

THE CORPORATION OF THE TOWN OF AMHERSTBURG

BY-LAW NO. 2011-15

A by-law to authorize the signing of a Development Agreement.


WHEREAS 1710690 Ontario Inc. has proposed a temporary construction staging area on the property at 265 Concession 3 N to facilitate the establishment of solar energy facilities to be developed on the adjacent lands municipally known as 191 Concession 3 North;

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. 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

TOWN OF AMHERSTBURG
DEVELOPMENT AGREEMENT

BETWEEN:

1710690 ONTARIO INC.

-AND-

THE CORPORATION OF THE TOWN OF AMHERSTBURG

DEVELOPMENT AGREEMENT

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

BETWEEN:

1710690 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;

WHEREAS the lands affected by this Agreement are described in Schedule "A" attached hereto, and are hereinafter referred to as the "Lands";

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

AND WHEREAS the Owner intends to develop a portion of the said Lands for a temporary construction staging area (the "Construction Staging Area") in accordance with the Site Plan attached hereto as Schedule "B", and hereinafter referred to as the "Site Plan", in order to facilitate the establishment of one or more solar energy facilities on adjacent lands;

AND WHEREAS the Corporation passed By-Law 2011-05 (the "Temporary Use By-Law") on January 10, 2011 being a by-law to amend Zoning By-law No. 1999-52, as amended, to permit a temporary Construction Staging Area on the said Lands;

AND WHEREAS the Corporation, as a condition of development of the Construction Staging Area on the said Lands, requires the Owner to enter into a Development Agreement;

AND WHEREAS, in this Agreement the "Owner" includes an individual, an association, a partnership or corporation and, wherever the singular is used therein, 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 the other party 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-8")	- 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"	- Move On Layout Plan (Drawing C201)
SCHEDULE "B-6"	- Typical Fence Details (Drawing C902)
SCHEDULE "B-7"	- Monument and Fence Plan (Drawing C241)
SCHEDULE "B-8"	- Traffic Control and Signage Details (Drawing C801)
SCHEDULE "C" ("C-1 to "C-3")	- Grading and Drainage Drawings
SCHEDULE "C-1"	- Move On Grading and Drainage Plan (Drawing C211)
SCHEDULE "C-2"	- Erosion & Sediment Control Plan (Drawing C231)
SCHEDULE "C-3"	- Typical Erosion and Sediment Control Details (Drawing C903)
SCHEDULE "D"	- Stormwater Management Report

2. Schedule "A" hereto describes the Lands.
3. Schedule "B" hereto shows:
 - a) Layout of Construction Staging Area on the Lands
 - b) Location of temporary fence
 - c) Location of temporary removal of vegetation from hedgerow
 - d) Location of temporary access roads
 - e) Location of Construction Staging Area on the Lands
4. Schedule "C" hereto shows:
 - (a) Grading and drainage details
 - (b) Erosion and sediment control details
5. Schedule "D" hereto shows:
 - (a) Stormwater Management Report
6. Construction and Truck Routes

The haul route during establishment of the Construction Staging Area 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 Construction Staging Area 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 Lands.

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 Lands.

7. Snow Removal

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

8. Driveway Access

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.

9. Stormwater Management

(a) The Owner shall undertake a site grading plan and a stormwater management analysis for the Lands as indicated in Schedule "D" to the satisfaction of the Corporation.

(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 the Lands, to the satisfaction of the Corporation.

(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 use of the construction staging area.

(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 Lands for the Construction Staging Area is complete and approved by the Corporation.

10. 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.

11. 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.

12. Fencing

The Owner agrees to construct a fence on those lands indicated on Schedule "B-5" in accordance with the fence detail forming part of Schedule "B-6".

13. 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.

14. 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 Lands, required for the development of the Construction Staging Area, newly installed by the Owner in connection with such development and not contained within a building, have been installed and completed in a manner satisfactory to the architect or professional engineer.

15. 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 Lands to inspect:

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

16. Stop Work Orders

In the event of any servant, officer or agent of the Corporation determining upon inspection that the development of the Construction Staging Area 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 Construction Staging Area 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.

17. 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 Construction Staging Area 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.

18. Failure to Obey Stop Work Order

In the event that the Owner should fail to obey a stop work order issued under Section 17 hereof, the Owner recognizes the right of the Corporation to apply to the Court for a restraining order.

19. 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 18, 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 forthwith paid by the Owner on demand by the Corporation, failing which such costs may be recovered as municipal taxes with respect to the Lands.

20. Obligations of Owner upon Expiry of Temporary Use By-Law, and Indemnification

(A) Expiry of Temporary Use By-Law

Upon expiration of the Temporary Use By-Law 2011-05 (including any extension by the Corporation of the term of the Temporary Use By-Law), the Owner shall cease using the Lands for the purposes of a temporary construction staging area, and shall remove or cause to be removed all construction materials, debris, concrete washout residue and machinery and equipment of a temporary nature (including, without limitation, trailers and sanitary holding tanks) which are not permitted under the Temporary Use By-Law ("Machinery and Equipment"). The Owner shall repair or cause the repair, forthwith at his expense, of any damage caused to the Lands by the removal of Machinery and Equipment (the "Machinery and Equipment Removal"). Notwithstanding the foregoing, the owner may elect to retain improvements made during construction which are consistent with the agricultural use permitted by Zoning By-law No. 1999-52, as amended.

(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 Machinery and Equipment Removal, 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 or use of the Lands for the Construction Staging Area, 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. The Corporation may, in its sole discretion, undertake, in whole or in part, the Machinery and Equipment Renewal and incur the costs associated therewith, and shall collect those costs from the Owner, and/or recover them as municipal taxes with respect to the Lands.

21. Change or Amendment to this Agreement

In the event that the Owner wishes to change at any time any of the building structures or facilities described in the plans annexed or referred to herein, or to otherwise amend this Agreement, it shall make an application to the Council of the Corporation for approval of such change or amendment and shall not proceed to implement such change or amendment until approval is given by such Council, or in default by the Ontario Municipal Board under the appeal procedure set out in Section 41(12) of the *Planning Act*, R.S.O. 1990.

22. 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.

23. 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.

24. 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.

25. 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 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 of the said works at the end of such one year period

26. 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.

27. 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:

1710690 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

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 27 by notice to the other parties given in the manner provided by this Section 27.

28. Counterparts

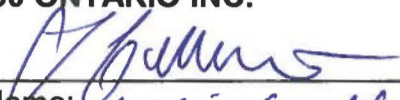
This Agreement may be signed in counterparts, including counterparts by facsimile, each of which shall be deemed an original and all of which when taken together shall constitute one instrument.


29. 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.

IN WITNESS WHEREOF the parties have executed this Agreement.

1710690 ONTARIO INC.

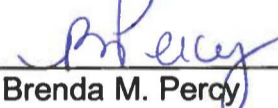
Per: 
Name: LORIS COLANINNO
Title: PRESIDENT

Per: 
Name:
Title:

I/We have the authority to bind the Corporation

THE CORPORATION OF THE TOWN OF AMHERSBURG

Per: 
Wayne Hurst
Mayor

Per: 
Brenda M. Percy
Clerk

We have the authority to bind the Corporation

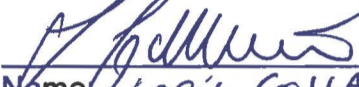
SCHEDULE "A"


Legal Description of the Lands

PIN 01543-0173 (LT)

PT NW1/4 LT 2 CON 3 ANDERDON AS IN R1406153, TOWN OF AMHERSTBURG, COUNTY OF ESSEX.

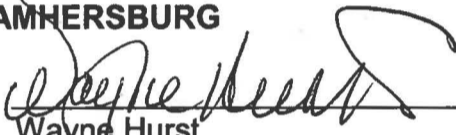
1710690 ONTARIO INC.

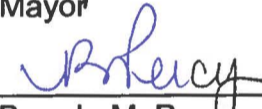
Per: 
Name: LORI'S COLLAVINO
Title: PRESIDENT

Per: 
Name:
Title:

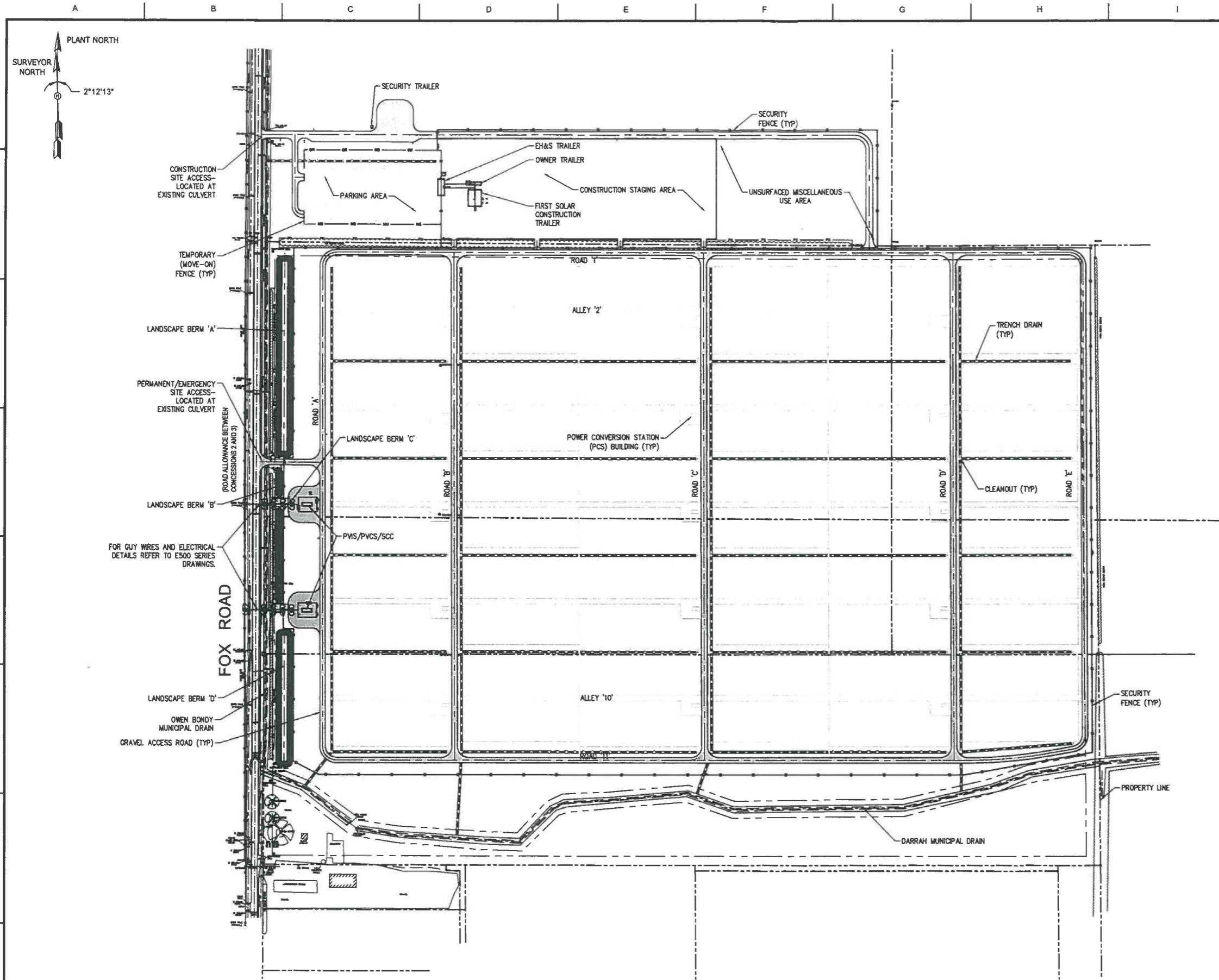
I/We have the authority to bind the Corporation

THE CORPORATION OF THE TOWN OF AMHERSBURG

Per: 
Wayne Hurst
Mayor

Per: 
Brenda M. Percy
Clerk

We have the authority to bind the Corporation



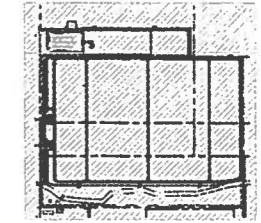
OVERALL SITE PLAN
SCALE: 1:2000

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

SCHEDULE "B-1" TO BY-LAW 2011-15

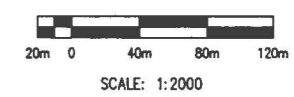
1710690 ONTARIO INC.
 Per: *[Signature]*
 Name: **LEONIS COLLAVINO**
 Title: **PRESIDENT**

Per: _____
 Name: _____
 Title: _____
TOWN OF AMHERSTBURG
[Signature]
 MAYOR WAYNE HURST
[Signature]
 CLERK- BRENDA M. PERCY



KEY PLAN
SCALE: NTS

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.
 5115 BLACKWELL SIDEROAD
 SARNAIA, ONTARIO, N7Y 7H3

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

CONESTOGA-ROVERS & ASSOCIATES



PROJECT: AMHERSTBURG 2 SOLAR FARM					
TITLE: OVERALL SITE PLAN					
PRIN. ENGR.	PRIN. ENGR.	DR. BY	CHK. BY	SCALE:	REV.
KEITH STUMERS	MARWAN BROUWEN	FWD	AS	AS SHOWN	
PRIN. DIRECTOR	PROJECT CODE	DRAWING No.			
KEITH STUMERS					
FIRST SOLAR JOB No.	AMH2	C101			1
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\05043-0100-22 Amherstburg 2 (Hilba)\Drawings\Acive Drawing Files\AMH2-C101.dwg is 105794 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, UOJ.
- MINIMUM FREQUENCY OF TESTING SHALL BE AS PROVIDED BELOW:

TRENCHES:	1/500 LFT [150 LM] PER LIFT
FOUNDATION BACKFILL:	1/100 LFT [30 LM] PER LIFT
STRUCTURAL FILL IN ARRAY:	1/10,000 SFT [3,000 SM] PER LIFT
ROAD SUBGRADE:	1/200 LFT [60 LM] PER LIFT
ROAD SUB-BASE & BASE:	1/200 LFT [60 LM] PER LIFT
- 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, UOJ.
- 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:

SEIVE SIZE	% PASSING
106mm	100
25.5mm	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:

SEIVE 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 2011-15

1710690 ONTARIO INC
 Per:
 Name: LORI'S COLLAVIDA
 Title: PRESIDENT

Per:
 Name: WAYNE HURST
 Title: MAYOR

 CLERK- BRENDA M. PERCY

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

FIRST SOLAR DEVELOPMENT (CANADA) INC.
 5115 BLACKWELL SIDEROAD
 SARASOTA, ONTARIO, M7T 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 STYMERS	MARK BROOKSTEIN	MB	HK	AS NOTED
PROJ. DIRECTOR	PROJECT CODE	DRAWING No.	REV.	
KEITH STYMERS	AMH2	C111	1	
FIRST SOLAR JOB No.				
5043-0100-22				

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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
BMK	BENCHMARK
BOT	BOTTOM
BW	BOTTOM OF EXISTING WALL
CL	CENTRE LINE
C	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
DG	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
PH	FIRE HYDRANT
FL	FLOW LINE
FSE/FS	FIRST SOLAR ELECTRIC FIRST SOLAR
FT	FOOT/FEET
GA	GAGE / GUAGE
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	LINE 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
PL	PROPERTY LINE
PCC	PRECAST CONCRETE
PCF	POUND PER CUBIC FOOT
PCS	POWER CONVERSION STARTER
PH	PHASE
POC	POINT OF CONNECTION
PVC	POLYVINYL CHLORIDE
PVCS	PHOTOVOLTAIC COMBINING SWITCHGEAR
PVMS	PHOTOVOLTAIC INTERCONNECTION SWITCHGEAR
R	RADIUS
RC	REINFORCED CONCRETE
RCS	RIGID GALVANIZED STEEL
R/W	RIGHT OF WAY
SD	STORM DRAIN
SL	STREET LIGHT
SPEC	SPECIFICATION
SP4000	STANDARD PROCTOR MAXIMUM DRY DENSITY
SQ	SQUARE
SS	SANITARY SEWER
SST	STAINLESS STEEL
STA	STATION
STD	STANDARD
STL	STEEL
SW	SWITCH
T	TELEPHONE
TB	TERMINAL BLOCK
TEMP	TEMPORARY
THK	THICK
TH	TOP OF WALL
TYP	TYPICAL
VF	VENUE IN FIELD
VERT	VERTICAL
W	WATT(S)
W/	WITH
WP	WEATHERPROOF
XFR	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 2011-15

1710690 ONTARIO INC.
Per:
Name: LORI COLLAVINO
Title: PRESIDENT

Per: _____
Name: _____
Title: _____

TOWN OF AMHERSTBURG

MAYOR WAYNE HURST

CLERK- BRENDA M. PERCY

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

FIRST SOLAR DEVELOPMENT (CANADA) INC.
5115 BLACKWELL SIDEROAD
BARROW, ONTARIO, N0T 2J0

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

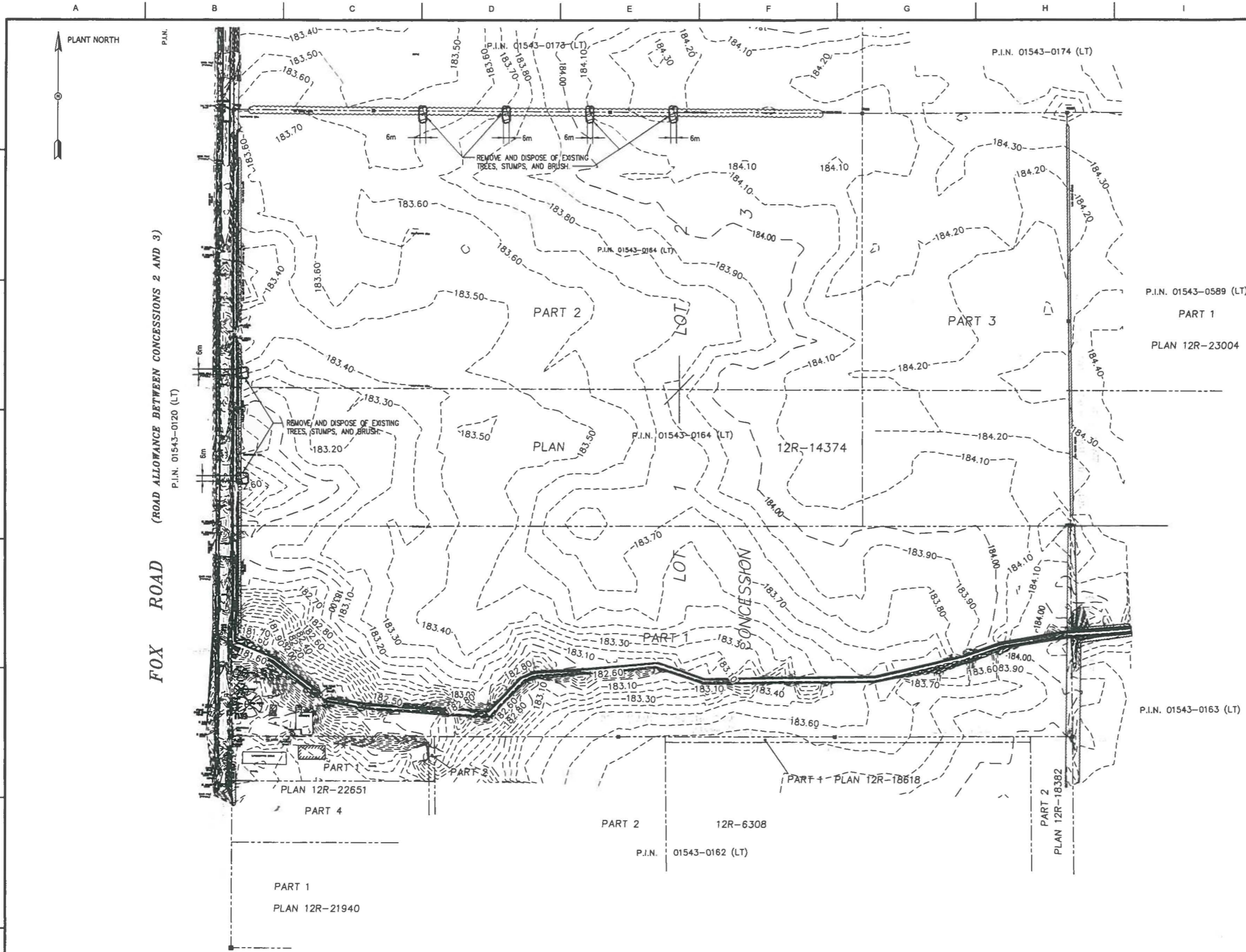
CONESTOGA-ROVERS & ASSOCIATES
LICENSED PROFESSIONAL ENGINEER
D. A. SINGARAJA
PROVINCE OF ONTARIO

PROJECT: AMHERSTBURG 2 SOLAR FARM			
TITLE: ABBREVIATIONS AND LEGEND - CIVIL			
PROJ. NO.	PROJ. ENGR.	DR. BY	SCALE:
5043-0100-22	AMH2	C112	1

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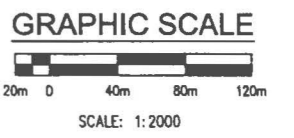


- NOTES:**
1. DUE TO THE PRESENCE OF EASTERN FOXSNAKE IN THE VICINITY OF THE PROJECT, THE SHOWN DEMOLITION OF VEGETATION MAY ONLY TAKE PLACE BETWEEN DECEMBER 1 AND MARCH 30, OR BETWEEN JUNE 1 AND SEPTEMBER 30. EACH AREA OF VEGETATION DEMOLITION MAY BE 6 METRES WIDE, MAXIMUM.
 2. SEE NOTE 83 ON DWG. C111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

SCHEDULE "B-4" TO BY-LAW 2011-15

1710690 ONTARIO INC.
 Per: *[Signature]*
 Name: **CLORIS COLLAVINO**
 Title: **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	NB
0	12-30-2010	IFC, PENDING SPA APPROVAL	MH	HK	CE

First Solar
 FIRST SOLAR DEVELOPMENT (CANADA) INC.
 5115 BLACKWELL RIDGE ROAD
 SARASOTA, ONTARIO, M7Y 2Y9

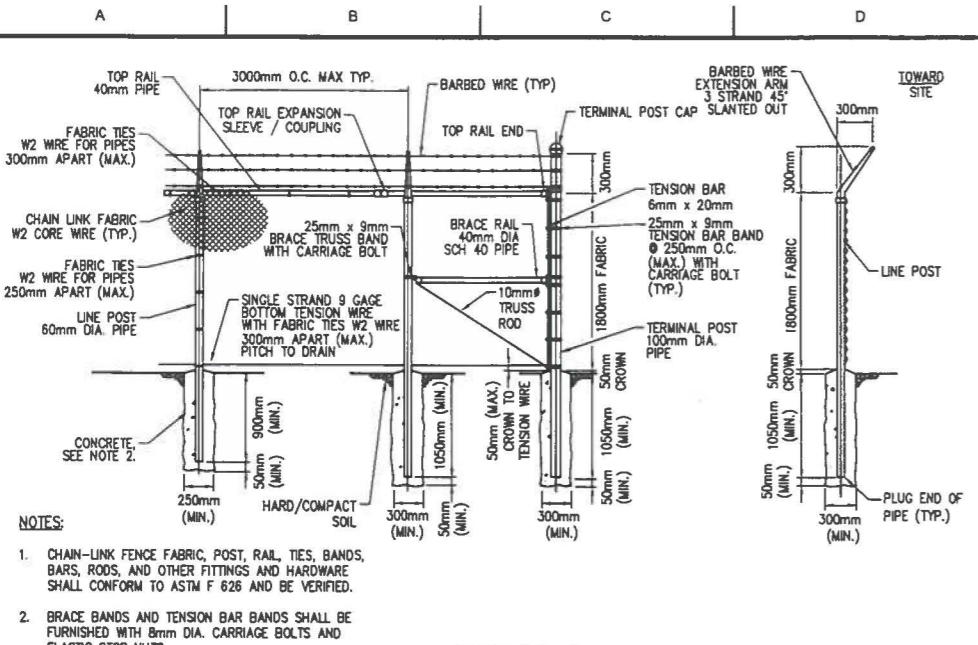
AMHERSTBURG 2 SOLAR FARM
 191 CONCESSION 3 NORTH
 AMHERSTBURG, ONTARIO N9V 2Y9

CONESTOGA-ROVERS & ASSOCIATES

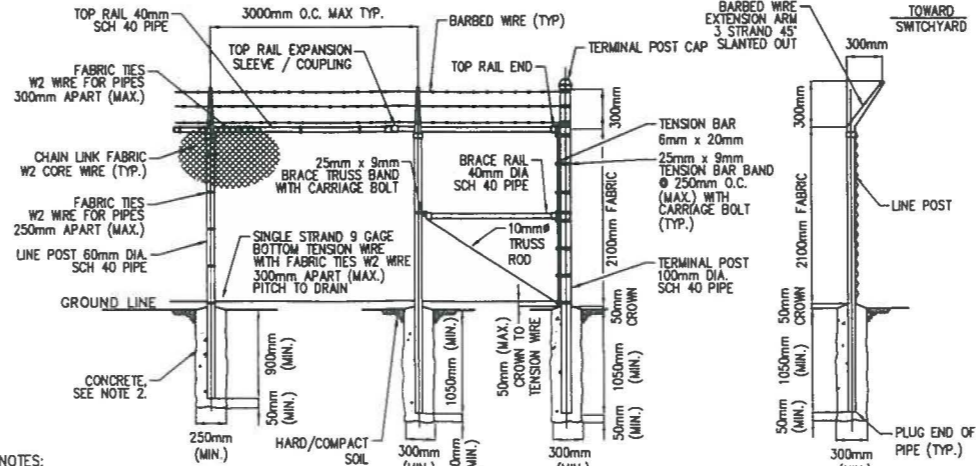
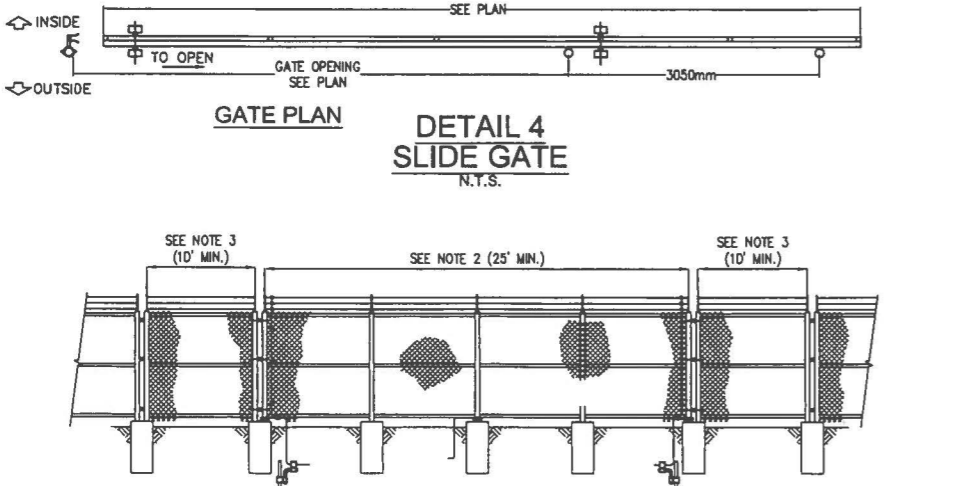
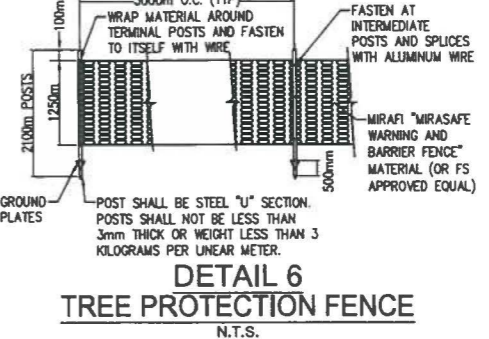
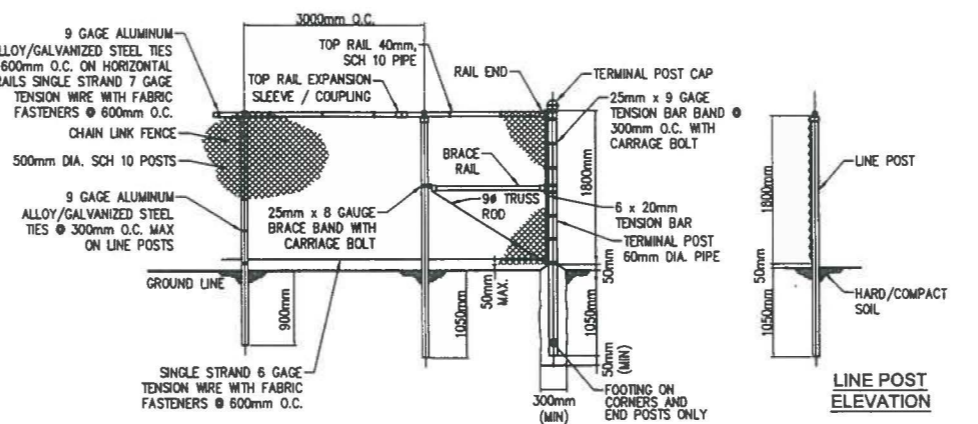
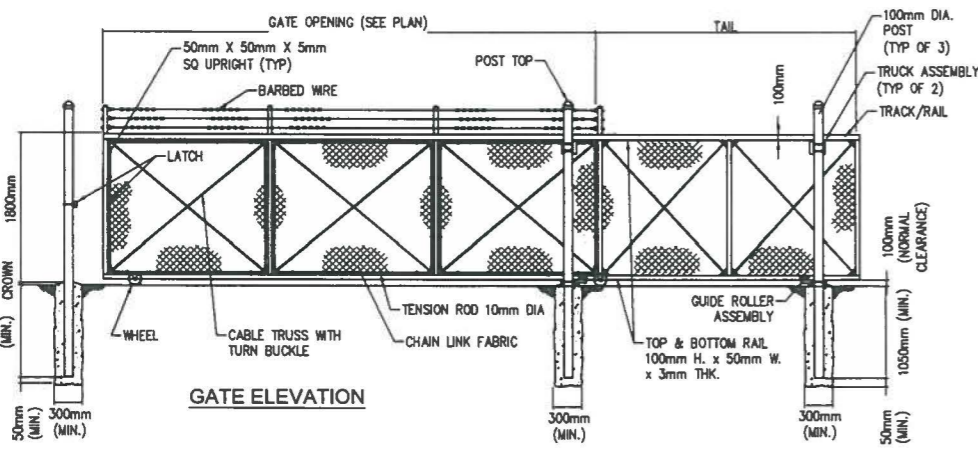
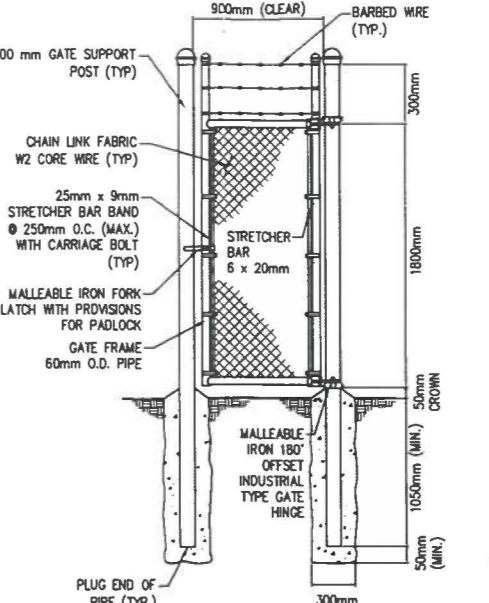
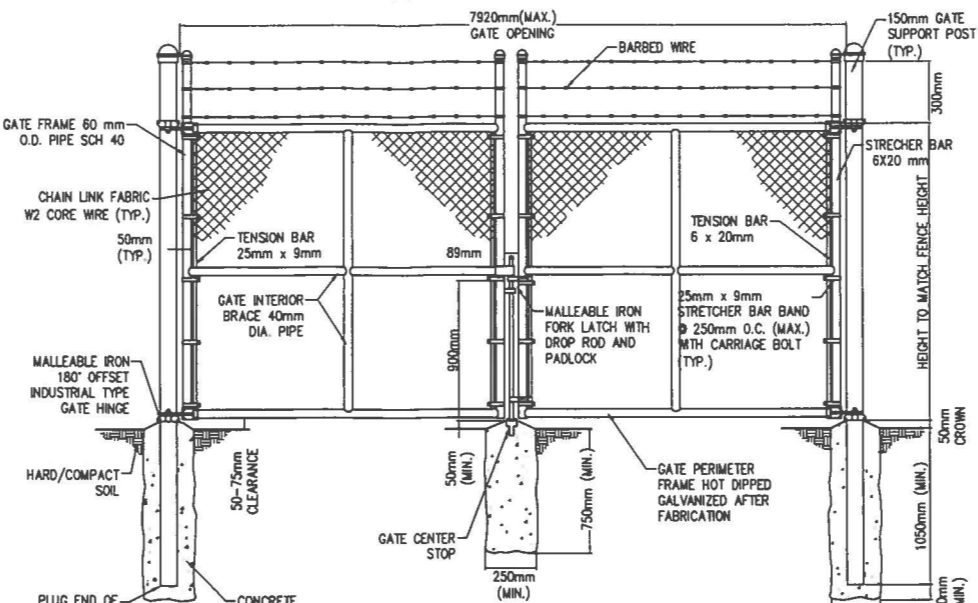
PROJECT:		TITLE:	
AMHERSTBURG 2 SOLAR FARM		DEMOLITION PLAN	
PROJ. MGR.	PROJ. ENGR.	DR. BY	CHK. BY
KETH SYMERS	MATHAN BROOCHSTEM	MH	EG
PROJ. DIRECTOR	PROJECT CODE	DRAWING No.	REV.
KETH SYMERS	AMH2	C131	1
PROJ. CODE	PROJECT CODE	DRAWING No.	REV.
5043-0100-22	AMH2	C131	1

DEMOLITION PLAN
 SCALE: 1:2000

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- NOTES:**
- CHAIN-LINK FENCE FABRIC, POST, RAIL, TIES, BANDS, BARS, RODS, AND OTHER FITTINGS AND HARDWARE SHALL CONFORM TO ASTM F 626 AND BE VERIFIED.
 - BRACE BANDS AND TENSION BAR BANDS SHALL BE FURNISHED WITH 8mm DIA. CARRIAGE BOLTS AND ELASTIC STOP NUTS.



- NOTES:**
- CHAIN-LINK FENCE FABRIC, POST, RAIL, TIES, BANDS, BARS, RODS, AND OTHER FITTINGS AND HARDWARE SHALL CONFORM TO ASTM F 626 AND BE VERIFIED.
 - BRACE BANDS AND TENSION BAR BANDS SHALL BE FURNISHED WITH 8mm DIA. CARRIAGE BOLTS AND ELASTIC STOP NUTS.

DETAIL 7 ISOLATION FENCE DETAIL

- NOTES:**
- SEE DETAIL G10, DWG E902 FOR GROUNDING
 - THE DISTANCE SHALL BE (1/2) THE HEIGHT OF TRANSMISSION LINE ABOVE GRADE OR 25 FEET MINIMUM.
 - FENCES EXTENDING OUTSIDE THE GROUND GRID SHALL HAVE A MINIMUM OF TEN-FOOT FENCE SECTION INSULATED FROM THE GROUNDED FENCE AND FROM FENCE EXTENSION.

SCHEDULE "B-6" TO BY-LAW 2011-15

1710690 ONTARIO INC.
Per: *[Signature]*
Name: *LOUIS COLAVINO*
Title: *PRESIDENT*

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

- NOTES:**
- FOR NOTES, SEE DWG C111.
 - FOR CONCRETE REQUIREMENT, SEE CONCRETE NOTES ON DWG S102.
 - ALL STEEL FENCE ELEMENTS SHALL BE GALVANIZED AT A RATE OF 1.2 OZ PER SQUARE FOOT.

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

FIRST SOLAR DEVELOPMENT (CANADA) INC.
 8115 BLACKWELL SIDEROAD
 SARMA, ONTARIO, N7Y 7Y5

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

PROJECT: AMHERSTBURG 2 SOLAR FARM			
TITLE: TYPICAL FENCE DETAILS			
PROJ. MGR. KEITH STYMERS	PROJ. ENGR. BARBARA BRODSTEIN	DR. BY D.A. SINGARAJA	SCALE: AS SHOWN
PROJ. DIRECTOR KEITH STYMERS	PROJECT CODE	DRAWING NO.	REV.
FIRST SOLAR JOB NO. 5043-01DD-22	AMH2	C902	1

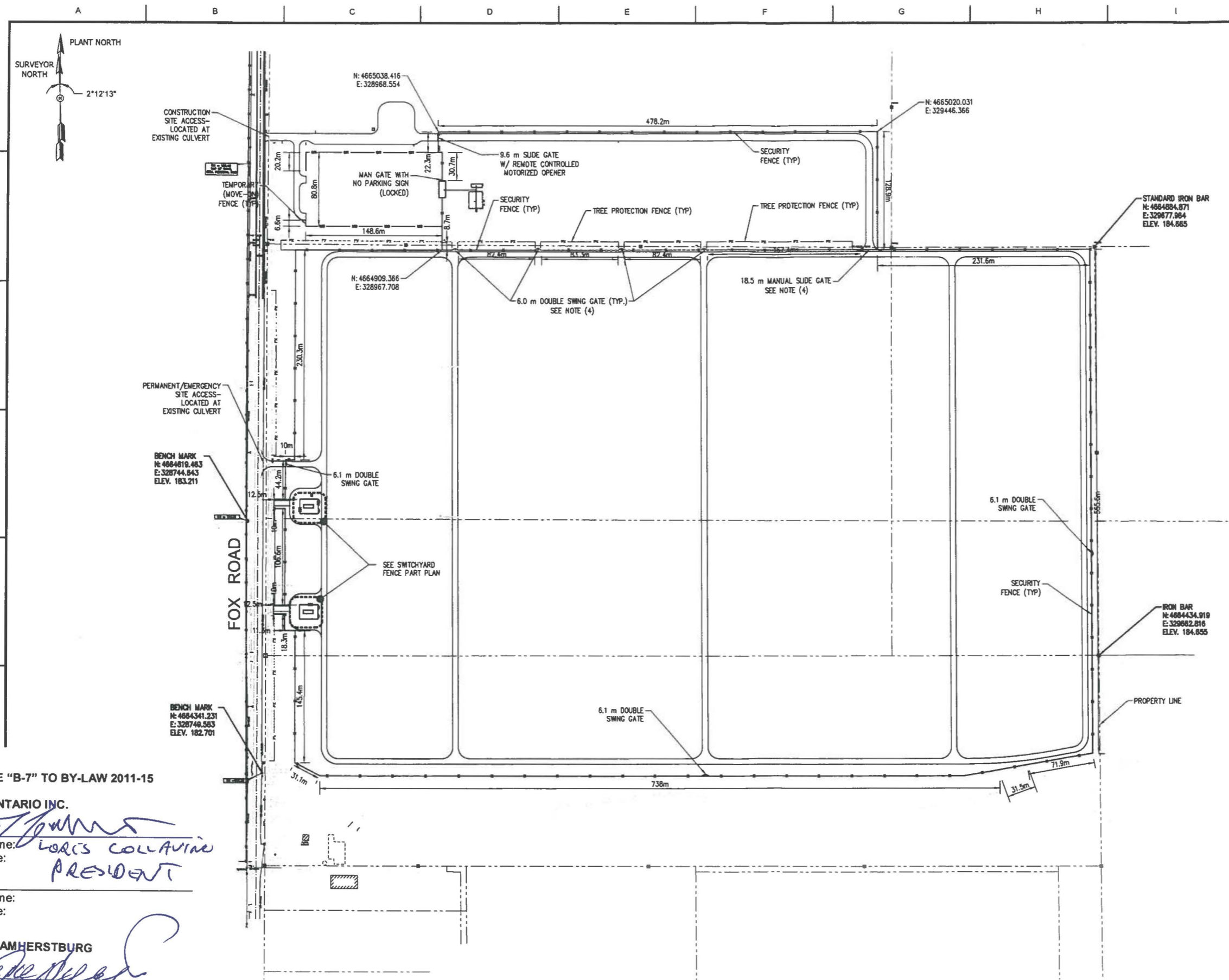


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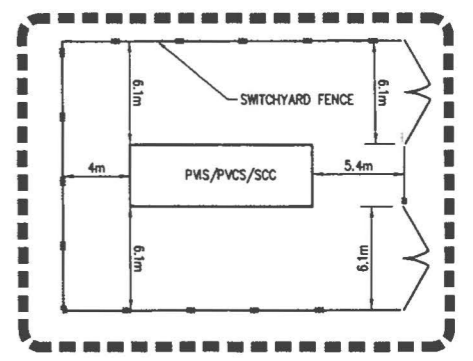
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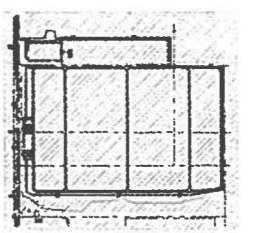
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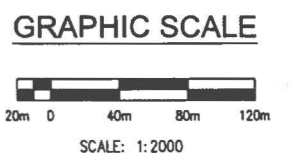
- NOTES:**
- FOR GENERAL NOTES, SEE DWG C111.
 - FOR LEGEND AND ABBREVIATIONS, SEE DWG C112.
 - FOR ALL FENCE AND GATE DETAILS, SEE DWG. 902.
 - GATE OR OPENING TO BE FENCED AFTER CONSTRUCTION AND PRIOR TO REMOVING LAYDOWN AREA.



SWITCHYARD FENCE PART PLAN
SCALE: 1:200



KEY PLAN



SCALE: 1:2000

SCHEDULE "B-7" TO BY-LAW 2011-15

1710690 ONTARIO INC.

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

Per: _____
Name: _____
Title: _____

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

MONUMENT & FENCE PLAN
SCALE: 1:2000

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.
5115 BLACKWELL SIDEROAD
SARNA, ONTARIO, N7T 7H3

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

PROJECT: AMHERSTBURG 2 SOLAR FARM
TITLE: MONUMENT AND FENCE PLAN

PRJL DWRG: KEVIN STAMERS	PRJL DWRG: NATHAN BROCKSTON	DR. BY: FND	CHK. BY: AS SHOWN	SCALE: AS SHOWN
PRJL DIRECTOR: KEVIN STAMERS	PROJECT CODE: AMH2	DRAWING NO.:	C241	REV.:
FIRST SOLAR JOB NO.:	5043-01D0-22		0	

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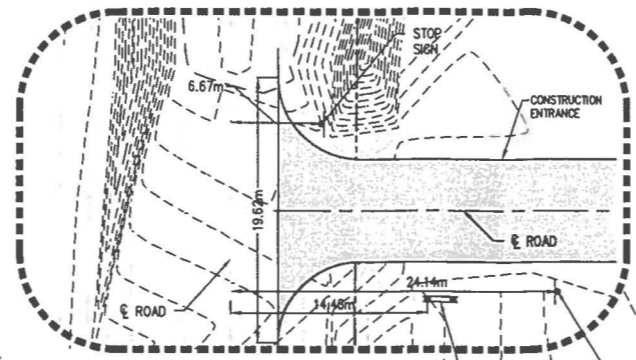
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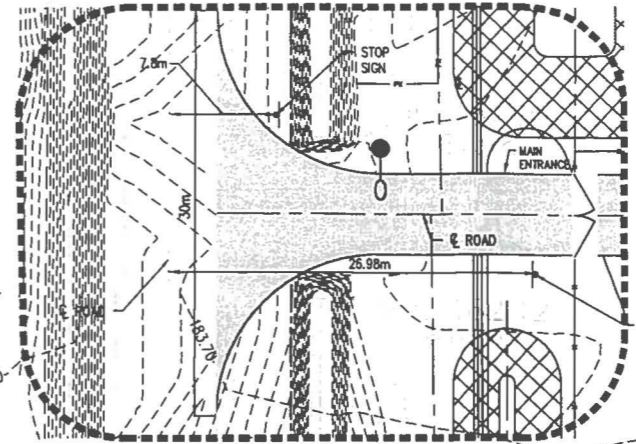
PLANT NORTH
(SEE NOTE 4, DRAWING C301)

TRUCK
ENTRANCE
TC-31L &
TC-31H

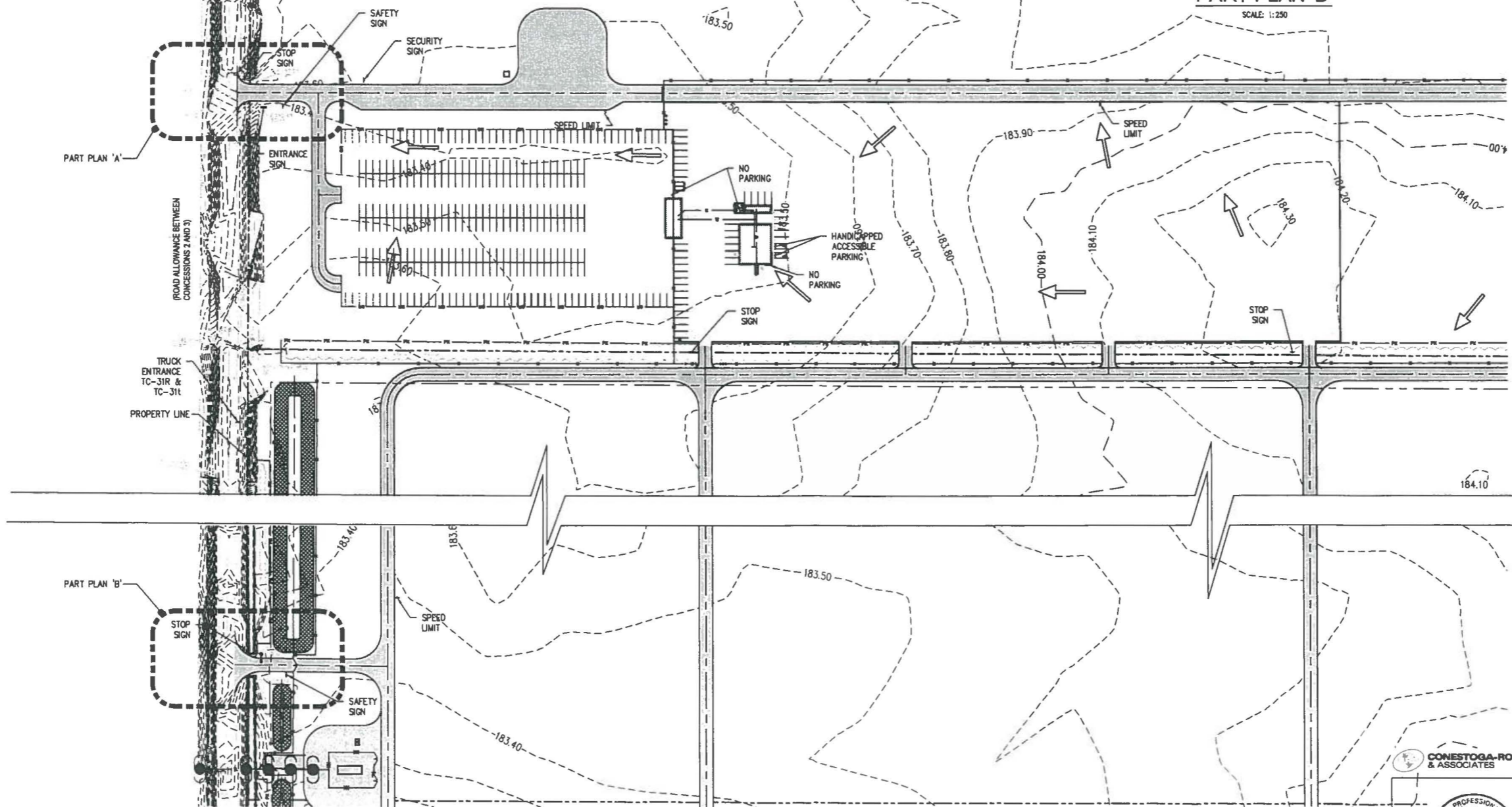
FOX ROAD



PART PLAN 'A'
SCALE: 1:250



PART PLAN 'B'
SCALE: 1:250



TRAFFIC CONTROL AND SIGNAGE PLAN

SCALE: 1:1000

- NOTES:
- FOR GENERAL NOTES, SEE DWG C111.
 - FOR LEGEND AND ABBREVIATIONS, SEE DWG 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 C301.
 - 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-8" TO BY-LAW 2011-15

1710690 ONTARIO INC.

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

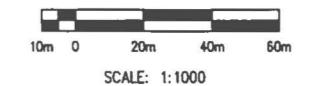
Per: _____
Name: _____
Title: _____

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 & MNR COMMENTS, RE-ISSUED FOR SPA	FWD	CE	NB
0	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: TRAFFIC CONTROL AND SIGNAGE PLAN

PROJ. MGR.	PROJ. ENGR.	DR. BY	CHK. BY	SCALE
KETH STAMMERS	NATHAN BROCHSTEIN	FWD	-	AS NOTED
PROJ. CODE	DRAWING No.	REV.		
FIRST SOLAR JOB No.	AMH2 C801	1		
5043-0100-22				



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A B C D E F G H I J K

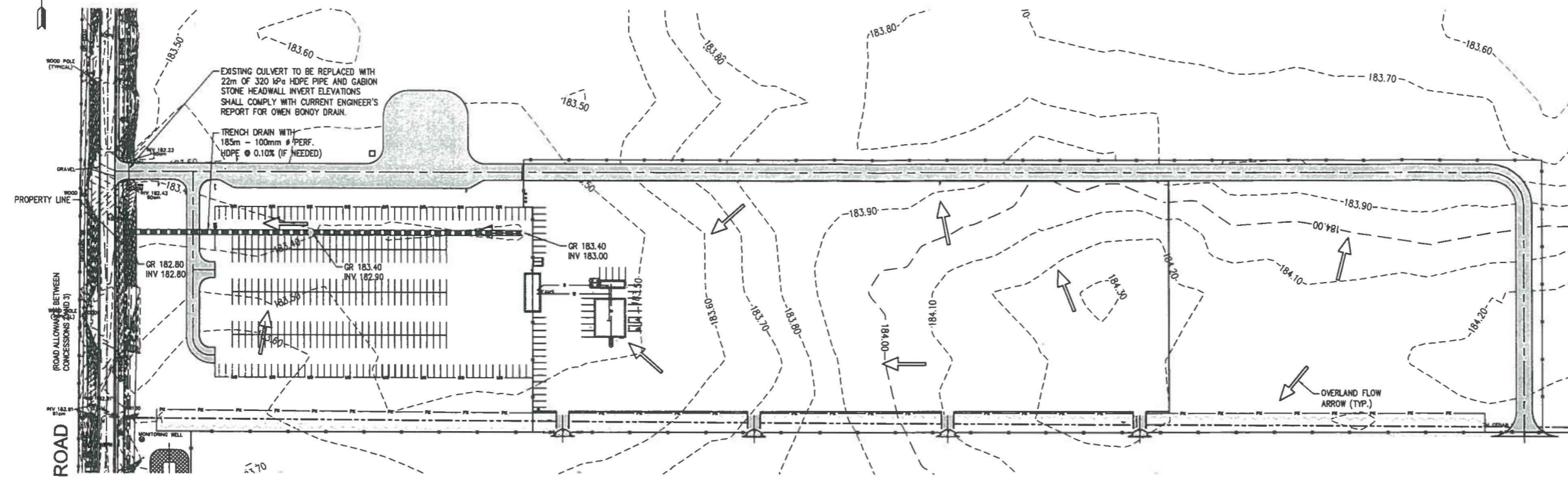
PLANT NORTH
(SEE NOTE 4, DRAWING C301)

- NOTES:
1. FOR GENERAL NOTES, SEE DWG C111.
 2. FOR LEGEND AND ABBREVIATIONS, SEE DWG C112.
 3. MAINTAIN EXISTING GRADES, UON.
 4. WATER QUALITY EROSION CONTROL MEASURES TO BE INSTALLED PRIOR TO ANY OTHER SITE DISTURBANCE. SEE DWG. C231.
 5. TOWN OF AMHERSTBURG DRAINAGE SUPERINTENDANT SHALL BE NOTIFIED IN WRITING AT LEAST ONE WEEK PRIOR TO CULVERT REPLACEMENT OR PLACEMENT OF CONDUIT OUTLET PROTECTION.

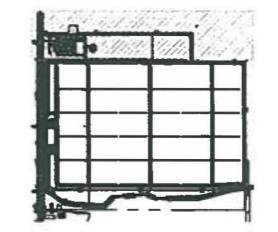
SCHEDULE "C-1" TO BY-LAW 2011-15

1710690 ONTARIO INC.
Per: *[Signature]*
Name: **CHARIS COLLARD**
Title: **PRESIDENT**
Per: _____
Name: _____
Title: _____

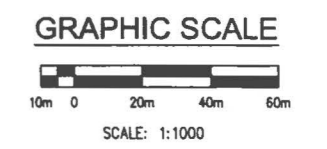
TOWN OF AMHERSTBURG
[Signature]
MAYOR WAYNE HURST
[Signature]
CLERK BRENDIA M. PERCY



MOVE ON - GRADING AND DRAINAGE PLAN
SCALE: 1:1000



KEY PLAN
SCALE: NTS



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

First Solar
FIRST SOLAR DEVELOPMENT
1911 BLACKWELL SIDEROAD
SARASOTA, ONTARIO, N7Y 7Y3

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

CONESTOGA-ROVERS & ASSOCIATES



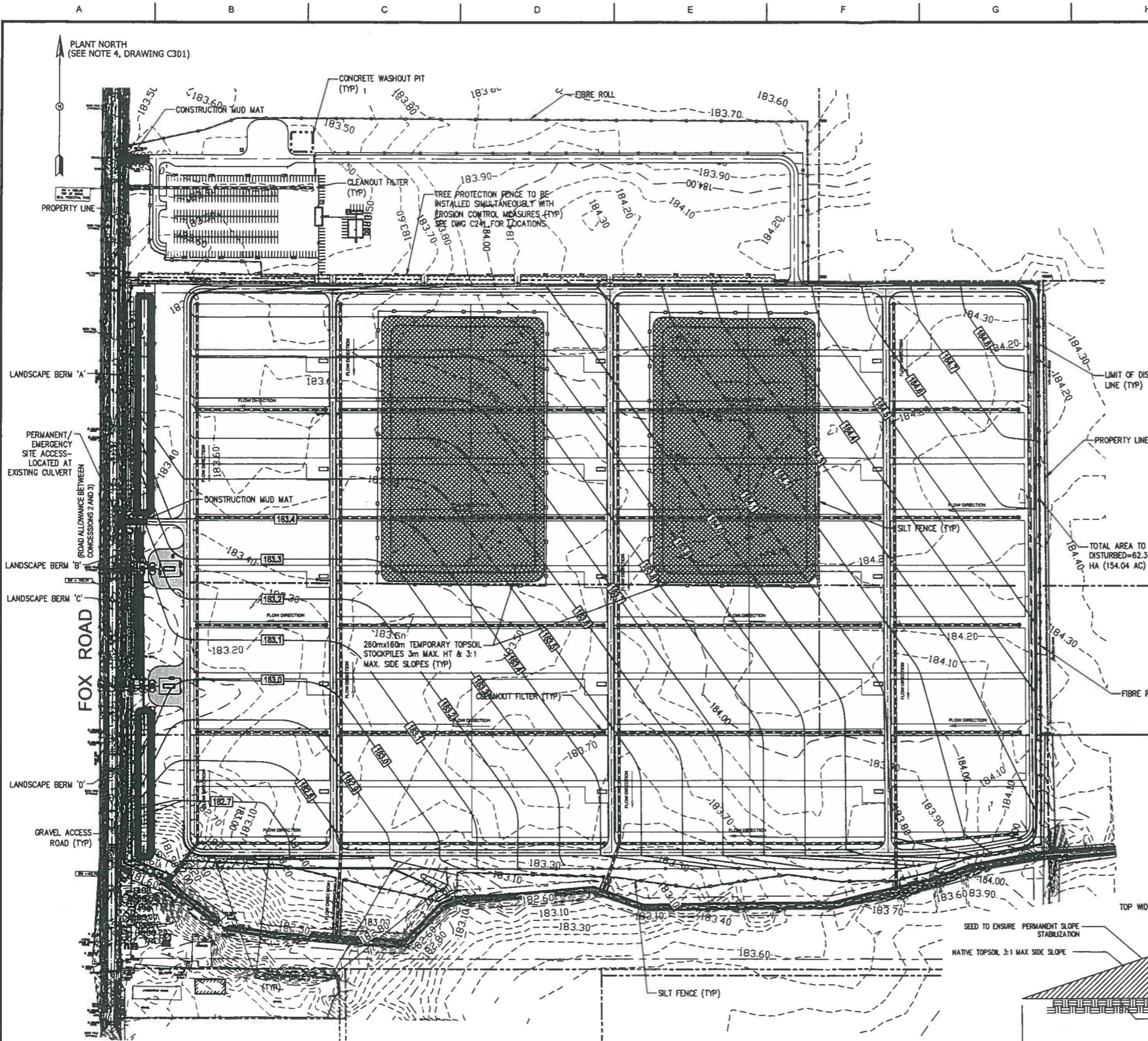
PROJECT: AMHERSTBURG 2 SOLAR FARM		TITLE: MOVE ON GRADING AND DRAINAGE PLAN	
PROJ. MGR. KEVIN SIMMONS	PROJ. ENGR. NARAH BROOCHSTEIN	DR. BY FWD	SCALE AS NOTED
PROJ. DIRECTOR KEVIN SIMMONS	PROJECT CODE FIRST SOLAR JOB No. 5043-0100-22	DRAWING No. AMH2 C211	REV. 1

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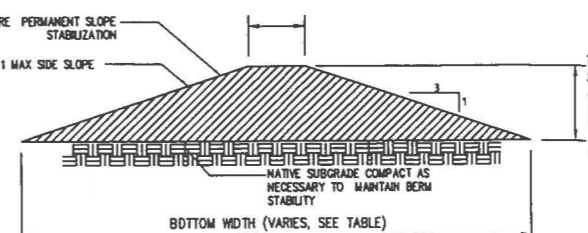
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EROSION & SEDIMENT CONTROL PLAN

SCALE: 1:2000



BERM	TOP WIDTH (m)	BOTTOM WIDTH (m)	HEIGHT (m)	LENGTH (m)	SIDE SLOPE
A	8	14	2	225	3:1
B	2	8	1	29	3:1
C	2	8	1	104	3:1
D	2	14	2	190	3:1

LANDSCAPE BERM DETAIL

SCALE: NTS

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 CUTS 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.

TOPSOIL STRIPPING & STOCKPILING NOTES:

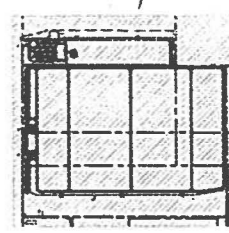
- INSTALL/ENHANCE SOIL EROSION AND SEDIMENT CONTROL DEVICES/MEASURES.
- STRIP TOPSOIL TO ITS FULL DEPTH (APPROX. 300mm).
- STOCKPILE TOPSOIL IN PERMANENT BERMS AND TEMPORARY STOCKPILES.
- GRADE/EXCAVATE ROADWAY 'BOX OUT'
- PLACE GRAVEL IN ROADWAY
- PERFORM ROUGH GRADING (TO WITHIN 300mm± OF FINAL GRADE).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

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.

SCHEDULE "C-2" TO BY-LAW 2011-15

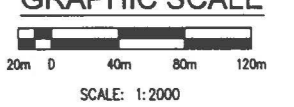
1710690 ONTARIO INC.
 Per: *[Signature]*
 Name: **WOLIS COLLARD**
 Title: **PRESIDENT**
 Per: *[Signature]*
 Name: **WAYNE HURST**
 Title: **MAYOR**
 Clerk: **BRENDA M. PERCY**



KEY PLAN

SCALE: NTS

GRAPHIC SCALE



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

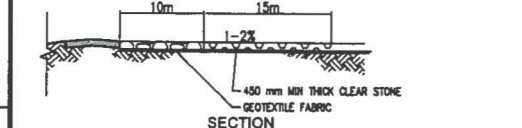
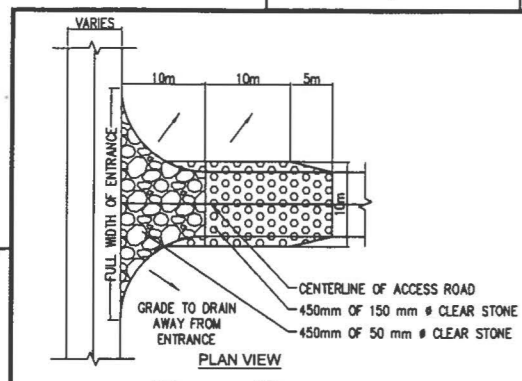
FIRST SOLAR DEVELOPMENT (CANADA) INC.
 5115 BLADWELL SIDEROAD
 SARNA, ONTARIO, N7T 7H3

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

PROJ. DIR.	PROJ. ENG.	DR. BY	CHK. BY	SCALE
KEITH SYMMERS	KEITH SYMMERS	D.A. SINGARAJA	KEITH SYMMERS	AS SHOWN
PROJ. CODE	DRAWING No.	REV.		
FIRST SOLAR JOB No.	AMH2 C231	1		
5043-0100-22				

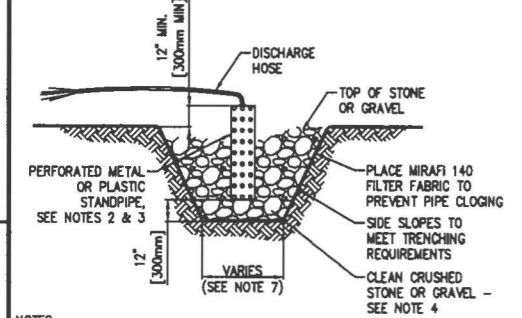
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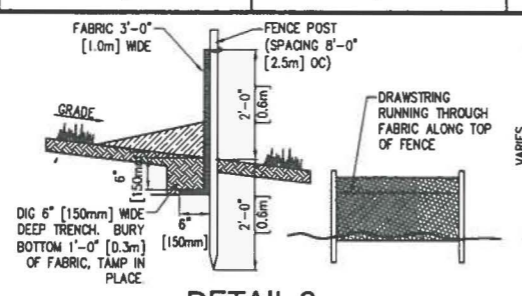
NOTES:
 1. ADDITIONAL MEASURES SUCH AS WHEEL WASHING SYSTEM MAY BE REQUIRED ALONG WITH A MUD MAT TO ENSURE SEDIMENT FROM CONSTRUCTION SITE WILL NOT BE TRANSPORTED OFF THE SITE VIA EXISTING CONSTRUCTION VEHICLES.
 2. FOR CONSTRUCTION SITES NOT CAPABLE OF CONSTRUCTING A MUD MAT AT THE VEHICLE ACCESS POINT,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

**DETAIL 1
CONSTRUCTION MUD MAT**
N.T.S.

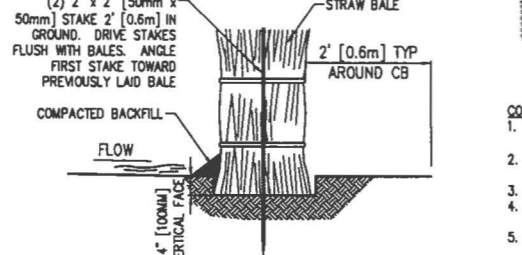


NOTES:
 1. OVERALL SUMP PIT DIMENSIONS SHALL BE COMPATIBLE WITH ANTICIPATED SEEPAGE RATES AND PUMP SIZE TO BE USED.
 2. THE STANDPIPE DIAMETER AND NUMBER OF PERFORATIONS SHALL BE COMPATIBLE WITH THE PUMP SIZE BEING USED.
 3. PERFORATIONS IN THE STANDPIPE SHALL BE EITHER CIRCULAR OR SLOTS, PERFORATION SIZE SHALL NOT EXCEED 0.5" (12mm) IN DIAMETER.
 4. CRUSHED STONE OR GRAVEL SHALL BE NO SMALLER THAN 1/2" (12mm) NOR LARGER THAN 2" (50mm). CRUSHED STONE SHALL EXTEND TO A MINIMUM OF 12" (300mm) BELOW THE BOTTOM OF THE STANDPIPE.
 5. IF EXCESSIVE MOVEMENT OF FINE PARTICLES FROM THE SURROUNDING EXISTING SOILS IS ANTICIPATED, A PROPERLY DESIGNED GEOTEXTILE SHALL BE PLACED BETWEEN THE EXISTING SOILS AND THE CRUSHED STONE OR GRAVEL BACKFILL.
 6. THE STANDPIPE SHALL EXTEND A MINIMUM OF 12" (300mm) ABOVE THE SURROUNDING GROUND.
 7. WIDTH OF TRENCH VARIES DEPENDING ON THE USE (I.E. ELECTRICITY, STORM DRAINAGE)

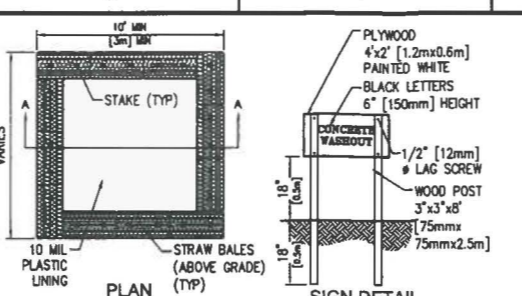
**DETAIL 6
TRENCH DEWATERING CONCEPT**
N.T.S.



**DETAIL 2
SILT FENCE**
N.T.S.



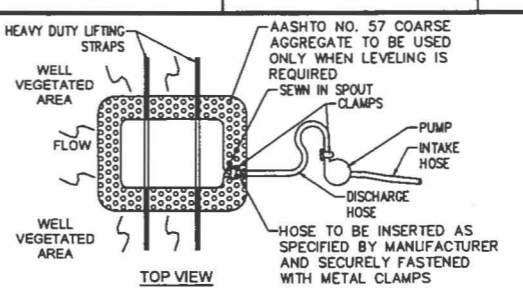
**DETAIL 3
STRAW BALE**
N.T.S.



**DETAIL 4
CONCRETE WASHOUT**
N.T.S.

CONCRETE WASHOUT NOTES:
 1. CONCRETE WASHOUT AREA SHALL BE CONSTRUCTED PRIOR TO ANY CONCRETE PLACEMENT ON-SITE.
 2. THE CONCRETE WASHOUT SIGN SHALL BE ERECTED WITHIN 30 FEET (10m) OF THE TEMPORARY CONCRETE WASHOUT FACILITY.
 3. ACTUAL LAYOUT DETERMINED IN FIELD.
 4. THE CONCRETE WASHOUT AREA SHALL BE REPAIRED AND ENLARGED OR CLEANED OUT AS NECESSARY TO MAINTAIN CAPACITY FOR WASTED CONCRETE. WHEN CONCRETE WASHOUT AREA IS REMOVED, THE DISTURBED AREA SHALL BE SEEDED AND MULCHED OR OTHERWISE STABILIZED IN A MANNER ACCEPTED BY THE LOCAL GOVERNING ENTITY.

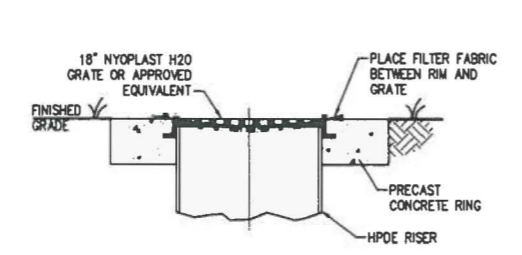
**DETAIL 4
CONCRETE WASHOUT**
N.T.S.



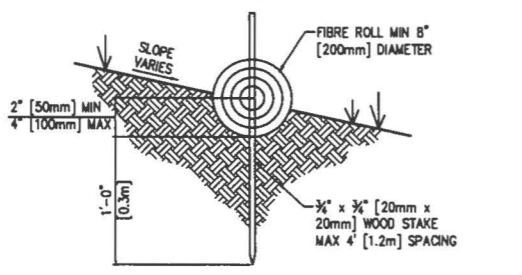
**DETAIL 5
PUMPED WATER FILTER BAG**
N.T.S.

NOTES:
 1. LOCATE BAG IN LEVEL AREAS (LESS THAN 5% GRADE). WHEN LEVEL AREAS ARE NOT AVAILABLE, PLACE AASHTO NO. 57 COARSE AGGREGATE TO LEVEL THE BAG.
 2. FILTER BAGS SHALL BE MADE FROM NO-WOVEN GEOTEXTILE MATERIAL SEWN WITH HIGH STRENGTH, DOUBLE STITCHED 4" TYPE SEAMS. THEY SHALL BE CAPABLE OF TRAPPING PARTICLES LARGER THAN 150 MICRONS.
 3. LOCATE BAG IN A WELL VEGETATED AREA. DISCHARGE ONTO A STABLE, EROSION RESISTANT AREA. WHEN VEGETATED AREA IS NOT AVAILABLE, PROVIDE A GEOTEXTILE (CLASS 4, TYPE A) LINED FLOW PATH TO A STABLE EROSION RESISTANT RECEIVING WATER COURSE OR A WELL VEGETATED AREA.
 4. LOCATE BAG IN AN AREA ACCESSIBLE BY EQUIPMENT FOR MAINTENANCE AND REMOVAL PURPOSES. DO NOT INSERT MORE THAN ONE HOSE INTO A BAG.
 5. REPLACE THE BAG WHEN 50% OF THE SEDIMENT CAPACITY HAS BEEN FILLED AND/OR WHEN THERE IS A FAILURE. REMOVE AND PROPERLY DISPOSE OF THE PUMPED WATER FILTER BAGS. RESTORE THE AREA IN ACCORDANCE WITH THE SPECIFICATIONS IN PUBLICATION 408. DO NOT CUT FILTER BAG OR DISTRIBUTE AND SEED SEDIMENT.
 6. DO NOT PERMIT DISCHARGE FROM THE BAG TO DRAIN BACK INTO WORK OR ACCESS AREAS OF THE PROJECT.

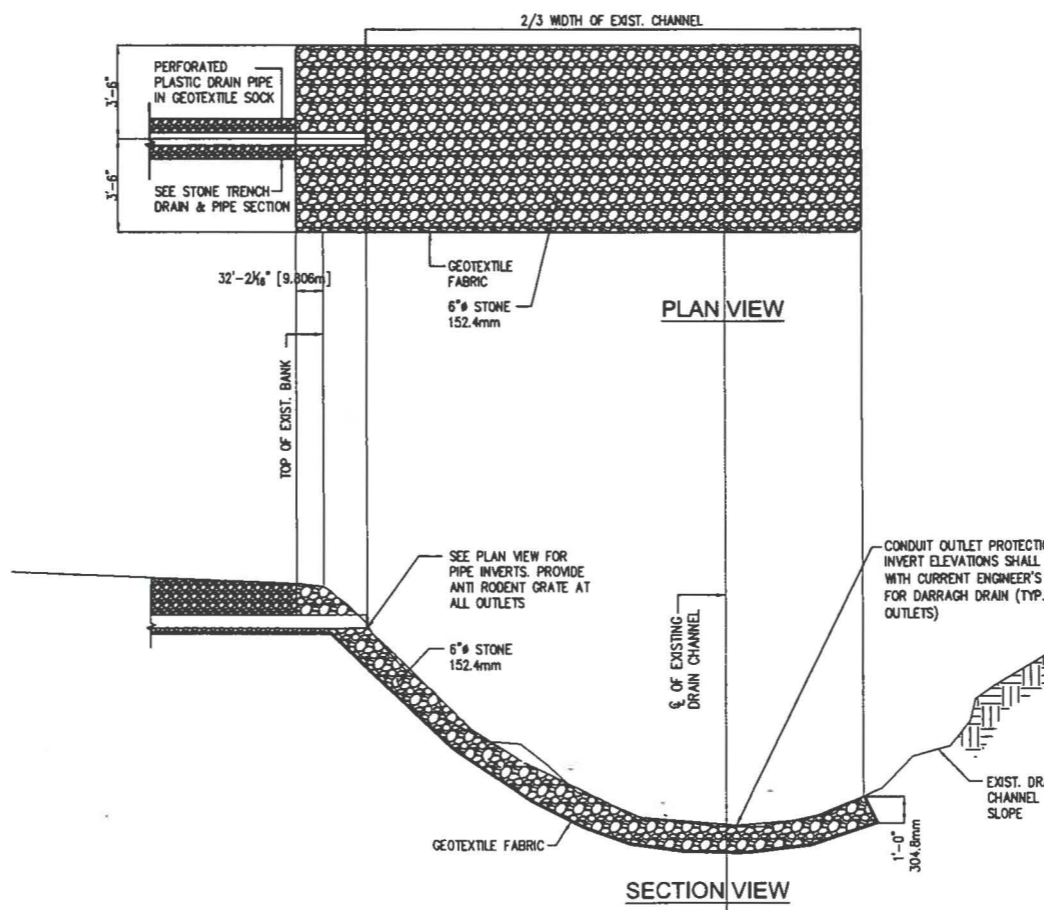
**DETAIL 5
PUMPED WATER FILTER BAG**
N.T.S.



**DETAIL 7
INLET FILTER**
N.T.S.



**DETAIL 8
FIBRE ROLL**
N.T.S.



**DETAIL 9
RIP RAP TREATMENT FOR
STORM DRAIN OUTLET PIPES**
SCALE: N.T.S.

NOTES:
 1 FOR NOTES, SEE DWG C111
 2 FOR LEGEND AND ABBREVIATIONS, SEE DRAWING C112

SCHEDULE "C-3" TO BY-LAW 2011-15

1710690 ONTARIO INC.
 Per: *[Signature]*
 Name: **CELANO**
 Title: **PRESIDENT**

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

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FIRST SOLAR DEVELOPMENT (CANADA) INC.
 5115 BLACKWELL SIDEROAD
 SARMA, ONTARIO, N7T 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 SYMERS	PROJ. ENGR. MADHAN BRIDGESTON	DR. BY JW	CHK. BY RM	SCALE: AS SHOWN
PROJ. DIRECTOR KEITH SYMERS	PROJECT CODE AMH2	DRAWING No.	C903	REV. 1
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STORMWATER MANAGEMENT PLAN AMHERSTBURG 2 SOLAR FARM

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

Prepared For:
First Solar Development (Canada) Inc

SCHEDULE "D" TO BY-LAW 2011-15

1710690 ONTARIO INC.

Per:

Name:
Title:

[Signature]
Name: **THOMAS COLLARNO**
Title: **PRESIDENT**

Per:

Name:
Title:

TOWN OF AMHERSTBURG

[Signature]
MAYOR WAYNE HURST

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NOVEMBER 2010
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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

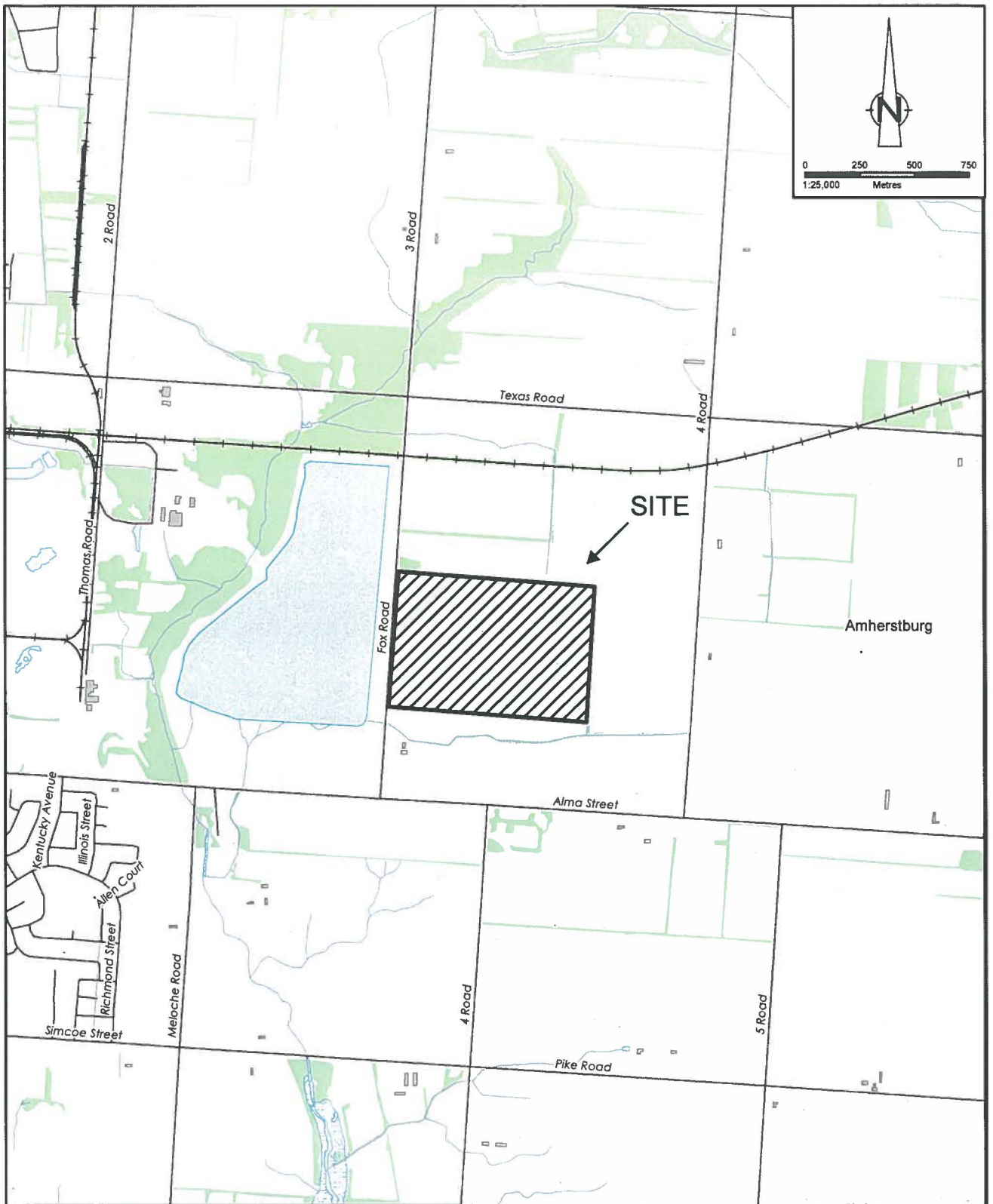


Dilan Singaraja, P. Eng.

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.



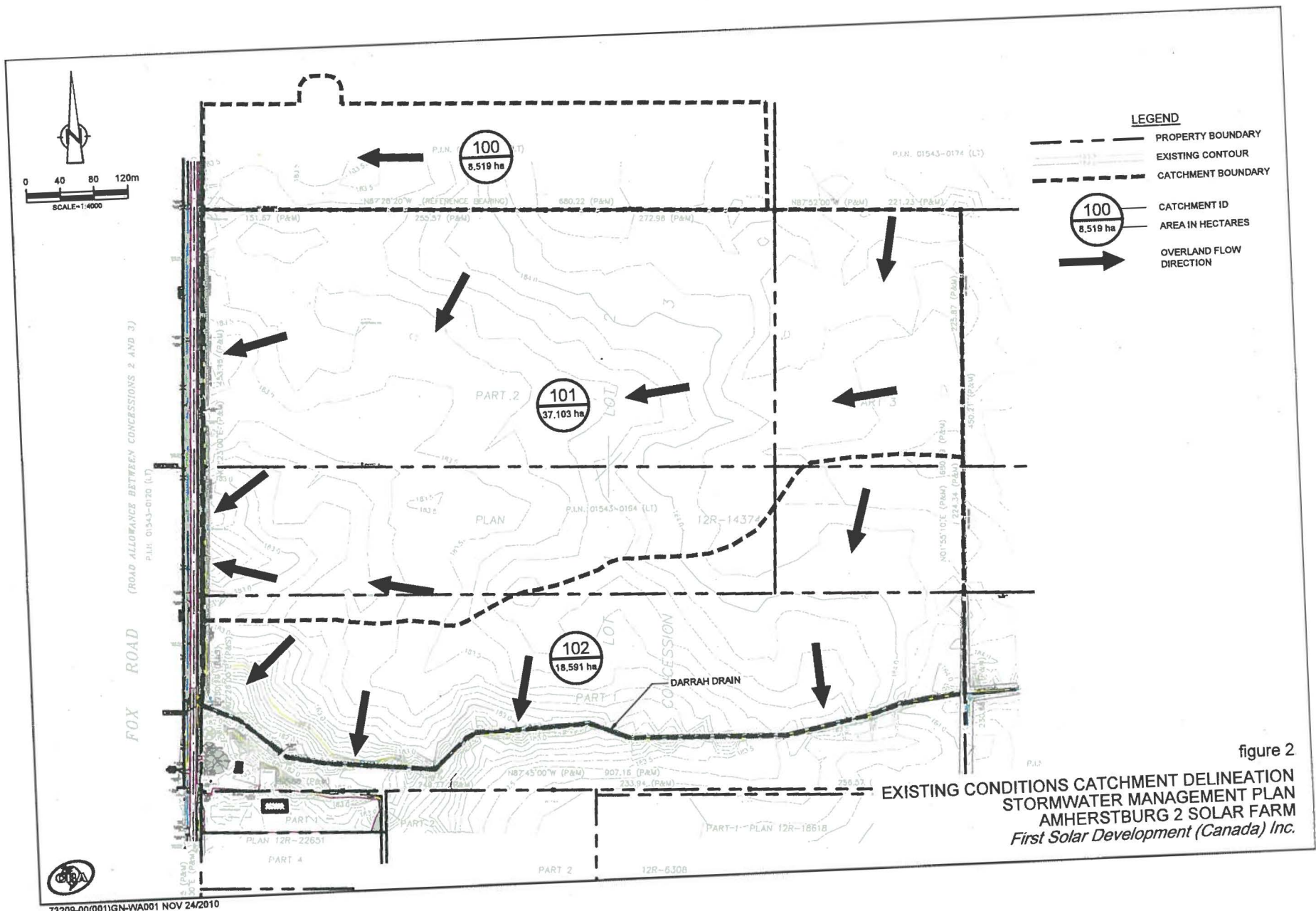


figure 2

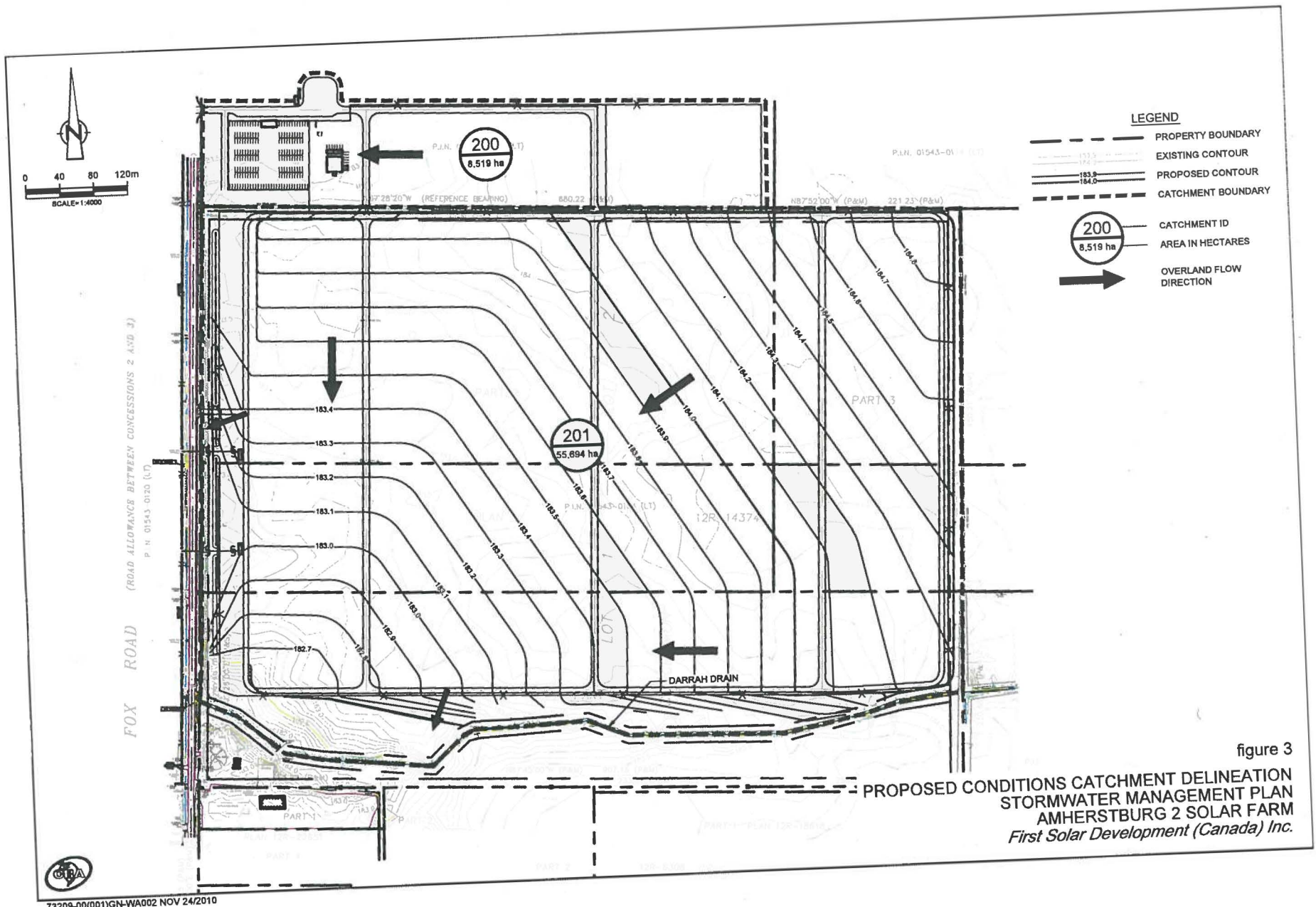


figure 3
 PROPOSED CONDITIONS CATCHMENT DELINEATION
 STORMWATER MANAGEMENT PLAN
 AMHERSTBURG 2 SOLAR FARM
 First Solar Development (Canada) Inc.



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 (mm)	<i>Duration</i> (hr)
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 (ha)	Flow Length (m)	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

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*****
* 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.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

.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.ó 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
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20      MANUAL

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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   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.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
    .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.ó 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.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
      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.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
.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.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
          .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

```