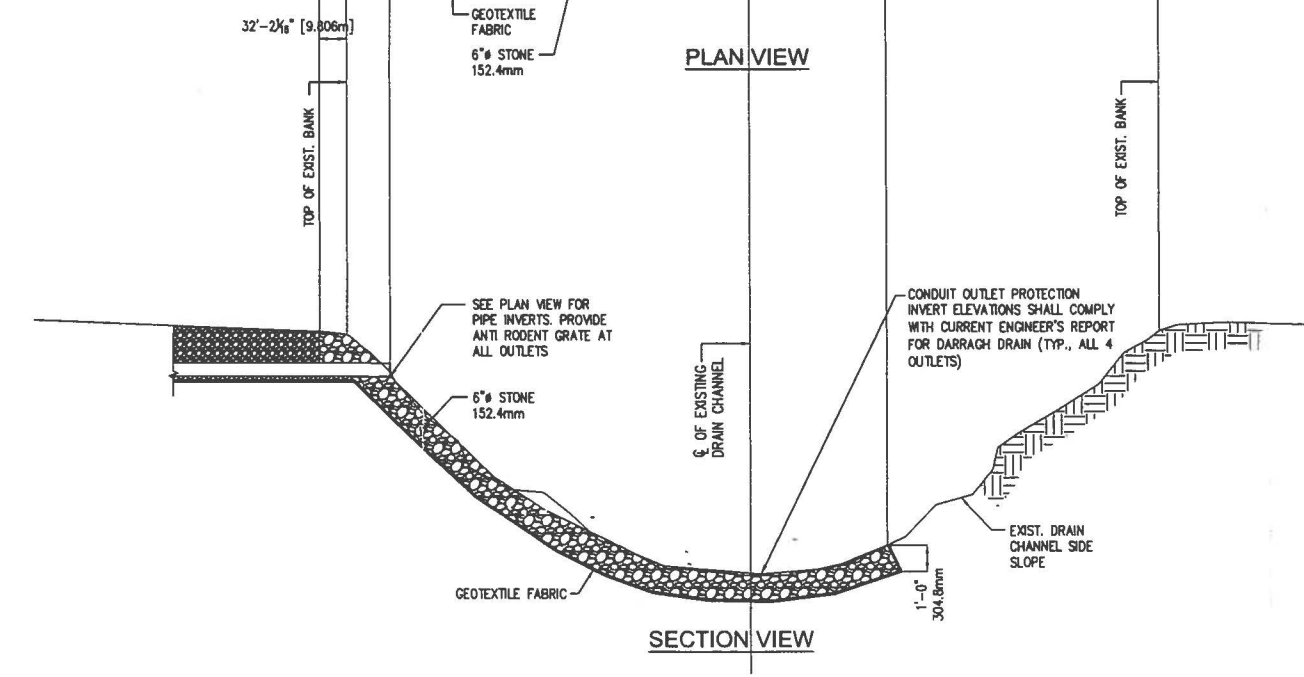
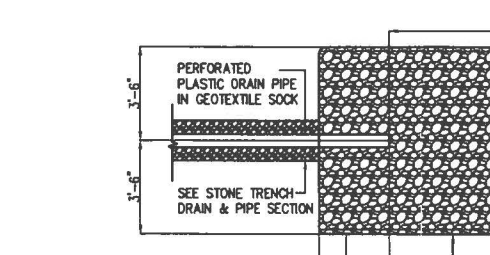
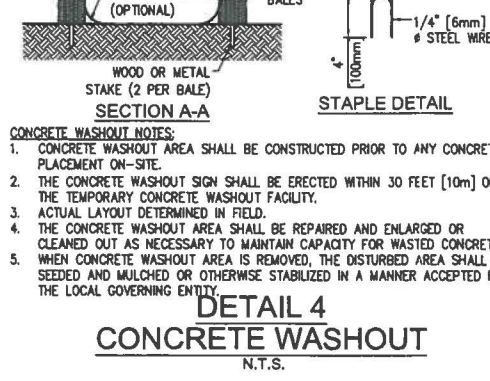
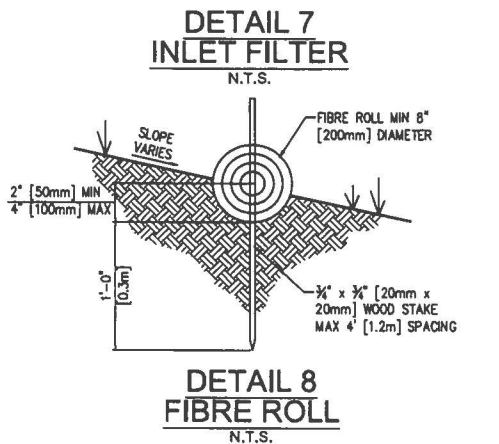
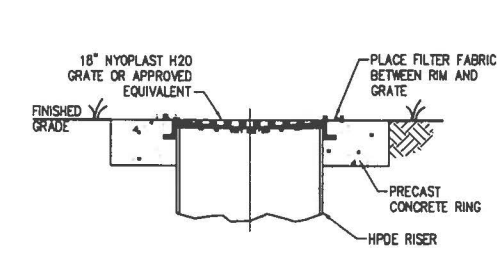
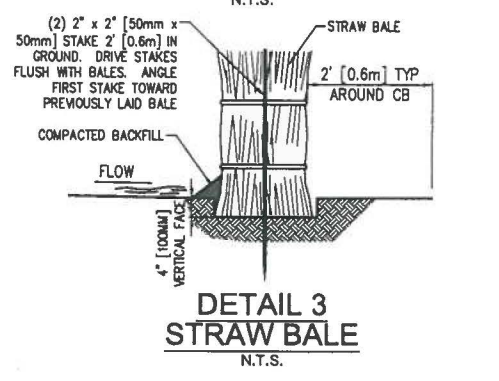
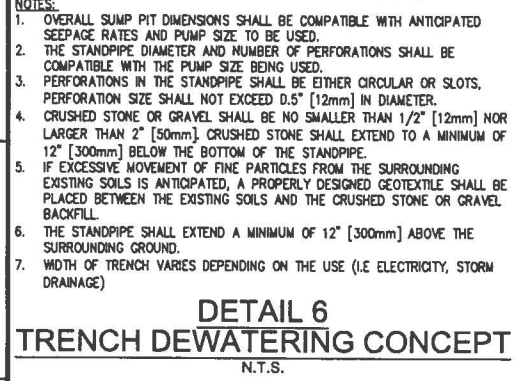
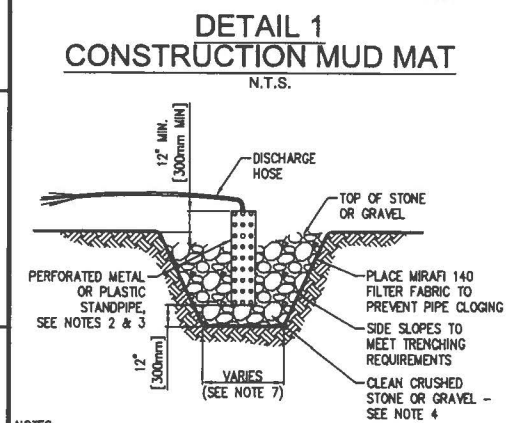
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XX:\Applications\Projects\2010\5043-0100-22 Amherstburg 2 (Final)\Drawings\Active Drawing Files\AMH2-C311.dwg 18 Jan 19, 2011 - 4:53pm



NOTES:

- ADDITIONAL MEASURES SUCH AS WHEEL WASHING SYSTEM MAY BE REQUIRED ALONG WITH A MUD MAT TO ENSURE SEDIMENT FROM CONSTRUCTION SITE WILL NOT BE TRANSPORTED OFF THE SITE VIA EXISTING CONSTRUCTION VEHICLES.
- FOR CONSTRUCTION SITES NOT CAPABLE OF CONSTRUCTING A MUD MAT AT THE VEHICLE ACCESS POINT, A WHEEL WASHING SYSTEM IS ESSENTIAL IN PREVENTING SEDIMENT FROM BEING TRANSPORTED OFF THE SITE.



SCHEDULE "H-3" TO BY-LAW 2011-14
1681351 ONTARIO INC.

Per: *[Signature]*
Name: LORI'S COLLARD
Title: PRESIDENT

Per: _____
Name: _____
Title: _____

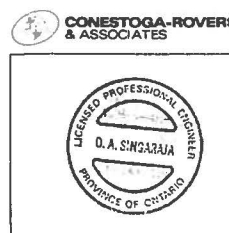
HELIOS PROJECT IV LIMITED PARTNERSHIP, by its general partner, HELIOS PROJECT IV INC.
Per: *[Signature]*
Name: WINSTON BENNETT
Title: VICE PRESIDENT

Per: _____
Name: _____
Title: _____

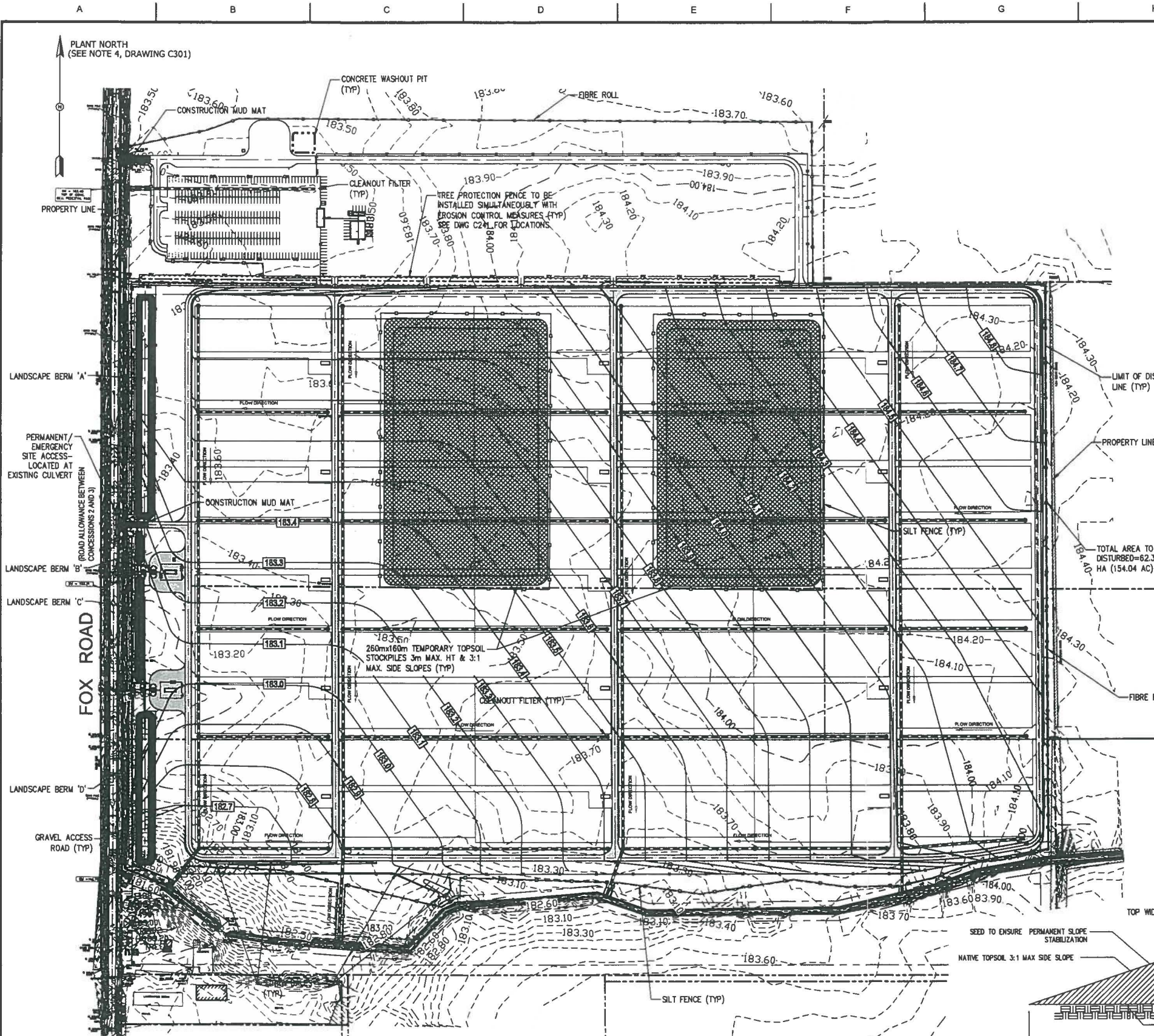
TOWN OF AMHERSTBURG
[Signature]
MAYOR WAYNE HURST
[Signature]
CLERK- BRENDA M. PERCY

1	01-19-2011	TOWN & MNR COMMENTS, RE-ISSUED FOR SPA	FWD	CE	MS
D	12-30-10	IFC, PENDING SPA APPROVAL	MH	HK	CE
REV	DATE	REVISION DESCRIPTION	BY	CHK	APP

		FIRST SOLAR DEVELOPMENT (CANADA) INC. 5115 BLACKWELL SEVERND SARNOIA, ONTARIO, N7Y 7H3	
AMHERSTBURG 2 SOLAR FARM 191 CONCESSION 3 NORTH AMHERSTBURG, ONTARIO N9V 2Y9			
PROJECT: AMHERSTBURG 2 SOLAR FARM TITLE: TYPICAL EROSION & SEDIMENT CONTROL DETAILS			
PROJ. MGR. KEITH STAMMER	PROJ. ENGR. NATHAN BROOCHSTEIN	DR. BY JW	CHK. BY SCALE RM AS SHOWN
PROJ. DIRECTOR KEITH STAMMER	PROJECT CODE 5043-0100-22	DRAWING No. AMH2 C903	REV. 1



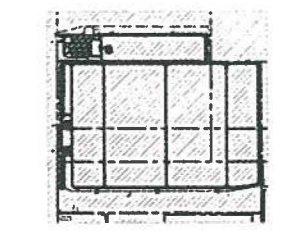
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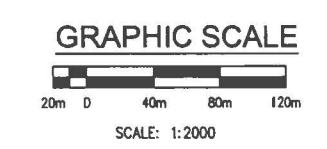
- SOIL EROSION & SEDIMENT CONTROL NOTES:**
- ALL SOIL EROSION AND SEDIMENT CONTROL PRACTICES WILL BE INSTALLED IN ACCORDANCE WITH THE STATE (OR PROVINCE) STANDARDS FOR SOIL EROSION AND SEDIMENT CONTROL, AND WILL BE INSTALLED IN PROPER SEQUENCE AND MAINTAINED UNTIL PERMANENT PROTECTION IS ESTABLISHED.
 - ANY DISTURBED AREA THAT WILL BE LEFT EXPOSED FOR MORE THAN THIRTY (30) DAYS AND NOT SUBJECT TO CONSTRUCTION TRAFFIC SHALL IMMEDIATELY RECEIVE A TEMPORARY SEEDING. IF THE SEASON PROHIBITS TEMPORARY SEEDING, THE DISTURBED AREA WILL BE MULCHED WITH SALT HAY OR EQUIVALENT AND BE BOUND IN ACCORDANCE WITH THE STATE (OR PROVINCE) STANDARDS (I.E. PEG AND TWINE, MULCH NETTINGS, OR LIQUID MULCH BINDER).
 - IMMEDIATELY FOLLOWING INITIAL DISTURBANCE OR ROUGH GRADING, ALL CRITICAL AREAS SUBJECT TO EROSION WILL RECEIVE A TEMPORARY SEEDING IN COMBINATION WITH STRAW MULCH OR A SUITABLE EQUIVALENT, AT A RATE OF 2 TONS PER ACRE, ACCORDING TO STATE (OR PROVINCE) STANDARDS.
 - STABILIZATION SPECIFICATIONS - TEMPORARY SEEDING AND MULCHING:
 - LIME - 90 LBS/1,000 SF GROUND LIMESTONE; FERTILIZER - 11 LBS/1,000 SF; 10-20-10 OR EQUIVALENT WORKED INTO SOIL A MINIMUM OF 4".
 - SEEDS:
 - COOL SEASON: PERENNIAL RYE GRASS 100LBS/ACRE OR OTHER APPROVED SEEDS; PLANT BETWEEN MARCH 1 AND MAY 15 OR BETWEEN AUGUST 15 AND OCTOBER 1.
 - WARM SEASON: PEARL MILLET AT 20 LBS/AC. OR OTHER APPROVED SEEDS; PLANT BETWEEN MAY 15 AND AUGUST 15.
 - MULCH - SALT HAY OR SMALL GRAIN STRAW AT A RATE OF 70 TO 90 LBS/1,000 SF TO BE APPLIED ACCORDING TO THE STATE OR PROVINCE STANDARDS. MULCH SHALL BE SECURED BY APPROVED METHODS (I.E. PEG AND TWINE, MULCH NETTING, OR LIQUID MULCH BINDER).
 - PERMANENT STABILIZATION SPECIFICATIONS: SEEDING (SEE DWG C701).
 - TEMPORARY BERMS ARE TO BE INSTALLED ON ALL CLEARED ROADWAYS AND EASEMENT AREAS IN ACCORDANCE WITH THE STATE (OR PROVINCE) STANDARDS.
 - AN AGGREGATE COURSE WILL BE APPLIED IMMEDIATELY FOLLOWING ROUGH GRADING AND INSTALLATION OF IMPROVEMENTS IN ORDER TO STABILIZE DRIVEWAYS AND PARKING AREAS. IN AREAS WHERE NO UTILITIES ARE PRESENT, SUB-BASE WILL BE INSTALLED WITHIN 15 DAYS OF PRELIMINARY GRADING.
 - THE SITE SHALL AT ALL TIMES BE GRADED AND MAINTAINED SUCH THAT ALL STORM WATER RUN-OFF IS DIVERTED TO SOIL EROSION AND SEDIMENT CONTROL FACILITIES.
 - ANY STEEP SLOPES RECEIVING PIPELINE INSTALLATION WILL BE BACK FILLED AND STABILIZED DAILY, AS THE INSTALLATION PROCEEDS (I.E. SLOPES GREATER 3:1).
 - ALL SEDIMENTATION STRUCTURES WILL BE INSPECTED AND MAINTAINED ON A REGULAR BASIS AND AFTER EVERY STORM EVENT.
 - STOCKPILES ARE NOT TO BE LOCATED WITHIN 50' (15.24m) OF A FLOOD PLAIN, SLOPE, ROADWAY, OR DRAINAGE FACILITY. THE BASE OF ALL STOCKPILES MUST BE PROTECTED BY SEDIMENT FENCE.
 - A CRUSHED STONE MUD MAT WILL BE INSTALLED IMMEDIATELY AFTER INITIAL SITE DISTURBANCE AND WILL BE INSTALLED WHEREVER A CONSTRUCTION ACCESS ROAD INTERSECTS ANY PAVED ROADWAY (SEE DETAIL ON DWG C903).
 - MAXIMUM SIDE SLOPES OF ALL EXPOSED SURFACES SHALL NOT EXCEED 3:1 UNLESS OTHERWISE APPROVED BY THE DISTRICT.
 - PAVED ROADWAYS MUST BE KEPT CLEAN AT ALL TIMES.
 - ALL CLEAN OUTS MUST BE PROTECTED WITH A CLEANOUT FILTER IMMEDIATELY AFTER CLEANOUT INSTALLATION (SEE DETAIL ON DWG C903).
 - CONDUIT OUTLET PROTECTION MUST BE INSTALLED AT ALL REQUIRED OUT FALLS PRIOR TO THE DRAINAGE SYSTEM BECOMING OPERATIONAL.
 - ALL DE-WATERING OPERATIONS MUST DISCHARGE DIRECTLY INTO A SEDIMENT FILTER AREA OR FILTER BAG. (SEE DETAIL ON DWG C903).
 - PERMANENT VEGETATION TO BE SEEDED OR SOODED ON ALL EXPOSED AREAS WITHIN TEN (10) DAYS AFTER FINAL SITE DISTURBANCE. MULCH TO BE USED AS NECESSARY FOR PROTECTION UNTIL SEEDING IS ESTABLISHED.
 - DURING INACTIVE CONSTRUCTION PERIODS, WHERE THE SITE IS LEFT ALONE FOR 30 DAYS OR LONGER, A MONTHLY INSPECTION SHOULD BE CONDUCTED.
 - DOCUMENTATION OF ALL INSPECTIONS SHOULD BE KEPT ON SITE FOR A MINIMUM ONE (1) YEAR AFTER THE DEVELOPMENT IS SUBSTANTIALLY COMPLETED.

- NOTES:**
- FOR GENERAL NOTES, SEE DWG C111.
 - FOR LEGEND AND ABBREVIATIONS, SEE DWG C112.
 - ALL EROSION CONTROL MEASURES SHALL BE INSTALLED AS PART OF MOVE-ON WORK.
 - ALL INSTALLED EROSION CONTROL MEASURES SHALL BE MAINTAINED BY SUB-CONTRACTOR FOR THE DURATION OF THE PROJECT AND REMOVED AFTER COMPLETION OF THE PROJECT AND FINAL SITE STABILIZATION.
 - FOR ALL EROSION AND SEDIMENT CONTROL DETAILS, SEE DWG. C903.

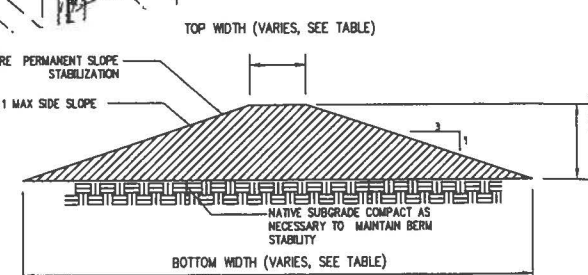
- TOPSOIL STRIPPING & STOCKPILING NOTES:**
- INSTALL/ENHANCE SOIL EROSION AND SEDIMENT CONTROL DEVICES/MEASURES.
 - STRIP TOPSOIL TO ITS FULL DEPTH (APPROX. 300mm).
 - STOCKPILE TOPSOIL IN PERMANENT BERMS AND TEMPORARY STOCKPILES.
 - GRADE/EXCAVATE ROADWAY "BOX OUT"
 - PLACE GRAVEL IN ROADWAY
 - PERFORM ROUGH GRADING (TO WITHIN 300mm± OF FINAL GRADE).
 - RE-DISTRIBUTE TOPSOIL TO MEET FINAL GRADE (FROM THE TEMPORARY STOCKPILE).



KEY PLAN
SCALE: NTS



GRAPHIC SCALE
SCALE: 1:2000



BERM	TOP WIDTH (m)	BOTTOM WIDTH (m)	HEIGHT (m)	LENGTH (m)	SIDE SLOPE
A	8	18	2	220	3:1
B	2	8	1	78	3:1
C	2	8	1	104	3:1
D	8	18	2	190	3:1

LANDSCAPE BERM DETAIL
SCALE: NTS

SCHEDULE "H-4" TO BY-LAW 2011-14

EROSION & SEDIMENT CONTROL PLAN

SCALE: 1:2000

1681351 ONTARIO INC.
Per: *Loris Collavino*
Name: **LORIS COLLAVINO**
Title: **PRESIDENT**

HELIOS PROJECT IV LIMITED PARTNERSHIP, by its general partner, HELIOS PROJECT IV INC.
Per: *Anton Bennett*
Name: **ANTON BENNETT**
Title: **VICE PRESIDENT**

TOWN OF AMHERSTBURG
Per: *Wayne Hurst*
Name: **MAYOR WAYNE HURST**
Per: *Brenda M. Percy*
Name: **CLERK- BRENDA M. PERCY**

REV	DATE	REVISION DESCRIPTION	BY	CHK	APP
1	01-19-2011	TOWN & UMR COMMENTS, RE-ISSUED FOR SPA	FWD	CE	NB
D	12-30-2010	IFC, PENDING SPA APPROVAL	MH	HK	CE

First Solar
FIRST SOLAR DEVELOPMENT (CANADA) INC.
5115 BLACKWELL SIDEROAD
SARNA, ONTARIO, N7Y 2Y3

AMHERSTBURG 2 SOLAR FARM
191 CONCESSION 3 NORTH
AMHERSTBURG, ONTARIO N9V 2Y9

PROJECT: AMHERSTBURG 2 SOLAR FARM

TITLE: EROSION & SEDIMENT CONTROL PLAN

PROJ. MGR.	PROJ. ENGR.	DR. BY	CHK. BY	SCALE
KEITH SYMANS	MAHJAN BROOKESTEIN	FWD	-	AS SHOWN
PROJ. DIRECTOR	PROJECT CODE	DRAWING No.	REV.	
KEITH SYMANS		AMH2 C231	1	
FIRST SOLAR JOB No.				
5043-0100-22				

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X:\Applications\Engineering\Projects\2010\5043-0100-22\Amherstburg 2 (Held) (D:\Drawings\Active\Drawings\FirstSolar\AMH2-C231.dwg 16/05/2011 4:44pm)



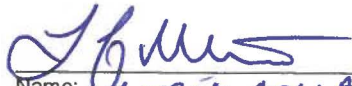
STORMWATER MANAGEMENT PLAN AMHERSTBURG 2 SOLAR FARM

191 CONCESSION ROAD 3 NORTH (FOX ROAD),
AMHERSTBURG, ONTARIO

Prepared For:
First Solar Development (Canada) Inc


SCHEDULE "I" TO BY-LAW 2011-14

1681351 ONTARIO INC.

Per: 
Name: LOUIS COLLAVINO
Title: PREIDENT

Per: _____
Name: _____
Title: _____

HELIOS PROJECT IV LIMITED PARTNERSHIP, by
its general partner, HELIOS PROJECT IV INC.

Per: 
Name: WINSTON BENNETT
Title: VICE PRESIDENT

Per: _____
Name: _____
Title: _____

TOWN OF AMHERSTBURG


MAYOR- WAYNE HURST


CLERK- BRENDA M. PERCY

Prepared by:
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NOVEMBER 2010
REF. NO. 073209 (1)

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1.0 INTRODUCTION

Conestoga-Rovers & Associates (CRA) has prepared the following stormwater management plan (SWM Plan) for a proposed 61.6 hectare (ha) 15 MegaWatt (MW) photovoltaic or solar power plant located at 191 Concession 3 North in the Town of Amherstburg, Ontario (Site). The developed portion of the Site is bounded to the south by Darrah Drain, to the west by Concession Road 3 North (Fox Road) followed by the Owen Bondy Drain, and to the north and east by agricultural lands. The Site is surrounded by agricultural lands to the north, east, and south and by industrial lands to the west. Alma Street is located further to the south. Figure 1 presents the Site location information. This SWM Plan was developed with reference to standards provided by the Ministry of the Environment.

The purpose of this study is to assess the quantity and quality control requirements for the proposed development. These requirements were assessed in terms of the Ministry of the Environment (MOE) criteria as per the Stormwater Management Planning and Design Manual (March 2003) for water quality and water quantity control. The impacts of the proposed conditions on the downstream receiving drain are assessed and a proposed stormwater management methodology is presented.

In preparation of this report, CRA reviewed Site specific survey information representing existing conditions, geotechnical reports, previous studies, assessed available satellite imagery, conducted Site visits, and communicated with the Town of Amherstburg and the Essex Region Conservation Authority (ERCA).

2.0 BACKGROUND

The purpose of the project is to generate electricity using photovoltaic solar panels as a renewable energy source by collecting and converting the energy from the sun into electricity. The proposed development Site area will consist of a series of solar panel arrays, photovoltaic combiner switchgear, and access roads. Presently the Site is utilized for agriculture.

CRA has conducted preliminary discussions with both the ERCA and with the Town of Amherstburg regarding specific design requirements for the Site. It is understood that Darrah Drain and the roadside ditch (Owen Bondy Drain) along Fox Road are municipal drains and therefore fall under the requirements of the Municipal Drainage Act. CRA has contacted ERCA regarding the limits of the regulated area and any specific requirements relating to work within the regulated area. At the time of writing of this report specific information regarding requirements of the Municipal Drainage Act and the Conservation Authorities Act has not been received. However, the drainage design and this stormwater management plan are anticipated to address the requirements of these acts.

Further discussion on drainage is provided in subsequent sections of this report.

3.0 EXISTING CONDITIONS

A topographic survey of the Site area was conducted on behalf of First Solar in October 2010 (as shown on attached Drawing C121). A Site visit was conducted by CRA on November 19, 2010. The Site has a very shallow grade and, in general, surface water drains overland to the south and west to surrounding Municipal Drains as shown on Figure 2. The overall average slope to the south and west is approximately 0.3 percent.

The Site area is approximately 61.6 hectares (ha). Based on CRA's Site visit and a review of available plans, there are no major off-Site contributing drainage areas that drain onto the Site. The existing vegetative cover consists of cultivated agricultural land with row crops for the majority of the Site and wild grasses and shrubs along the perimeter of the Site. At the time of CRA's Site visit, the fields consisted of primarily bare soil with minimal residual vegetation after cultivation. Darrah Drain is surrounded by shrubs, wild grasses and some trees. Wild grasses and shrubs can be found along the eastside of Owen Bondy Drain. Due to the very shallow grade on-Site and the uncertainty of the locations of sub-surface tile drains, sub-catchment delineations were estimated based on the best available information. The survey provided to CRA by First Solar was used for sub-catchment delineation.

There are two existing corrugated metal pipe (CMP) culverts (approximately 900 millimetres [mm] in diameter) along Darrah Drain within the property limits and two existing CMP culverts (approximately 600 mm in diameter) across the Owen Bondy Drain along the Fox Road frontage. There was approximately 100 to 200 mm of water in the culverts on Darrah Drain at the time of the Site inspection with minimal active flow. The culverts along the Owen Bondy Drain were dry at the time of the Site inspection. Darrah Drain and the Owen Bondy Drain confluence at the southwest corner of the Site and cross beneath Fox Road via a concrete box culvert. Darrah Drain ultimately discharges to Big Creek, therefore the Site lays within the Big Creek watershed.

The Site was delineated into three sub-catchments to determine off-Site discharge characteristics as shown on Figure 2. The northern portion of the Site (sub-catchment 100) drains overland to the Owen Bondy drainage ditch on the east side of Concession Road 3 North (Fox Road). Sub-catchment 101 drains overland to the Owen Bondy Drain and via tile drains to Darrah Drain. The runoff from sub-catchment 102 drains via tile drains and overland to the Darrah Drain located to the south of the Site.

In general, several penetrations of the tile drain of varying sizes were observed into the Darrah Drain along the southern edge of the Site; however, no penetrations were

observed into the Owen Bondy Drain along Fox Road. The exposed portions of the tile drains consisted of Corrugated Metal Pipes (CMP) and Polyethylene (PE). The exact location and sizes of tile drains have not been verified in preparation of this report.

Site soils consist of approximately 200 mm to 380 mm of clayey topsoil underlain by silty clay till (Golder Associates, 2008). In general, groundwater is encountered over 5 m below grade (Golder Associates, 2008).

4.0 PROPOSED CONDITIONS

Proposed conditions includes a series of fixed angle photovoltaic arrays over vegetative ground cover, photovoltaic combiner switchgear shelters, gravel access roads, and gravel parking areas as shown on Drawing C311. The majority of the Site is proposed to be utilized for solar panels underlain with vegetative ground cover. Proposed grades on-Site are very shallow (approximately 0.25 percent in general) and similar to existing conditions. Sub-catchment delineations were estimated based on the proposed grading plan provided to CRA by First Solar as shown on Figure 3.

The northern portion of the Site (sub-catchment 200) consists of the Phase I (or Move-On) areas consisting of gravel cover parking and staging areas as shown on Drawing C211. This area will retain existing grades and drains west overland to the Owen Bondy Drain, a drainage ditch on the east side of Concession Road 3 North (Fox Road). The primary construction period Site entrance will be to this area via an existing entrance from Fox Road. The existing culvert crossing for the entrance across the Owen Bondy Drain will be maintained.

Drainage within the photovoltaic array (Phase II) areas is proposed to be via overland flow and subdrains ultimately to Darrah Drain and is designated as sub-catchment 201 as shown on Figure 3. The proposed grading and drainage plan for Phase II is shown on Drawing C311. This drawing presents the layout of the subdrain system with pipe sizes, slopes and inverts specified On Drawing C312. The subdrain system's primary function is to provide drainage during the construction period; therefore, fairly shallow slopes were utilized and shallow bury depths were utilized. The subdrain system has cleanouts located at each starting run and at all pipe intersections. Outlets into Darrah Drain will be constructed with rip rap protection and rodent grates.

The photovoltaic arrays are typically installed with the lowest portion of the panels a minimum of 600 mm above grade with short grass land cover as depicted on attached Figure 4 which presents a photograph of a typical installation. Therefore, the runoff from the arrays will drain onto vegetated surfaces and sheet flow consistent with existing conditions.

All areas of the Site, with the exception of access roads and gravel parking lots, will be covered with topsoil and vegetated.

Comparison of the proposed conditions peak flows to existing conditions peak flows reveals that there is a decrease in peak flows for the 25 mm through the 100-year storm. It should be noted that in conducting the modelling effort, a simplistic hydrologic model

was created assuming overland flow. This assumption was made as it is expected that during intense storm events, such as the synthetic 3 hour duration storm events modelled, the majority of the runoff will be directed overland to the outlet. The decrease in peak flow is largely due to the change in the vegetation type from row crops during existing conditions to a fully vegetated area during proposed conditions. It is expected that with row cropping conditions, the fields would have consisted of minimum vegetation for approximately 50 percent of the year. However, under proposed conditions the vegetative cover is selected to include a low maintenance seed mix which will not be mowed resulting in permanent vegetative cover throughout the year.

There are no detrimental water quality impacts anticipated for this Site under proposed conditions. It is expected that there will be an improvement in long term water quality discharged from the Site, as the proposed use consists of minimal Site disturbance and a fully vegetated Site.

5.0 HYDROLOGIC MODELLING

The urban stormwater model MIDUSS 4.72 was used to calculate the surface runoff resulting from the 25 mm and 4 hour duration MOE water quality storm, 2-year, 5-year, 10-year, 25-year, 50-year, and 100-year return period with a 3-hour Chicago rainfall distribution. The storm parameters used for the hydrologic modelling were developed from precipitation data provided by the Atmospheric Environment Service (AES) for the Harrow CDA meteorological station which is closest to the Site. A summary of the distribution parameters used in the modelling is provided in Table 1.

Other model input parameters, including sub-catchment areas, overland flow lengths, Soil Conservation Service (SCS) runoff Curve Numbers (CN), percent imperviousness, Manning's roughness coefficients, and initial abstraction were entered into the model based on the review of available data and standard engineering practice.

Figure 2 and Figure 3 illustrate existing and proposed conditions at the Site and the delineated sub-catchment areas. The hydrologic model input parameters for existing and proposed conditions are summarized in Tables 2 and 3, respectively. A summary of runoff peak flows and discharge volumes calculated using the hydrologic model is provided in Tables 4 and 5. Output from the model for existing and proposed conditions is provided in Appendices A and B, respectively.

6.0 EROSION AND SEDIMENT CONTROL PLAN

The purpose of erosion and sediment controls is to minimize the potential release of pollutants, and specifically sediments, directly or indirectly into downstream receiving waters. To achieve this objective, erosion and sediment controls will be utilized during construction as presented on Drawing C231. Erosion and sediment controls to be implemented during construction activities will include, as a minimum, minimizing Site disturbance, stabilized construction entrances, silt fence, fibre rolls, straw check dams, inlet filters, gravel access roads, and implementation of vegetative cover. A row of perimeter silt fencing or fibre rolls will be placed around the work Site to eliminate migration of sediment during construction. All disturbed areas will be vegetated with approved non-invasive native species of grasses. The seed mix will be designed to include low maintenance mixes with shade tolerance and low heights for utilization under the photovoltaic arrays.

Additional controls may be necessary during construction to prevent discharge of sediment-laden runoff from the Site. These additional controls may include, but not be limited to, additional silt fence, rock rip-rap channel linings, geotextile erosion control matting, rock check dams, straw bale check dams, temporary vegetation, and filter media.

All erosion and sediment control measures will be implemented prior to and during land disturbing activities and will be maintained throughout the duration of construction until the Site is fully stabilized with the establishment of vegetation.

7.0 MONITORING PLAN

It is proposed that during construction activities, visual monitoring be conducted bi-weekly and within 24 hours of any rainfall event of 12 mm or more. During the construction period, monitoring shall consist of visual observation for the effectiveness of the sediment and erosion controls and sediment migration off-Site. These sediment control measures shall be inspected to ensure that they have been properly installed and continue to function as designed. The controls shall be maintained and accumulated sediments removed once their capture capacity has been decreased by one-third. The outlets shall also be inspected for signs of sediment migration off-Site. In the event that sediments have migrated off-Site, additional sediment controls shall be implemented as necessary to ensure that no additional sediment escapes from the Site and any sediment that has migrated off-Site shall be removed.

Construction inspections shall be conducted until such time as the photovoltaic or solar panels and associated construction activities are completed and the vegetation has established itself to a density equivalent to 70 percent of the background native vegetation density. It is anticipated that the plantings will require one growing season to fully grow in. The monitoring program conducted during construction and the grow-in period shall consist of visual inspections and a written log.

8.0 CONCLUSION AND RECOMMENDATIONS

The stormwater management measures proposed for the Amherstburg Solar 2 photovoltaic power plant were designed to mitigate the impacts of development on surface waters. The proposed measures include the following:

- Implementing a construction period sediment and erosion control plan
- Maintaining and enhancing subsurface drainage with the installation of subdrains
- Providing connections to the Municipal Drain with rodent protection
- Providing vegetative cover for the majority of the Site through all seasons

These measures are designed to reduce the impacts associated with this project from a surface water quantity and quality perspective, while allowing for the safe use of the site as a photovoltaic power generation facility.

We kindly request approval for the construction and operation of the stormwater management features at this facility, based on the information provided in this report.

9.0 REFERENCES

Golder Associates, 2008. Final Report, Geotechnical Investigation Three Development Sites, SunPower Corporation, Systems, Town of Amherstburg, Ontario.

All of Which is Respectfully Submitted,
CONESTOGA-ROVERS & ASSOCIATES

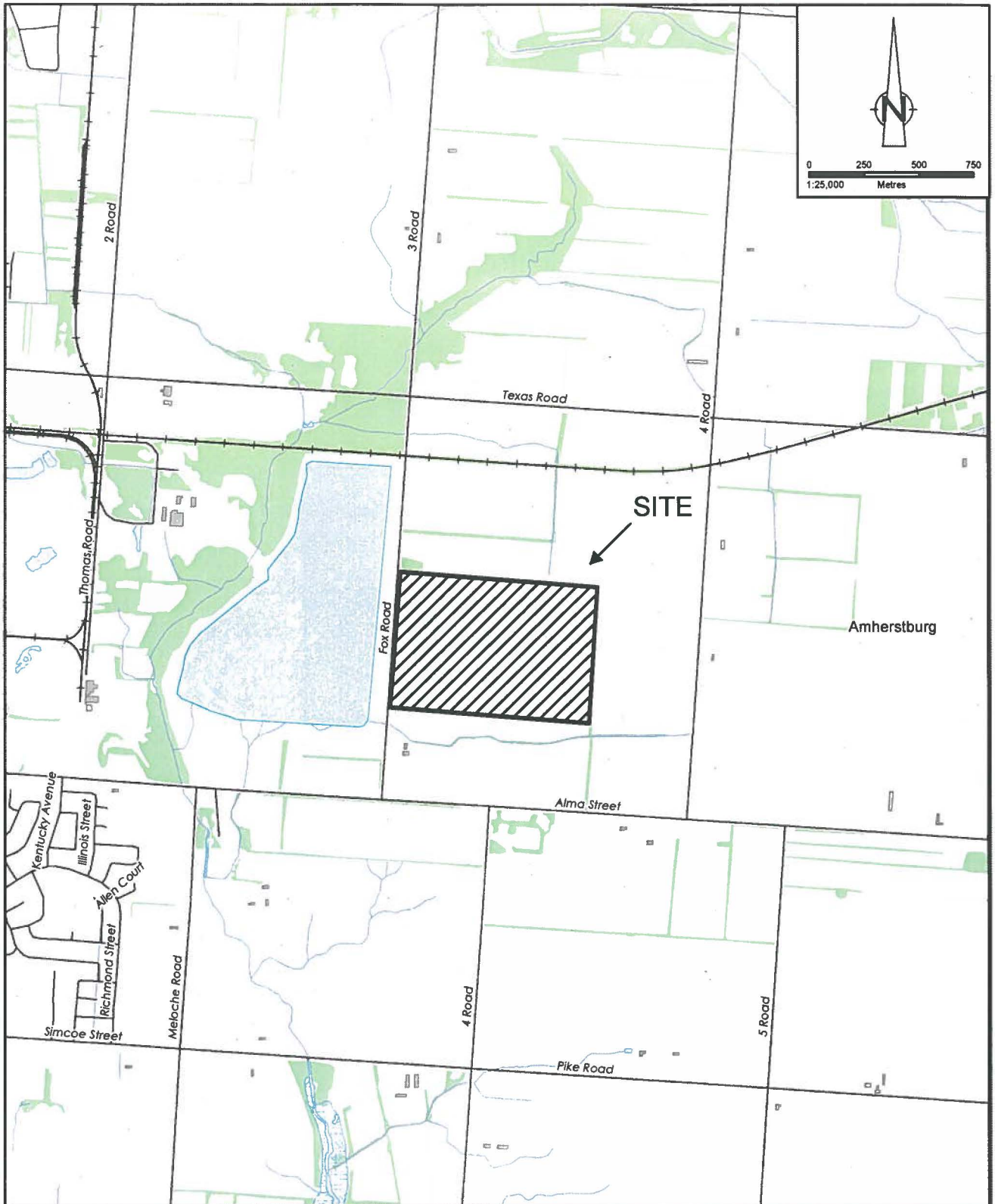


Dilan Singaraja, P. Eng.

A handwritten signature in black ink, appearing to read "Sukhmani Bola".

FOR

Sukhmani Bola, B.Eng.



Source: Essex Region Conservation Authority; MNR NRVIS, 2010. Produced by CRA under licence from Ontario Ministry of Natural Resources, © Queen's Printer 2010
 Datum: NAD 83 Projection: UTM Zone 17

figure 1

SITE LOCATION MAP
STORM WATER MANAGEMENT PLAN
AMHERSTBURG 2 SOLAR FARM
First Solar Development (Canada) Inc.



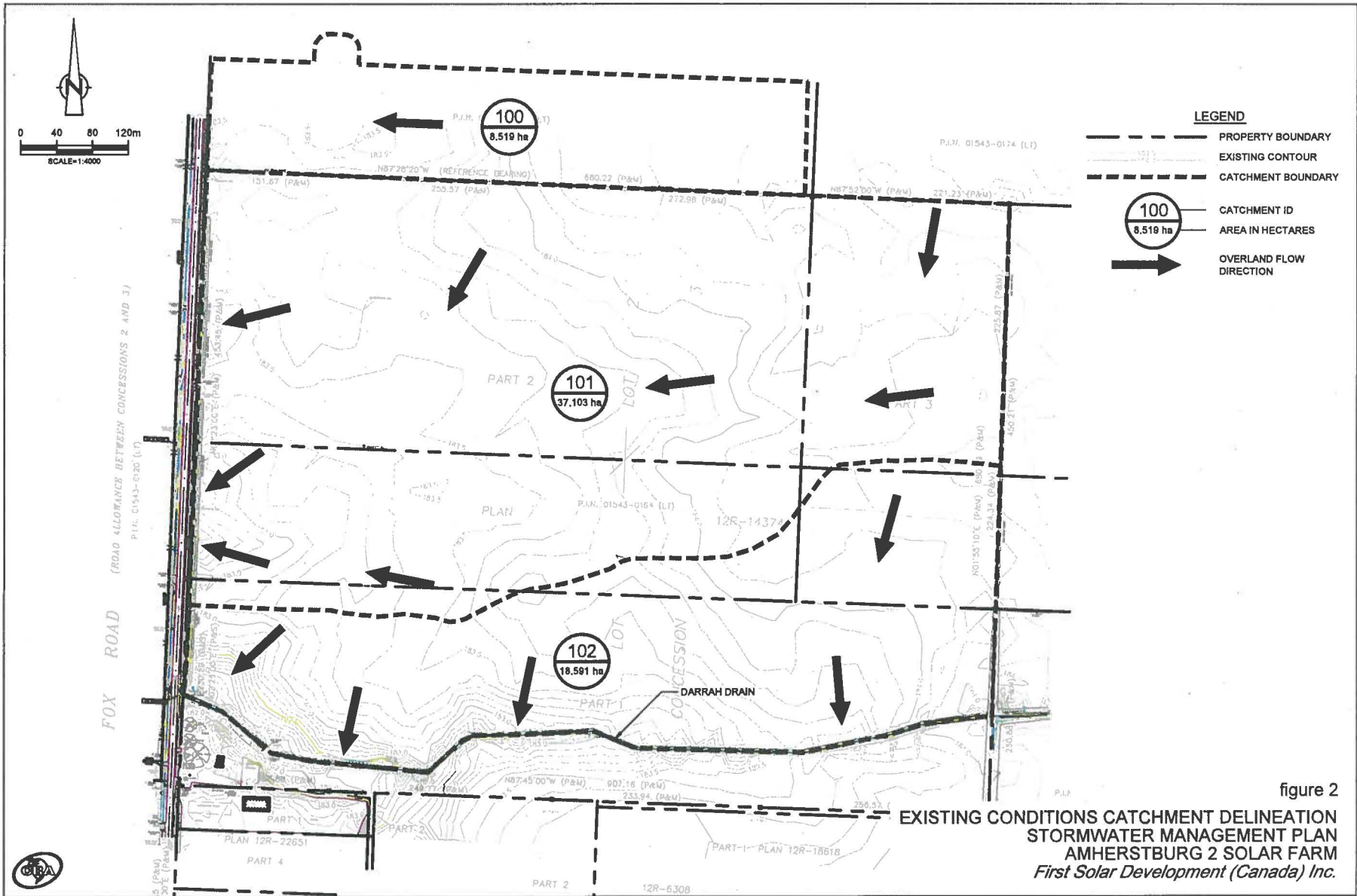


figure 2

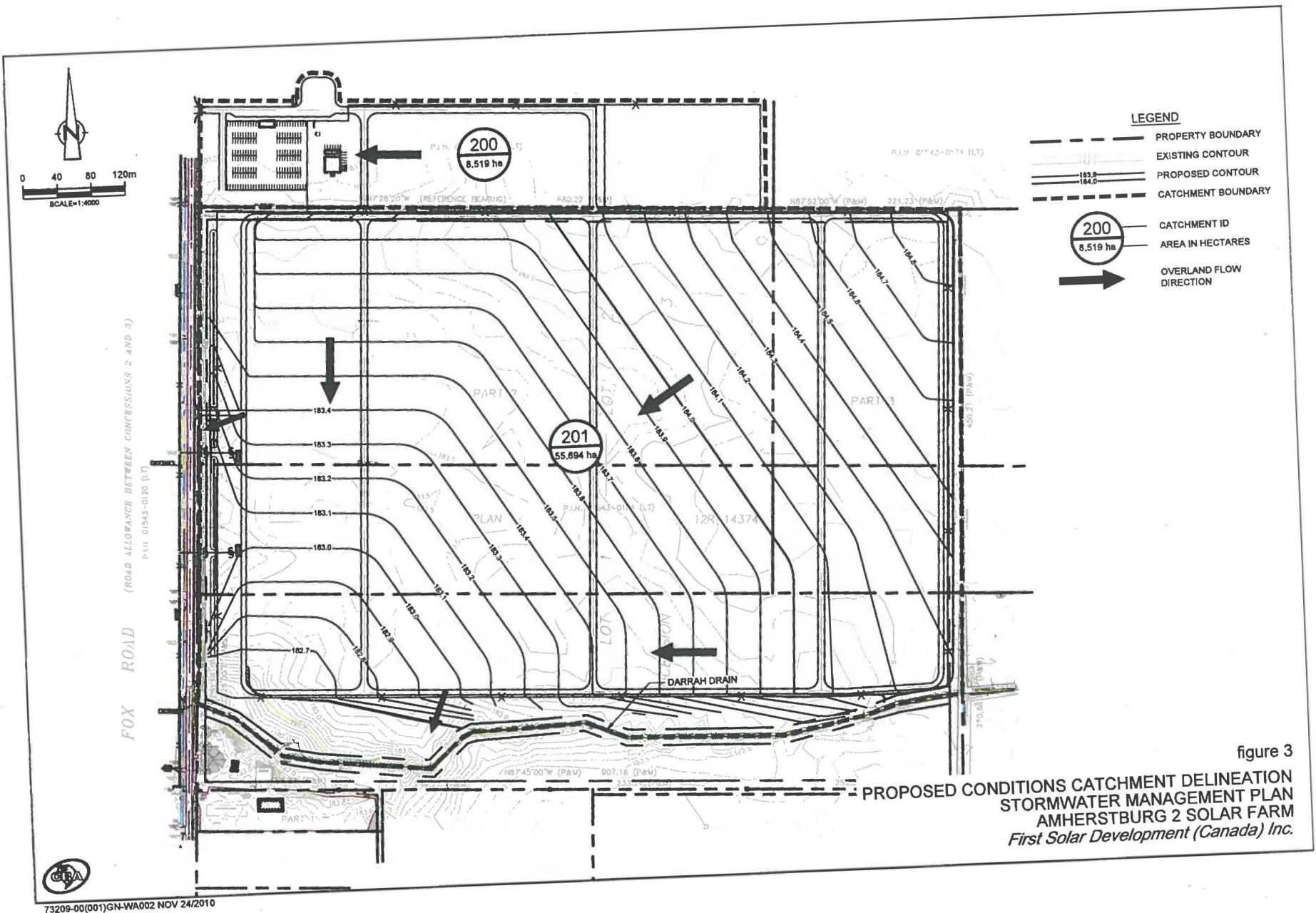


figure 3
 PROPOSED CONDITIONS CATCHMENT DELINEATION
 STORMWATER MANAGEMENT PLAN
 AMHERSTBURG 2 SOLAR FARM
 First Solar Development (Canada) Inc.



SOURCE: WWW.FIRSTSOLAR.COM

figure 4

TYPICAL PHOTOVOLTAIC PANEL INSTALLATION PHOTOGRAPH
STORMWATER MANAGEMENT PLAN
AMHERSTBURG 2 SOLAR FARM
First Solar Development (Canada) Inc.



TABLE 1

DESIGN STORMS
STORMWATER MANAGEMENT PLAN
191 CONCESSION 3 NORTH, AMHERSTBURG, ONTARIO
First Solar Development (Canada) Inc.

Design Storms

<i>Return Period</i>	<i>Rainfall Depth</i> ²	<i>Duration</i>
	<i>(mm)</i>	<i>(hr)</i>
25 mm ¹	25.0	4
2-Year	32.4	3
5-Year	47.7	3
10-Year	57.9	3
25-Year	70.7	3
50-Year	80.2	3
100-Year	89.7	3

Notes:

1. The 25 mm storm is the Ministry of the Environment (MOE) Quality Storm.
2. Harrow CDA, Ontario (6133360). Rainfall Intensity Duration Frequency Values. 2003. Atmospheric Environment Service. Environment Canada.

TABLE 2

**EXISTING CONDITIONS SUBCATCHMENT PARAMETERS
STORMWATER MANAGEMENT PLAN
191 CONCESSION 3 NORTH, AMHERSTBURG, ONTARIO
First Solar Development (Canada) Inc.**

Subcatchment	Area	Flow Length	Slope	% Impervious	Soil Group	CN ¹		Initial Abstraction ² (mm)		Manning's N	
						Pervious	Impervious	Pervious	Impervious	Pervious	Impervious
100	8.519	206	0.156	0	CD	87	98	3.795	0.518	0.035	0.011
101	37.103	828	0.157	0	CD	87	98	3.795	0.518	0.035	0.011
102	18.591	184	0.652	0	CD	87	98	3.795	0.518	0.035	0.011

Total 64.2

Notes:

1. Soil Conservation Service (SCS) Curve Number.
2. $0.1 * ((25400 / CN) - 254)$

TABLE 3

**PROPOSED CONDITIONS SUBCATCHMENT PARAMETERS
STORMWATER MANAGEMENT PLAN
191 CONCESSION 3 NORTH, AMHERSTBURG, ONTARIO
First Solar Development (Canada) Inc.**

Subcatchment	Area (ha)	Flow Length (m)	Slope (%)	% Impervious (%)	Soil Group	CN ¹		Initial Abstraction ² (mm)		Manning's N	
						Pervious	Impervious	Pervious	Impervious	Pervious	Impervious
200	8.519	206	0.156	0	CD	89	98	3.102	0.518	0.029	0.011
201	55.694	978	0.257	0	CD	75	98	8.371	0.518	0.035	0.011

Total 64.2

Notes:

1. Soil Conservation Service (SCS) Curve Number.
2. $0.1 * ((25400 / CN) - 254)$
3. CN for subcatchment 201 is a weighted average of 95% meadow and 5% gravel cover types
4. CN for subcatchment 200 is a weighted average of 70% gravel and 30% dirt cover types

TABLE 4

PEAK FLOWS SUMMARY
 STORMWATER MANAGEMENT PLAN
 191 CONCESSION 3 NORTH, AMHERSTBURG, ONTARIO
First Solar Development (Canada) Inc.

Existing Conditions

<i>Catchment ID</i>	<i>25 mm</i>	<i>2-Year</i>	<i>5-Year</i>	<i>10-Year</i>	<i>25-Year</i>	<i>50-Year</i>	<i>100-Year</i>
	<i>(m³/s)</i>	<i>(m³/s)</i>	<i>(m³/s)</i>	<i>(m³/s)</i>	<i>(m³/s)</i>	<i>(m³/s)</i>	<i>(m³/s)</i>
100	0.112	0.256	0.617	0.935	1.376	1.702	2.085
101	0.234	0.549	1.334	2.016	3.041	3.864	4.775
102	0.352	0.833	1.937	2.764	3.978	4.984	6.005
Total Runoff	0.524	1.223	2.907	4.422	6.540	8.179	9.830

Proposed Conditions

<i>Catchment ID</i>	<i>25 mm</i>	<i>2-Year</i>	<i>5-Year</i>	<i>10-Year</i>	<i>25-Year</i>	<i>50-Year</i>	<i>100-Year</i>
	<i>(m³/s)</i>	<i>(m³/s)</i>	<i>(m³/s)</i>	<i>(m³/s)</i>	<i>(m³/s)</i>	<i>(m³/s)</i>	<i>(m³/s)</i>
200	0.158	0.344	0.789	1.129	1.627	2.019	2.416
201	0.076	0.246	0.844	1.465	2.420	3.300	4.245
Total Runoff	0.174	0.418	1.088	1.734	2.715	3.671	4.839

TABLE 5

**SUMMARY OF VOLUMES
STORMWATER MANAGEMENT PLAN
191 CONCESSION 3 NORTH, AMHERSTBURG, ONTARIO
First Solar Development (Canada) Inc.**

Existing Conditions

<i>Catchment ID</i>	<i>25 mm</i>	<i>2-Year</i>	<i>5-Year</i>	<i>10-Year</i>	<i>25-Year</i>	<i>50-Year</i>	<i>100-Year</i>
	<i>(m³)</i>	<i>(m³)</i>	<i>(m³)</i>	<i>(m³)</i>	<i>(m³)</i>	<i>(m³)</i>	<i>(m³)</i>
100	647	1041	2004	2706	3632	4343	5067
101	2819	4534	8726	11785	15822	18921	22088
102	1412	2271	4369	5901	7920	9478	11053
Total Volume Runoff	4879	7846	15100	20392	27374	32742	38208

Proposed Conditions

<i>Catchment ID</i>	<i>25 mm</i>	<i>2-Year</i>	<i>5-Year</i>	<i>10-Year</i>	<i>25-Year</i>	<i>50-Year</i>	<i>100-Year</i>
	<i>(m³)</i>	<i>(m³)</i>	<i>(m³)</i>	<i>(m³)</i>	<i>(m³)</i>	<i>(m³)</i>	<i>(m³)</i>
200	766	1198	2228	2966	3925	4662	5404
201	1520	2935	6944	10177	14711	18345	22171
Total Volume Runoff	2286	4132	9173	13143	18637	23007	27575

APPENDIX A

MODEL OUTPUT FILES FOR EXISTING CONDITIONS

Output File (4.7) 3209_25m.Pre opened 2010-11-23 16:15
 Units used are defined by G = 9.810
 48 971 5.000 are MAXDT MAXHYD & DTMIN values
 Licensee: Conestoga-Rovers & Associates Limited

35

COMMENT
 6 line(s) of comment

 * Project #73209-00 - First Solar *
 * Existing Conditions - Amherstburg 2 Solar Farm *
 * GV *
 * November 2010 *

23

FILE RAINFALL

1 1=READ: 2=WRITE
 12 25MD_001.HYT is Filename

27

HYDROGRAPH DISPLAY
 1 is # of Hyeto/Hydrograph chosen
 Depth = .2500000E+02 mm

3

IMPERVIOUS
 1 Option 1=SCS CN/C; 2=Horton; 3=Green-Ampt; 4=Repeat
 .011 Manning "n"
 98.000 SCS Curve No or C
 .100 Ia/S Coefficient
 .518 Initial Abstraction

14

START
 1 1=Zero; 2=Define

4

CATCHMENT
 100.000 ID No.6 99999
 8.519 Area in hectares
 206.000 Length (PERV) metres
 .156 Gradient (%)
 .000 Per cent Impervious
 206.000 Length (IMPERV)
 .000 %Imp. with Zero Dpth
 1 Option 1=SCS CN/C; 2=Horton; 3=Green-Ampt; 4=Repeat
 .035 Manning "n"
 87.000 SCS Curve No or C
 .100 Ia/S Coefficient
 3.795 Initial Abstraction
 1 Option 1=Trianglr; 2=Rectanglr; 3=SWM HYD; 4=Lin. Reserv
 .112 .000 .000 .000 c.m/s
 .304 .000 .304 C perv/imperv/total

15

ADD RUNOFF
 .112 .112 .000 .000 c.m/s

27

HYDROGRAPH DISPLAY
 4 is # of Hyeto/Hydrograph chosen
 Volume = .6474271E+03 c.m

4

CATCHMENT
 101.000 ID No.6 99999
 37.103 Area in hectares
 828.000 Length (PERV) metres
 .157 Gradient (%)
 .000 Per cent Impervious
 828.000 Length (IMPERV)

```

.000 %Imp. with Zero Dpth
1 Option 1=SCS CN/C; 2=Horton; 3=Green-Ampt; 4=Repeat
.035 Manning "n"
87.000 SCS Curve No or C
.100 Ia/S Coefficient
3.795 Initial Abstraction
1 Option 1=Trianglr; 2=Rectanglr; 3=SWM HYD; 4=Lin. Reserv
.234 .112 .000 .000 c.m/s
.304 .000 .304 C perv/imperv/total
15 ADD RUNOFF
.234 .301 .000 .000 c.m/s
27 HYDROGRAPH DISPLAY
4 is # of Hyeto/Hydrograph chosen
Volume = .2819404E+04 c.m
4 CATCHMENT
102.000 ID No.6 99999
18.591 Area in hectares
184.000 Length (PERV) metres
.652 Gradient (%)
.000 Per cent Impervious
184.000 Length (IMPERV)
.000 %Imp. with Zero Dpth
1 Option 1=SCS CN/C; 2=Horton; 3=Green-Ampt; 4=Repeat
.035 Manning "n"
87.000 SCS Curve No or C
.100 Ia/S Coefficient
3.795 Initial Abstraction
1 Option 1=Trianglr; 2=Rectanglr; 3=SWM HYD; 4=Lin. Reserv
.352 .301 .000 .000 c.m/s
.304 .000 .304 C perv/imperv/total
15 ADD RUNOFF
.352 .524 .000 .000 c.m/s
27 HYDROGRAPH DISPLAY
4 is # of Hyeto/Hydrograph chosen
Volume = .1412154E+04 c.m
20 MANUAL

```

Output File (4.7) 3209_100.PRE opened 2010-11-23 16:06
 Units used are defined by G = 9.810
 36 978 5.000 are MAXDT MAXHYD & DTMIN values
 Licensee: Conestoga-Rovers & Associates Limited

```

35 COMMENT
6   line(s) of comment
*****
* Project #73209-00 - First Solar
* Existing Conditions - Amherstburg 2 Solar Farm
* GV
* November 2010
*****

23 FILE RAINFALL
1   1=READ: 2=WRITE
12  ST2CS100.HYT      is Filename

27 HYDROGRAPH DISPLAY
1   is # of Hyeto/Hydrograph chosen
Depth = .8969974E+02 mm

3   IMPERVIOUS
1   1 Option 1=SCS CN/C; 2=Horton; 3=Green-Ampt; 4=Repeat
    .011 Manning "n"
98.000 SCS Curve No or C
    .100 Ia/S Coefficient
    .518 Initial Abstraction

14 START
1   1=Zero; 2=Define

4   CATCHMENT
100.000 ID No.6 99999
    8.519 Area in hectares
206.000 Length (PERV) metres
    .156 Gradient (%)
    .000 Per cent Impervious
206.000 Length (IMPERV)
    .000 %Imp. with Zero Dpth
    1 Option 1=SCS CN/C; 2=Horton; 3=Green-Ampt; 4=Repeat
    .035 Manning "n"
87.000 SCS Curve No or C
    .100 Ia/S Coefficient
    3.795 Initial Abstraction
    1 Option 1=Trianglr; 2=Rectanglr; 3=SWM HYD; 4=Lin. Reserv
      2.085 .000 .000 .000 c.m/s
      .663 .000 .663 C perv/imperv/total

15 ADD RUNOFF
    2.085 2.085 .000 .000 c.m/s

27 HYDROGRAPH DISPLAY
4   is # of Hyeto/Hydrograph chosen
Volume = .5067001E+04 c.m

4   CATCHMENT
101.000 ID No.6 99999
    37.103 Area in hectares
828.000 Length (PERV) metres
    .157 Gradient (%)
    .000 Per cent Impervious
828.000 Length (IMPERV)

```



```

.000 %Imp. with Zero Dpth
1 Option 1=SCS CN/C; 2=Horton; 3=Green-Ampt; 4=Repeat
.035 Manning "n"
87.000 SCS Curve No or C
.100 Ia/S Coefficient
3.795 Initial Abstraction
1 Option 1=Trianglr; 2=Rectanglr; 3=SWM HYD; 4=Lin. Reserv
4.775 2.085 .000 .000 c.m/s
.664 .000 .664 C perv/imperv/total
15 ADD RUNOFF
4.775 5.787 .000 .000 c.m/s
27 HYDROGRAPH DISPLAY
4 is # of Hyeto/Hydrograph chosen
Volume = .2208809E+05 c.m
4 CATCHMENT
102.000 ID No.ó 99999
18.591 Area in hectares
184.000 Length (PERV) metres
.652 Gradient (%)
.000 Per cent Impervious
184.000 Length (IMPERV)
.000 %Imp. with Zero Dpth
1 Option 1=SCS CN/C; 2=Horton; 3=Green-Ampt; 4=Repeat
.035 Manning "n"
87.000 SCS Curve No or C
.100 Ia/S Coefficient
3.795 Initial Abstraction
1 Option 1=Trianglr; 2=Rectanglr; 3=SWM HYD; 4=Lin. Reserv
6.005 5.787 .000 .000 c.m/s
.663 .000 .663 C perv/imperv/total
15 ADD RUNOFF
6.005 9.830 .000 .000 c.m/s
27 HYDROGRAPH DISPLAY
4 is # of Hyeto/Hydrograph chosen
Volume = .1105305E+05 c.m
20 MANUAL

```

APPENDIX B

MODEL OUTPUT FILES FOR PROPOSED CONDITIONS

Output File (4.7) 3209_25m.PST opened 2010-11-24 8:48
 Units used are defined by G = 9.810
 48 971 5.000 are MAXDT MAXHYD & DTMIN values
 Licensee: Conestoga-Rovers & Associates Limited

```

35 COMMENT
6   line(s) of comment
*****
* Project #73209-00 - First Solar
* Proposed Conditions - Amherstburg 2 Solar Farm
* GV
* November 2010
*****

23 FILE RAINFALL
1   1=READ; 2=WRITE
12  25MD_001.HYT      is Filename
27  HYDROGRAPH DISPLAY
1   is # of Hyeto/Hydrograph chosen
    Depth = .2500000E+02 mm
3   IMPERVIOUS
    1   Option 1=SCS CN/C; 2=Horton; 3=Green-Ampt; 4=Repeat
    .011 Manning "n"
    98.000 SCS Curve No or C
    .100 Ia/S Coefficient
    .518 Initial Abstraction
14  START
    1   1=Zero; 2=Define

4   CATCHMENT
200.000 ID No.6 99999
    8.519 Area in hectares
206.000 Length (PERV) metres
    .156 Gradient (%)
    .000 Per cent Impervious
206.000 Length (IMPERV)
    .000 %Imp. with Zero Dpth
    1   Option 1=SCS CN/C; 2=Horton; 3=Green-Ampt; 4=Repeat
    .029 Manning "n"
    89.000 SCS Curve No or C
    .100 Ia/S Coefficient
    3.102 Initial Abstraction
    1   Option 1=Trianglr; 2=Rectanglr; 3=SWM HYD; 4=Lin. Reserv
        .158 .000 .000 .000 c.m/s
        .360 .000 .360 C perv/imperv/total
15  ADD RUNOFF
    .158 .158 .000 .000 c.m/s
27  HYDROGRAPH DISPLAY
4   is # of Hyeto/Hydrograph chosen
    Volume = .7659152E+03 c.m
4   CATCHMENT
201.000 ID No.6 99999
    55.694 Area in hectares
    978.000 Length (PERV) metres
    .257 Gradient (%)
    .000 Per cent Impervious
    978.000 Length (IMPERV)
  
```



```

.000 %Imp. with Zero Dpth
1 Option 1=SCS CN/C; 2=Horton; 3=Green-Ampt; 4=Repeat
.035 Manning "n"
75.000 SCS Curve No or C
.100 Ia/S Coefficient
8.371 Initial Abstraction
1 Option 1=Trianglr; 2=Rectanglr; 3=SWM HYD; 4=Lin. Reserv
.076 .158 .000 .000 c.m/s
.109 .000 .109 C perv/imperv/total
15 ADD RUNOFF
.076 .174 .000 .000 c.m/s
27 HYDROGRAPH DISPLAY
4 is # of Hyeto/Hydrograph chosen
Volume = .1520294E+04 c.m
20 MANUAL

```

Output File (4.7) 3209_100.PST opened 2010-11-24 9:10
 Units used are defined by G = 9.810
 36 978 5.000 are MAXDT MAXHYD & DTMIN values
 Licensee: Conestoga-Rovers & Associates Limited

```

35 COMMENT
6   line(s) of comment
*****
* Project #73209-00 - First Solar *
* Proposed Conditions - Amherstburg 2 Solar Farm *
* GV *
* November 2010 *
*****
23 FILE RAINFALL
1   1=READ; 2=WRITE
12  ST2CS100.HYT is Filename
27 HYDROGRAPH DISPLAY
1   is # of Hyeto/Hydrograph chosen
    Depth = .8969974E+02 mm
3   IMPERVIOUS
    1 Option 1=SCS CN/C; 2=Horton; 3=Green-Ampt; 4=Repeat
    .011 Manning "n"
    98.000 SCS Curve No or C
    .100 Ia/S Coefficient
    .518 Initial Abstraction
14 START
1   1=Zero; 2=Define

4   CATCHMENT
200.000 ID No.ó 99999
    8.519 Area in hectares
206.000 Length (PERV) metres
    .156 Gradient (%)
    .000 Per cent Impervious
206.000 Length (IMPERV)
    .000 %Imp. with Zero Dpth
    1 Option 1=SCS CN/C; 2=Horton; 3=Green-Ampt; 4=Repeat
    .029 Manning "n"
    89.000 SCS Curve No or C
    .100 Ia/S Coefficient
    3.102 Initial Abstraction
    1 Option 1=Trianglr; 2=Rectanglr; 3=SWM HYD; 4=Lin. Reserv
    2.416 .000 .000 .000 c.m/s
    .707 .000 .707 C perv/imperv/total
15 ADD RUNOFF
    2.416 2.416 .000 .000 c.m/s
27 HYDROGRAPH DISPLAY
4   is # of Hyeto/Hydrograph chosen
    Volume = .5403529E+04 c.m
4   CATCHMENT
201.000 ID No.ó 99999
    55.694 Area in hectares
978.000 Length (PERV) metres
    .257 Gradient (%)
    .000 Per cent Impervious
978.000 Length (IMPERV)
  
```

```

.000      %Imp. with Zero Dpth
      1      Option 1=SCS CN/C; 2=Horton; 3=Green-Ampt; 4=Repeat
.035      Manning "n"
75.000     SCS Curve No or C
.100      Ia/S Coefficient
8.371     Initial Abstraction
      1      Option 1=Trianglr; 2=Rectanglr; 3=SWM HYD; 4=Lin. Reserv
      4.245      2.416      .000      .000 c.m/s
      .444      .000      .444      C perv/imperv/total
15      ADD RUNOFF
      4.245      4.839      .000      .000 c.m/s
27      HYDROGRAPH DISPLAY
4      is # of Hyeto/Hydrograph chosen
      Volume = .2217114E+05 c.m
20      MANUAL

```