



City of Caribou, Maine

AGENDA Caribou Planning Board Regular Meeting Thursday August 14, 2025, at 6:00 p.m.

*Municipal Building
25 High Street
Caribou, ME 04736
Telephone (207) 493-3324
Fax (207) 498-3954*

The meeting will be broadcast on Cable Channel 1301 and the City's YouTube Channel.
Public Comments submitted prior to the meeting no later than 4:00 pm on Thursday, July 10, 2025, will be read during the meeting. Send comments to City Manager Penny Thompson at pthompson@cariboumaine.org.

- | | | |
|-------|--|---------------------|
| I. | Call Meeting to Order, Determine Quorum, disclosure of conflicts of interest | |
| II. | Acceptance of Minutes | |
| | a. There are no minutes to approve | |
| III. | Public Hearings & Possible Action – none this meeting | <u>Pages</u> |
| IV. | Unfinished Business | |
| | a. Resignation of Chair Amanda Jandreau | 02-03 |
| | b. Ordinances 1, 2, & 3 statuses | 04 |
| V. | New Business | |
| | a. Irving Farms Site Design Review - Solar | 05-40 |
| VI. | City Council Liaison Report | |
| VII. | Staff Report | |
| VIII. | Adjournment | |

**CARIBOU ADMINISTRATION
25 HIGH STREET
CARIBOU, ME. 04736**



MEMO

To: Planning Board Chair and Members
From: Penny Thompson, City Manager
Date: August 14, 2025
Re: Resignation of Chair Amanda Jandreau

Chair Amanda Jandreau has resigned from her position as Planning Board Chair.

Suggested Action

This is for informational purposes only.

The Planning Board may decide to elect a new chair.

New members need to be recruited as the Planning Board is down to four members.

Penny Thompson, City of Caribou Manager
25 High Street
Caribou, ME 04736

July 31, 2025

Dear Penny,

It is with regret that I submit my resignation from the Caribou Planning Board, effective immediately.

The City Council's recent decision to bypass the Planning Board and adopt the newly rewritten Chapter 13, Section 39, without our involvement, directly contradicts the City's Ordinances. This concern was clearly outlined by the City's attorney in a letter dated July 2, 2025. Despite my dedicated service on the Planning Board since 2019, and as Chair since 2023, I find this disregard for due process and the role of the Planning Board deeply troubling and disrespectful.

At the July 28th Council meeting, two Planning Board members, including myself, respectfully presented our position. We acknowledged the need for amendments to section 39 and requested that the matter be referred back to the Planning Board for proper review. These requests were ignored.

Furthermore, on Monday morning, a revised version of Chapter 13, Section 39 was distributed to Council and Planning Board members. During the meeting, it was stated that "10 hours is more than enough time to review," with another council member stating, "I haven't had time to review it, I've been working all day" and one Council member remarked, "I think right now it's a matter of just pushing through what we got." These comments reflect a concerning willingness to bypass thoughtful deliberation and proper procedure.

During the public hearing, I raised specific concerns about the impact of the new ordinance on the existing dispensary in the RC-2 zone, which would become a non-conforming use under the new language. This could jeopardize its operations if interrupted for 12 months. No amendment was made to address this issue, only a vague statement that it could be fixed later.

I have always believed in contributing to my community where my expertise could be of value. Unfortunately, I no longer feel that the current direction of Caribou's City Council aligns with that belief.

Sincerely,



Amanda Jandreau

**CARIBOU ADMINISTRATION
25 HIGH STREET
CARIBOU, ME. 04736**



MEMO

To: Planning Board Chair and Members
From: Penny Thompson, City Manager
Date: August 14, 2025
Re: Status of Ordinances 1, 2 & 3

Ordinances 1, 2, and 3 were approved at the last City Council meeting.
All three ordinances are related to the Land Use Ordinances in Caribou.

Suggested Action

This is for informational purposes.

**CARIBOU ADMINISTRATION
25 HIGH STREET
CARIBOU, ME. 04736**



MEMO

To: Planning Board Chair and Members
From: Penny Thompson, City Manager
Date: August 14, 2025
Re: Irving Farms Site Design Review - Solar

The City has received a site design review application from Irving Farms.

Suggested Action

If the Planning Board deems the attached application complete, it can be sent to a public hearing and final review for the next meeting.



Site Design Application

Planning & Code Enforcement
City of Caribou
25 High St.
Caribou, Maine 04736

(207) 493 – 3324 option 3
pthompson@cariboumaine.org

Note to Applicant: Complete this application and return it with the required documents. In addition, the required fee must be returned along with this completed application. Make checks payable to: "City of Caribou", in the amount of \$90.00 plus \$10.00 per 2000 square feet of total gross floor area for commercial, industrial or other non residential applications.

Please print or type all information

Name of Property Owner / Developer: Irving Farms Inc.
Development Name: Irving Farms
Location of Property (Street Locations): 17 Buck Road, Caribou, ME 04736
City of Caribou Tax Map: 5 Lot: 54 Zone: R-3

Site Design Review Application – City of Caribou, Maine

Site Design approval will not be considered complete until the Planning Board has determined it has all of the necessary information to review the proposal and render a decision. You are advised to meet with the Code Enforcement Officer prior to completing the application as it may not be necessary to comply with all of the items shown on the form. The review of your application shall consist of at least (2) two presentations to the Planning Board and possibly additional presentations until all required information has been provided. A "Performance Bond" may be required prior to approval of this project.

Applicant Information

Please provide a brief description of this project.

Renewable energy solar farm

Person and address to which all correspondence regarding this application should be sent to:

Jeff Irving

Phone: 207-492-0600

PO Box 667

Caribou, ME 04736

E-mail: jeff@irvingspuds.com

If applicant is a corporation, check if licensed in Maine (Attach copy of Secretary of State Registration) ☒ Yes ☐ No

Name of Land Surveyor, Engineer, Architect or other Design Professionals. (attach list if needed)

RLC Engineering

Phone: 207-621-1077

Blackstone Land Surveying

Phone: 498-3321

What legal interest does the applicant have in property to be developed (ownership, owners representative, option, purchase & sales contract, etc?)

Ownership

(Attach supportive legal documentation)

General Information

Aroostook County Registry Deeds: Book # 4612 Page # 143 (attach copy of deed)

What interest does the applicant have in any abutting property? ownership

Is any portion of the property within 250 feet of the normal high water line of a lake, pond, river, or wetland or within 75 feet of any stream? ☐ Yes ☒ No

Is any portion of the property within a Flood Hazard Zone? ☐ Yes ☒ No

Total area or acreage of parcel: 29 Total area or acreage to be developed: 1.8

Has this land been part of subdivision in the past five years? ☐ Yes ☒ No

Identify existing use(s) of land (farmland, woodlot, residential, etc.) farm land

Indicate any restrictive covenants to be placed in the deed -- (Please attach list)

Does the applicant propose to dedicate any recreation area, or common lands? ☐ Yes ☒ No

Recreation area(s) Estimated Area & Description: n/a

Common land(s) Estimated Area & Description: n/a

Anticipated start date for construction: month / year ____/____ Completion: ____/____

Does any portion of the proposal cross or abut an adjoining municipal line? ☐ Yes ☒ No

Does this development require extension of public services? ☐ Yes ☒ No

Roads: ____ Storm Drainage: ____ Sidewalks: ____ Sewer Lines: ____ Other: ____

Estimated cost for infrastructure improvements: \$ ____

Water Supply: Private Well: ☐ Public Water Supply: ☐ n/a

Sewerage Disposal: Private SSWD: ☐ Public Sewer: ☐ n/a

Estimated sewerage disposal gallons per day: (_____/day) n/a

Does the building require plan review by the State Fire Marshal Office? ☐ Yes ☒ No
(Attach Barrier free and Construction Permits from SFMO)

Have the plans been reviewed & approved by the Caribou Fire Chief? n/a ☐ Yes ☐ No

Does the building have an automatic sprinkler system? n/a ☐ Yes ☐ No

Does the building have an automatic fire detection system? n/a ☐ Yes ☐ No

Will the development require a hydrant or dry hydrant fire pond? ☐ Yes ☒ No

Concept Plan Review Criterion

The Planning Board shall review applications first as a Concept Plan. Concept Plan Review is intended to insure the proposed plan is in conformance with the Caribou Comprehensive Plan and all City Ordinances. The completed application and concept plans shall be delivered to the Code Enforcement Office no less than 21 days prior to the first day of the next month. The

Chairman of the Planning Board shall determine the schedule and agenda of the next meeting when the application and plans will receive Concept Plan Review. At a minimum, Concept Plan applications shall include the following:

1. _____ Name and address of the owner of record and applicant (if different).
2. _____ Name of the proposed development and location.
3. _____ Names and addresses of all property owners within 500 feet of the property.
4. _____ A copy of the deed to the property, option to purchase the property, or other documentation to demonstrate right, title, or interest in the property on the part of the applicant.
5. _____ Names and addresses of all consultants working on the project.
6. _____ 1 complete set of plans, 24" X 36" & 10 complete sets of plans, 11" X 17"
Plans to be included:
 - Boundary Survey
 - Storm Water Management
 - Erosion and Sediment Control
 - Finish Grading Plan
 - Site Improvement Detail
 - Building Elevations and Structural Plans
7. **Plans to show the following elements for review:**
 - _____ a. Graphic scale and north arrow.
 - _____ b. Location and dimensions of any existing or proposed easements and copies of existing covenants or deed restrictions.
 - _____ c. Name, registration number, and seal of the land surveyor, architect, engineer, and/or similar professional who prepared the Plan.
 - _____ d. All property boundaries, land area, and zoning designations of the site, regardless of whether all or part is being developed at this time.
 - _____ e. Size, shape, and location of existing and proposed buildings on the site including dimensions of the buildings and setbacks from property lines.
 - _____ f. Access for Emergency Vehicles, location and layout design of vehicular parking, circulation areas, loading areas, and walkways including curb cuts, driveways, parking space and vehicle turn around areas.
 - _____ g. Location and names of streets and rights-of-way within 200' and adjacent to the proposed development.
 - _____ h. Proposed finish grades and graphic arrows indicating the direction of storm water runoff.
 - _____ i. Conceptual treatment of on and off site storm water management facilities.
 - _____ j. Location and sizes of existing and proposed sewer and water services including connections.
 - _____ k. Conceptual treatment of landscaping buffers, screens, and plantings.

- _____ l. Location of outdoor storage areas, fences, signage and accessory structures.
- _____ m. Context map illustrating the area surrounding the site which will be affected by the proposal including all streets, sidewalks, intersections, storm water drainage ways, sanitary sewer lines and pump stations, nearby properties and buildings, zoning Districts, and geographic features such as, but not limited to, wetlands, natural features, historic sites, flood plains, significant scenic areas, and significant wildlife habitats as provided in the Comprehensive Plan.
- _____ n. All proposed signage and exterior lighting including the location, size and wording of all signs, type of exterior lights, radius of light, manufacturer's specifications sheet, and the ground level intensity in foot- candles of all exterior lights.

Final Site Design Plan Requirements

Following approval of the Concept Plan Review, the Planning Board may by majority vote schedule the Site Design Application for Final Plan Review. Final Plan Review must be at least 30 days following Concept Plan Approval. If additional information is required by the Planning Board following the Concept Plan Review, a complete set of revised plans shall be provided for final review and approval. If additional information or a change of information is required, the revised plans shall be delivered to the Code Enforcement Office at least 21 days prior to the next scheduled meeting.

Final Site Design Plan Review shall require three (3) 24" X 36" sets of plans for Board Signatures.

If the Planning Board determines that third party review will be necessary to make a sound decision, the applicant will be responsible for any fees incurred for the third party review.

During the Final Site Design Review the Chairman or designee shall determine that all of the elements of review 7-a., through 7-n. above have been addressed. The chair may then call for a motion.

If the Final Plan is approved by the Planning Board, no work may commence for a period of 30 days following the date of approval.

Final Site Design Plans shall provide an area designated for all seven Planning Board members signatures.

Applicant Signature:

To the best of my knowledge, all of the information submitted in this application is true and correct.

Signature of Applicant: _____ Date: _____

Final Site Design Review Criteria by Planning Board

Date: _____	<u>Yes</u>	<u>No</u>	<u>N/A</u>
A. Conformance with Comprehensive Plan	_____	_____	_____
B. Traffic	_____	_____	_____
C. Site Access	_____	_____	_____
D. Parking & Vehicle Circulation	_____	_____	_____
	<u>Yes</u>	<u>No</u>	<u>N/A</u>
E. Pedestrian Circulation	_____	_____	_____
F. Site Conditions	_____	_____	_____
G. Open Space	_____	_____	_____
H. Sanitary Sewage	_____	_____	_____
I. Water	_____	_____	_____
J. Emergency Vehicle Access	_____	_____	_____
K. Waste Disposal	_____	_____	_____
L. Buffering	_____	_____	_____
M. Natural Areas	_____	_____	_____
N. Exterior Lighting	_____	_____	_____
O. Stormwater Management	_____	_____	_____
P. Erosion & Sediment Control	_____	_____	_____
Q. Buildings	_____	_____	_____
R. Existing Landscaping	_____	_____	_____
S. Infrastructure	_____	_____	_____
T. Advertising Features	_____	_____	_____
U. Design Relationship to Site	_____	_____	_____
& Surrounding Properties	_____	_____	_____

V.	Scenic Vistas & Areas	_____	_____	_____
W.	Utilities	_____	_____	_____
X.	Mineral Exploration	_____	_____	_____
Y.	General Requirements	(Pg. 859)	_____	_____
Z.	Phosphorus Export	_____	_____	_____

**City of Caribou, Maine
Planning Board**

Site Design Review for: _____

Address: _____

On _____ (date) the members of the Caribou Planning Board met to consider the application for Site Design Review on the property referenced above.

The application was: **Denied** / **Approved** / **Approved with conditions**

Approved by the Caribou Planning Board

Signed: _____ Chairman of the Planning Board

Date: ____ / ____ / ____

Conditions of Approval:

Bk 4621 Pg141 #10711
09-02-2008 @ 12:26P

AGREEMENT

This Agreement made this 29th day of August, 2008, by and between **CARIBOU CHAMBER OF COMMERCE AND INDUSTRY**, a Maine Corporation with a place of business in Caribou, County of Aroostook and State of Maine, whose mailing address is 24 Sweden Street, Suite 101, Caribou, Maine 04736, hereinafter called "First Party", and **IRVING FARMS, INC.**, a Maine Corporation with a place of business in Caribou, County of Aroostook and State of Maine, whose mailing address is P. O. Box 667, Caribou, Maine 04736, hereinafter called "Second Party",

WITNESSETH:

WHEREAS, First Party has this day sold certain real estate located on the Buck Road in Caribou, Maine, to Second Party based upon the sale price which First Party acknowledges receiving, and based upon the promises of Second Party that it will build an eight thousand (8,000) square foot storage building at said Buck Road real estate on or before August 1, 2012, and

WHEREAS, the parties hereto have agreed that if Second Party fails to build an eight thousand (8,000) square foot storage building at said site before August 1, 2012, that Second Party will reconvey said real estate back to First Party for the same price that they have paid First Party for today.

NOW THEREFORE, in consideration of the acknowledgement and delivery of the aforesaid deed by First Party, Second Party promises and agrees that should it fail to build the said eight thousand (8,000) square foot storage building on the Buck Road real estate conveyed to it by First Party by August 1, 2012, that it will, on demand, reconvey

KIRKPATRICK & BENNETT LAW OFFICES, P.O. BOX 26, CARIBOU, MAINE 04736-0026

the aforesaid Buck Road real estate in Caribou, Maine back to First Party, or its assigns,
for consideration of the same purchase price as it is this paying for said real estate.

IN WITNESS WHEREOF, the parties have hereto and interchangeably set their
hands and seals at Caribou, Maine, on the day and year first above mentioned.

CARIBOU CHAMBER OF COMMERCE
AND INDUSTRY

BY: [Signature]
Wendy Landes, Executive Director
"First Party"

IRVING FARMS, INC.

BY: [Signature]
Scott K. Irving, President
"Second Party"

STATE OF MAINE
AROOSTOOK, SS.

Personally appeared the above-named WENDY LANDES, executive director of
CARIBOU CHAMBER OF COMMERCE AND INDUSTRY as aforesaid, and
acknowledged the foregoing instrument by her signed to be her free act and deed in her
said capacity and the free act and deed of said corporation.

Before me,

[Signature]
Hugh S. Kirkpatrick
Attorney at Law

STATE OF MAINE
AROOSTOOK, SS.

Personally appeared the above-named Scott K. Irving
President of IRVING FARMS, INC. and acknowledged the
foregoing instrument by him signed to be his free act and deed in his said capacity and
the free act and deed of said corporation.

Before me,

[Signature]
Notary Public (Seal)
(Printed Name _____)

Received
Aroostook ss
Patricia F Brown Register

KIRKPATRICK & BENNETT LAW OFFICES, P.O. BOX 26, CARIBOU, MAINE 04736-0026

Bk 4769 Pg 336 #13696
11-16-2009 @ 11:51a

RELEASE DEED
(Maine Statutory Short Form)

KNOW ALL MEN BY THESE PRESENTS, THAT the **Caribou Chamber of Commerce and Industry**, a Maine corporation with a place of business in Caribou, County of Aroostook, State of Maine, **RELEASES** to **Irving Farms, Inc.**, a Maine corporation with a place of business in Caribou, County of Aroostook, State of Maine, whose mailing address is P.O. Box 667, Caribou, ME 04736, the land in Caribou, County of Aroostook, State of Maine, described as follows:

Real estate located on the Buck Road in Caribou, State of Maine as described in a Warranty Deed from the Caribou Chamber of Commerce and Industry to Irving Farms, Inc. recorded in Bk 4621, Page 143.

The grantor and grantee herein entered into an Agreement dated August 29, 2008 and recorded in Bk 4621, Page 141 in which Irving Farms, Inc. was granted real estate located on the Buck Road on the condition that it construct an Eight Thousand (8,000) square foot building on the premises before August 1, 2012.

The purpose of this deed is to acknowledge that this condition has been satisfied and the Caribou Chamber of Commerce and Industry hereby terminates its rights to re-acquire the property as provided in the Agreement.

Caribou Chamber of Commerce and
Industry

Hugh S. Kirkpatrick
Witness

By: Wendy Landes
Wendy Landes, Executive Director

State of Maine
County of Aroostook, ss.

November 6, 2009

Personally appeared the above named, Wendy Landes and acknowledged the foregoing instrument to be her free act and deed.

Received
AROOSTOOK SS
PATRICIA F BROWN, REGISTER

Before me,

Hugh S. Kirkpatrick
Notary Public/Attorney at Law

Hugh S. Kirkpatrick, Esq.

[Printed/Typed Name]

FARDS\CORPORATIONS\Irving Farms\Release frm CCC&I.wpd

STATE OF MAINE
AROOSTOOK, SS.

August 29, 2008

Personally appeared the above-named WENDY LANDES, Executive Director of CARIBOU CHAMBER OF COMMERCE AND INDUSTRY as aforesaid, and acknowledged the foregoing instrument by her signed to be her free act and deed.

Before me,

Hugh S. Kirkpatrick
Hugh S. Kirkpatrick
Attorney at Law

This is not an official document

MAINE TRANSFER
TAX PAID

Received
AROOSTOOK SS
PATRICIA F BROWN-REGISTER

KIRKPATRICK & BENNETT
LAW OFFICES
P.O. BOX 26
CARIBOU, MAINE
04736-0026

Bk 4621 Pg 143 #10712
09-02-2008 @ 12:26p

WARRANTY DEED

CARIBOU CHAMBER OF COMMERCE AND INDUSTRY, a corporation organized and existing under the laws of the State of Maine, with an office and place of business in Caribou, Aroostook County, Maine, whose mailing address is 24 Sweden Street, Suite 101, Caribou, Maine 04736, for consideration paid, grants to **IRVING FARMS, INC.**, a Corporation organized and existing under the laws of the State of Maine, with an office and place of business in Caribou, Aroostook County, Maine, whose mailing address is P. O. Box 667, Caribou, Maine 04736, with **WARRANTY COVENANTS**, the land in Caribou, Aroostook County, Maine, as follows:

Thirty (30) acres from that part of Lot Numbered Fifty-four (54), in Caribou, in the County of Aroostook and State of Maine, formerly "H" Township, lying west of the main road from Caribou to Presque Isle as it existed in 1964. Said thirty (30) acres being bounded on the north by the north line of Lot numbered Fifty-four (54); on the east by real estate conveyed to Denis R. Mazerolle by Warranty Deed of Arnold Blackstone and Effie Blackstone dated October 12, 1971 and recorded at the Southern Aroostook Registry of Deeds in Vol. 1090, Page 515, the aforesaid main road, real estate conveyed to Harold E. Murphy and Josie Murphy by Warranty Deed of Charles D. Hatch dated May 24, 1963 and recorded in said Registry of Deeds in Vol. 881, Page 380, real estate conveyed to Herschel B. McEwen and Joan S. McEwen by Warranty Deed of Charles D. Hatch dated June 25, 1963, and recorded in said Registry of Deeds in Vol. 886, Page 113, real estate conveyed to Philip Mason by Warranty Deed of Charles D. Hatch dated August 1, 1960, and recorded in said Registry of Deeds in Vol. 807, Page 208; on the South by the Buck Road, so-called; and on the West by real estate of Maine Packers, Inc. The westerly line of the parcel conveyed herein running from the north line of Lot numbered Fifty-four (54) to the Buck Road and parallel with the west line of Lot numbered Fifty-four (54), and located so as to enclose a thirty (30) acre parcel of real estate excluding the parcels west of said main road previously sold to Mazerolle, Murphy, McEwen and Mason as aforesaid, and excluding parcel sold to Everett W. Cary and Gladys G. Cary by Warranty Deed of Charles D. Hatch dated May 18, 1950 and recorded in said Registry of Deeds in Vol. 617, Page 431, and parcel sold to Harold E. Murphy and Josie Murphy by Warranty Deed of Charles D. Hatch dated May 27, 1957 and recorded in said Registry of Deeds in Vol. 721, Page 199.

Being the same premises conveyed to **CARIBOU DEVELOPMENT CORPORATION** by Warranty Deed of **MAINE PACKERS, INC.** dated November 3, 1989, and recorded at the Southern Aroostook Registry of Deeds in Vol. 2232, Page 23.

Being also part and only part of the premises conveyed to **CARIBOU CHAMBER OF COMMERCE AND INDUSTRY** by Warranty Deed of **CARIBOU DEVELOPMENT CORPORATION** dated September 20, 2000, and recorded at the Southern Aroostook Registry of Deeds in Vol. 3438, Page 128.

IN WITNESS WHEREOF, **CARIBOU CHAMBER OF COMMERCE AND INDUSTRY** has caused this instrument to be signed in its corporation name by Wendy Landes, its executive director, thereunto duly authorized, this 09th day of August, 2008.

**CARIBOU CHAMBER OF COMMERCE
AND INDUSTRY**

BY Wendy Landes
Wendy Landes/Executive Director

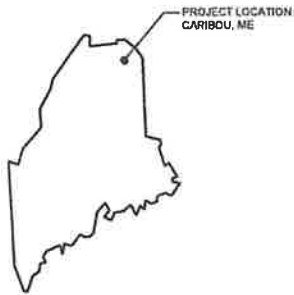
IRKPATRICK & BENNETT
LAW OFFICES
P.O. BOX 26
CARIBOU, MAINE
04736-0026

IRVING FARMS SOLAR, LLC
304.2 KW DC / 200 KW AC

IFC - ISSUED FOR CONSTRUCTION

BUCK ROAD
CARIBOU, ME 04736

APRIL 01, 2025
RLC PROJECT NUMBER: 22765-05



STATE OF MAINE
NTS



VICINITY MAP
NTS



DRAWING INDEX

SHEET #	SHEET NAME	REV	DATE
0000	0012 SHEET	0	04/01/25
0001	0013 SHEET	0	04/01/25
0002	0014 SHEET	0	04/01/25
0003	0015 SHEET	0	04/01/25
0004	0016 SHEET	0	04/01/25
0005	0017 SHEET	0	04/01/25
0006	0018 SHEET	0	04/01/25
0007	0019 SHEET	0	04/01/25
0008	0020 SHEET	0	04/01/25
0009	0021 SHEET	0	04/01/25
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0016	0028 SHEET	0	04/01/25
0017	0029 SHEET	0	04/01/25
0018	0030 SHEET	0	04/01/25
0019	0031 SHEET	0	04/01/25
0020	0032 SHEET	0	04/01/25
0021	0033 SHEET	0	04/01/25
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0026	0038 SHEET	0	04/01/25
0027	0039 SHEET	0	04/01/25
0028	0040 SHEET	0	04/01/25
0029	0041 SHEET	0	04/01/25
0030	0042 SHEET	0	04/01/25
0031	0043 SHEET	0	04/01/25
0032	0044 SHEET	0	04/01/25
0033	0045 SHEET	0	04/01/25
0034	0046 SHEET	0	04/01/25
0035	0047 SHEET	0	04/01/25
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0037	0049 SHEET	0	04/01/25
0038	0050 SHEET	0	04/01/25
0039	0051 SHEET	0	04/01/25
0040	0052 SHEET	0	04/01/25
0041	0053 SHEET	0	04/01/25
0042	0054 SHEET	0	04/01/25
0043	0055 SHEET	0	04/01/25
0044	0056 SHEET	0	04/01/25
0045	0057 SHEET	0	04/01/25
0046	0058 SHEET	0	04/01/25
0047	0059 SHEET	0	04/01/25
0048	0060 SHEET	0	04/01/25
0049	0061 SHEET	0	04/01/25
0050	0062 SHEET	0	04/01/25
0051	0063 SHEET	0	04/01/25
0052	0064 SHEET	0	04/01/25
0053	0065 SHEET	0	04/01/25
0054	0066 SHEET	0	04/01/25
0055	0067 SHEET	0	04/01/25
0056	0068 SHEET	0	04/01/25
0057	0069 SHEET	0	04/01/25
0058	0070 SHEET	0	04/01/25
0059	0071 SHEET	0	04/01/25
0060	0072 SHEET	0	04/01/25
0061	0073 SHEET	0	04/01/25
0062	0074 SHEET	0	04/01/25
0063	0075 SHEET	0	04/01/25
0064	0076 SHEET	0	04/01/25
0065	0077 SHEET	0	04/01/25
0066	0078 SHEET	0	04/01/25
0067	0079 SHEET	0	04/01/25
0068	0080 SHEET	0	04/01/25
0069	0081 SHEET	0	04/01/25
0070	0082 SHEET	0	04/01/25
0071	0083 SHEET	0	04/01/25
0072	0084 SHEET	0	04/01/25
0073	0085 SHEET	0	04/01/25
0074	0086 SHEET	0	04/01/25
0075	0087 SHEET	0	04/01/25
0076	0088 SHEET	0	04/01/25
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0079	0091 SHEET	0	04/01/25
0080	0092 SHEET	0	04/01/25
0081	0093 SHEET	0	04/01/25
0082	0094 SHEET	0	04/01/25
0083	0095 SHEET	0	04/01/25
0084	0096 SHEET	0	04/01/25
0085	0097 SHEET	0	04/01/25
0086	0098 SHEET	0	04/01/25
0087	0099 SHEET	0	04/01/25
0088	0100 SHEET	0	04/01/25
0089	0101 SHEET	0	04/01/25
0090	0102 SHEET	0	04/01/25
0091	0103 SHEET	0	04/01/25
0092	0104 SHEET	0	04/01/25
0093	0105 SHEET	0	04/01/25
0094	0106 SHEET	0	04/01/25
0095	0107 SHEET	0	04/01/25
0096	0108 SHEET	0	04/01/25
0097	0109 SHEET	0	04/01/25
0098	0110 SHEET	0	04/01/25
0099	0111 SHEET	0	04/01/25
0100	0112 SHEET	0	04/01/25



RLC Engineering, PLLC
267 Whitten Road
Hallowell, ME 04347
207.821.1177 (p)
207.821.1177 (f)
www.rlc-eng.com

Irving Farms Solar, LLC
P.O. Box 667
Caribou, ME 04736



ISSUED FOR
CONSTRUCTION

DESIGN TO CONSIDER THE FOLLOWING: THE ELECTRICAL CONTRACTOR MUST VERIFY THE PRESENT DESIGN OF ALL OVERHEADS AND UNDERGROUND LINES, TOWERS, AND ALL PARTS OF THE OVERHEAD LINE. ALL STRUCTURES OR CABLES ON THE ROAD OF THE CITY AND VILLAGE ARE TO BE REMOVED.

- ALL EXISTING OVERHEAD LINES ARE TO BE REMOVED WITH THE CONTRACTOR NOT TO BE COMPLETION OF THE JUNE, 2015.
- THE ELECTRICAL CONTRACTOR IS RESPONSIBLE FOR ALL WORK REQUIRED FOR ALL EXISTING TOWERS, STRUCTURES, AND CABLES.
- ELECTRICAL CONTRACTOR SHALL BE RESPONSIBLE FOR ALL WORK REQUIRED FOR ALL EXISTING TOWERS, STRUCTURES, AND CABLES ON THE ROAD OF THE CITY AND VILLAGE ARE TO BE REMOVED.
- THE ELECTRICAL CONTRACTOR SHALL BE RESPONSIBLE FOR ALL WORK REQUIRED FOR ALL EXISTING TOWERS, STRUCTURES, AND CABLES ON THE ROAD OF THE CITY AND VILLAGE ARE TO BE REMOVED.
- THE ELECTRICAL CONTRACTOR SHALL BE RESPONSIBLE FOR ALL WORK REQUIRED FOR ALL EXISTING TOWERS, STRUCTURES, AND CABLES ON THE ROAD OF THE CITY AND VILLAGE ARE TO BE REMOVED.

- 1. THE ELECTRICAL CONTRACTOR SHALL PROVIDE ALL NECESSARY MATERIALS AND FOLLOWING ALL SPECIFICATIONS AND REQUIREMENTS OF THE NATIONAL ELECTRICAL CODE IN THE INSTALLATION OF THE ELECTRICAL SYSTEM.
- 2. ALL ELECTRICAL WORK SHALL BE DONE IN ACCORDANCE WITH THE NATIONAL ELECTRICAL CODE AND ALL APPLICABLE LOCAL, STATE AND FEDERAL LAWS.
- 3. THE ELECTRICAL CONTRACTOR SHALL PROVIDE ALL NECESSARY MATERIALS AND FOLLOWING ALL SPECIFICATIONS AND REQUIREMENTS OF THE NATIONAL ELECTRICAL CODE IN THE INSTALLATION OF THE ELECTRICAL SYSTEM.
- 4. ALL ELECTRICAL WORK SHALL BE DONE IN ACCORDANCE WITH THE NATIONAL ELECTRICAL CODE AND ALL APPLICABLE LOCAL, STATE AND FEDERAL LAWS.
- 5. THE ELECTRICAL CONTRACTOR SHALL PROVIDE ALL NECESSARY MATERIALS AND FOLLOWING ALL SPECIFICATIONS AND REQUIREMENTS OF THE NATIONAL ELECTRICAL CODE IN THE INSTALLATION OF THE ELECTRICAL SYSTEM.
- 6. ALL ELECTRICAL WORK SHALL BE DONE IN ACCORDANCE WITH THE NATIONAL ELECTRICAL CODE AND ALL APPLICABLE LOCAL, STATE AND FEDERAL LAWS.
- 7. THE ELECTRICAL CONTRACTOR SHALL PROVIDE ALL NECESSARY MATERIALS AND FOLLOWING ALL SPECIFICATIONS AND REQUIREMENTS OF THE NATIONAL ELECTRICAL CODE IN THE INSTALLATION OF THE ELECTRICAL SYSTEM.
- 8. ALL ELECTRICAL WORK SHALL BE DONE IN ACCORDANCE WITH THE NATIONAL ELECTRICAL CODE AND ALL APPLICABLE LOCAL, STATE AND FEDERAL LAWS.
- 9. THE ELECTRICAL CONTRACTOR SHALL PROVIDE ALL NECESSARY MATERIALS AND FOLLOWING ALL SPECIFICATIONS AND REQUIREMENTS OF THE NATIONAL ELECTRICAL CODE IN THE INSTALLATION OF THE ELECTRICAL SYSTEM.
- 10. ALL ELECTRICAL WORK SHALL BE DONE IN ACCORDANCE WITH THE NATIONAL ELECTRICAL CODE AND ALL APPLICABLE LOCAL, STATE AND FEDERAL LAWS.

- [illegible]

[illegible]

- | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|-----|
| 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 | 15 | 16 | 17 | 18 | 19 | 20 | 21 | 22 | 23 | 24 | 25 | 26 | 27 | 28 | 29 | 30 | 31 | 32 | 33 | 34 | 35 | 36 | 37 | 38 | 39 | 40 | 41 | 42 | 43 | 44 | 45 | 46 | 47 | 48 | 49 | 50 | 51 | 52 | 53 | 54 | 55 | 56 | 57 | 58 | 59 | 60 | 61 | 62 | 63 | 64 | 65 | 66 | 67 | 68 | 69 | 70 | 71 | 72 | 73 | 74 | 75 | 76 | 77 | 78 | 79 | 80 | 81 | 82 | 83 | 84 | 85 | 86 | 87 | 88 | 89 | 90 | 91 | 92 | 93 | 94 | 95 | 96 | 97 | 98 | 99 | 100 |
|---|---|---|---|---|---|---|---|---|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|-----|

- [illegible]

1. REMOVE THE WOODEN INSTALLATION MANUAL FOR INFORMATION ON WOODEN FINISHES AND INSTALLATION.
2. THE BRACKET MAY BE MOUNTED WITH NAILS THROUGH THE STUDS & JOIST, THIS LEAVE WHEN MOUNTING.
3. REMOVE LEAF & WOODEN BRACKET.
4. AT THE TIME SHALL A PORTABLE PORTABLE RING OF 45 DEGREES WITHIN A RADIUS OF 100 CM BE FORMED.

[illegible]

EQUIPMENT FURNISHING.

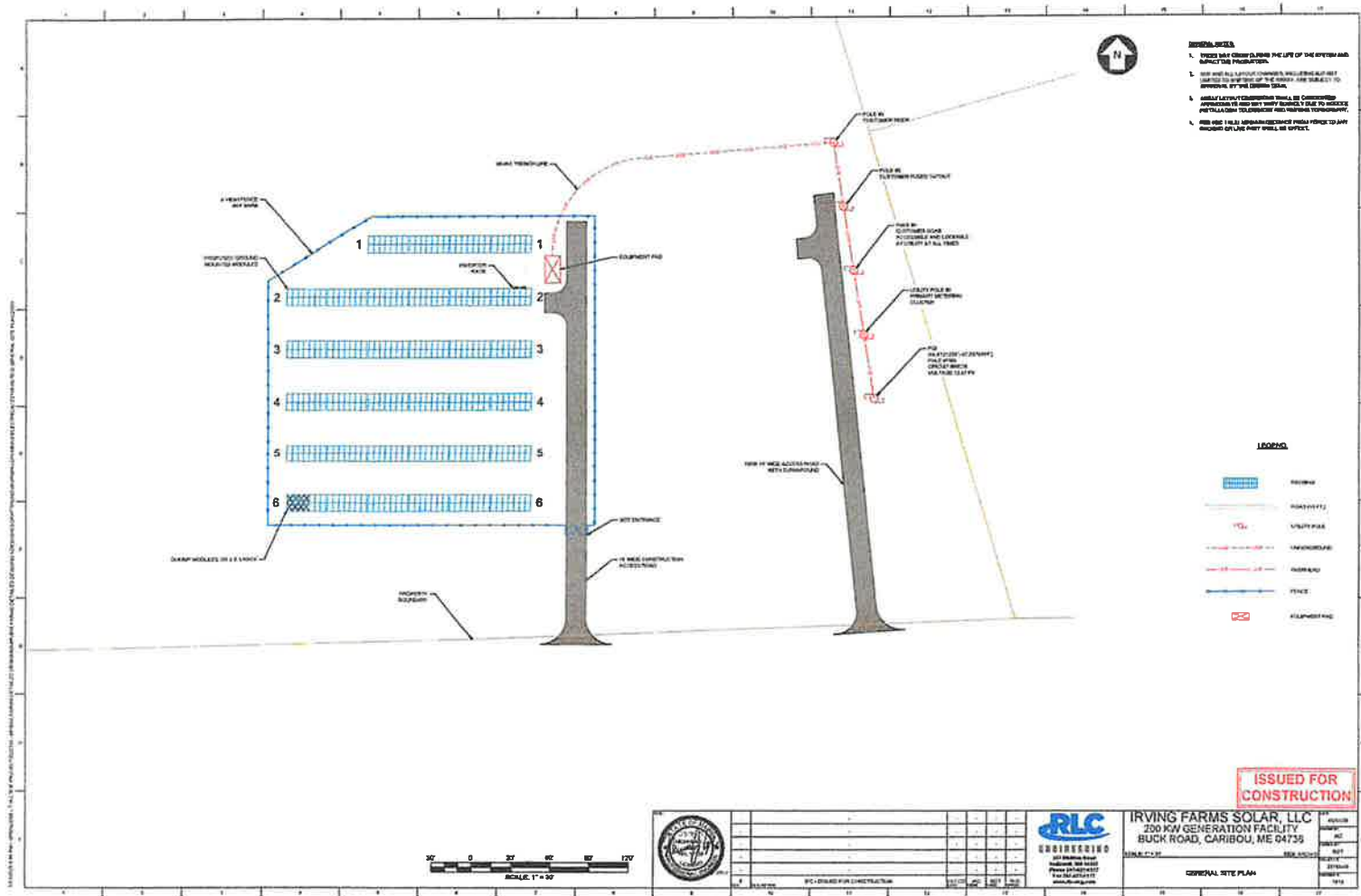
- a. ☐ REPAIR OR REPLACE THE FOLLOWING:
 1. ☐ AIR CONDITIONING SYSTEM
 2. ☐ ELECTRICAL SYSTEM
 3. ☐ EXHAUST SYSTEM
 4. ☐ FUEL SYSTEM
 5. ☐ TRANSMISSION
 6. ☐ STEERING
 7. ☐ SUSPENSION
 8. ☐ TIRE
 9. ☐ WHEEL
 10. ☐ WINDOW
 11. ☐ DOOR
 12. ☐ LOCK
 13. ☐ KEY
 14. ☐ REMOTE CONTROL
 15. ☐ INTERIOR LIGHT
 16. ☐ EXTERIOR LIGHT
 17. ☐ MIRROR
 18. ☐ SEAT
 19. ☐ HEADREST
 20. ☐ SUNSHIELD
 21. ☐ RAIN VISION
 22. ☐ WIPER
 23. ☐ WASH FLUID
 24. ☐ BRAKE FLUID
 25. ☐ OIL
 26. ☐ FILTER
 27. ☐ BATTERY
 28. ☐ HORN
 29. ☐ SPEAKER
 30. ☐ RADIO
 31. ☐ TV
 32. ☐ PHONE
 33. ☐ CAMERA
 34. ☐ GPS
 35. ☐ NAVIGATION
 36. ☐ BLUETOOTH
 37. ☐ WIFI
 38. ☐ USB
 39. ☐ SD CARD
 40. ☐ MEMORY
 41. ☐ STORAGE
 42. ☐ BACKUP
 43. ☐ RECOVERY
 44. ☐ UPDATE
 45. ☐ PATCH
 46. ☐ BUG FIX
 47. ☐ SECURITY
 48. ☐ PRIVACY
 49. ☐ ACCESSIBILITY
 50. ☐ LOCALIZATION
 51. ☐ INTERNATIONALIZATION
 52. ☐ TRANSLATION
 53. ☐ FONT
 54. ☐ CHARACTER SET
 55. ☐ COLLATION
 56. ☐ SORTING
 57. ☐ INDEXING
 58. ☐ SEARCHING
 59. ☐ FILTERING
 60. ☐ GROUPING
 61. ☐ AGGREGATION
 62. ☐ SUMMARIZATION
 63. ☐ ANALYSIS
 64. ☐ SYNTHESIS
 65. ☐ GENERATION
 66. ☐ TRANSFORMATION
 67. ☐ CONVERSION
 68. ☐ INTERCONVERSION
 69. ☐ MAPPING
 70. ☐ TRANSFORMATION
 71. ☐ CONVERSION
 72. ☐ INTERCONVERSION
 73. ☐ MAPPING
 74. ☐ TRANSFORMATION
 75. ☐ CONVERSION
 76. ☐ INTERCONVERSION
 77. ☐ MAPPING
 78. ☐ TRANSFORMATION
 79. ☐ CONVERSION
 80. ☐ INTERCONVERSION
 81. ☐ MAPPING
 82. ☐ TRANSFORMATION
 83. ☐ CONVERSION
 84. ☐ INTERCONVERSION
 85. ☐ MAPPING
 86. ☐ TRANSFORMATION
 87. ☐ CONVERSION
 88. ☐ INTERCONVERSION
 89. ☐ MAPPING
 90. ☐ TRANSFORMATION
 91. ☐ CONVERSION
 92. ☐ INTERCONVERSION
 93. ☐ MAPPING
 94. ☐ TRANSFORMATION
 95. ☐ CONVERSION
 96. ☐ INTERCONVERSION
 97. ☐ MAPPING
 98. ☐ TRANSFORMATION
 99. ☐ CONVERSION
 100. ☐ INTERCONVERSION
 - b. ☐ REPLACE THE FOLLOWING:
 1. ☐ AIR CONDITIONING SYSTEM
 2. ☐ ELECTRICAL SYSTEM
 3. ☐ EXHAUST SYSTEM
 4. ☐ FUEL SYSTEM
 5. ☐ TRANSMISSION
 6. ☐ STEERING
 7. ☐ SUSPENSION
 8. ☐ TIRE
 9. ☐ WHEEL
 10. ☐ WINDOW
 11. ☐ DOOR
 12. ☐ LOCK
 13. ☐ KEY
 14. ☐ REMOTE CONTROL
 15. ☐ INTERIOR LIGHT
 16. ☐ EXTERIOR LIGHT
 17. ☐ MIRROR
 18. ☐ SEAT
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 45. ☐ PATCH
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 47. ☐ SECURITY
 48. ☐ PRIVACY
 49. ☐ ACCESSIBILITY
 50. ☐ LOCALIZATION
 51. ☐ INTERNATIONALIZATION
 52. ☐ TRANSLATION
 53. ☐ FONT
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 55. ☐ COLLATION
 56. ☐ SORTING
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 58. ☐ SEARCHING
 59. ☐ FILTERING
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 61. ☐ AGGREGATION
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 66. ☐ TRANSFORMATION
 67. ☐ CONVERSION
 68. ☐ INTERCONVERSION
 69. ☐ MAPPING
 70. ☐ TRANSFORMATION
 71. ☐ CONVERSION
 72. ☐ INTERCONVERSION
 73. ☐ MAPPING
 74. ☐ TRANSFORMATION
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 76. ☐ INTERCONVERSION
 77. ☐ MAPPING
 78. ☐ TRANSFORMATION
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 90. ☐ TRANSFORMATION
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 92. ☐ INTERCONVERSION
 93. ☐ MAPPING
 94. ☐ TRANSFORMATION
 95. ☐ CONVERSION
 96. ☐ INTERCONVERSION
 97. ☐ MAPPING
 98. ☐ TRANSFORMATION
 99. ☐ CONVERSION
 100. ☐ INTERCONVERSION
2. ☐ THE ELECTRICAL SYSTEM IN ALL FURNISH AND INSTALL ALL WIRING, CONDUIT, CONNECTS, POWER PAPER & CABLE BREAK AND ALL LAMPS, LAMPS, AND FUSIBLE EQUIPMENT, FUSIBLE, & MISC. FOR THE ENTIRE AREA OF A FULLY FURNISHED SYSTEM.
3. ☐ THE ELECTRICAL SYSTEM FOR ALL FURNISH AND INSTALL ALL WIRING, CONDUIT, CONNECTS, POWER PAPER & CABLE BREAK AND ALL LAMPS, LAMPS, AND FUSIBLE EQUIPMENT, FUSIBLE, & MISC. FOR THE ENTIRE AREA OF A FULLY FURNISHED SYSTEM.

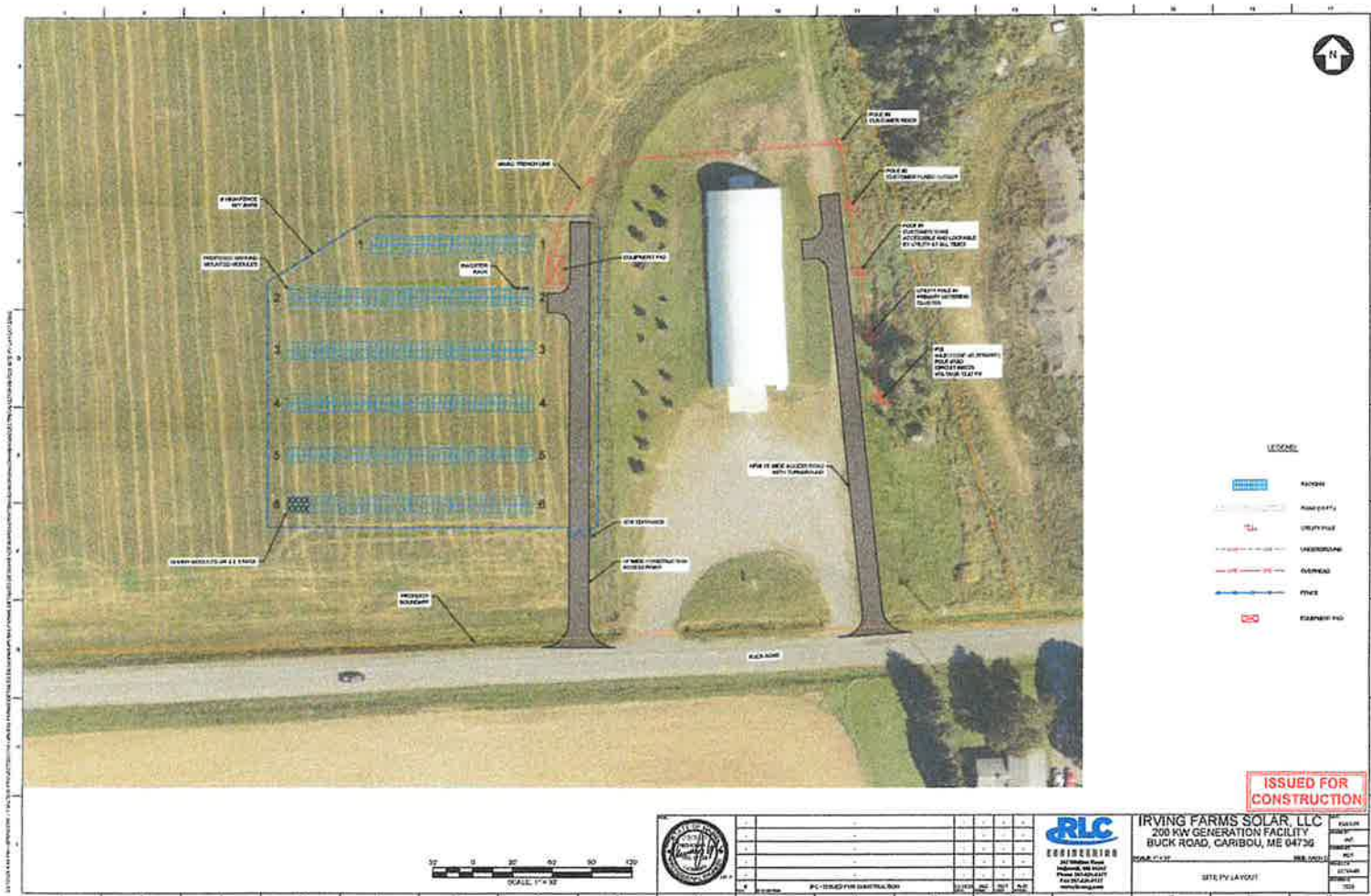
[illegible]

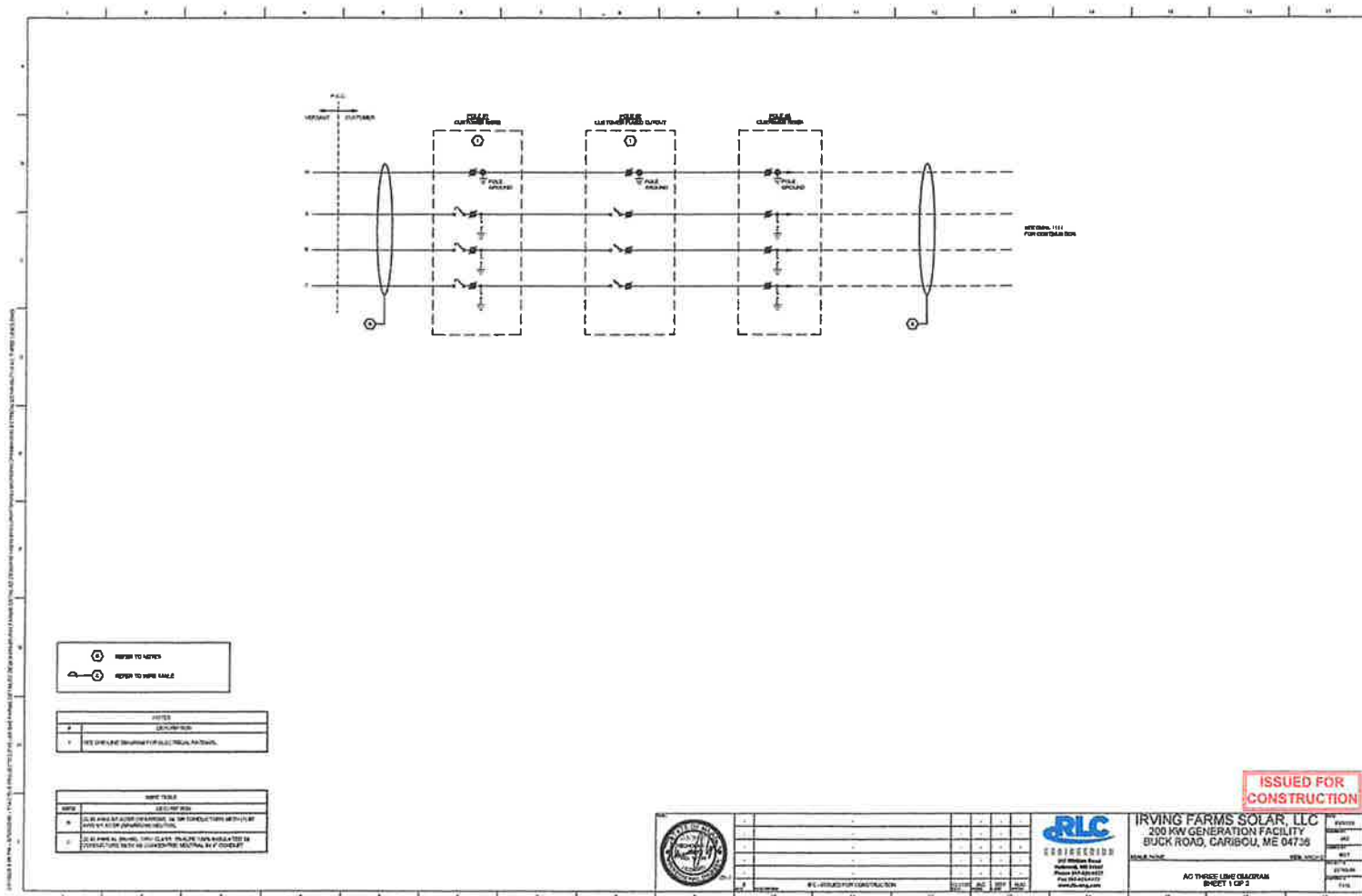
IRVING FARMS SOLAR, LLC
200 KW GENERATION FACILITY
BUCK ROAD, CARIBOU, ME 04736

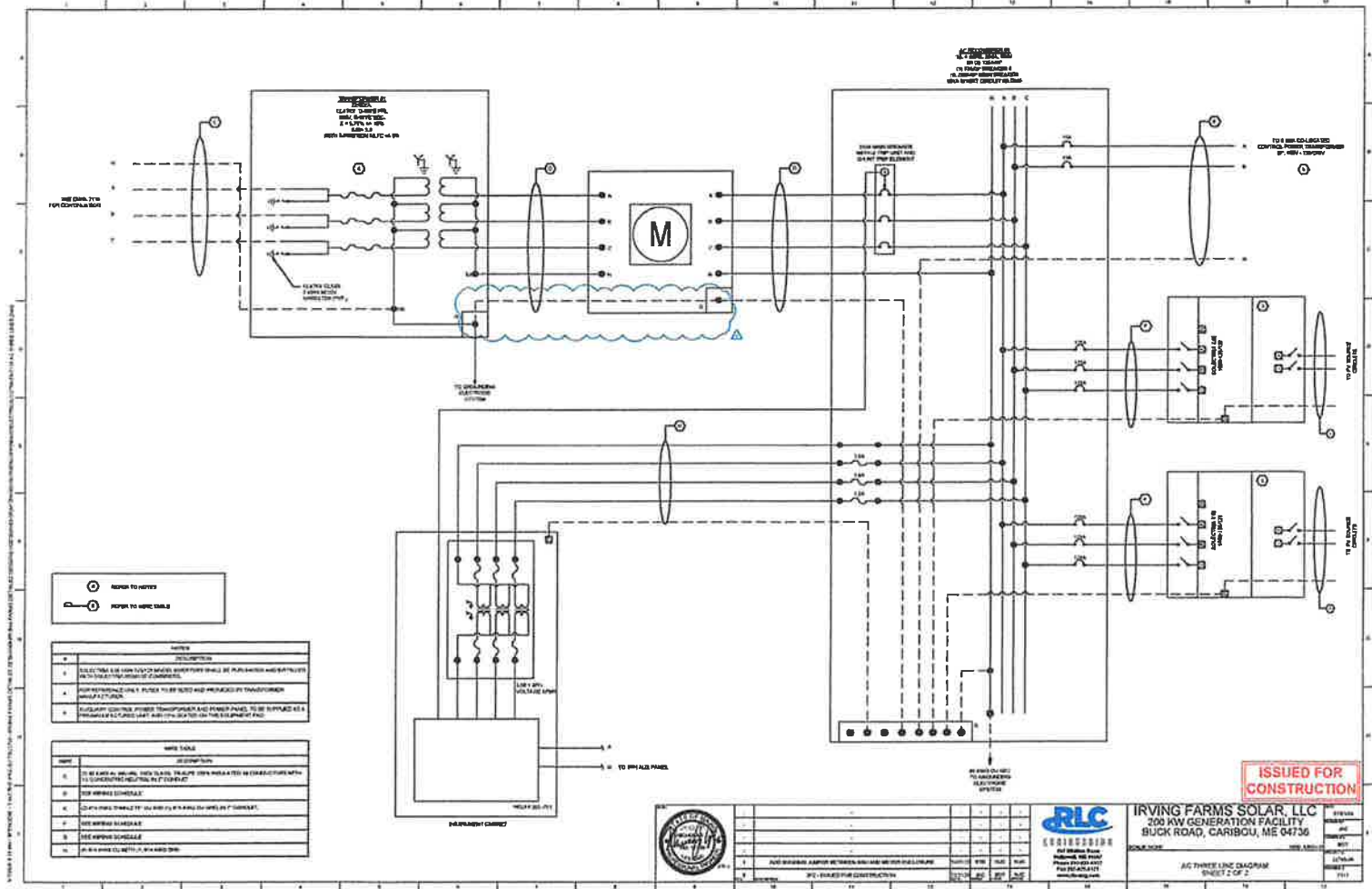
GENERAL NOTES

[illegible]











STRING INVERTER SPECIFICATIONS											
Model	Manufacturer	Max Power (kW)	Max Voltage (V)	Max Current (A)	Max Power Factor	Max Efficiency (%)	Max Temperature (°C)	Max Humidity (%)	Max Wind Speed (m/s)	Max Rainfall (mm/hr)	Max Snow Load (kg/m²)
Model 1	Manufacturer 1	10.0	1000	10.0	0.98	98.0	50	95	20	50	5

PHOTOVOLTAIC (PV) MODULE SPECIFICATIONS											
Model	Manufacturer	Max Power (W)	Max Voltage (V)	Max Current (A)	Max Power Factor	Max Efficiency (%)	Max Temperature (°C)	Max Humidity (%)	Max Wind Speed (m/s)	Max Rainfall (mm/hr)	Max Snow Load (kg/m²)
Model 1	Manufacturer 1	300	600	5.0	0.98	20.0	50	95	20	50	5

AC RECOMMENDED OUTPUT CONDUCTOR SCHEDULE											
Type	Size	Max Voltage (V)	Max Current (A)	Max Power (W)	Max Power Factor	Max Efficiency (%)	Max Temperature (°C)	Max Humidity (%)	Max Wind Speed (m/s)	Max Rainfall (mm/hr)	Max Snow Load (kg/m²)
Model 1	100	1000	10.0	10.0	0.98	98.0	50	95	20	50	5

AC RECOMMENDED CONDUCTOR SCHEDULE											
Type	Size	Max Voltage (V)	Max Current (A)	Max Power (W)	Max Power Factor	Max Efficiency (%)	Max Temperature (°C)	Max Humidity (%)	Max Wind Speed (m/s)	Max Rainfall (mm/hr)	Max Snow Load (kg/m²)
Model 1	100	1000	10.0	10.0	0.98	98.0	50	95	20	50	5

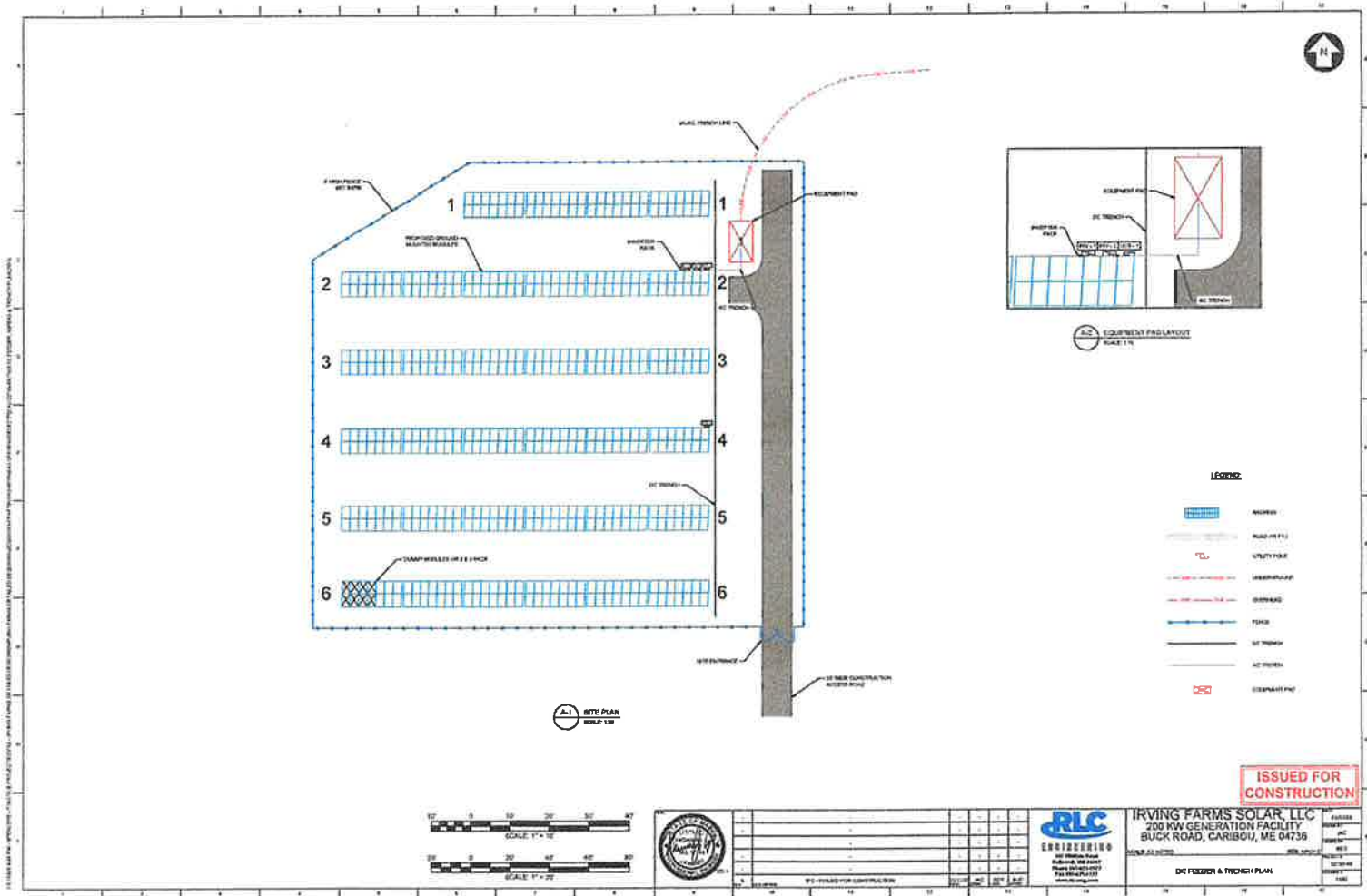
MEDIUM VOLTAGE AC OUTPUT SCHEDULE											
Type	Size	Max Voltage (V)	Max Current (A)	Max Power (W)	Max Power Factor	Max Efficiency (%)	Max Temperature (°C)	Max Humidity (%)	Max Wind Speed (m/s)	Max Rainfall (mm/hr)	Max Snow Load (kg/m²)
Model 1	100	1000	10.0	10.0	0.98	98.0	50	95	20	50	5

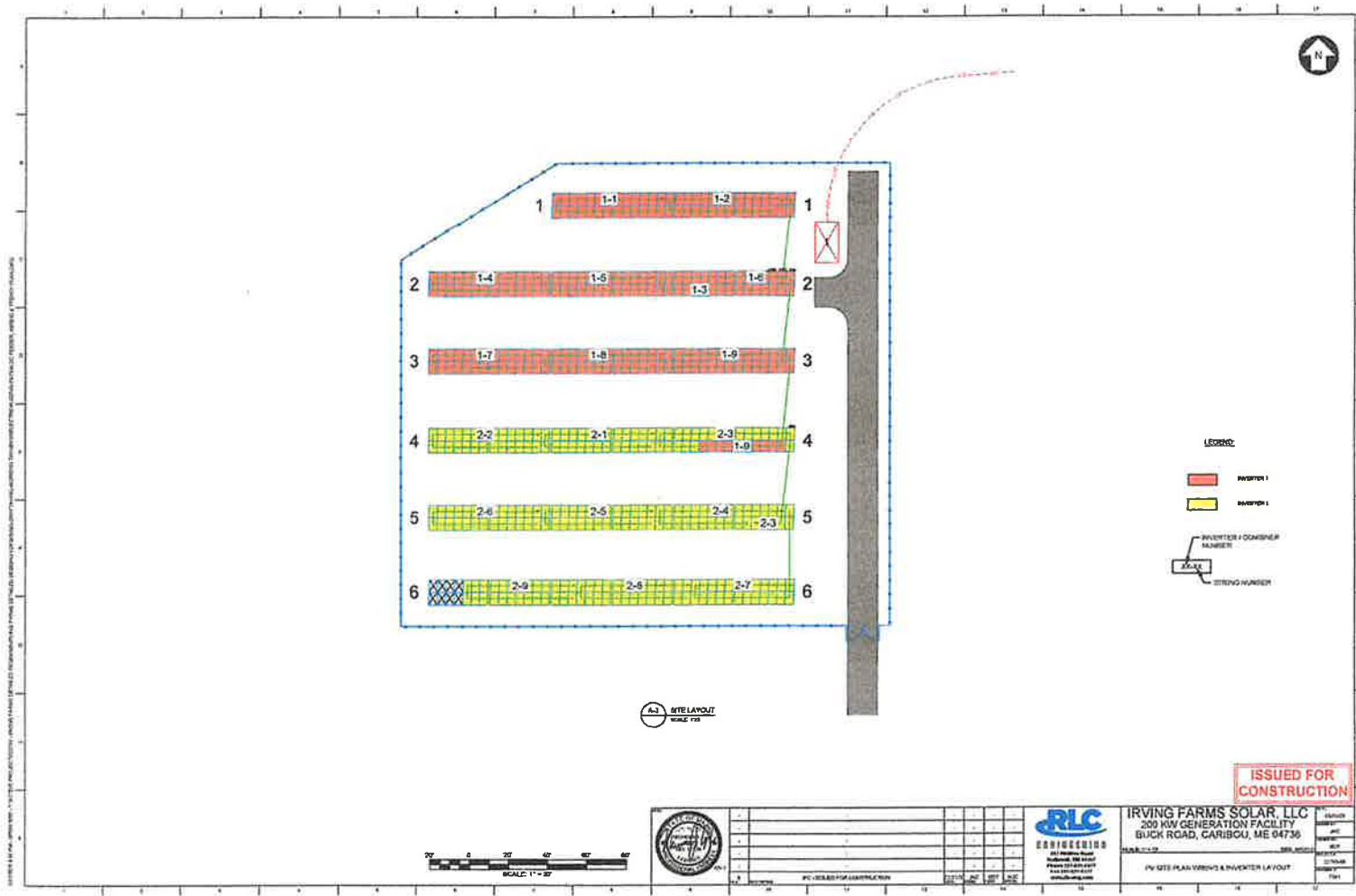
DC Output Wiring Schedule											
Type	Size	Max Voltage (V)	Max Current (A)	Max Power (W)	Max Power Factor	Max Efficiency (%)	Max Temperature (°C)	Max Humidity (%)	Max Wind Speed (m/s)	Max Rainfall (mm/hr)	Max Snow Load (kg/m²)
Model 1	100	1000	10.0	10.0	0.98	98.0	50	95	20	50	5

String Inverter Wiring Schedule											
String	Size	Max Voltage (V)	Max Current (A)	Max Power (W)	Max Power Factor	Max Efficiency (%)	Max Temperature (°C)	Max Humidity (%)	Max Wind Speed (m/s)	Max Rainfall (mm/hr)	Max Snow Load (kg/m²)
String 1	100	1000	10.0	10.0	0.98	98.0	50	95	20	50	5

1. All data shall be subject to the following conditions:
2. All data shall be subject to the following conditions:
3. All data shall be subject to the following conditions:
4. All data shall be subject to the following conditions:
5. All data shall be subject to the following conditions:
6. All data shall be subject to the following conditions:
7. All data shall be subject to the following conditions:
8. All data shall be subject to the following conditions:
9. All data shall be subject to the following conditions:
10. All data shall be subject to the following conditions:

DESIGN TEMPERATURE COEFFICIENTS	
Temperature (°C)	Coefficient
25	0.005
35	0.010
45	0.015
55	0.020
65	0.025
75	0.030
85	0.035
95	0.040
105	0.045
115	0.050
125	0.055
135	0.060
145	0.065
155	0.070
165	0.075
175	0.080
185	0.085
195	0.090
205	0.095
215	0.100
225	0.105
235	0.110
245	0.115
255	0.120
265	0.125
275	0.130
285	0.135
295	0.140
305	0.145
315	0.150
325	0.155
335	0.160
345	0.165
355	0.170
365	0.175
375	0.180
385	0.185
395	0.190
405	0.195
415	0.200
425	0.205
435	0.210
445	0.215
455	0.220
465	0.225
475	0.230
485	0.235
495	0.240
505	0.245
515	0.250
525	0.255
535	0.260
545	0.265
555	0.270
565	0.275
575	0.280
585	0.285
595	0.290
605	0.295
615	0.300
625	0.305
635	0.310
645	0.315
655	0.320
665	0.325
675	0.330
685	0.335
695	0.340
705	0.345
715	0.350
725	0.355
735	0.360
745	0.365
755	0.370
765	0.375
775	0.380
785	0.385
795	0.390
805	0.395
815	0.400
825	0.405
835	0.410
845	0.415
855	0.420
865	0.425
875	0.430
885	0.435
895	0.440
905	0.445
915	0.450
925	0.455
935	0.460
945	0.465
955	0.470
965	0.475
975	0.480
985	0.485
995	0.490
1005	0.495
1015	0.500
1025	0.505
1035	0.510
1045	0.515
1055	0.520
1065	0.525
1075	0.530
1085	0.535
1095	0.540
1105	0.545
1115	0.550
1125	0.555
1135	0.560
1145	0.565
1155	0.570
1165	0.575
1175	0.580
1185	0.585
1195	0.590
1205	0.595
1215	0.600
1225	0.605
1235	0.610
1245	0.615
1255	0.620
1265	0.625
1275	0.630
1285	0.635
1295	0.640
1305	0.645
1315	0.650
1325	0.655
1335	0.660
1345	0.665
1355	0.670
1365	0.675
1375	0.680
1385	0.685
1395	0.690
1405	0.695
1415	0.700
1425	0.705
1435	0.710
1445	0.715
1455	0.720
1465	0.725
1475	0.730
1485	0.735
1495	0.740
1505	0.745
1515	0.750
1525	0.755
1535	0.760
1545	0.765
1555	0.770
1565	0.775
1575	0.780
1585	0.785
1595	0.790
1605	0.795
1615	0.800
1625	0.805
1635	0.810
1645	0.815
1655	0.820
1665	0.825
1675	0.830
1685	0.835
1695	0.840
1705	0.845
1715	0.850
1725	0.855
1735	0.860
1745	0.865
1755	0.870
1765	0.875
1775	0.880
1785	0.885
1795	0.890
1805	0.895
1815	0.900
1825	0.905
1835	0.910
1845	0.915
1855	0.920
1865	0.925
1875	0.930
1885	0.935
1895	0.940
1905	0.945
1915	0.950
1925	0.955
1935	0.960
1945	0.965
1955	0.970
1965	0.975
1975	0.980
1985	0.985
1995	0.990
2005	0.995
2015	1.000
2025	1.005
2035	1.010
2045	1.015
2055	1.020
2065	1.025
2075	1.030
2085	1.035
2095	1.040
2105	1.045
2115	1.050
2125	1.055
2135	1.060
2145	1.065
2155	1.070
2165	1.075
2175	1.080
2185	1.085
2195	1.090
2205	1.095
2215	1.100
2225	1.105
2235	1.110
2245	1.115
2255	1.120
2265	1.125
2275	1.130
2285	1.135
2295	1.140
2305	1.145
2315	1.150
2325	1.155
2335	1.160
2345	1.165
2355	1.170
2365	1.175
2375	1.180
2385	1.185
2395	1.190
2405	1.195
2415	1.200
2425	1.205
2435	1.210
2445	1.215
2455	1.220
2465	1.225
2475	1.230
2485	1.235
2495	1.240
2505	1.245
2515	1.250
2525	1.255
2535	1.260
2545	1.265
2555	1.270
2565	1.275
2575	1.280
2585	1.285
2595	1.290
2605	1.295
2615	1.300
2625	1.305
2635	1.310
2645	1.315
2655	1.320
2665	1.325
2675	1.330
2685	1.335
2695	1.340
2705	1.345
2715	1.350
2725	1.355
2735	1.360
2745	1.365
2755	1.370
2765	1.375
2775	1.380
2785	1.385
2795	1.390
2805	1.395
2815	1.400
2825	1.405
2835	1.410
2845	1.415
2855	1.420
2865	1.425
2875	1.430
2885	1.435
2895	1.440
2905	1.445
2915	1.450
2925	1.455
2935	1.460
2945	1.465
2955	1.470
2965	1.475
2975	1.480
2985	1.485
2995	1.490
3005	1.495
3015	1.500
3025	1.505
3035	1.510
3045	1.515
3055	1.520
3065	1.525
3075	1.530
3085	1.535
3095	1.540
3105	1.545
3115	1.550
3125	1.555
3135	1.560
3145	1.565
3155	1.570
3165	1.575
3175	1.580
3185	1.585
3195	1.590
3205	1.595
3215	1.600
3225	1.605
3235	1.610
3245	1.615
3255	1.620
3265	1.625
3275	1.630
3285	1.635
3295	1.640
3305	1.645
3315	1.650
3325	1.655
3335	1.660
3345	1.665
3355	1.670
3365	1.675
3375	1.680
3385	1.685
3395	1.690
3405	1.695
3415	1.700
3425	1.705
3435	1.710
3445	1.715
3455	1.720
3465	1.725
3475	1.730
3485	1.735
3495	1.740
3505	1.745
3515	1.750
3525	1.755
3535	1.760
3545	1.765
3555	1.770
3565	1.775
3575	1.780
3585	1.785
3595	1.790
3605	1.795
3615	1.800
3625	1.805
3635	1.810
3645	1.815
3655	1.820
3665	1.825
3675	1.830
3685	1.835
3695	1.840
3705	1.845
3715	1.850
3725	1.855
3735	1.860
3745	1.865
3755	1.870
3765	1.875
3775	1.880
3785	1.885
3795	1.890
3805	1.895
3815	1.900
3825	1.905
3835	1.910
3845	1.915
3855	1.920
3865	1.925
3875	1.930
3885	1.935
3895	1.940
3905	1.945
3915	1.950
3925	1.955
3935	1.960
3945	1.965
3955	1.970
3965	1.975
3975	1.980
3985	1.985
3995	1.990
4005	1.995
4015	2.000
4025	2.005
4035	2.010
4045	2.015
4055	2.020
4065	2.025
4075	2.030
4085	2.035
4095	2.040
4105	2.045
4115	2.050
4125	2.055
4135	2.060
4145	2.065
4155	2.070
4165	2.075
4175	2.080
4185	2.085
4195	2.090
4205	2.095
4215	2.100
4225	2.105
4235	2.110
4245	2.115
4255	2.120
4265	2.125
4275	2.130
4285	2.135
4295	2.140
4305	2.145
4315	2.150
4325	2.155
4335	2.160
4345	2.165
4355	2.170
4365	2.175
4375	2.180
4385	2.185
4395	2.190
4405	2.195
4415	2.200
4425	2.205
4435	2.210
4445	2.215
4455	2.220
4465	2.225
4475	2.230
4485	2.235
4495	2.240
4505	2.245
4515	2.250
4525	2.255
4535	2.260
4545	2.265
4555	2.270
4565	2.275
4575	2.280
4585	2.285
4595	2.290
4605	2.295
4615	2.300
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4635	2.310
4645	2.315
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4685	2.335
4695	2.340
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4715	2.350
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4755	2.370
4765	2.375
4775	2.380
4785	2.385
4795	2.390
4805	2.395
4815	2.400
4825	2.405
4835	2.410
4845	2.415
4855	2.420
4865	2.425
4875	2.430
4885	2.435
4895	2.440
4905	2.445
4915	2.450
4925	2.455
4935	2.460
4945	2.465
4955	2.470
4965	2.475
4975	2.480
4985	2.485
4995	2.490
5005	2.495
5015	2.500
5025	2.505
5035	2.510
5045	2.515
5055	2.520
5065	2.525
5075	2.530
5085	2.535
5095	2.540
5105	2.545
5115	2.550
5125	2.555
5135	2.560
5145	2.565
5155	2.570
5165	2.575
5175	2.580
5185	2.585
5195	2.590
5205	2.595
5215	2.600
5225	2.605
5235	2.610
5245	2.615
5255	2.620
5265	2.625
5275	2.630
5285	2.635
5295	2.640
5305	2.645
5315	2.650
5325	2.655
5335	2.660
5345	2.665
5355	2.670
5365	2.675
5375	2.680
5385	2.685
5395	2.690
5405	2.695
5415	2.700
5425	2.705
5	





[illegible]

ISSUED FOR
CONSTRUCTION

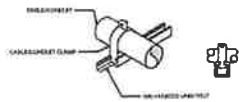
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IRVING FARMS SOLAR, LLC
200 KW GENERATION FACILITY
BUCK ROAD, CARIBOU, ME 04735

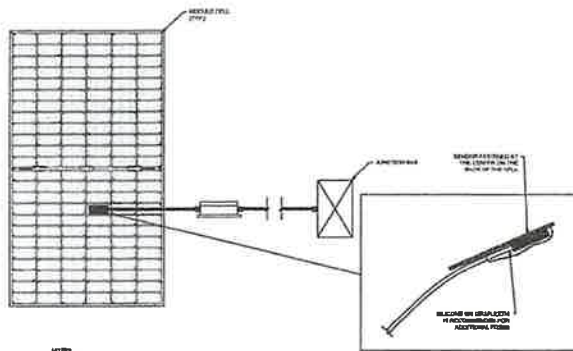
CONSTRUCTION DETAILS
SHEET 2 OF 4

CONSTRUCTION DETAILS
SHEET 2 OF 4

ISSUED FOR
CONSTRUCTION

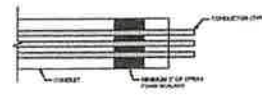


C.A. CONDUIT TO UNITS ATTACHMENT DETAIL
SCALE: 1/8" = 1'-0"

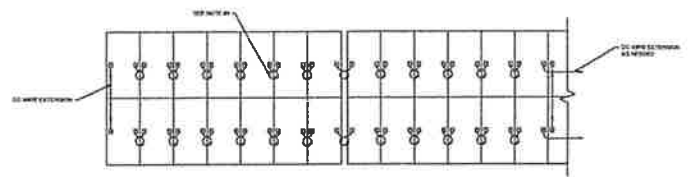


NOTES:
1. THE SENSOR SHALL BE PLACED ON A MODULE WITH AT LEAST 1 MODULE FROM THE EDGE OF THE ARRAY ON ALL SIDES IF POSSIBLE.
2. CABLES SHALL BE SECURED TO THE RAILS AT REGULAR INTERVALS.

C.A. MODULE TEMPERATURE SENSOR INSTALLATION
SCALE: 1/8" = 1'-0"



C.A. CONDUIT SEALING DETAIL
SCALE: 1/8" = 1'-0"



NOTES:
1. CABLES SHALL BE SECURED TO THE RAILS AT REGULAR INTERVALS.

C.A. 2x4 RAIL STRING BRACKET DETAIL
SCALE: 1/8" = 1'-0"

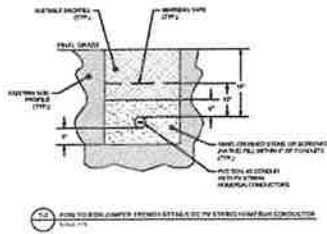
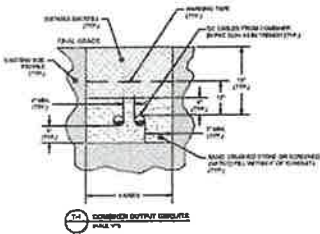


PROJECT NO.	IRVING FARMS SOLAR, LLC
DATE	08/11/2015
DESIGNED BY	RLC
CHECKED BY	RLC
APPROVED BY	RLC
SCALE	AS SHOWN
PROJECT LOCATION	IRVING FARMS SOLAR, LLC
PROJECT DESCRIPTION	200 KW GENERATION FACILITY
PROJECT ADDRESS	BUCK ROAD, CARBOU, ME 04736

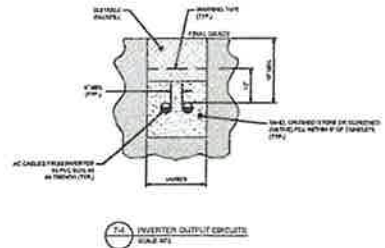
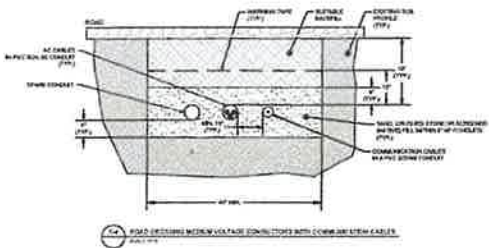
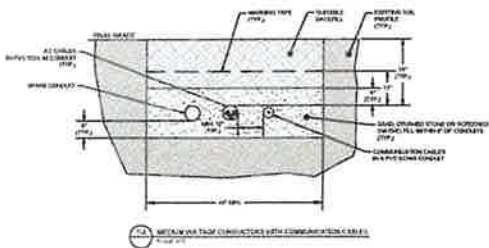


IRVING FARMS SOLAR, LLC
200 KW GENERATION FACILITY
BUCK ROAD, CARBOU, ME 04736
CONSTRUCTION DETAILS
SHEET 3 OF 4

ISSUED FOR CONSTRUCTION



1. ALL AC CONDUITS TO BE RUN AT A MINIMUM OF 1\"/>



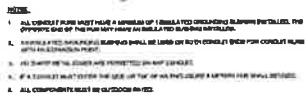
NO.	DESCRIPTION	DATE	BY	CHECKED	APPROVED
1	ISSUED FOR CONSTRUCTION	11/11/2011	RLC	RLC	RLC



IRVING FARMS SOLAR, LLC
 200 KW GENERATION FACILITY
 BUCK ROAD, CARIBOU, ME 04736

CONSTRUCTION DETAILS
 SHEET 4 OF 4

ISSUED FOR CONSTRUCTION



~~Q-2 MEDIUM VOLTAGE CABLE SHIELD ON CABLE
WALL HTL~~



042 FIBERGLASS INSTALLATION DETAILS
FIBERGLASS



© G.T. CORPORATION EXPANDED DITAB
POM, NY

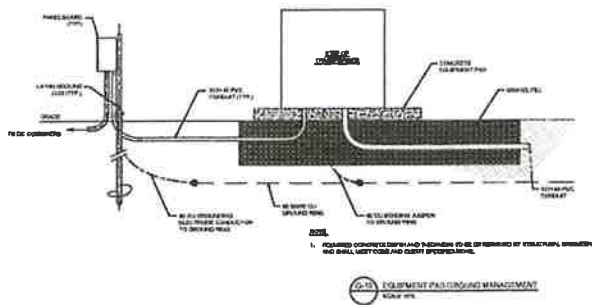
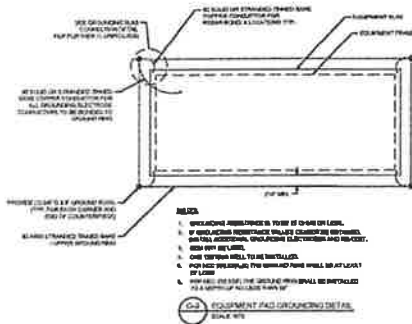
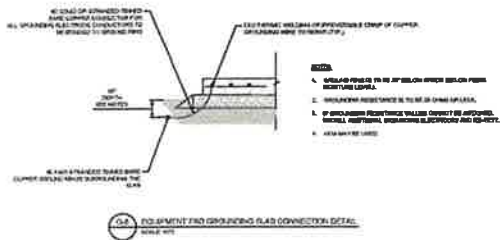
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RLC
ENGINEERING
201 Madison Road
Fullerton, CA 92632
Phone 714/441-0470
Fax 714/441-2777
www.rlceng.com


IRVING FARMS SOLAR, LLC
200 KW GENERATION FACILITY
BUCK ROAD, CARIBOU, ME 04736

GROUNDING DETAILS
SHEET 1 OF 3

ISSUED FOR
CONSTRUCTION



NO.	DESCRIPTION	QTY	UNIT	PRICE	TOTAL
1
2
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IRVING FARMS SOLAR, LLC
200 KW GENERATION FACILITY
BUCK ROAD, CARIBOU, ME 04736

ISSUED FOR CONSTRUCTION

DATE: 10/1/2014
SCALE: AS SHOWN
SHEET: 2 OF 3



6-11 MACHINE TO CONVERT DIPLOMATIC
FILE NO.



6.12 ABOVE GRADE RACK TO RACK CONNECTIONS
RACK INT

RLC
ENGINEERING
(91) Wilshire Blvd
Beverly Hills, CA 90210
Phone (310) 475-6971
Fax (310) 475-6177
www.rlceng.com


DATE	TIME	NEW	USED
10/10/19	10:00	100	100
10/11/19	10:00	100	100
10/12/19	10:00	100	100
10/13/19	10:00	100	100
10/14/19	10:00	100	100
10/15/19	10:00	100	100
10/16/19	10:00	100	100
10/17/19	10:00	100	100
10/18/19	10:00	100	100
10/19/19	10:00	100	100
10/20/19	10:00	100	100
10/21/19	10:00	100	100
10/22/19	10:00	100	100
10/23/19	10:00	100	100
10/24/19	10:00	100	100
10/25/19	10:00	100	100
10/26/19	10:00	100	100
10/27/19	10:00	100	100
10/28/19	10:00	100	100
10/29/19	10:00	100	100
10/30/19	10:00	100	100
10/31/19	10:00	100	100
11/01/19	10:00	100	100
11/02/19	10:00	100	100
11/03/19	10:00	100	100
11/04/19	10:00	100	100
11/05/19	10:00	100	100
11/06/19	10:00	100	100
11/07/19	10:00	100	100
11/08/19	10:00	100	100
11/09/19	10:00	100	100
11/10/19	10:00	100	100
11/11/19	10:00	100	100
11/12/19	10:00	100	100
11/13/19	10:00	100	100
11/14/19	10:00	100	100
11/15/19	10:00	100	100
11/16/19	10:00	100	100
11/17/19	10:00	100	100
11/18/19	10:00	100	100
11/19/19	10:00	100	100
11/20/19	10:00	100	100
11/21/19	10:00	100	100
11/22/19	10:00	100	100
11/23/19	10:00	100	100
11/24/19	10:00	100	100
11/25/19	10:00	100	100
11/26/19	10:00	100	100
11/27/19	10:00	100	100
11/28/19	10:00	100	100
11/29/19	10:00	100	100
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12/05/19	10:00	100	100
12/06/19	10:00	100	100
12/07/19	10:00	100	100
12/08/19	10:00	100	100
12/09/19	10:00	100	100
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12/14/19	10:00	100	100
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12/20/19	10:00	100	100
12/21/19	10:00	100	100
12/22/19	10:00	100	100
12/23/19	10:00	100	100
12/24/19	10:00	100	100
12/25/19	10:00	100	100
12/26/19	10:00	100	100
12/27/19	10:00	100	100
12/28/19	10:00	100	100
12/29/19	10:00	100	100

ENCLOSING DETAILS
SHEET 2 OF 2

ISSUED FOR
CONSTRUCTION


NAME	CHAIYONG
AGE	40
SEX	MALE
RELIGION	BUDDHISM
EDUCATION	GRADUATE
PROFESSION	TEACHER

UNLIMITED SHALL BE 12" X 18"



DANGER

HIGH VOLTAGE KEEP OUT



AUTHORIZED PERSONNEL ONLY

TO BE POSTED AT EACH GATE AND ENTRY POINT, ALONG WITH PERMITS TO ENTER

UNLIMITED SHALL BE 12" X 18"



WARNING

PV POWER SOURCE
TURN OFF PHOTOVOLTAIC
AC DISCONNECT PRIOR TO
WORKING INSIDE ENCLOSURE

TO BE POSTED AT EACH PV ARRAY

GENERAL NOTES:

1. LABELS AND WARNING SHALL BE APPLIED TO ALL APPROPRIATE COMPONENTS IN ACCORDANCE WITH NFPA 704, 705, AND IEEE 2004-2011.
2. LABELS AND WARNING SHALL BE PERMANENTLY APPLIED BY STAMPING OR ENGRAVING TO THE APPROPRIATE EQUIPMENT ENCLOSURES. LABELS TO BE APPLIED TO THE EQUIPMENT SHALL BE OF SUFFICIENT DURABILITY TO WITHSTAND THE ENVIRONMENTAL CONDITIONS IN WHICH THEY ARE INSTALLED.
3. ALL LABELS AND WARNING SHALL BE ON LABELS FOR LABELS, DISCONNECTS, AND SWITCHES. THE LABELS SHALL BE DURABLE ON THE PV SYSTEMS. REPLACE LABELS WHEN THEY ARE DAMAGED OR REMOVED.
4. ALL LABELS SHALL BE DURABLE ON THE PV SYSTEMS. REPLACE LABELS WHEN THEY ARE DAMAGED OR REMOVED.


UNLIMITED SHALL BE 12" X 18"

DAS-1

COMMUNICATIONS ENCLOSURE
DATA ACQUISITION SYSTEM

TO BE POSTED AT EACH GATE AND ENTRY POINT, ALONG WITH PERMITS TO ENTER

UNLIMITED SHALL BE 12" X 18"



WARNING

ELECTRIC SHOCK HAZARD

IF A GROUND FAULT IS INDICATED NORMALLY
GROUNDED CONDUCTORS MAY BE
UNGROUND AND ENERGIZED

TO BE POSTED AT EACH GATE AND ENTRY POINT, ALONG WITH PERMITS TO ENTER

UNLIMITED SHALL BE 12" X 18"

INVERTER-X

100 KW - 100 KVA PV INVERTER
INTEGRAL AC & DC DISCONNECT

MAX. AC OUTPUT CURRENT: 90 A
NOMINAL AC VOLTAGE: 600 V

TO BE POSTED AT EACH GATE AND ENTRY POINT, ALONG WITH PERMITS TO ENTER

UNLIMITED SHALL BE 12" X 18"



CAUTION

POWER TO THIS SERVICE IS
ALSO SUPPLIED FROM ON-SITE
PHOTOVOLTAIC GENERATION

TO BE POSTED AT EACH GATE AND ENTRY POINT, ALONG WITH PERMITS TO ENTER

UNLIMITED SHALL BE 12" X 18"

MEDIUM VOLTAGE TRANSFORMER-1 - 225 KVA

PRIMARY VOLTAGE - 12.47KV
SECONDARY VOLTAGE - 600V

TO BE POSTED AT EACH GATE AND ENTRY POINT, ALONG WITH PERMITS TO ENTER

UNLIMITED SHALL BE 12" X 18"



WARNING

ARC FLASH AND SHOCK HAZARD
APPROPRIATE PPE REQUIRED

DO NOT TOUCH TERMINALS,
TERMINALS ON BOTH THE LINE AND
LOAD SIDES MAY BE ENERGIZED
IN THE OPEN POSITION.


DO NOT OPERATE DISCONNECTS & LINE OPENING DEVICES WITHOUT
APPROPRIATE PPE AND TRAINING. ONLY TRained PERSONNEL
SHALL BE ALLOWED TO OPERATE DISCONNECTS & LINE OPENING DEVICES.
DO NOT OPERATE DISCONNECTS & LINE OPENING DEVICES WITHOUT
APPROPRIATE PPE AND TRAINING. ONLY TRained PERSONNEL
SHALL BE ALLOWED TO OPERATE DISCONNECTS & LINE OPENING DEVICES.

REFER TO DATA FOR ADDITIONAL PPE REQUIREMENTS

DO NOT OPERATE DISCONNECTS & LINE OPENING DEVICES WITHOUT
APPROPRIATE PPE AND TRAINING. ONLY TRained PERSONNEL
SHALL BE ALLOWED TO OPERATE DISCONNECTS & LINE OPENING DEVICES.

TO BE POSTED AT EACH GATE AND ENTRY POINT, ALONG WITH PERMITS TO ENTER

UNLIMITED SHALL BE 12" X 18"



CAUTION

PHOTOVOLTAIC SYSTEM
CIRCUITS ARE BACKFED

TO BE POSTED AT EACH GATE AND ENTRY POINT, ALONG WITH PERMITS TO ENTER

UNLIMITED SHALL BE 12" X 18"




WARNING

MAXIMUM AVAILABLE FAULT CURRENT:
961 SYMMETRICAL RMS AMPERES.

DATE: MARCH 31, 2024

TO BE POSTED AT EACH GATE AND ENTRY POINT, ALONG WITH PERMITS TO ENTER

UNLIMITED SHALL BE 12" X 18"



WARNING

MAXIMUM AVAILABLE FAULT CURRENT:
3,702 SYMMETRICAL RMS AMPERES.

DATE: MARCH 31, 2024

TO BE POSTED AT EACH GATE AND ENTRY POINT, ALONG WITH PERMITS TO ENTER

UNLIMITED SHALL BE 12" X 18"

RELAY-1

SEL-751 RELAY CABINET WITH LV POTENTIAL
TRANSFORMERS

TO BE POSTED AT EACH GATE AND ENTRY POINT, ALONG WITH PERMITS TO ENTER



NO.	DESCRIPTION	DATE	BY
1	DESIGNED FOR CONSTRUCTION	03/21/24	J. J. J.



IRVING FARMS SOLAR, LLC
200 KW GENERATION FACILITY
BUCK ROAD, CARBOUR, ME 04735

DESIGNED BY: J. J. J.
DATE: 03/21/24

ISSUED FOR CONSTRUCTION

DATE: 03/21/24

NEW

CanadianSolar

BiHiKu7
BIFACIAL MONO PERC
640 W - 665 W
CSTN 640 [643] [650] [655] M40 [603] M8-AG

Key Features:

- Maximum power up to 665 W
- Maximum efficiency up to 21.6 %
- Up to 5.5 times L2/L3
- Up to 14.5 times typical life span
- Comprehensive LID/LIGHT degradation warranty, up to 30-year degradation
- Comprehensive performance warranty, up to 30-year performance
- Lowest shading tolerance

Key Features:

- Up to 5.5 times L2/L3
- Up to 14.5 times typical life span
- Comprehensive LID/LIGHT degradation warranty, up to 30-year degradation
- Comprehensive performance warranty, up to 30-year performance
- Lowest shading tolerance

Key Features:

- Up to 5.5 times L2/L3
- Up to 14.5 times typical life span
- Comprehensive LID/LIGHT degradation warranty, up to 30-year degradation
- Comprehensive performance warranty, up to 30-year performance
- Lowest shading tolerance

Performance Characteristics

Electrical Characteristics

Parameter	640 W	643 W	650 W	655 W	M40	M8-AG
Maximum Power (P _{max})	640 W	643 W	650 W	655 W	640 W	640 W
Open Circuit Voltage (V _{oc})	41.5 V	41.5 V	41.5 V	41.5 V	41.5 V	41.5 V
Short Circuit Current (I _{sc})	15.5 A	15.5 A	15.5 A	15.5 A	15.5 A	15.5 A
Maximum Power Point Voltage (V _{mp})	33.5 V	33.5 V	33.5 V	33.5 V	33.5 V	33.5 V
Maximum Power Point Current (I _{mp})	10.5 A	10.5 A	10.5 A	10.5 A	10.5 A	10.5 A
Temperature Coefficient of P _{max} (γ _{Pmax})	-0.45 %/°C	-0.45 %/°C	-0.45 %/°C	-0.45 %/°C	-0.45 %/°C	-0.45 %/°C
Temperature Coefficient of V _{oc} (γ _{Voc})	-0.35 %/°C	-0.35 %/°C	-0.35 %/°C	-0.35 %/°C	-0.35 %/°C	-0.35 %/°C
Temperature Coefficient of I _{sc} (γ _{Isc})	0.05 %/°C	0.05 %/°C	0.05 %/°C	0.05 %/°C	0.05 %/°C	0.05 %/°C

Mechanical Characteristics

Parameter	Value
Module Dimensions (mm)	1660 x 992 x 35
Weight (kg)	18.5
Number of Cells	144
Cell Size (mm)	156.75 x 156.75
Interdigitated Back Contact (IBC)	Yes
Anti-Reflection Coating (ARC)	Yes
Encapsulation Material	EVA
Frame Material	Aluminum
Back Sheet Material	Polymer

ISSUED FOR CONSTRUCTION

IRVING FARMS SOLAR, LLC
200 KW GENERATION FACILITY
BUCK ROAD, CARIBOU, ME 04736

RLC
CONSTRUCTION
200 Main Street
Caribou, ME 04736
Phone: (207) 453-1234
Fax: (207) 453-1235
www.rlc-construction.com

DATA SHEET
SHEET 1 OF 2

REVISIONS

NO.	DESCRIPTION	DATE
1	ISSUED FOR CONSTRUCTION	10/15/2023

