

## 1. Introduction

From November 2022 to August 2023, the AESO conducted a Participant Involvement Program (PIP) to assist in preparing for the *Homestead Solar Project Connection*. The AESO required the Market Participant, KEC Homestead Solar GP Corp. (KEC) to assist the AESO in providing notification as part of the AESO's PIP. The AESO also directed the legal owner of transmission facilities (TFO), in this case AltaLink Management Ltd., in its capacity as general partner of AltaLink, L.P., to assist the AESO in providing notification as part of the AESO's PIP.

The AESO's PIP is designed to notify Stakeholders and Indigenous groups in the area where the AESO has reasonably determined that facilities could be installed to implement the AESO's preferred option to respond to the request for system access service.

The AESO's PIP has been conducted in accordance with the requirements of Section 7.1.2, NID12 and Appendix A2 of the current Alberta Utilities Commission (Commission) Rule 007 (AUC Rule 007), effective April 25, 2022.

## 2. Stakeholder Notification

The AESO developed a one-page AESO Need Overview document with the purpose of notifying Stakeholders of the following items:

- a description of the need for development;
- a description of the AESO's preferred option to respond to the system access service request;
- identification of the general area where facilities could be installed to implement the AESO's preferred option to respond to the system access service request;
- the AESO's contact information, including telephone, email and website, for further information; and
- the AESO's next steps.

A copy of the Need Overview was posted to the AESO website at <https://www.aeso.ca/grid/transmission-projects/homestead-solar-project-connection-2445/> and a notice was published in the AESO Stakeholder Newsletter on November 17, 2022. Copies of the Need Overview posting and the AESO Stakeholder Newsletter notice have been included as Attachments 1 and 2, respectively. The Need Overview was also included with KEC's and the TFO's project-specific information packages that were distributed to Stakeholders, as further described in Section 2.1 and 2.2.

### 2.1 Stakeholders Notified in KEC's PIP

KEC has advised the AESO that its PIP for the approved Homestead Solar Project included notification within 800 meters of the proposed transmission line as recommended by the Commission in Appendix A1 in AUC Rule 007.<sup>1</sup>

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<sup>1</sup> KEC has identified its facility application to be of the type: *Overhead transmission line and new substation development – rural or industrial setting*, as categorized in AUC Rule 007, Appendix A1, Section 5.

KEC notified a total of approximately 39 Stakeholders, of which 27 were classified as private or individual landowners. The other 12 notified Stakeholders are listed below:

- Alberta Environment and Protected Areas
- Alberta Transportation
- AltaLink
- ATCO Gas and Pipelines Ltd.
- Canadian Natural Resources Limited
- FortisAlberta Inc.
- Little Bow Gas Co-op
- Long Term Asset Management Inc.
- Ministry of Culture
- Municipal District of Willow Creek
- NAV Canada
- Transport Canada

Attachment 3 includes KEC's project newsletter, which was included with the AESO Need Overview in KEC's project-specific information package that was distributed to the Stakeholders described above on November 15, 2022.

KEC held an open house on December 8, 2022 in the Town of Claresholm at the Claresholm Community Centre with 21 people in attendance. Information about the AESO and copies of the AESO Need Overview were available at the open house.

KEC's project newsletter included the AESO's contact information, a description of the AESO's role, a reference to the AESO Need Overview, and an invitation to contact KEC, the TFO or the AESO for additional information.

## 2.2 Stakeholders Notified in the TFO's PIP

The TFO has advised the AESO that its PIP for the Proposed AltaLink Development included notification within 200 meters of the existing right of way boundary of 138 kV transmission line 1037L and 100 meters of the proposed fibre optic installation, as recommended by the Commission in Appendix A1 in AUC Rule 007.<sup>2</sup>

The TFO notified a total of approximately 22 Stakeholders, of which 10 were classified as private or individual landowners. The other 12 notified Stakeholders are listed below:

- Alberta Culture and Status of Women
- Alberta Environment and Parks
- Alberta Transportation
- ATCO Gas and Pipelines Ltd.
- Canadian Natural Resources Limited
- Fortis Alberta Inc.
- Kiwetinohk Energy Corp.

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<sup>2</sup> AltaLink has identified its facility application to be of the type: *Minor transmission line replacements within the original right-of-way – rural and industrial; and Installation of fibre optic facilities where a direct and adverse effect may occur*, as categorized in AUC Rule 007, Appendix A1, Section 5.

- Long Term Asset Management Inc.
- MD of Willow Creek No. 26
- NAV Canada
- Telus Communications
- Transport Canada

Attachment 4 includes the TFO's project newsletter, which was included with the AESO Need Overview in the TFO project-specific information package that was distributed to the Stakeholders described above between March 2, 2023 and April 6, 2023. The TFO's project newsletter and the AESO Need Overview were also posted on the TFO's project-specific webpage at <https://www.altalink.ca/projects/view/409/homestead-solar-project-connection-newsletter> on March 2, 2023. The TFO's project newsletter included the AESO's contact information, a description of the AESO's role, a reference to the AESO Need Overview, and an invitation to contact the TFO, KEC or the AESO for additional information.

### 3. Stakeholders Notified by the AESO

The AESO also notified, a market participant that the AESO determined may have an interest in the Homestead Solar Project Connection. The AESO identified that, under certain potential system conditions, Kirkcaldy Solar Energy Partnership may be affected following the connection of the Homestead Solar Project Connection. A Market Participant Notification Letter, which included the Need Overview, was sent to Kirkcaldy Solar Energy Partnership on August 2, 2023.

A generic version of the Market Participant Notification Letter was posted to the AESO website on August 2, 2023 at <https://www.aeso.ca/grid/transmission-projects/homestead-solar-project-connection-2445/>. A copy has been included as Attachment 5.

### 4. Notification of ANAP Consideration

Most recently, the AESO notified Stakeholders of its intention to consider the need for the Homestead Solar Project Connection to be approved under the AESO's Abbreviated Needs Approval Process, (ANAP) by posting a Notification of ANAP Consideration to the AESO website at <https://www.aeso.ca/grid/transmission-projects/homestead-solar-project-connection-2445/> and a publishing notice in the AESO Stakeholder Newsletter on August 16, 2023. Copies of the Notification of ANAP Consideration posting and the AESO Stakeholder Newsletter notice have been included as Attachments 6 and 7, respectively.

### 5. Responding to Questions and Concerns

To ensure that Stakeholders had the opportunity to provide feedback, the AESO provided Stakeholders with AESO contact information, including a dedicated, toll-free telephone line (1-888-866-2959) and a dedicated email address ([stakeholder.relations@aeso.ca](mailto:stakeholder.relations@aeso.ca)). The AESO Need Overview included this contact information, along with the AESO's mailing address (2500, 330 5<sup>th</sup> Ave. SW, Calgary) and website

address ([www.aeso.ca](http://www.aeso.ca)), and a privacy statement that described how the AESO is committed to protecting Stakeholders' privacy.

As directed by the AESO, KEC and the TFO were prepared to direct any Stakeholder questions addressed to the AESO, or questions regarding the AESO Need Overview, to the AESO.

## 6. Questions and Concerns Raised

One Stakeholder that received the AESO's Need Overview raised concerns about the need for development. The AESO responded to the Stakeholder by providing information about the following:

- the AESO's role and mandate in responding to requests to connect to Alberta's transmission system through the AESO's Connection process; and
- the AESO's next steps in the regulatory process, including the approximate timing and content of the AESO's forthcoming Notice of ANAP consideration posting.

Kirkcaldy Solar Energy Partnership also raised a question about the AESO's preferred connection alternatives for the Homestead Solar Project and a second in-flight connection project. The AESO responded by confirming the connection configuration for the Homestead Solar Project and advising that the connection alternative for the other connection project was not yet finalized.

The TFO has advised the AESO that none of the Stakeholders notified by the TFO identified any concerns or objections regarding the AESO's preferred option to respond to the system access service request or the need for development.

Apart from the two inquiries described above, the AESO has not received any indication of concerns or objections about the AESO's preferred option to respond to the system access service request or the need for development.

## 7. List of Attachments

- Attachment 1 – AESO Need Overview (November 2022)
- Attachment 2 – AESO Stakeholder Newsletter Need Overview Notice (November 17, 2022)
- Attachment 3 – MPC Project Newsletter (November 2022)
- Attachment 4 – TFO Project Newsletter (March 2023)
- Attachment 5 – AESO Market Participant Notification Letter (August 2, 2023)
- Attachment 6 – AESO Public Notification of ANAP Consideration Posting (August 2023)
- Attachment 7 – AESO Stakeholder Newsletter Notice of ANAP Consideration (August 16, 2023)



**Attachment 1 – AESO Need Overview (November 2022)**

# Need for the Homestead Solar Project Connection in the Claresholm area

*Kiwetinohk Energy Corp. (Kiwetinohk) has applied to the AESO for transmission system access to connect its approved Homestead Solar Project (Facility) in the Claresholm area. Kiwetinohk's request can be met by the following solution:*

## PROPOSED SOLUTION

- Add one 240 kilovolt (kV) transmission line to connect the Facility to the existing 240 kV transmission line 1037L in a T-tap configuration.
- Add or modify associated equipment as required for the above transmission developments.

## NEXT STEPS

- The AESO intends to apply to the Alberta Utilities Commission (AUC) for approval of the need in mid-2023.
- The AESO's needs identification document (NID) application will be available on the AESO's website at [www.aeso.ca/grid/transmission-projects](http://www.aeso.ca/grid/transmission-projects) at the time of its application to the AUC.

*The following organizations have key roles and responsibilities in providing access to the transmission system:*

## THE AESO

- Must plan the transmission system and enable access to it for generators and other qualified customers.
- Is regulated by the AUC and must apply to the AUC for approval of its NID.

## KIWETINOHK

- Has requested transmission system access to connect the Facility.
- Is responsible for detailed siting and routing, and constructing the new 240 kV transmission line to connect the Facility.
- Must apply to the AUC for approval of its transmission facilities applications.

## ALTALINK

- Is the transmission facility owner in the Claresholm area.
- Is responsible for operating and maintaining the new 240 kV transmission line, and constructing, operating and maintaining the transmission facilities associated with the addition of the new 240 kV transmission line.
- Is regulated by the AUC and must apply to the AUC for approval of its transmission facilities applications.

## WHO IS THE AESO?

The Alberta Electric System Operator (AESO) plans and operates Alberta's electricity grid and wholesale electricity market safely, reliably and in the public interest of all Albertans. We are a not-for-profit organization with no financial interest or investment of any kind in the power industry.

We appreciate your views, both on the need for transmission system development and proposed transmission plans. If you have any questions or comments, please contact us directly.

## CONTACT US

### Alberta Electric System Operator

AESO Stakeholder Relations  
[stakeholder.relations@aeso.ca](mailto:stakeholder.relations@aeso.ca)  
 1-888-866-2959

2500, 330-5th Avenue SW  
 Calgary, AB T2P 0L4  
 Phone: 403-539-2450

[www.aeso.ca](http://www.aeso.ca) | [@theaeso](https://twitter.com/theaeso)

**Attachment 2 – AESO Stakeholder Newsletter Need Overview Notice (November 17, 2022)**

November 17, 2022

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# AESO Stakeholder Newsletter



## **Homestead Solar Project Connection – Need for Transmission Development in the Claresholm area**

Kiwetinohk Energy Corp. (Kiwetinohk) has applied to the AESO for transmission system access to connect its approved Homestead Solar Project (Facility) in the Claresholm area. Kiwetinohk's request can be met by the following solution:

- Add one 240 kilovolt (kV) transmission line to connect the Facility to the existing 240 kV transmission line 1037L in a T-tap configuration.
- Add or modify associated equipment as required for the above transmission developments

The AESO has posted a Need Overview for this project on its website. Please [click here](#) to view the document or visit the AESO website at [www.aeso.ca](http://www.aeso.ca) and follow the path Grid >Transmission-Projects > Homestead Solar Project Connection (2445).

**Attachment 3 – MPC Project Newsletter (November 2022)**

# HOMESTEAD MPC SOLAR PROJECT

NEWSLETTER #1

November 2022



*Stock photo for illustrative purposes.*



**You are receiving this newsletter because you own or have an interest in land near the proposed Homestead MPC Solar transmission line project.**

## Who is Kiwetinohk?

Kiwetinohk is an energy transition company targeting the conversion of renewable energy resources and natural gas into low-emissions power and hydrogen. Kiwetinohk, pronounced Key-Wheat-In-Oh, means “north or northward” in Cree, a widely-spoken Indigenous language in Canada. The name, bestowed upon the company by Indigenous friends, reflects the Canadian values of love for and protection of the natural environment and the need for stakeholder engagement in business.

### What's in this Newsletter:

- Who is Kiwetinohk?
- Project introduction
- Project details
- Routing selection
- Land acquisition
- Providing your input
- Facilities application
- Who is the Alberta Utilities Commission?
- Who is the AESO?
- Who is AltaLink?
- Preliminary schedule
- Open house details
- Contact information

### Inserts:

- Preliminary structure sheet
- Preliminary route maps
- AUC Public Involvement Brochure
- AESO Need Overview



*Stock photo for illustrative purposes.*

# Project introduction

Kiwetinohk Energy Corp. (the Proponent) has applied to the Alberta Electric System Operator (AESO) for transmission system access to connect the AUC approved Homestead Solar Project, which includes the Homestead 1111S substation, to the Alberta electric system. For the Homestead Market Participant Choice (MPC) Solar project (the Project), the Proponent is proposing to construct approximately 13.5 km of new transmission line (known as 1037AL) to connect the approved Homestead 1111S substation to the existing AltaLink Management Ltd. (AltaLink) 240 kV transmission line 1037L in a T-tap configuration. The Proponent is responsible for the design and construction of the new transmission line. Once in service, AltaLink will assume the operation and maintenance of the new line as part of the Alberta Interconnected Electric System (AIES).



*Stock photo for illustrative purposes - typical transmission line*

## Project details

The proposed Project is located southeast of the Town of Claresholm in the Municipal District of Willow Creek. The Project involves constructing approximately 13.5 km of new transmission line to connect the Proponent's approved Homestead 1111S substation, to be located within section 7-12-25 W4M, to the existing AltaLink 240 kV transmission line 1037L, which runs north-south on the east side of the Town of Claresholm. Design is ongoing and further details will be provided as the Project progresses.

The attached route map shows four potential transmission routes. Routes A and C are proposed to run along the quarter line, and Route B, parallel to Township Road 122. Route C1 is a variation of route C. The proposed lines are expected to consist of mostly two pole H-frame wood structures to reduce impact on agricultural operations. Structures are expected to be 18m to 32m in height with typical spans (i.e. distance between structures) from 140m to 250m in length. The structures and line will remain within an easement up to 35m in width located entirely on private land.

For all routes, guyed dead ends or angle structures may require additional easements extending beyond the normal line easement for guy wires and anchors.

## Routing selection

Several factors are considered in an effort to select a route with the least overall impact. Some of the factors considered include: existing land use, environmental effects, agriculture, existing infrastructure, public and interested party feedback, proximity to residences and economic viability.

These potential route options are preliminary and there has been no decision regarding placement of the transmission line. We are looking to consult with those in proximity to the potential transmission line locations to better understand how the land is used and how you may be affected before we prepare our final routing and submission to the Alberta Utilities Commission (AUC) for approval.



## Land acquisition

For all potential routes, the proposed transmission line will be located entirely on private land and will require a right-of-way up to 35m wide, which will be acquired from landowners in the form of an easement agreement. In addition to the easement, temporary areas will be required for workspace and access roads. Landowners will be compensated for the required easement, and any structures on their land.

## Providing your input

The Project is still in the early planning stages and the more information you can provide, the better equipped we are to incorporate feedback into the routing process that will be undertaken. Feedback received will be documented and considered before presenting a preferred and alternate route to the public and then filing an application with the AUC.

We will be reaching out to landowners, residents, and occupants within 100 m of the proposed Project to gather input and address questions or concerns, however we encourage you to contact us by email or phone once you have reviewed this package to discuss the Project. After the consultation process is complete, we will file an application with the AUC. The AUC will review the application through a process in which stakeholders can participate. The AUC will notify stakeholders after the Facilities Application has been submitted. To learn more about the AUC process and how you can become involved, please refer to the brochure included in this package titled public involvement in a proposed utility development.

## Facilities application

A transmission facility owner proposing to build an electric facility must submit an application to the AUC to obtain a permit to construct and a license to operate the facility. The application filed is often referred to as a facilities application. The Proponent expects to file a facilities application in June 2023. The AUC will then review the facilities application and either approve (with or without conditions) or deny the application.

To learn more about the AUC application and review process, please contact:

Alberta Utilities Commission (AUC)

Phone: (780) 427-4903

Toll-Free by dialing 310-000 before the number

Email: [consumer-relations@auc.ab.ca](mailto:consumer-relations@auc.ab.ca)

## Who is the AUC?

The Alberta Utilities Commission (AUC) is a quasi-judicial independent agency established by the Government of Alberta, responsible to ensure that the delivery of Alberta's utility service takes place in a manner that is fair, responsible and in the public interest.

They regulate investor-owned natural gas, electric and water utilities and certain municipally owned electric utilities to ensure that customers receive safe and reliable service at just and reasonable rates. The AUC ensures that electric facilities are built, operated and decommissioned in an efficient and environmentally responsible way. The AUC also provides regulatory oversight of issues related to the development and operation of the wholesale electricity market in Alberta as well as the retail gas and electricity markets in the province. For more information visit [www.auc.ab.ca](http://www.auc.ab.ca) or refer to the enclosed brochure.

## Who is the AESO?

The AESO is an independent, not-for-profit organization responsible for the safe, reliable and economic planning and operation of the provincial transmission grid. For more information about why this project is needed, please refer to the AESO's Need Overview included with this package, or visit [www.aeso.ca](http://www.aeso.ca). If you have any questions or concerns about the need for this project or the proposed transmission development to meet the need you may contact the AESO directly.

You can also make your questions or concerns known to a Kiwetinohk representative who will collect your personal information for the purpose of addressing your questions and/or concerns to the AESO. This process may include disclosure of your personal information to the AESO.

Alberta Electric System Operator (AESO)  
stakeholder.relations@aeso.ca or 1-888-866-2959  
[www.aeso.ca](http://www.aeso.ca)

## Who is AltaLink?

AltaLink is responsible for any modifications to AltaLink's existing 240 kV transmission line 1037L that are also required to connect the Homestead Solar Project, as well as the construction of a telecommunications tower. AltaLink's modifications are separate from the facilities that Kiwetinohk is proposing to construct, and AltaLink will send a separate newsletter detailing their proposed work.

To learn more about the connection to the existing 1037L transmission line owned by AltaLink, please contact:

AltaLink Management Ltd.  
1-877-267-1453 (toll-free) or [stakeholderrelations@altalink.ca](mailto:stakeholderrelations@altalink.ca)

## Preliminary project schedule

Notify Stakeholders ..... November 2022  
Public Consultation ..... Ongoing  
File AUC Application ..... June 2023  
Anticipated AUC Approval ..... Q4 2023  
Construction Start ..... Q4 2023

### Contact us

If you have any questions about the Project, or to arrange a personal consultation, please contact:

Samantha Brown  
SABR Energy Consulting Inc.  
(587) 434-7547  
[sbrown@sabreenergyconsulting.com](mailto:sbrown@sabreenergyconsulting.com)

## COMMUNITY OPEN HOUSE

To learn more about the Project, please  
join us at our community open house:

When: Thursday, December 8, 2022

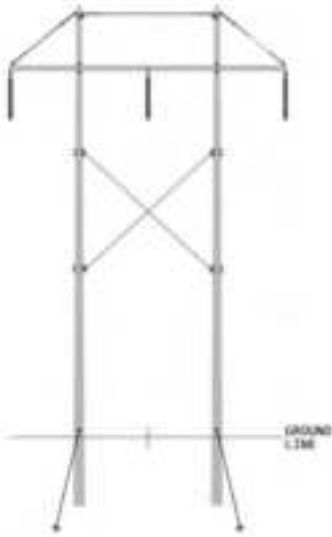
5:00pm to 8:00pm

Where: Claresholm Community Centre  
5920 8 Street W, Claresholm

## Privacy Policy

Kiwetinohk is committed to protecting your privacy. Collected information will be protected under the provincial Personal Information Protection Act. As part of the regulatory process for new generation projects, Kiwetinohk may be required to provide your personal information to the AUC. For more information about how Kiwetinohk protects your personal information, contact us at [lwong@kiwetinohk.com](mailto:lwong@kiwetinohk.com) or via mail at 1700, 250 – 2 Street SW, Calgary, AB T2P 0C1, Attention: Privacy Officer.

# Example Structure Details



## H-Frame 2 - Pole Structure

Height: 19.8 – 32 m (65 – 105 ft)

Width: 12.2 m (40 ft)

Pole Spacing: 6.1 m (20 ft)

Materials: Wood or Steel Poles

Average Span: 140 – 250 m (460 – 820 ft)

Use: Typically installed on quarter line or alignments which are not within a developed road allowance. For use on straight sections of the transmission line.

## H-Frame 2 - Pole Dead-End Structure

Height: 18.3 – 24.4 m (60 – 80 ft)

Width: 12.2 m (40 ft)

Pole Spacing: 6.1 m (20 ft)

Materials: Wood or Steel Poles

Average Span: 180 – 220 m (590 – 720 ft)

Use: Typically installed on quarter line or alignments which are not within a developed road allowance. For use on straight sections of the transmission line as an anti-cascade structure.



## Horizontal Angle 2 - Pole Structure

Height: 19.8 – 25.9 m (65 – 85 ft)

Width: 12.2 m (40 ft)

Pole Spacing: 6 m (19.5 ft)

Materials: Wood or Steel Poles

Average Span: 170 – 240 m (560 – 790 ft)

Use: Typically installed on alignments which are not within a developed road allowance. For use where angles are required on the centerline of the transmission line.

# Example Structure Details

## Horizontal Dead-End 3 - Pole Structure

Height: 16.8 – 27.5 m (55 – 90 ft)

Width: 22.6 m (74.2 ft) excluding guy wires

Pole Spacing: Typically 8 m (26.3 ft); Varies depending on line angle

Guy Wires: Steel Cables extend up to 27.5 m (90 ft) from each pole

Materials: Wood or Steel Poles

Average Span: 35 – 230 m (115 – 755 ft)

Use: Typically installed on quarter line or alignments which are not within a developed road allowance. These structures are typically only used on corners where the transmission line changes direction.



## Horizontal Dead-End 5 - Pole Structure

Height: 18.3 – 27.5 m (55 – 90 ft)

Width: 18 m (59.1 ft) excluding guy wires

Pole Spacing: Typically 4.5 m (14.8 ft)

Guy Wires: Steel Cables extend up to 27.5 m (90 ft) from each pole

Materials: Wood or Steel Poles

Average Span: 35 – 200 m (115 – 657 ft)

Use: Typically installed on quarter line or alignments which are not within a developed road allowance. These structures are typically used on straight sections of the transmission line as an anti-cascade structure or dead-end structure.





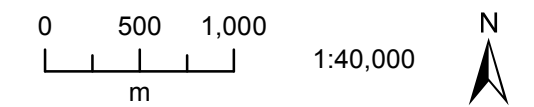
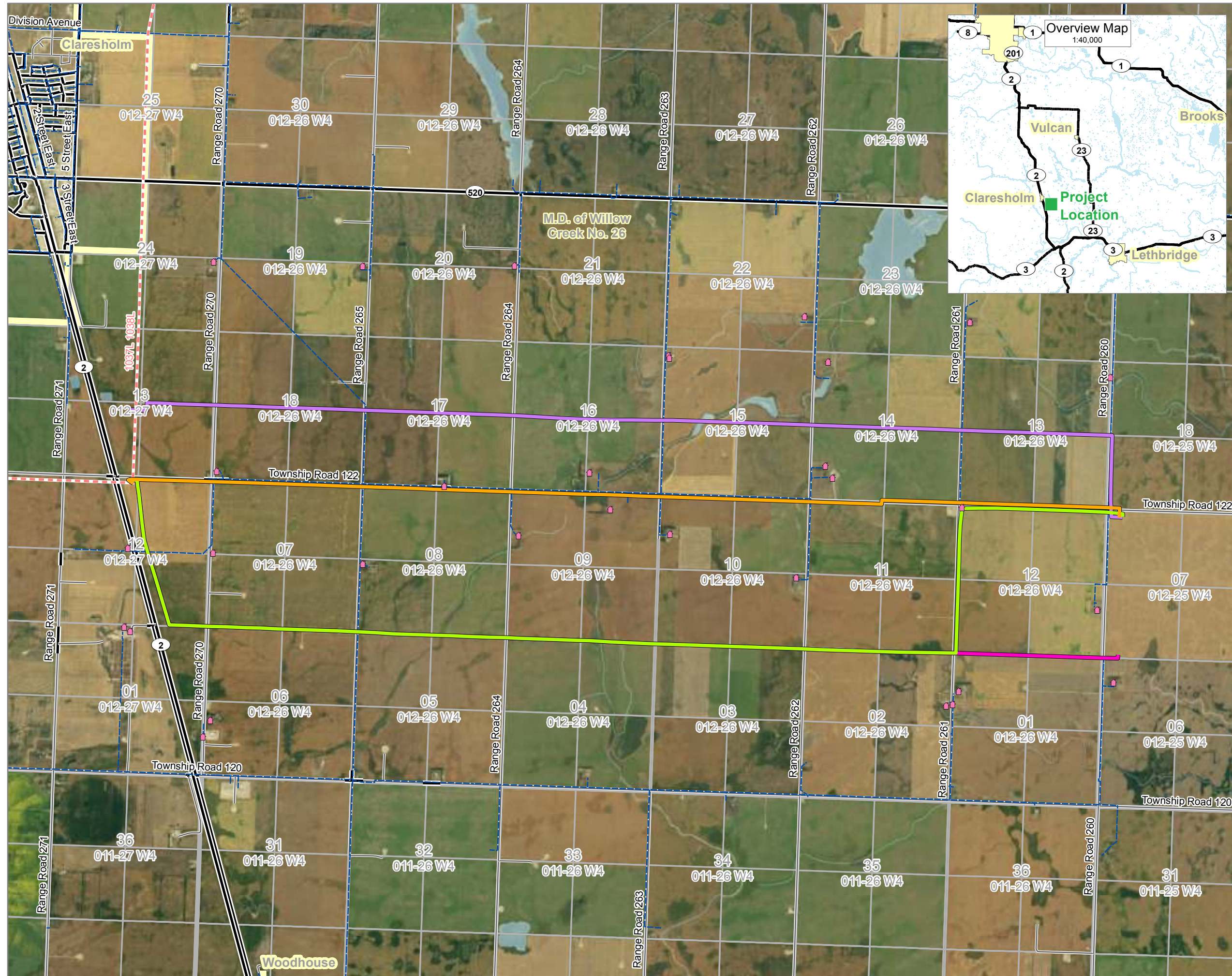


Homestead MPC Solar Project

# Preliminary Interconnection Routes

### Preliminary Route

- Route A
- Route B
- Route C
- Route C1
- Residence Location (unverified)
- Existing 240 kV Transmission Line
- Fortis Distribution Line
- Paved Road
- Unpaved Road
- Watercourse
- Community
- Water Body



Produced For: Kiwetinohk Energy Corp.      Produced By: C. Jackson  
 Map Date: October 22, 2022      Map #: Homestead-004 Rev. 0  
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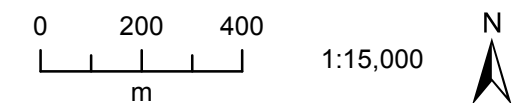
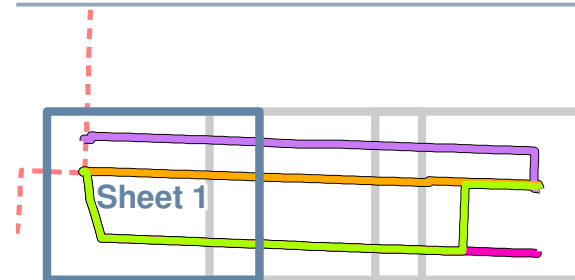


Homestead MPC Solar Project

# Preliminary Interconnection Routes Sheet 1 of 3

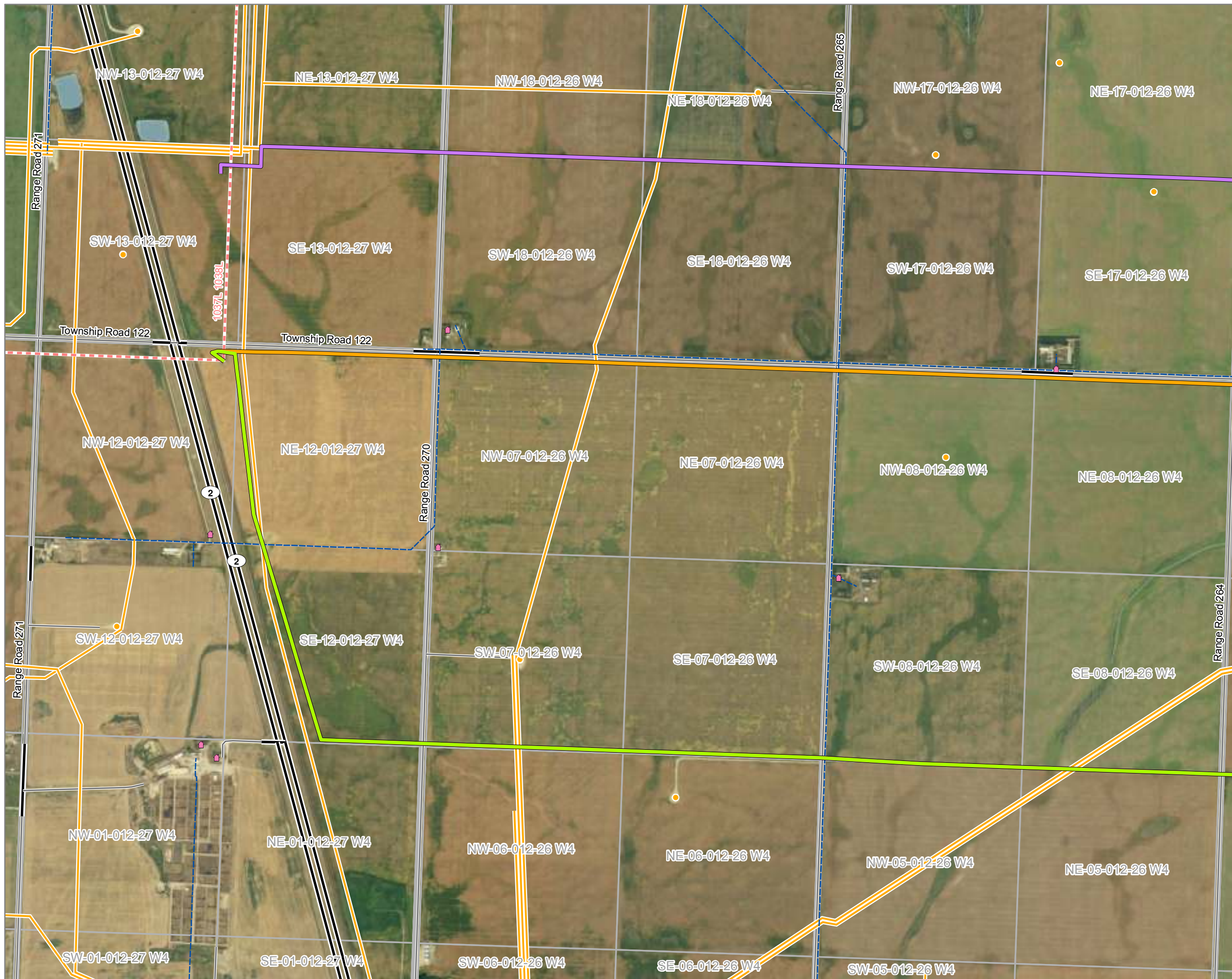
### Preliminary Route

- Route A
- Route B
- Route C
- Route C1
- Oil/Gas Well
- Residence Location (unverified)
- Existing 240 kV Transmission Line
- Fortis Distribution Line
- Paved Road
- Unpaved Road
- Oil/Gas Pipeline
- Watercourse
- Community
- Water Body



Produced For: Kiwetinohk Energy Corp.	Produced By: C. Jackson
Map Date: October 22, 2022	Map #: Homestead-003 Rev. 0

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


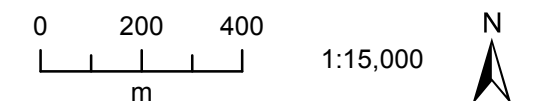
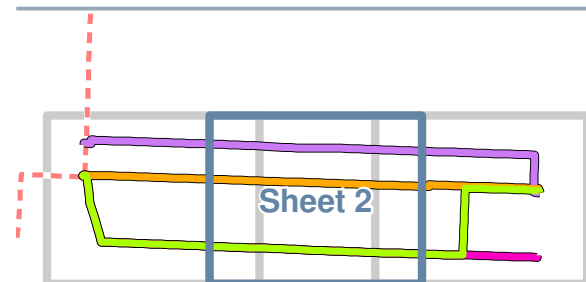


Homestead MPC Solar Project

# Preliminary Interconnection Routes Sheet 2 of 3

### Preliminary Route

-  Route A
-  Route B
-  Route C
-  Route C1
-  Oil/Gas Well
-  Residence Location (unverified)
-  Fortis Distribution Line
-  Paved Road
-  Unpaved Road
-  Oil/Gas Pipeline
-  Watercourse
-  Community
-  Water Body



Produced For: Kiwetinohk Energy Corp.	Produced By: C. Jackson
Map Date: October 22, 2022	Map #: Homestead-003 Rev. 0

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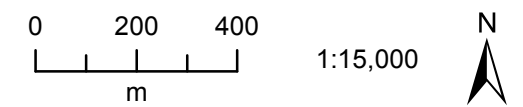
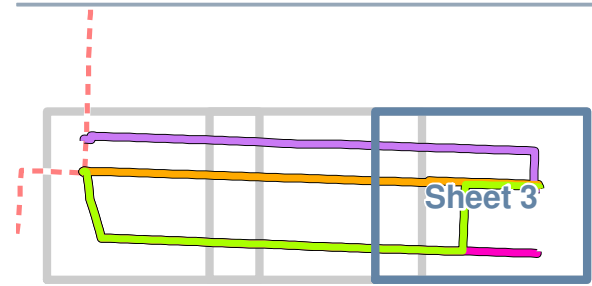
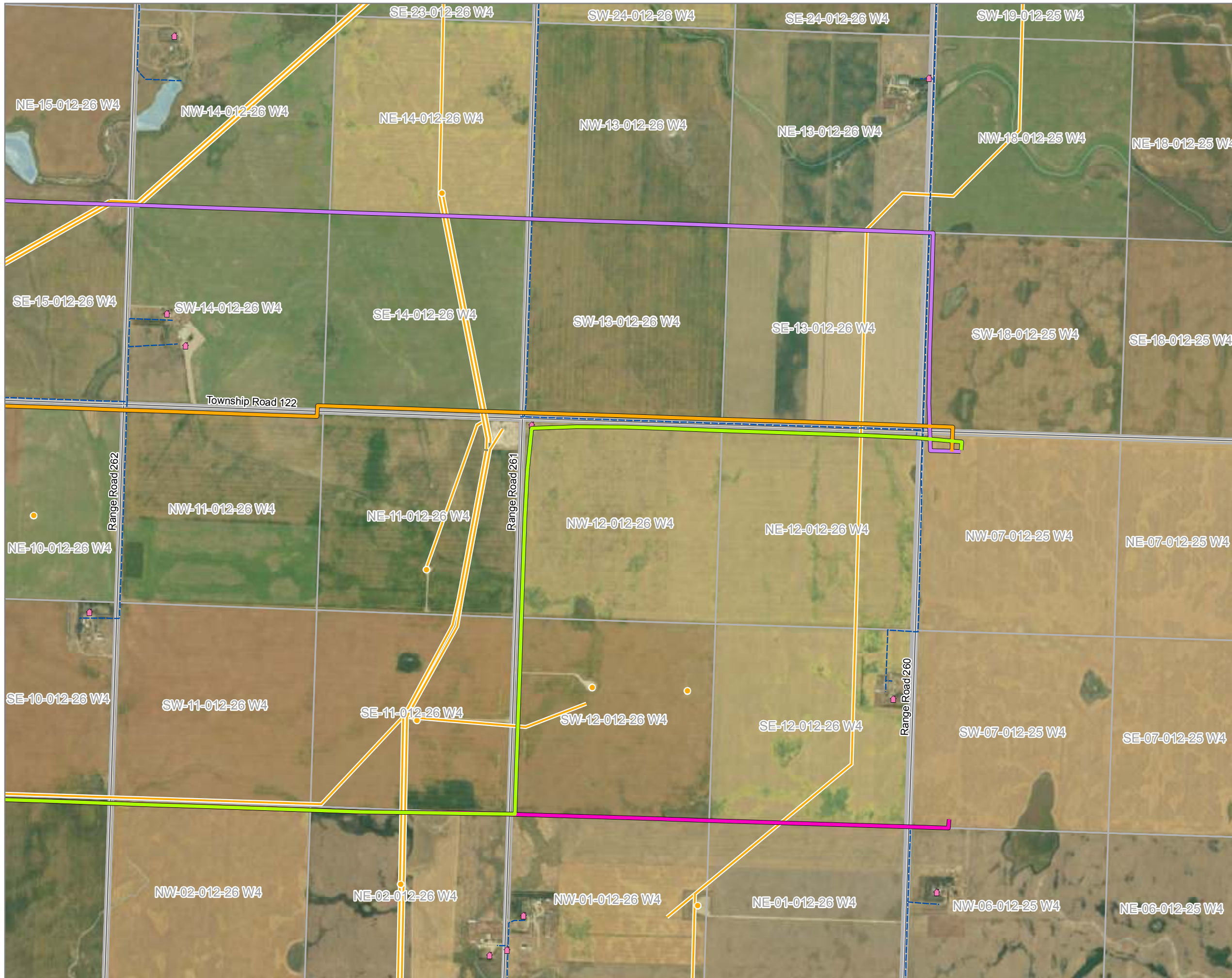


Homestead MPC Solar Project

# Preliminary Interconnection Routes Sheet 3 of 3

### Preliminary Route

- Route A
- Route B
- Route C
- Route C1
- Oil/Gas Well
- ⬮ Residence Location (unverified)
- Fortis Distribution Line
- Unpaved Road
- Oil/Gas Pipeline
- Watercourse
- Community
- Water Body



Produced For: Kiwetinohk Energy Corp.	Produced By: C. Jackson
Map Date: October 22, 2022	Map #: Homestead-003 Rev. 0
<small>This document is created solely for the use of Kiwetinohk Energy Corp. Maskwa Environmental Consulting Ltd. assumes no liability to any other third party for any representations contained in this drawing. Although there is no reason to believe that there are any errors associated with the data used to create this map product, users of this data are advised that errors may be present. Scale of the map is 1:15,000, when printed at 11" by 17".</small>	
<small>Coordinate System: NAD 1983 UTM Zone 12N Path: S:\Client\MHV\Kiwetinohk\Homestead\003_Mapping\20220126_PreliminaryRouteMapbook\</small>	

# Need for the Homestead Solar Project Connection in the Claresholm area

*Kiwetinohk Energy Corp. (Kiwetinohk) has applied to the AESO for transmission system access to connect its approved Homestead Solar Project (Facility) in the Claresholm area. Kiwetinohk's request can be met by the following solution:*

## PROPOSED SOLUTION

- Add one 240 kilovolt (kV) transmission line to connect the Facility to the existing 240 kV transmission line 1037L in a T-tap configuration.
- Add or modify associated equipment as required for the above transmission developments.

## NEXT STEPS

- The AESO intends to apply to the Alberta Utilities Commission (AUC) for approval of the need in mid-2023.
- The AESO's needs identification document (NID) application will be available on the AESO's website at [www.aeso.ca/grid/transmission-projects](http://www.aeso.ca/grid/transmission-projects) at the time of its application to the AUC.

*The following organizations have key roles and responsibilities in providing access to the transmission system:*

## THE AESO

- Must plan the transmission system and enable access to it for generators and other qualified customers.
- Is regulated by the AUC and must apply to the AUC for approval of its NID.

## KIWETINOHK

- Has requested transmission system access to connect the Facility.
- Is responsible for detailed siting and routing, and constructing the new 240 kV transmission line to connect the Facility.
- Must apply to the AUC for approval of its transmission facilities applications.

## ALTALINK

- Is the transmission facility owner in the Claresholm area.
- Is responsible for operating and maintaining the new 240 kV transmission line, and constructing, operating and maintaining the transmission facilities associated with the addition of the new 240 kV transmission line.
- Is regulated by the AUC and must apply to the AUC for approval of its transmission facilities applications.

## WHO IS THE AESO?

The Alberta Electric System Operator (AESO) plans and operates Alberta's electricity grid and wholesale electricity market safely, reliably and in the public interest of all Albertans. We are a not-for-profit organization with no financial interest or investment of any kind in the power industry.

We appreciate your views, both on the need for transmission system development and proposed transmission plans. If you have any questions or comments, please contact us directly.

## CONTACT US

### Alberta Electric System Operator

AESO Stakeholder Relations  
[stakeholder.relations@aeso.ca](mailto:stakeholder.relations@aeso.ca)  
 1-888-866-2959

2500, 330-5th Avenue SW  
 Calgary, AB T2P 0L4  
 Phone: 403-539-2450

[www.aeso.ca](http://www.aeso.ca) | [Facebook](https://www.facebook.com/theaeso) | [Instagram](https://www.instagram.com/theaeso) | [LinkedIn](https://www.linkedin.com/company/theaeso) | [@theaeso](https://twitter.com/theaeso)



## Step 5: Consultation and negotiation (if applicable)\*

The Commission supports ongoing efforts to reach an agreeable outcome for the applicant and all affected parties. The Commission encourages the applicant and those who have filed a statement to continue to attempt to resolve any outstanding issues. If all concerns can be satisfactorily resolved this may eliminate the need for a formal hearing. However, if there continues to be unresolved issues, those matters will typically be addressed at an AUC hearing.

## Step 6: The public hearing process\*

The AUC will issue a notice of hearing if there continues to be legitimate unresolved concerns with the application. The notice of hearing will provide a hearing date and location in addition to a process schedule. The AUC conducts public hearings in its Edmonton and Calgary hearing rooms and, where suitable venues exist, in communities closer to the proposed project area.

The public hearing process allows persons with standing that have unresolved concerns about the application, to express their views directly to a panel of Commission members.

An AUC hearing is a formal, evidence-based, court-like proceeding. The public can attend the hearing in person or listen to hearings online through the AUC's website.

Participants in a hearing can either represent themselves or be represented by a lawyer. In addition, participants may hire experts to assist in preparing and presenting evidence to support their position.

### Cost assistance

A person determined by the Commission to be a local intervener can apply for reimbursement of reasonable costs. Those who hire a lawyer or technical experts must be aware that while reimbursement for the costs of legal and technical assistance is available under AUC Rule 009: *Local Intervener Funding*, recovery of costs is subject to the Commission assessing the value of the

contribution provided by the lawyer and technical experts. People with similar interests and positions are expected to work together to ensure that expenditures for legal or technical assistance are minimized and costs are not duplicated.

## Step 7: The decision

The AUC's goal is to issue its written application decision no more than 90 days after the hearing is complete. The Commission can approve, or deny an application and can also make its approval conditional upon terms or conditions. All AUC decision reports are available to any member of the public on the AUC's website or by obtaining a printed copy from the AUC.

## Step 8: Opportunity to appeal

An applicant or dissatisfied participant may formally ask the Court of Appeal of Alberta for permission to appeal a Commission decision. An application for permission to appeal must be filed within 30 days from the date the decision is issued.

An applicant or dissatisfied participant can also ask the Commission to review its decision. An application to review a Commission decision must be filed within 60 days from the date the decision is issued and satisfy the limited grounds described in AUC Rule 016: *Review and Variance of Commission Decisions*.

## Step 9: Construction, operation and compliance

An applicant that receives approval to build and operate a facility from the Commission must adhere to any conditions that were set out in that approval. If concerns about compliance with approval conditions and post-construction operations cannot be resolved with the applicant, they can be brought to the AUC's attention for consideration. The AUC has significant compliance and enforcement powers for all approved applications. Additional information is available on the AUC website under "Compliance and enforcement."

### \*Opportunity for public involvement

The Alberta Utilities Commission is an independent, quasi-judicial agency of the Government of Alberta that ensures the delivery of Alberta's utility services take place in a manner that is fair, responsible and in the public interest.

## Contact us

Phone: 310-4AUC (310-4282 in Alberta)  
1-833-511-4AUC (1-833-511-4282 outside Alberta)  
Email: [info@auc.ab.ca](mailto:info@auc.ab.ca)

Eau Claire Tower 1400, 600 Third Avenue S.W. Calgary, Alberta T2P 0G5	106 Street Building 10th Floor, 10055 106 Street Edmonton, Alberta T5J 2Y2
---	--

The Alberta Utilities Commission is committed to ensuring that Albertans whose rights may be directly and adversely affected by a utility development project are informed of the application and have the opportunity to have their concerns heard, understood and considered.



**Participating  
in the AUC's  
independent  
review process**

# Application review process

**Step 1: Public consultation prior to application by proponent**

**Step 2: Application filed with the AUC**

**Step 3: Public notice issued by the AUC**

**Step 4: Public submissions to the AUC**

**Step 5: Consultation and negotiation**

**Step 6: The public hearing process**

**Step 7: The decision**

**Step 8: Opportunity to appeal**

**Step 9: Construction, operation and compliance**

[www.auc.ab.ca](http://www.auc.ab.ca)

## The AUC's regulatory role in needs and facility applications and its independent review and hearing process:

The AUC uses an established process, outlined in this brochure, to review social, economic and environmental impacts of facility projects to decide if approval is in the public interest. Approvals from the AUC are required for the construction, operation, alteration and decommissioning of transmission lines and electric substations.

Approvals are required for:

- The need for transmission upgrades.
- The route and location of transmission facilities.
- The siting of power plants, including renewables such as wind and solar more than five megawatts.

Sometimes a needs application is considered together with a facility application in a single hearing; sometimes separate hearings may be held to consider each application.

### Step 1: Public consultation prior to application\*

Prior to filing an application with the AUC for the approval of a proposed utility development, the applicant must engage in a public consultation program in the area of the proposed project, so that concerns may be raised, addressed and, if possible, resolved.

The application guidelines and requirements for facility applications can be found in AUC Rule 007: *Applications for Power Plants, Substations, Transmission Lines, Industrial System Designations and Hydro Developments*, and AUC Rule 020: *Rules Respecting Gas Utility Pipelines*.

Potentially affected parties are strongly encouraged to participate in the initial public consultation, as early involvement in discussions with an applicant may lead to greater influence on project planning and what is submitted to the AUC for approval.

The Alberta Electric System Operator, as the system planner, will notify potentially affected stakeholders of applications on the need for transmission development.

### Step 2: Application filed with the AUC

When the participant involvement requirements have been completed, the applicant files its application with the AUC through a public filing system, called the eFiling System, on the AUC website.

The application is then reviewed to ensure the information required by the Commission is included. If the required information is not provided, the AUC may close the application or request more

information from the applicant. In the application, any issues that were raised during the public consultation and any related amendments to the proposal should be identified. All unresolved objections or concerns identified during the public consultation must be described in the application.

### Step 3: Public notice

The AUC generally issues a notice by mail directly to those who live, operate a business or occupy land in the project area who may be affected by the Commission's decision on the proposed project. The notice for larger facility projects with potentially greater impacts may also be published in local newspapers.

The notice will specify a submission deadline. The information required by this deadline is general in nature as outlined in Step 4. Additional opportunities to provide evidence and additional information will arise after this deadline.

### Step 4: Public submissions to the AUC\*

The AUC review process is referred to as a proceeding. Anyone with unresolved objections or concerns about the application can file a brief written statement with the AUC on the proceeding. The easiest way to file a statement is to fill out the form through the eFiling System found on the AUC website. The statement must include your contact information, where you reside or own property in relation to the proposed facility, your concern or interest in the application, an explanation of your position and what you feel the AUC should decide.

The AUC uses the information it gathers through the forms to decide whether to hold a hearing on the application(s). The Commission must hold a hearing if a person can demonstrate that he or she has rights that may be directly or adversely affected by the Commission's decision on the application. Such a person is said to have standing before the Commission. If the AUC decides to hold a hearing, the AUC will provide further opportunities for participants with standing to understand the application and present their position on the application either in writing or in person.

Subject to some limited exceptions, all information and materials provided as part of an AUC proceeding will become part of the public record and will be available through the eFiling System. The AUC's treatment of some types of information as confidential is rare and only available under limited circumstances to ensure that the AUC's process is open and transparent.

### AUC eFiling System

The eFiling System is the tool that the AUC uses to manage applications and submissions in its proceeding-based review. The eFiling System gives access to all public documents associated with an application and is how to provide your input to the AUC and monitor the related proceeding filings. Those who do not have access to the internet can send submissions, evidence and other material by mail and the AUC will upload the submission on their behalf.

**\*Opportunity for public involvement**

## Appendix A2

### Open House Poster Boards

*Welcome!*



**Homestead MPC Solar Project  
Community Open House  
December 8, 2022**

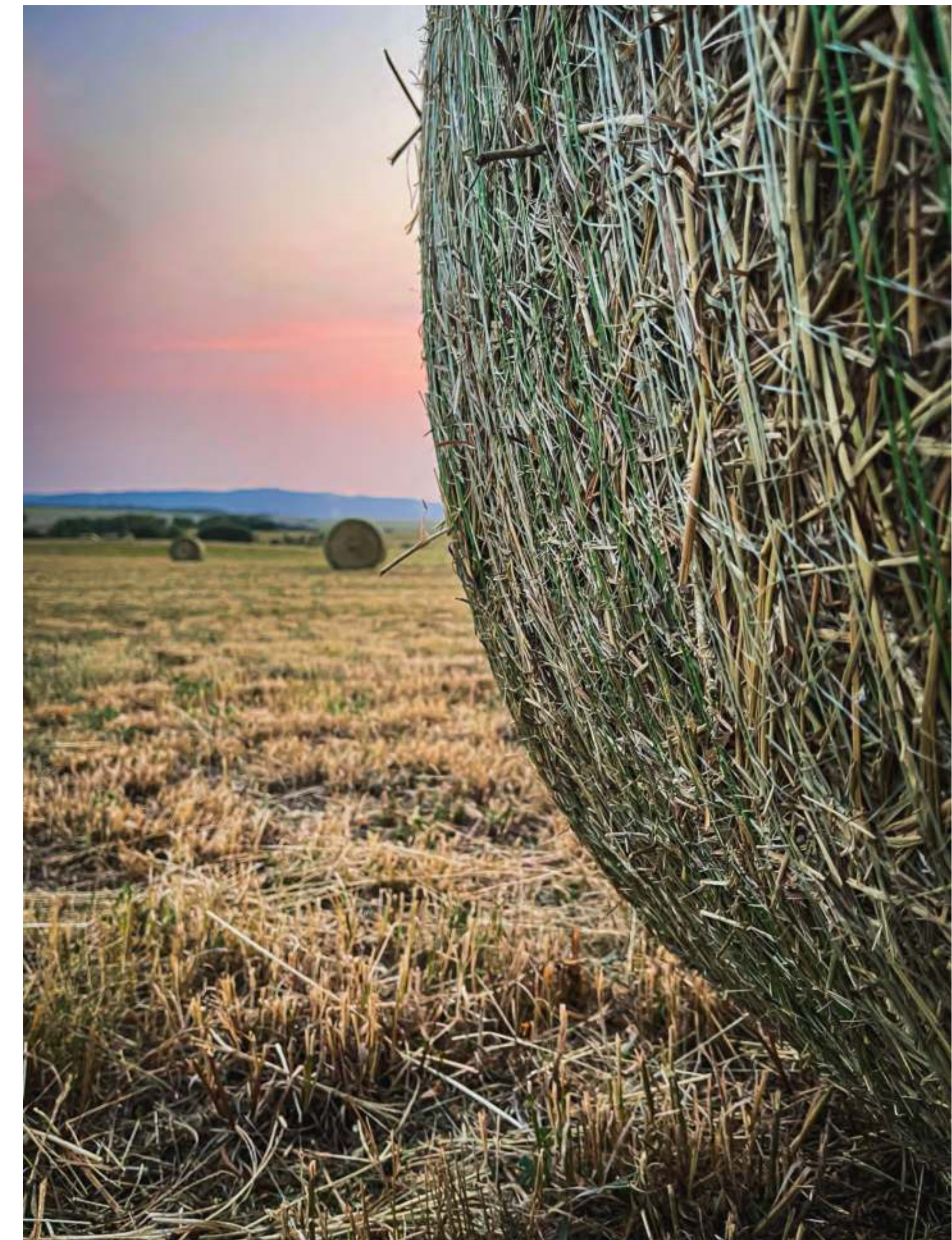
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# Who is Kiwetinohk?

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Kiwetinohk Energy Corp. (KEC) is an energy transition company targeting the conversion of renewable energy resources and natural gas into low-emissions power and hydrogen. Kiwetinohk, pronounced Key-Wheat-In-Oh, means “north” or “northward” in Cree, a widely spoken Indigenous language in Canada. The name, bestowed upon the company by Indigenous friends, reflects the Canadian values of love for and protection of the natural environment and the need for stakeholder engagement in business.

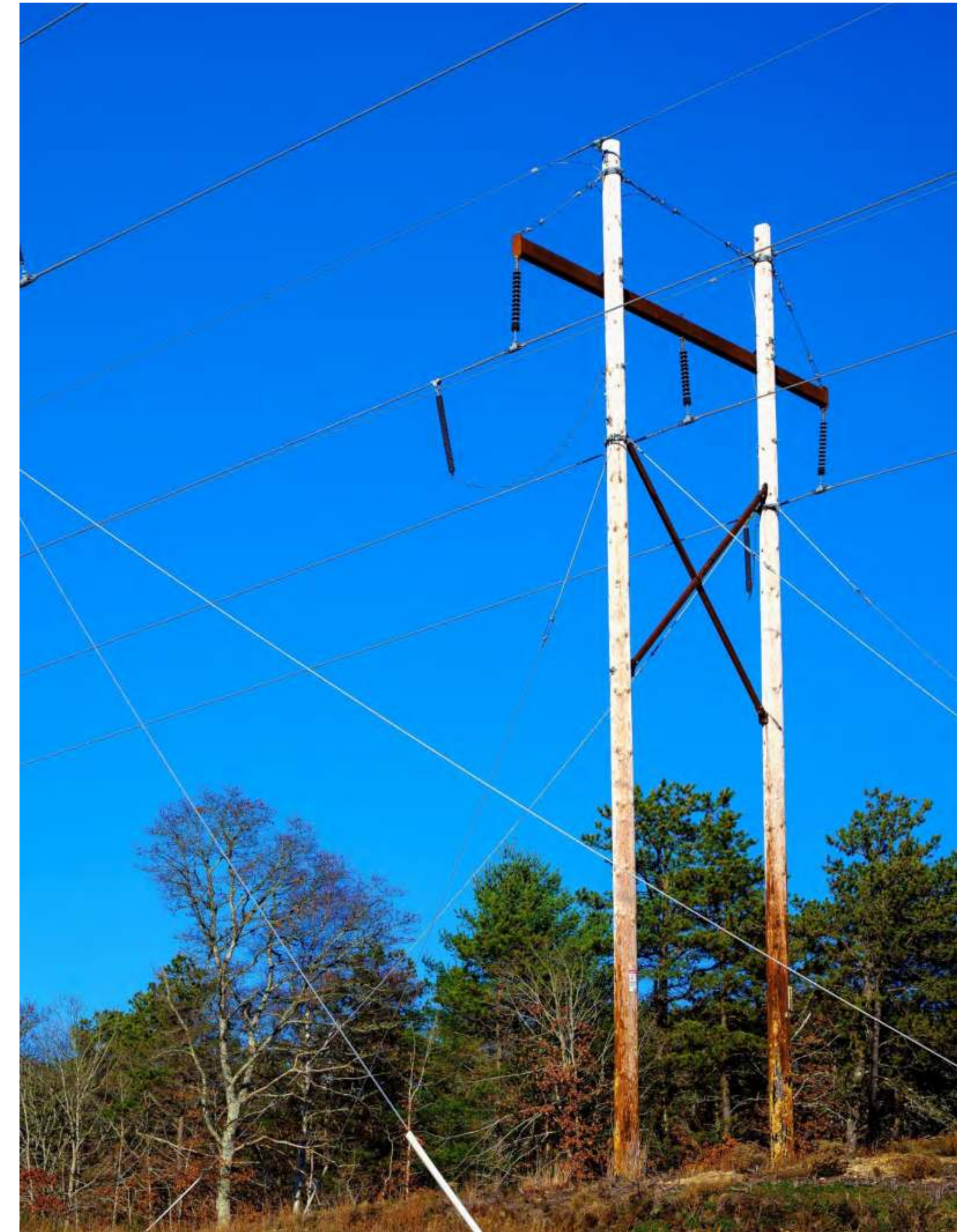


Please note: Image is for illustrative purposes only.  
Source: <https://www.istockphoto.com/photo/hay-bale-in-a-smoky-red-sky-gm1338339719-418959905>



# Project overview

- The proposed transmission line (the Project) is located southeast of the Town of Claresholm in the Municipal District of Willow Creek.
- Kiwetinohk (the Proponent) is proposing to construct approximately 13.5 km of new transmission line (known as 1037AL) to connect the approved Homestead 1111S substation to the existing AltaLink Management Ltd. (AltaLink) 240 kV transmission line 1037L in a T-tap configuration.
- Kiwetinohk is responsible for the design and construction of the new transmission line.
- Once in service, AltaLink will assume the operation and maintenance of the new line as part of the Alberta Interconnected Electric System (AIES).




*Please note: Image is for illustrative purposes only.*

*Source: <https://www.istockphoto.com/photo/two-sets-of-twin-electrical-poles-in-the-forest-against-blue-sky-background-gm1288844206-384685768>*



# Preliminary routes

- Kiwetinohk is considering four potential route options, as shown in the map to the right.
- Routes A and C are proposed to run along the quarter line. Route C1 is a variation of route C.
- Route B is proposed to run parallel to Township Road 122.
- Several factors are considered during route development including: existing land use, environmental effects, agriculture, existing infrastructure, public and interested party feedback, proximity to residences and economic viability.













Homestead MPC Solar Project

### Preliminary Interconnection Routes

**Preliminary Route**

- Route A
- Route B
- Route C
- Route C1

 Residence Location (unverified)  
 Existing 240 kV Transmission Line  
 Fortis Distribution Line  
 Paved Road  
 Unpaved Road  
 Watercourse  
 Community  
 Water Body



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Produced For: Kiwetinohk Energy Corp. Produced By: C. Jackson  
 Map Date: October 22, 2022 Map #: Homestead-004 Rev. 0

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# Preliminary interconnection routes





# Preliminary interconnection routes





Homestead MPC Solar Project

### Preliminary Interconnection Routes


Sheet 2 of 3

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**Preliminary Route**


- Route A
- Route B
- Route C
- Route C1
- Oil/Gas Well
- Residence Location (unverified)
- Fortis Distribution Line
- Paved Road
- Unpaved Road
- Oil/Gas Pipeline
- Watercourse
- Community
- Water Body

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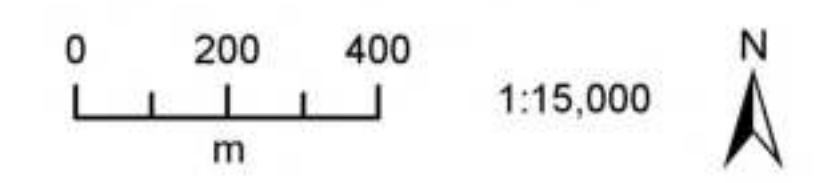


Sheet 2


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HIGH VOLTAGE LTD.



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Produced For: Kiwetinohk Energy Corp.      Produced By: C. Jackson  
 Map Date: October 22, 2022      Map #: Homestead-003 Rev. 0

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Coordinate System: NAD 83 UTM Zone 22N  
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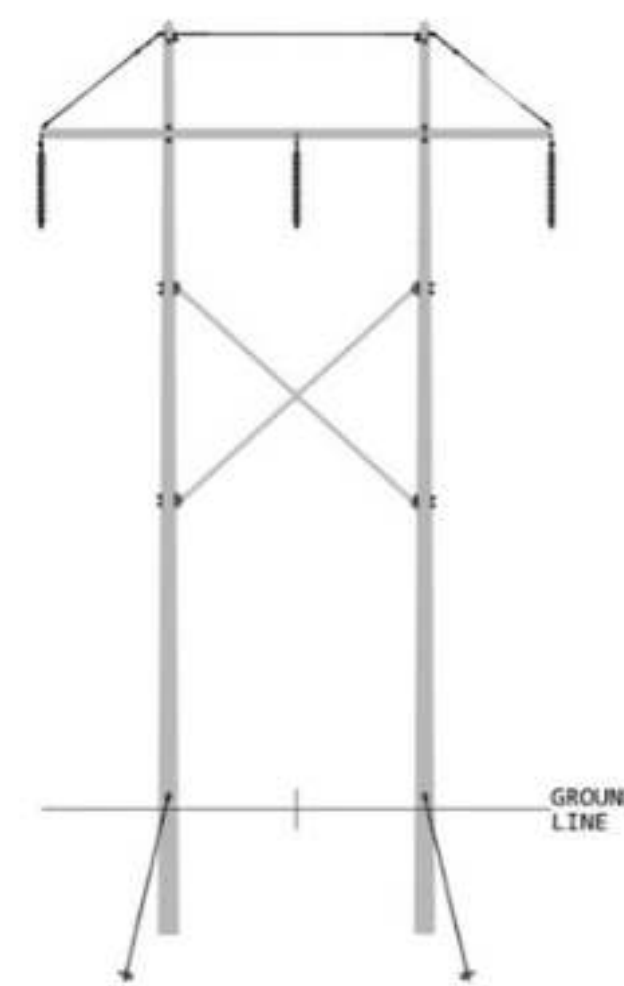




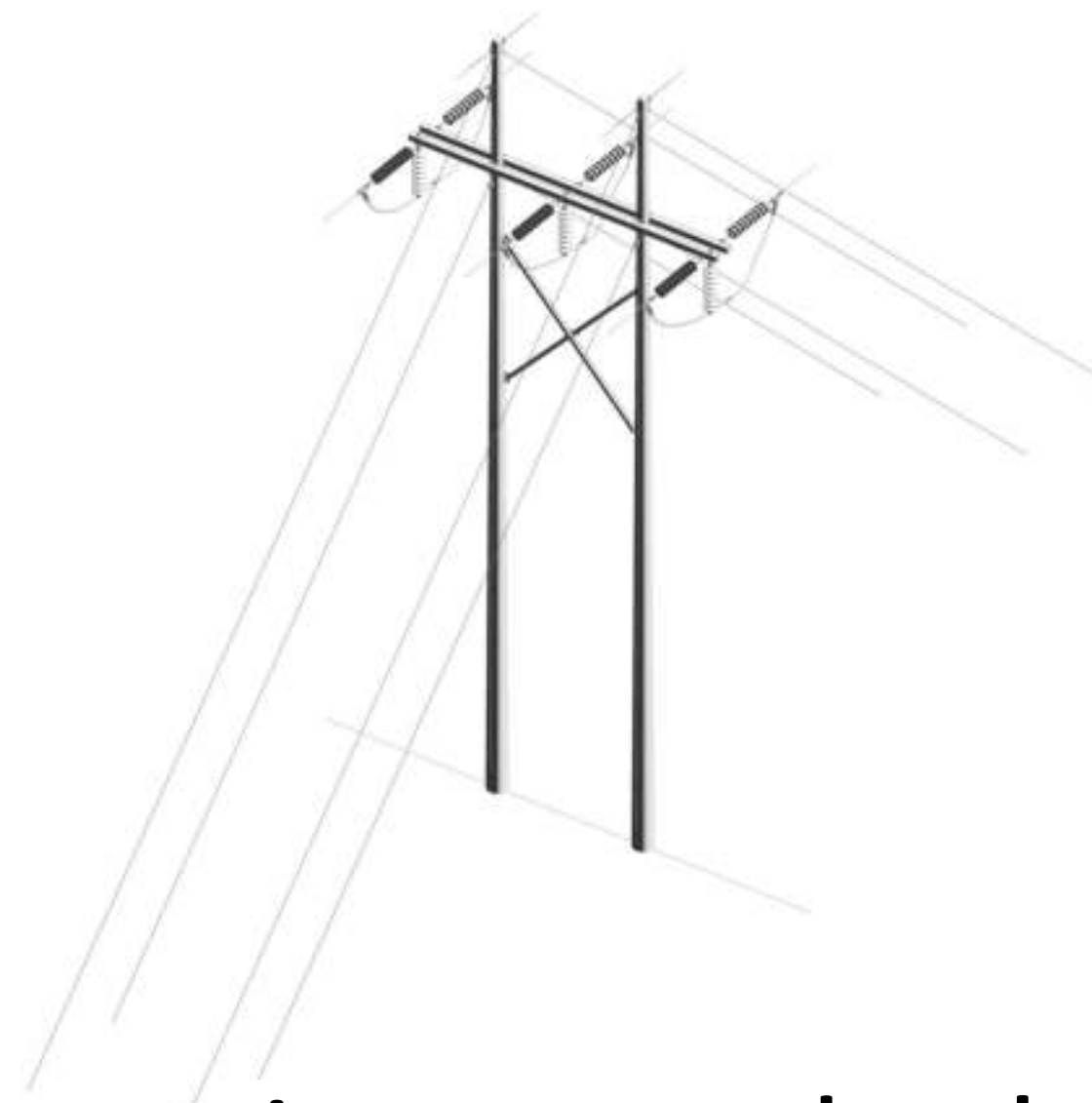
# Structure information

- The proposed lines are expected to consist of mostly two pole H-frame wood structures to reduce impact on agricultural operations.
- Structures are expected to be 18m to 32m in height with typical spans (i.e. distance between structures) from 140m to 250m in length.
- The structures and line will remain within an easement up to 35m in width located entirely on private land.

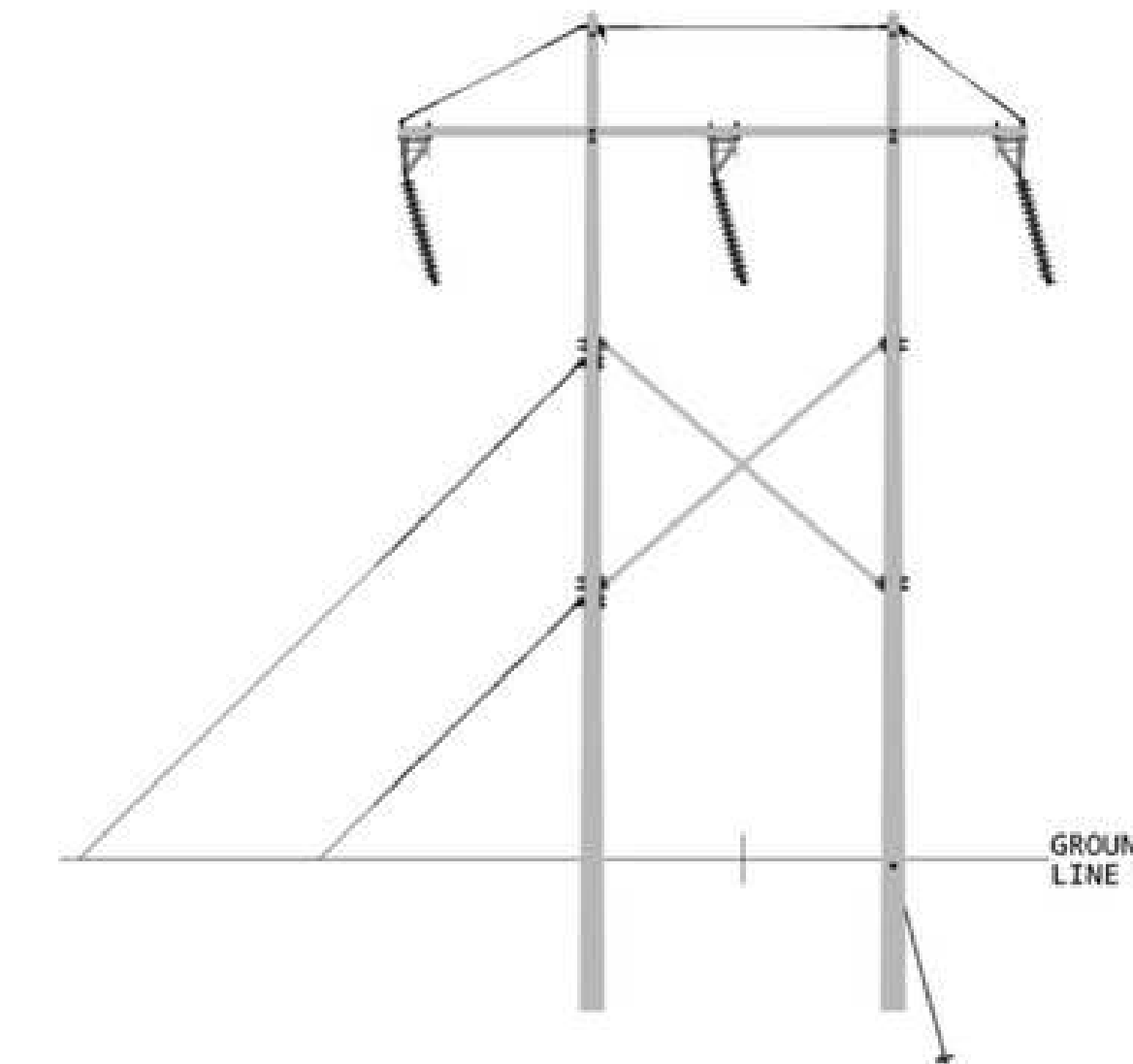
**H-Frame 2 - Pole Structure**  
 Height: 19.8 – 32 m (65 – 105 ft)  
 Width: 12.2 m (40 ft)  
 Pole Spacing: 6.1 m (20 ft)  
 Materials: Wood or Steel Poles  
 Average Span: 140 – 250 m (460 – 820 ft)  
 Use: Typically installed on quarter line or alignments which are not within a developed road allowance. For use on straight sections of the transmission line.



**H-Frame 2 – Pole Dead-End Structure**  
 Height: 18.3 – 24.4 m (60 – 80 ft)  
 Width: 12.2 m (40 ft)  
 Pole Spacing: 6.1 m (20 ft)  
 Materials: Wood or Steel Poles  
 Average Span: 180 – 220 m (590 – 720 ft)  
 Use: Typically installed on quarter line or alignments which are not within a developed road allowance. For use on straight sections of the transmission line as an anti-cascade structure.



**Horizontal Angle 2 – Pole Structure**  
 Height: 19.8 – 25.9 m (65 – 85 ft)  
 Width: 12.2 m (40 ft)  
 Pole Spacing: 6 m (19.5 ft)  
 Materials: Wood or Steel Poles  
 Average Span: 170 – 240 m (560 – 790 ft)  
 Use: Typically installed on alignments which are not within a developed road allowance. For use where angles are required on the centerline of the transmission line.



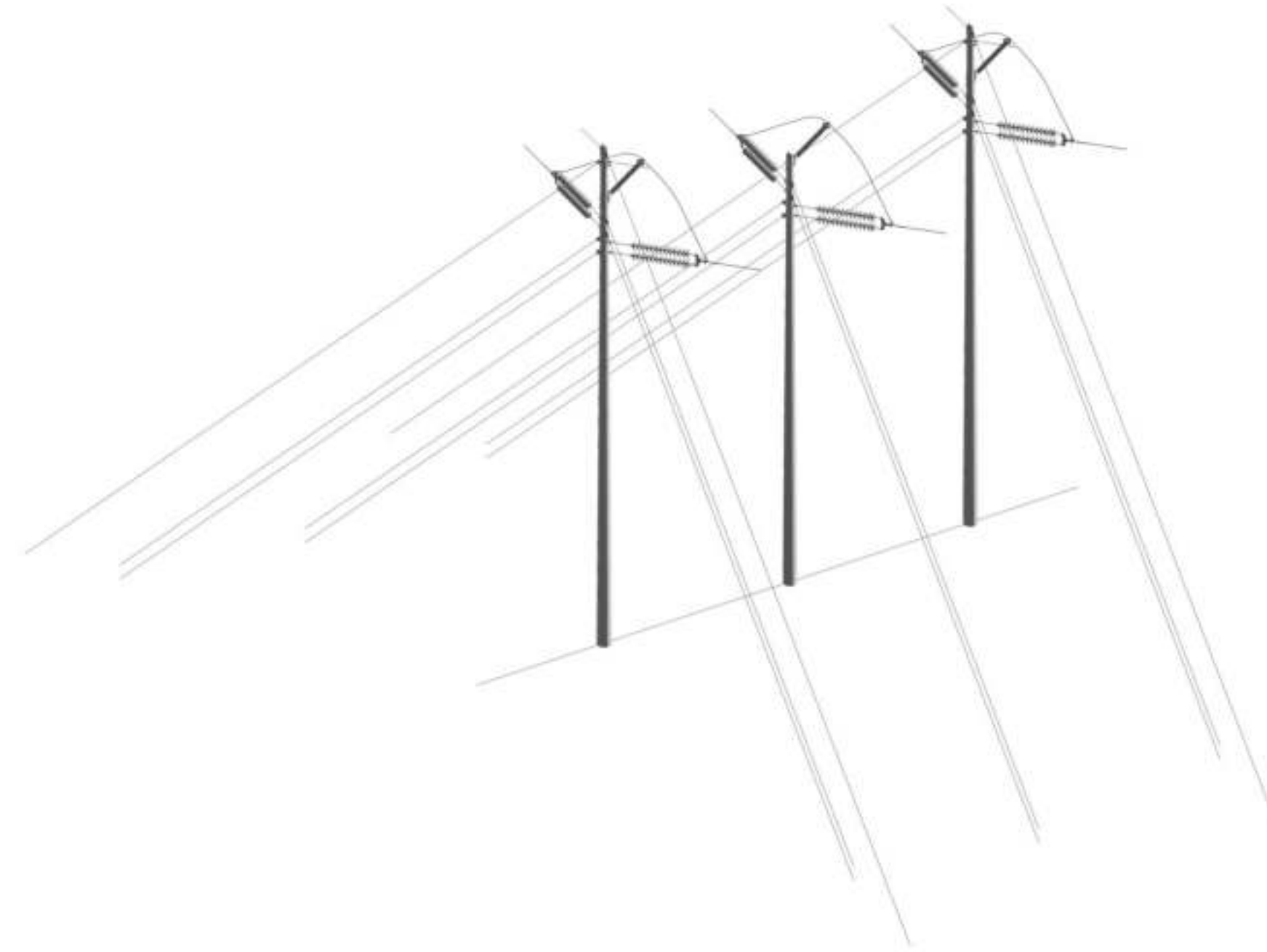
Please note: All dimensions are approximate and subject to change with detailed engineering.

# Structure information

- For all routes, guyed dead ends or angle structures may require additional easements extending beyond the normal line easement for guy wires and anchors.

## Horizontal Dead-End 3 – Pole Structure

Height: 16.8 – 27.5 m (55 – 90 ft)  
 Width: 22.6 m (74.2 ft) excluding guy wires  
 Pole Spacing: Typically 8 m (26.3 ft); Varies depending on line angle  
 Guy Wires: Steel Cables extend up to 27.5 m (90 ft) from each pole  
 Materials: Wood or Steel Poles  
 Average Span: 35 – 230 m (115 – 755 ft)  
 Use: Typically installed on quarter line or alignments which are not within a developed road allowance. These structures are typically only used on corners where the transmission line changes direction.



## Horizontal Dead-End 5 – Pole Structure

Height: 18.3 – 27.5 m (55 – 90 ft)  
 Width: 18 m (59.1 ft) excluding guy wires  
 Pole Spacing: Typically 4.5 m (14.8 ft)  
 Guy Wires: Steel Cables extend up to 27.5 m (90 ft) from each pole  
 Materials: Wood or Steel Poles  
 Average Span: 35 – 200 m (115 – 657 ft)  
 Use: Typically installed on quarter line or alignments which are not within a developed road allowance. These structures are typically used on straight sections of the transmission line as an anti-cascade structure or dead-end structure.



Please note: All dimensions are approximate and subject to change with detailed engineering.



# Access trails and construction workspace

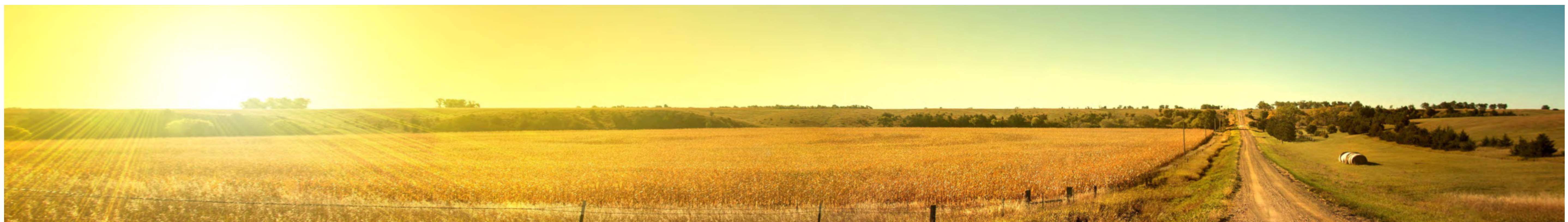
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Access trails are required in areas where access may be limited for a number of reasons, including steep terrain, wetlands or lack of access directly to the right-of-way.

Temporary workspace, in addition to the transmission line right-of-way, is required for the safe construction of the transmission line. The requirements for this workspace vary depending on the location of the transmission line and have yet to be determined.

Off right-of-way access and temporary workspace are yet to be determined and details will be included in our second notification package.

Kiwetinohk will consult with all affected landowners regarding potential access trails and construction workspace.



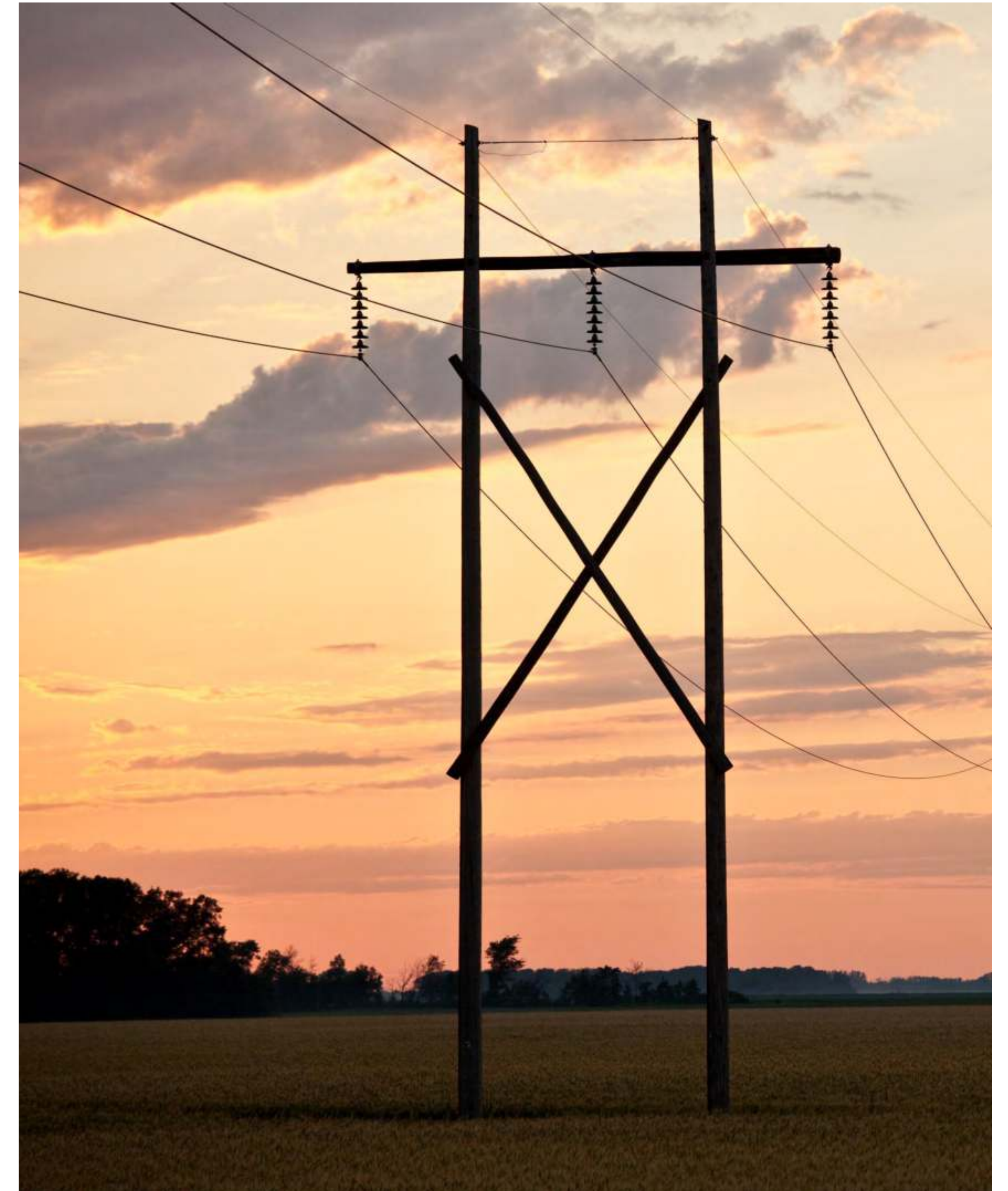
Source: <https://www.istockphoto.com/photo/sunrise-road-sun-rising-on-south-dakota-dirt-road-gm186239237-27691941>



# Compensation

Kiwetinohk is committed to providing fair and responsible compensation to landowners. There are three general types of compensation:

- **Right-of-way agreement:** Where a route approved by the Alberta Utilities Commission (AUC) crosses private land, the Proponent must acquire land rights from landowners to maintain and operate the transmission line.
- **Annual structure payments (ASP):** An ASP is paid to landowners who have transmission structures on their property.
- **Other compensation:** Landowners may be eligible for other payments such as general disturbance, construction damages, entry fee, temporary workspace or access.

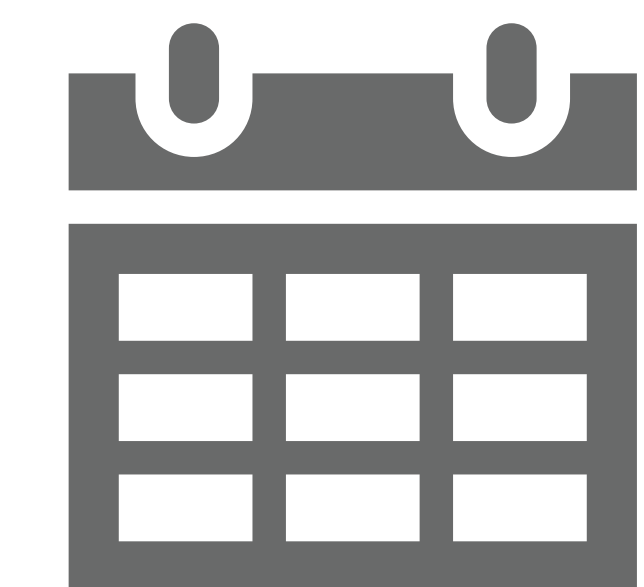




# Preliminary project schedule

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Initiate public consultation/Newsletter #1	---	November 2022
Personal consultation with stakeholders	---	Ongoing
Public open house	---	December 2022
AUC submission	---	June 2023
Anticipated AUC decision	---	Q4 2023
Targeted construction start	---	Q4 2023
Targeted commercial operations	---	Q4 2025





# Stakeholder engagement and next steps

- Kiwetinohk is undertaking a Participant Involvement Program (PIP), as part of the AUC Rule 007 approval process.
- The process is intended to inform and engage landowners, occupants, residents and other potentially impacted stakeholders near the proposed project.
- As part of the PIP, Kiwetinohk mailed a newsletter to stakeholders within 800 m of the Project and is communicating with interested stakeholders.
- Stakeholders with questions or concerns are encouraged to contact Kiwetinohk.



Please note: Image is for illustrative purposes only.

Source: <https://www.istockphoto.com/photo/red-granaries-at-sunset-farmers-field-near-grande-prairie-northern-alberta-gm914134530-251613936>



# Key regulatory agencies



## **Who is the AUC?**

The Alberta Utilities Commission (AUC) is a quasi-judicial independent agency established by the Government of Alberta, responsible to ensure that the delivery of Alberta's utility service takes place in a manner that is fair, responsible and in the public interest.

They regulate investor-owned natural gas, electric and water utilities and certain municipally owned electric utilities to ensure that customers receive safe and reliable service at just and reasonable rates. The AUC ensures that electric facilities are built, operated and decommissioned in an efficient and environmentally responsible way. The AUC also provides regulatory oversight of issues related to the development and operation of the wholesale electricity market in Alberta as well as the retail gas and electricity markets in the province.

For more information please contact:

Alberta Utilities Commission (AUC)

Phone: (780) 427-4903

Toll-Free by dialing 310-000 before the number

Email: [consumer-relations@auc.ab.ca](mailto:consumer-relations@auc.ab.ca)

# Key regulatory agencies

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## **Who is the AESO**

The AESO is an independent, not-for-profit organization responsible for the safe, reliable and economic planning and operation of the provincial transmission grid. For more information about why this project is needed, please refer to the AESO's Need Overview or visit [www.aeso.ca](http://www.aeso.ca). If you have any questions or concerns about the need for this project or the proposed transmission development to meet the need you may contact the AESO directly.

You can also make your questions or concerns known to a Kiwetinohk representative who will collect your personal information for the purpose of addressing your questions and/or concerns to the AESO. This process may include disclosure of your personal information to the AESO.

Alberta Electric System Operator (AESO)  
[stakeholder.relations@aeso.ca](mailto:stakeholder.relations@aeso.ca) or 1-888-866-2959  
[www.aeso.ca](http://www.aeso.ca)

# Environment

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An environmental evaluation in accordance with AUC Rule 007 will be completed for the Project using desktop and field survey data as well as input gathered during consultation with provincial and federal regulators, landowners and the public. Additionally, an environmental protection plan will be prepared for the Project.

This information is used to assist in route development and to identify the proposed route with the lowest environmental impact. Potential effects from the Project are identified, so that mitigation measures can be developed to minimize or eliminate these effects.

Information within the environmental evaluation typically includes:

- wildlife and vegetation inventories
- avian collision risk assessments
- wetland and watercourse assessments
- threatened and endangered species identification
- terrain and soil evaluations
- groundwater



Contact us

*Thank you for attending!*



If you have any questions about the Project, or to arrange a personal consultation, please contact:

Samantha Brown, SABR Energy Consulting Inc.

(587) 434-7547

[sbrown@sabreenergyconsulting.com](mailto:sbrown@sabreenergyconsulting.com)



# Appendix A3

## PSIP #2

# HOMESTEAD MPC SOLAR PROJECT

NEWSLETTER #2

February 2023



*Stock photo for illustrative purposes.*



**This newsletter provides an update on the proposed Homestead MPC Solar transmission line project.**

## Project update

Following the initial November 2022 newsletter regarding the Homestead MPC Solar Project (the "Project"), Kiwetinohk Energy Corp., and their representatives (the "Proponent") consulted with interested stakeholders, continued engineering design, held an open house and completed environmental studies to evaluate potential transmission line routes. The Proponent has determined a preferred and alternate route for the proposed interconnection to the Alberta Interconnected Electric System ("AIES") and intends to submit a Facilities Application to the Alberta Utilities Commission ("AUC") in June 2023. As shown in the attached map Route C is the preferred route and Route A is the alternate route.

### What's in this Newsletter:

- Project update
- Project details & need
- Route selection
- Route refinement & structures
- Facilities application
- Providing your input
- Who is the AUC?
- Who is the AESO?
- Who is AltaLink?
- Updated schedule
- Contact information

### Inserts:

- Detailed Route Maps
- Updated Structure Sheet
- AUC Public Involvement Brochure



*Image from Homestead Solar Project site*

# Project details and need for the project

The Proponent has applied to the Alberta Electric System Operator (AESO) for transmission system access to connect the AUC approved Homestead Solar Project, which includes the Homestead 1111S substation, to the Alberta electric system. For the Homestead Market Participant Choice (MPC) Solar project (the Project), the Proponent is proposing to construct approximately 13.5 km of new transmission line (known as 1037AL) to connect the approved Homestead 1111S substation to the existing AltaLink Management Ltd. (AltaLink) 240 kV transmission line 1037L in a T-tap configuration. The Proponent is responsible for the design and construction of the new transmission line. Once in service, AltaLink will assume the operation and maintenance of the new line as part of the Alberta Interconnected Electric System (AIES).

## Routing selection

Several factors are taken into account during route selection in order to minimize overall impact, including:

- Location and proximity of residences
- Environmental considerations and impacts
- Overall length and cost of the interconnection
- Existing infrastructure
- Stakeholder feedback

Both route options are viable and will be presented to the AUC for consideration in the Facilities Application.

## Route refinement and structures

Route B from the November 2022 newsletter has been removed as an option as a result of stakeholder feedback, Municipality feedback and environmental constraints. Route C1 has been removed from consideration due to proximity to additional residences. The current design of the structures are shown on the enclosed example structure sheet and may be either wood or steel. There will be a requirement for an additional monopole adjacent to the existing transmission tower.



*Stock photo for illustrative purposes*

## Facilities application

A transmission facility owner proposing to build an electric facility must submit an application to the AUC to obtain a permit to construct and a license to operate the facility. The application filed is often referred to as a facilities application. The Proponent expects to file a facilities application in June 2023. The AUC will then review the facilities application and either approve (with or without conditions) or deny the application.

To learn more about the AUC application and review process, please contact:

Alberta Utilities Commission (AUC)

Phone: (780) 427-4903

Toll-Free by dialing 310-000 before the number

Email: [consumer-relations@auc.ab.ca](mailto:consumer-relations@auc.ab.ca)

## Providing your input

Feedback from stakeholders is important in order to present line routing options that aim to minimize impacts to people and the environment. The feedback we receive assists us in determining areas with potentially higher impacts and aim to minimize impacts to people and their interests. We will continue to contact landowners, residents and occupants adjacent to the proposed Project to gather further input and address any outstanding questions or concerns. After the Proponent collects feedback on Project design, we will file an application with the AUC. The AUC will review the application through a process in which stakeholders can participate. The AUC will notify stakeholders after the Facilities Application has been submitted. To learn more about the AUC process and how you can become involved, please refer to the brochure included in this package titled public involvement in a proposed utility development.

## Who is the AUC?

The Alberta Utilities Commission (AUC) is a quasi-judicial independent agency established by the Government of Alberta, responsible to ensure that the delivery of Alberta's utility service takes place in a manner that is fair, responsible and in the public interest.

They regulate investor-owned natural gas, electric and water utilities and certain municipally owned electric utilities to ensure that customers receive safe and reliable service at just and reasonable rates. The AUC ensures that electric facilities are built, operated and decommissioned in an efficient and environmentally responsible way. The AUC also provides regulatory oversight of issues related to the development and operation of the wholesale electricity market in Alberta as well as the retail gas and electricity markets in the province. For more information visit [www.auc.ab.ca](http://www.auc.ab.ca) or refer to the enclosed brochure.

## Who is the AESO?

The AESO is an independent, not-for-profit organization responsible for the safe, reliable and economic planning and operation of the provincial transmission grid. For more information about why this project is needed, please refer to the AESO's Need Overview included with this package, or visit [www.aeso.ca](http://www.aeso.ca). If you have any questions or concerns about the need for this project or the proposed transmission development to meet the need you may contact the AESO directly.

You can also make your questions or concerns known to a Kiwetinohk representative who will collect your personal information for the purpose of addressing your questions and/or concerns to the AESO. This process may include disclosure of your personal information to the AESO.

Alberta Electric System Operator (AESO)  
[stakeholder.relations@aeso.ca](mailto:stakeholder.relations@aeso.ca) or 1-888-866-2959  
[www.aeso.ca](http://www.aeso.ca)



*Photo for illustrative purposes*



# Who is AltaLink?

AltaLink is responsible for any modifications to AltaLink's existing 240 kV transmission line 1037L that are also required to connect the Homestead Solar Project. AltaLink's modifications are separate from the facilities that Kiwetinohk is proposing to construct, and AltaLink will send a separate newsletter detailing their proposed work.

To learn more about the connection to the existing 1037L transmission line owned by AltaLink, please contact:

AltaLink Management Ltd.  
1-877-267-1453 (toll-free) or [stakeholderrelations@altalink.ca](mailto:stakeholderrelations@altalink.ca)

## Updated project schedule

Initial Stakeholder Newsletter	.....	November 2022
Newsletter #2	.....	February 2023
Public Consultation	.....	Ongoing
File AUC Application	.....	June 2023
Anticipated AUC Approval	.....	Q4 2023
Anticipated Construction Start	.....	Q4 2023



*Stock photo for illustrative purposes*

## Contact us

If you have any questions about the Project, or to arrange a personal consultation, please contact:

Samantha Brown  
SABR Energy Consulting Inc.  
(587) 434-7547  
[sbrown@sabreenergyconsulting.com](mailto:sbrown@sabreenergyconsulting.com)



*Photo for illustrative purposes*

## Privacy Policy

Kiwetinohk is committed to protecting your privacy. Collected information will be protected under the provincial Personal Information Protection Act. As part of the regulatory process for new generation projects, Kiwetinohk may be required to provide your personal information to the AUC. For more information about how Kiwetinohk protects your personal information, contact us at [lwong@kiwetinohk.com](mailto:lwong@kiwetinohk.com) or via mail at 1700, 250 – 2 Street SW, Calgary, AB T2P 0C1, Attention: Privacy Officer.

# Example Structure Details



## H-Frame 2 - Pole Structure

Height: 19.8 – 32 m (65 – 105 ft)

Width: 12.2 m (40 ft)

Pole Spacing: 6.1 m (20 ft)

Materials: Wood or Steel Poles

Average Span: 140 – 250 m (460 – 820 ft)

Use: Typically installed on quarter line or alignments which are not within a developed road allowance. For use on straight sections of the transmission line.

---



## H-Frame 2 - Pole Dead-End Structure

Height: 18.3 – 24.4 m (60 – 80 ft)

Width: 12.2 m (40 ft)

Pole Spacing: 6.1 m (20 ft)

Materials: Wood or Steel Poles

Average Span: 180 – 220 m (590 – 720 ft)

Use: Typically installed on quarter line or alignments which are not within a developed road allowance. For use on straight sections of the transmission line as an anti-cascade structure.

---



## Horizontal Angle 3-Pole Structure

Height: 19.8 – 27.5 m (55-90 ft)

Width: 15 m (50 ft)

Pole Spacing: 7.5 m (25 ft)

Guy Wires: Steel Cables extend up to 27.5 m (90 ft) from each pole

Materials: Wood or Steel Poles

Average Span: 170-240 m (560-790 ft)

Use: Typically installed on the alignments which are not within a developed road allowance. For use where angles are required on the centerline of the transmission line.



## Horizontal Angle 2 - Pole Structure

Height: 19.8 – 25.9 m (65 – 85 ft)

Width: 12.2 m (40 ft)

Pole Spacing: 6 m (19.5 ft)

Materials: Wood or Steel Poles

Average Span: 170 – 240 m (560 – 790 ft)

Use: Typically installed on alignments which are not within a developed road allowance. For use where angles are required on the centerline of the transmission line.

# Example Structure Details

## Horizontal Dead-End 3 - Pole Structure

Height: 16.8 – 27.5 m (55 – 90 ft)

Width: 22.6 m (74.2 ft) excluding guy wires

Pole Spacing: Typically 8 m (26.3 ft); Varies depending on line angle

Guy Wires: Steel Cables extend up to 27.5 m (90 ft) from each pole

Materials: Wood or Steel Poles

Average Span: 35 – 230 m (115 – 755 ft)

Use: Typically installed on quarter line or alignments which are not within a developed road allowance. These structures are typically only used on corners where the transmission line changes direction.



## Horizontal Dead-End 5 - Pole Structure

Height: 18.3 – 27.5 m (55 – 90 ft)

Width: 18 m (59.1 ft) excluding guy wires

Pole Spacing: Typically 4.5 m (14.8 ft)

Guy Wires: Steel Cables extend up to 27.5 m (90 ft) from each pole

Materials: Wood or Steel Poles

Average Span: 35 – 200 m (115 – 657 ft)

Use: Typically installed on quarter line or alignments which are not within a developed road allowance. These structures are typically used on straight sections of the transmission line as an anti-cascade structure or dead-end structure.



## Steel Single Pole Dead-End Structure

Height: 40 – 55 m (131-180 ft)

Guy Wires: Steel Cables extending up to 50 m (164 ft) from each pole

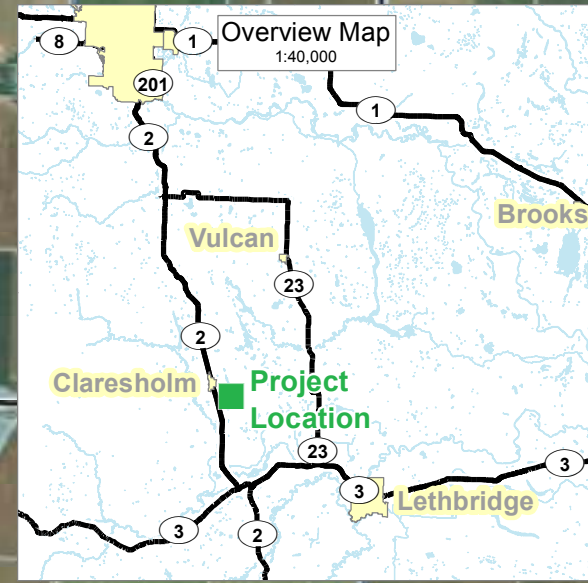
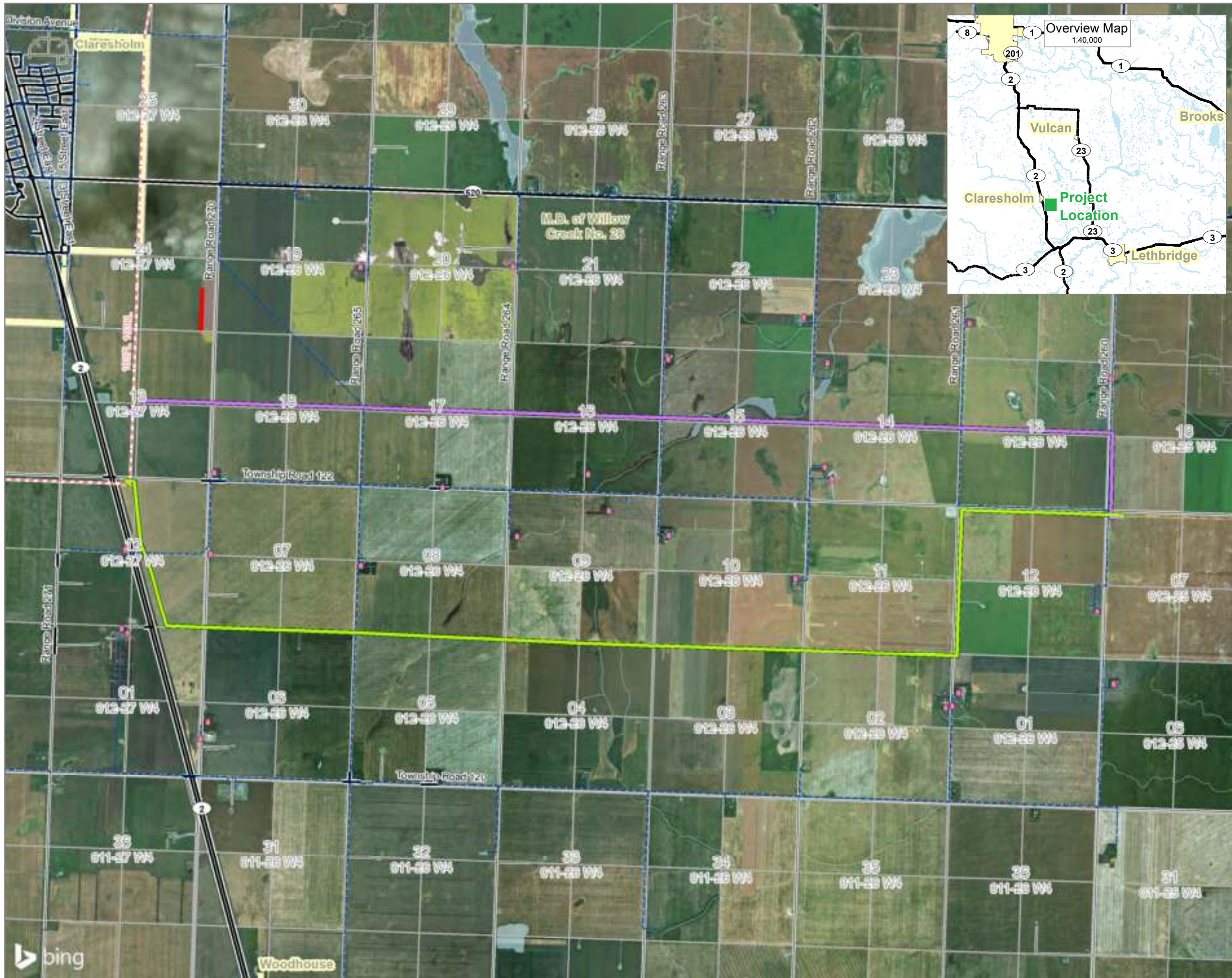
Materials: Tubular Steel Pole

Average Span: 15-100 m (50-328 ft)

Use: Typically installed on quarter line or alignments which are not within a developed road allowance. This structure is only used as a dead-end structure for where the transmission line connects to a tower.





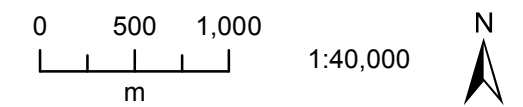


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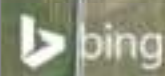
## Preliminary Interconnection Routes

### Preliminary Route

- Route A
- Route C
- ⬮ Residence Location (unverified)
- - - Existing 240 kV Transmission Line
- - - Fortis Distribution Line
- Watercourse
- Community
- Unregistered Airstrip
- Water Body



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Woodhouse





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# Preliminary Interconnection Route A Sheet 1 of 9

### Structure Type

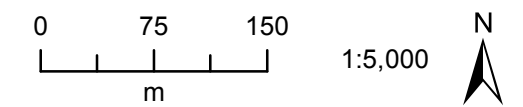
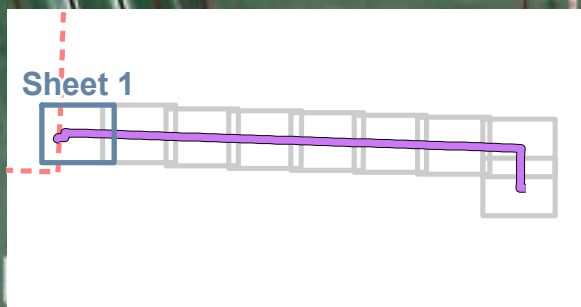
- 3 Pole Deadend
- 5 Pole Deadend
- AML Tower
- Disconnect Switch
- ▲ Guy Anchor
- ⊕ H-Frame Tangent
- Steel Monopole
- Kilometre Marker

### Preliminary Route

- Route A

### Project Component

- Permanent Easement
- Temporary Workspace
- Oil/Gas Well
- Existing 240 kV Transmission Line
- Cadastral Boundary
- Paved Road
- Unpaved Road
- Water Body







Homestead MPC Solar Project

# Preliminary Interconnection Route A Sheet 2 of 9

### Structure Type

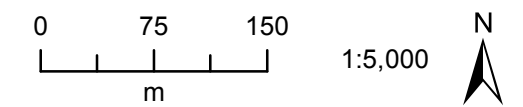
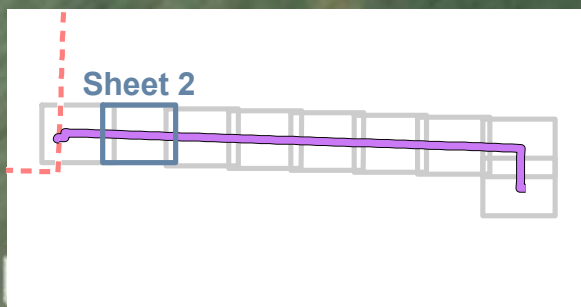
- ⊕ H-Frame Tangent
- Kilometre Marker

### Preliminary Route

- Route A

### Project Component

- Permanent Easement
- Oil/Gas Well
- Fortis Distribution Line
- Cadastral Boundary
- Unpaved Road



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Homestead MPC Solar Project

# Preliminary Interconnection Route A Sheet 3 of 9

### Structure Type

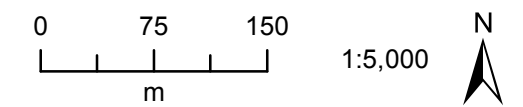
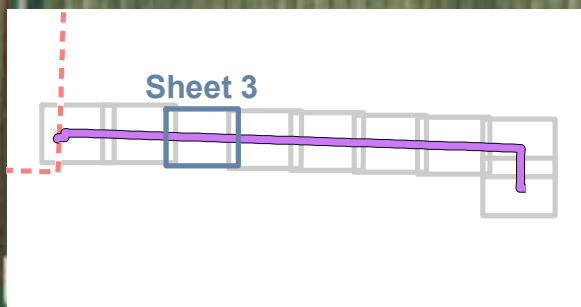
- Anti-Cascade Deadend
- ▲ Guy Anchor
- ⊕ H-Frame Tangent
- Kilometre Marker

### Preliminary Route

- Route A

### Project Component

- Off Right-of-Way Access
- Permanent Easement
- Temporary Workspace
- Oil/Gas Well
- - - Fortis Distribution Line
- Cadastral Boundary
- Unpaved Road
- Watercourse



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Homestead MPC Solar Project

# Preliminary Interconnection Route A Sheet 4 of 9

### Structure Type

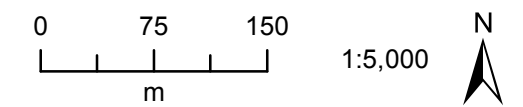
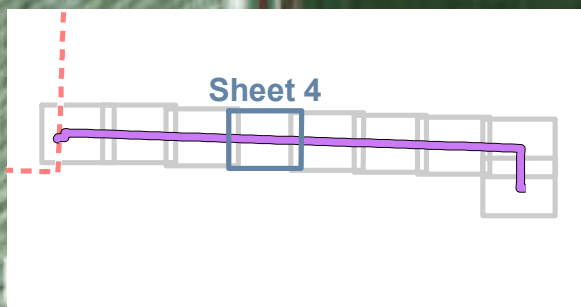
- ⊕ H-Frame Tangent
- Kilometre Marker

### Preliminary Route

- Route A

### Project Component

- Off Right-of-Way Access
- Permanent Easement
- Residence Location (unverified)
- Fortis Distribution Line
- Cadastral Boundary
- Unpaved Road
- Watercourse



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Homestead MPC Solar Project

# Preliminary Interconnection Route A Sheet 5 of 9

### Structure Type

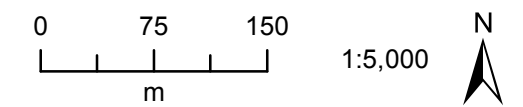
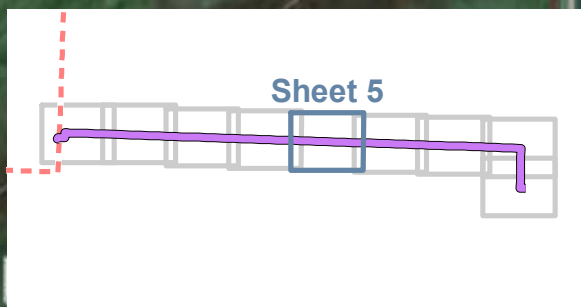
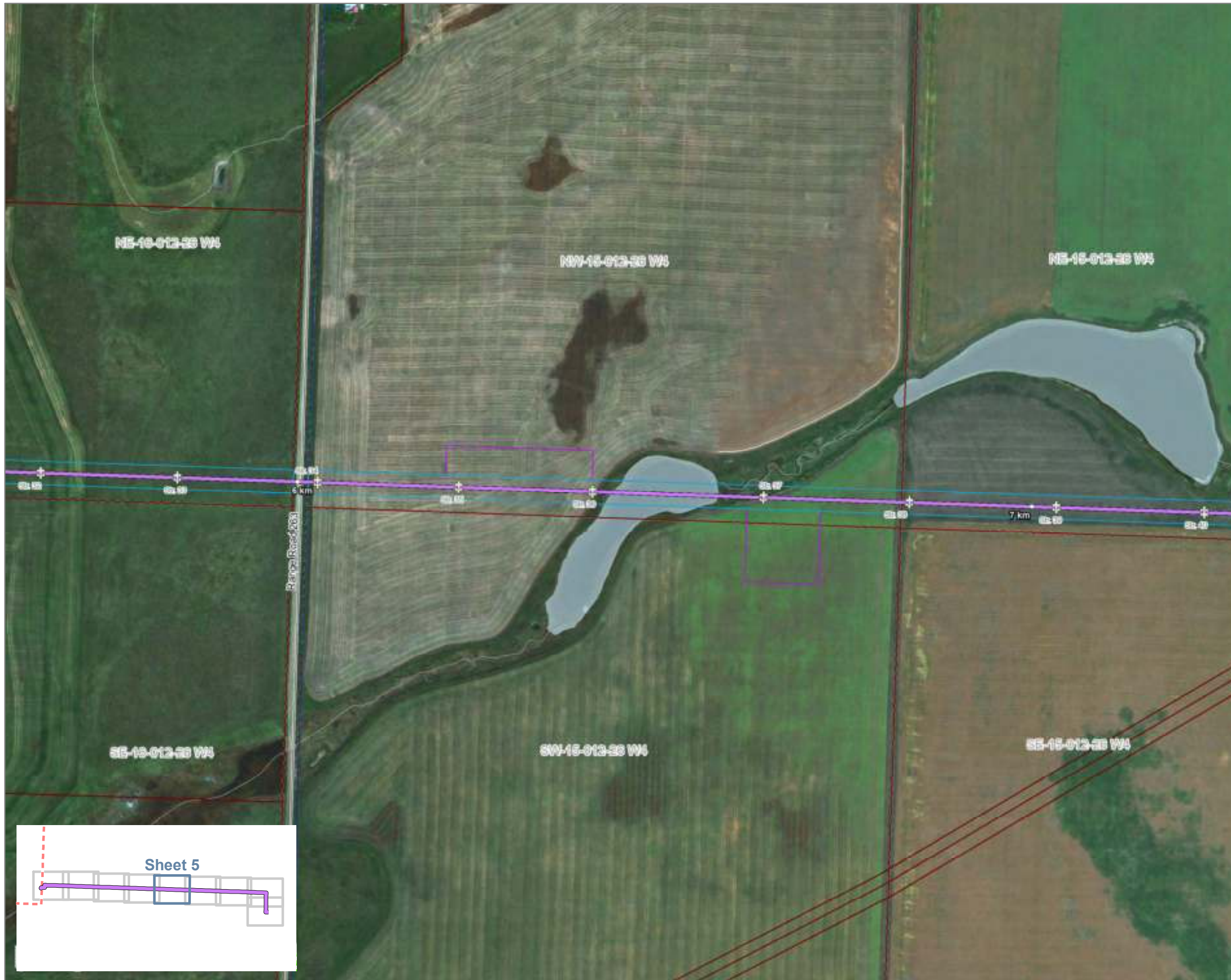
- H-Frame Tangent
- Kilometre Marker

### Preliminary Route

- Route A

### Project Component

- Permanent Easement
- Temporary Workspace
- Residence Location (unverified)
- Fortis Distribution Line
- Cadastral Boundary
- Unpaved Road
- Watercourse
- Water Body



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Homestead MPC Solar Project

# Preliminary Interconnection Route A Sheet 6 of 9

### Structure Type

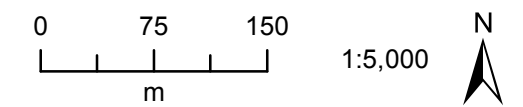
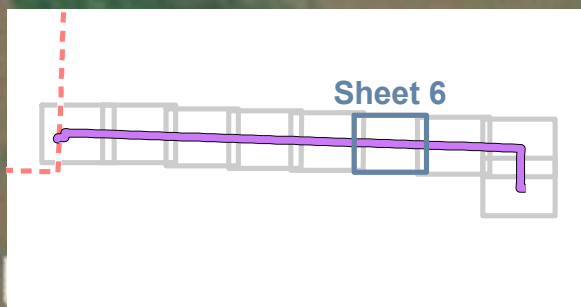
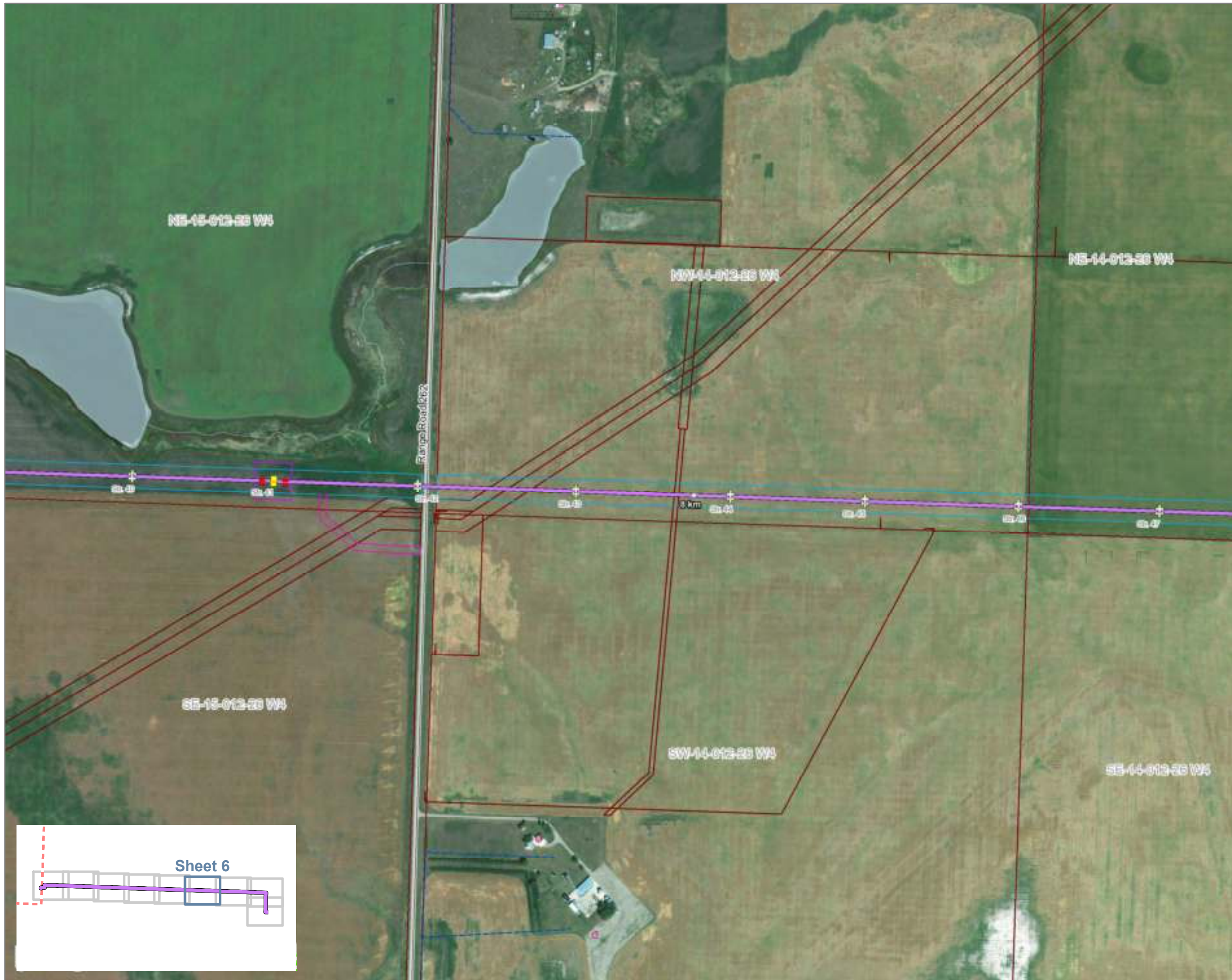
- Anti-Cascade Deadend
- ▲ Guy Anchor
- ⊕ H-Frame Tangent
- Kilometre Marker

### Preliminary Route

- Route A

### Project Component

- Off Right-of-Way Access
- Permanent Easement
- Temporary Workspace
- Ⓜ Residence Location (unverified)
- Fortis Distribution Line
- Cadastral Boundary
- Unpaved Road
- Watercourse
- Water Body



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Homestead MPC Solar Project

# Preliminary Interconnection Route A Sheet 7 of 9

### Structure Type

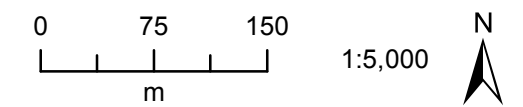
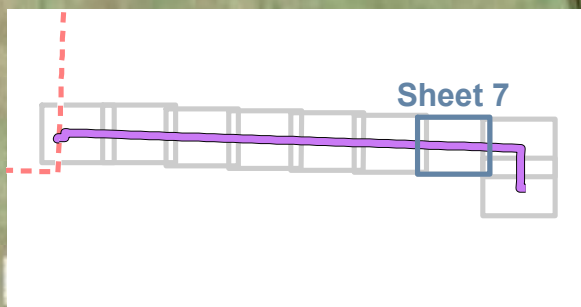
- ⊕ H-Frame Tangent
- Kilometre Marker

### Preliminary Route

- Route A

### Project Component

- Permanent Easement
- Oil/Gas Well
- Fortis Distribution Line
- Cadastral Boundary
- Unpaved Road
- Watercourse







Homestead MPC Solar Project

# Preliminary Interconnection Route A Sheet 8 of 9

### Structure Type

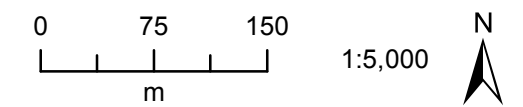
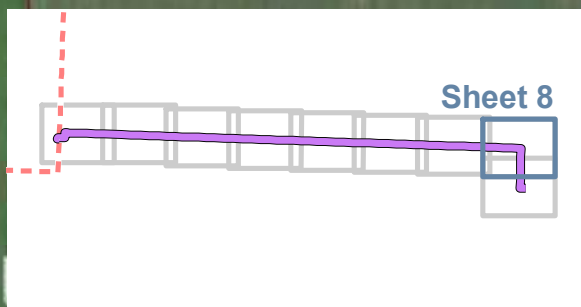
- 3 Pole Deadend
- ▲ Guy Anchor
- ⊕ H-Frame Tangent
- Kilometre Marker

### Preliminary Route

- Route A

### Project Component

- Permanent Easement
- Temporary Workspace
- ✚ Residence Location (unverified)
- Fortis Distribution Line
- Cadastral Boundary
- Unpaved Road
- Watercourse



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Homestead MPC Solar Project

# Preliminary Interconnection Route A Sheet 9 of 9

### Structure Type

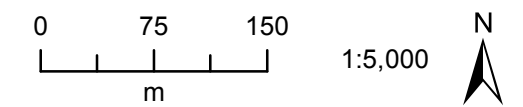
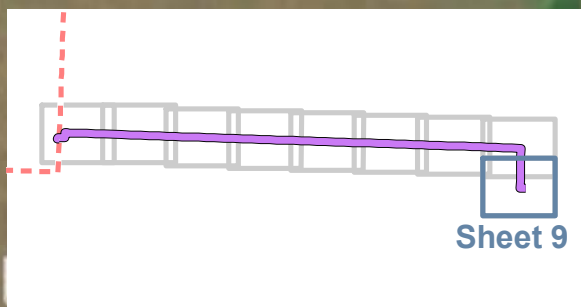
- 3 Pole Deadend
- 5 Pole Deadend
- ⊕ A-Frame
- ▲ Guy Anchor
- ⊕ H-Frame Tangent

### Preliminary Route

— Route A

### Project Component

- Permanent Easement
- Temporary Workspace
- Fortis Distribution Line
- Cadastral Boundary
- Unpaved Road



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Coordinate System: NAD 1983 UTM Zone 12N  
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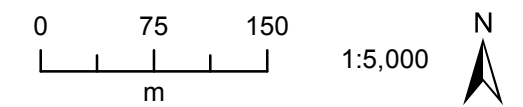




Homestead MPC Solar Project

# Preliminary Interconnection Route C Sheet 1 of 10

- Kilometre Marker
- Structure Type**
- 3 Pole Deadend
- 3 Pole Medium Angle
- 5 Pole Deadend
- AML Tower
- Disconnect Switch
- ▲ Guy Anchor
- ⊕ H-Frame Tangent
- Steel Monopole
- Preliminary Route**
- Route C
- Project Component**
- Off Right-of-Way Access
- Permanent Easement
- Temporary Workspace
- Oil/Gas Well
- 🏠 Residence Location (unverified)
- - - Existing 240 kV Transmission Line
- - - Fortis Distribution Line
- Cadastral Boundary
- Paved Road
- Unpaved Road



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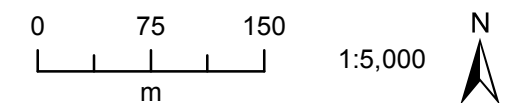




Homestead MPC Solar Project

# Preliminary Interconnection Route C Sheet 2 of 10

- Kilometre Marker
- Structure Type**
  - 2 Pole Light Angle
  - 3 Pole Deadend
  - 3 Pole Medium Angle
  - ▲ Guy Anchor
  - ⊕ H-Frame Tangent
- Preliminary Route**
  - Route C
- Project Component**
  - Off Right-of-Way Access
  - Permanent Easement
  - Temporary Workspace
  - Oil/Gas Well
  - ⬮ Residence Location (unverified)
  - Fortis Distribution Line
  - Cadastral Boundary
  - Paved Road
  - Unpaved Road



Produced For: Kiwetinohk Energy Corp.	Produced By: C. Huck
Map Date: February 16, 2023	Map #: Homestead-006 Rev. B
<small>This document is created solely for the use of Kiwetinohk Energy Corp. Maskwa Environmental Consulting Ltd. assumes no liability to any other third party for any representations contained in this drawing. Although there is no reason to believe that there are any errors associated with the data used to create this map product, users of this data are advised that errors may be present. Scale of the map is 1:5,000, when printed at 11" by 17".</small>	
<small>Coordinate System: NAD 1983 UTM Zone 12N Path: S:\Client\MHV\Kiwetinohk\Homestead\003_Mapping\20220126_PreliminaryRouteMapbook</small>	

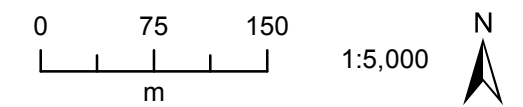
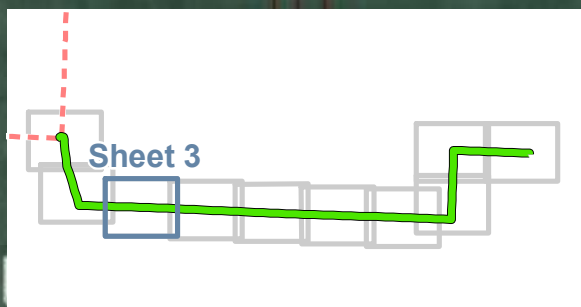
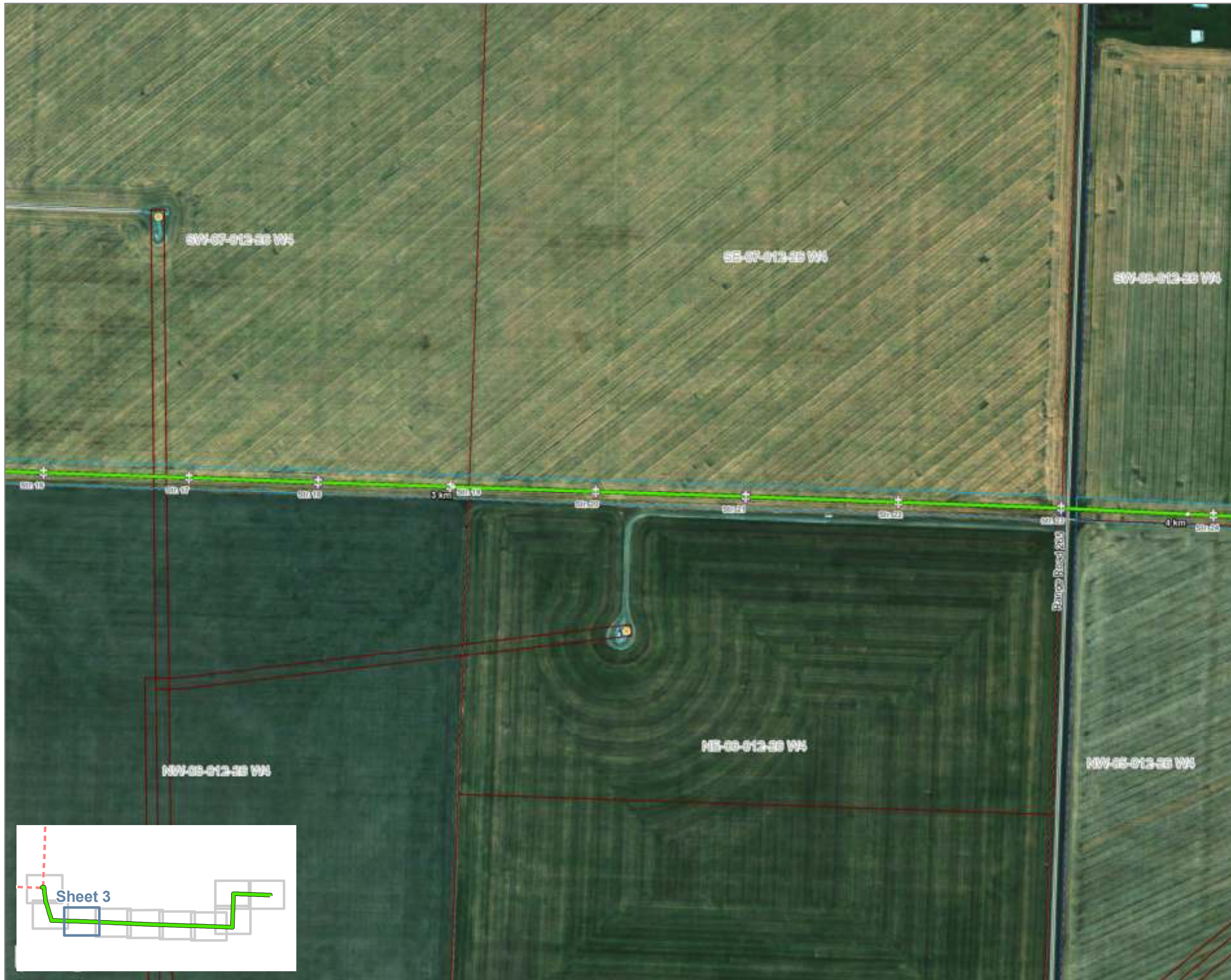




Homestead MPC Solar Project

# Preliminary Interconnection Route C Sheet 3 of 10

- Kilometre Marker
- Structure Type**
  - ⊕ H-Frame Tangent
- Preliminary Route**
  - Route C
- Project Component**
  - Permanent Easement
  - Temporary Workspace
  - Oil/Gas Well
  - Fortis Distribution Line
  - Cadastral Boundary
  - Unpaved Road



Produced For: Kiwetinohk Energy Corp.	Produced By: C. Huck
Map Date: February 16, 2023	Map #: Homestead-006 Rev. B

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Coordinate System: NAD 1983 UTM Zone 12N  
Path: S:\Client\MHV\Kiwetinohk\Homestead\003\_Mapping\20220126\_PreliminaryRouteMapbook\





Homestead MPC Solar Project

# Preliminary Interconnection Route C Sheet 4 of 10

○ Kilometre Marker

### Structure Type

⊕ H-Frame Tangent

### Preliminary Route

— Route C

### Project Component

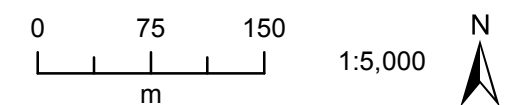
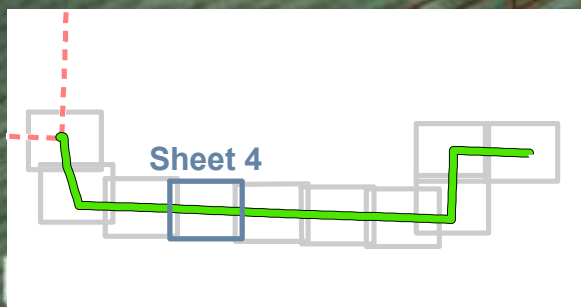
□ Permanent Easement

□ Temporary Workspace

— Cadastral Boundary

— Unpaved Road

— Watercourse







Homestead MPC Solar Project

# Preliminary Interconnection Route C Sheet 5 of 10

○ Kilometre Marker

### Structure Type

■ Anti-Cascade Deadend

▲ Guy Anchor

⊕ H-Frame Tangent

### Preliminary Route

— Route C

### Project Component

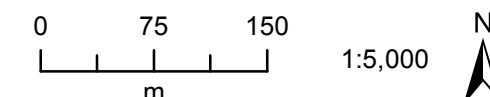
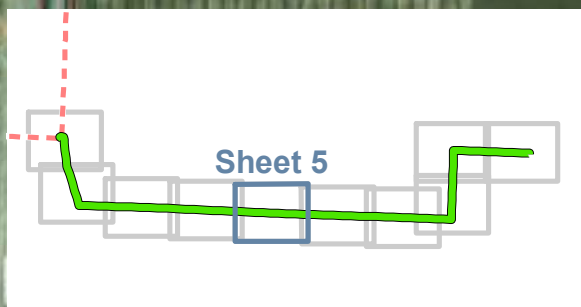
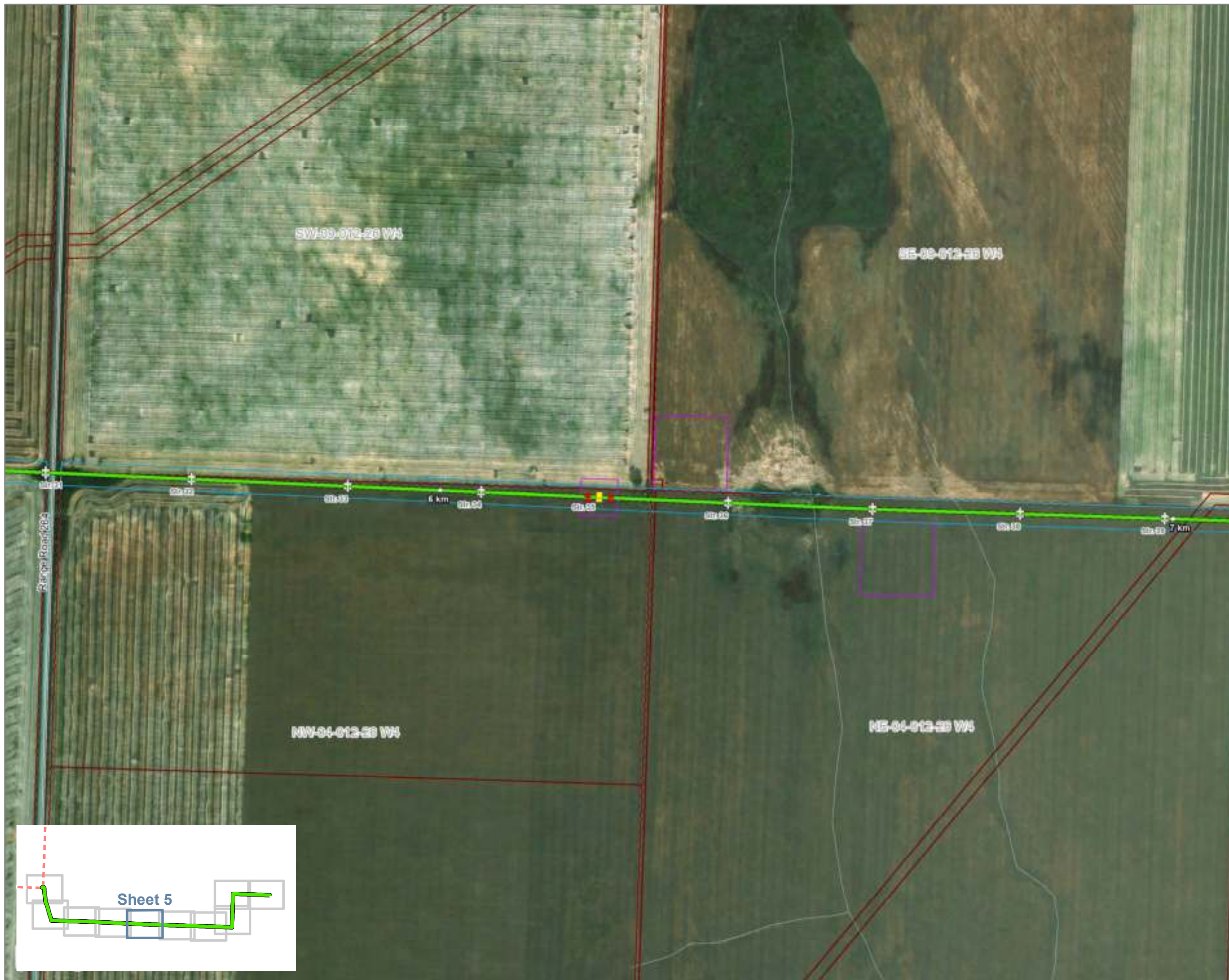
□ Permanent Easement

□ Temporary Workspace

— Cadastral Boundary

— Unpaved Road

— Watercourse



Produced For: Kwetnohk Energy Corp. Produced By: C. Huck  
Map Date: February 16, 2023 Map #: Homestead-006 Rev. B  
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Coordinate System: NAD 1983 UTM Zone 12N  
Path: S:\Client\MHV\Kiwetinohk\Homestead\003\_Mapping\20220126\_PreliminaryRouteMapbook\





Homestead MPC Solar Project

# Preliminary Interconnection Route C Sheet 6 of 10

○ Kilometre Marker

### Structure Type

⊕ H-Frame Tangent

### Preliminary Route

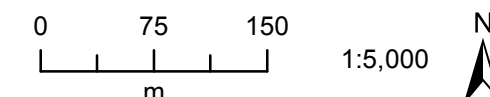
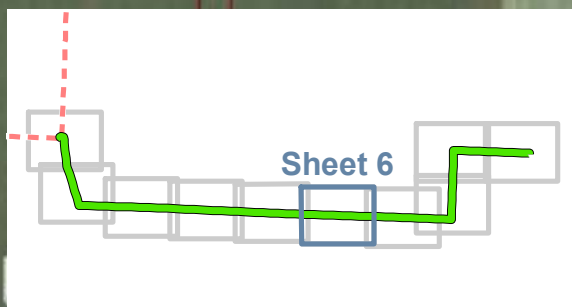
— Route C

### Project Component

□ Permanent Easement

— Cadastral Boundary

— Watercourse



Produced For: Kiwetinohk Energy Corp. Produced By: C. Huck  
Map Date: February 16, 2023 Map #: Homestead-006 Rev. B  
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Coordinate System: NAD 1983 UTM Zone 12N  
Path: S:\Client\MHV\Kiwetinohk\Homestead\003\_Mapping\2022\126\_PreliminaryRouteMapbook\





Homestead MPC Solar Project

# Preliminary Interconnection Route C Sheet 7 of 10

○ Kilometre Marker

### Structure Type

⊕ H-Frame Tangent

### Preliminary Route

— Route C

### Project Component

□ Permanent Easement

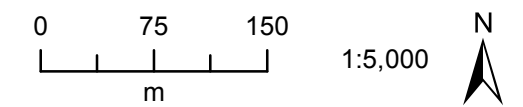
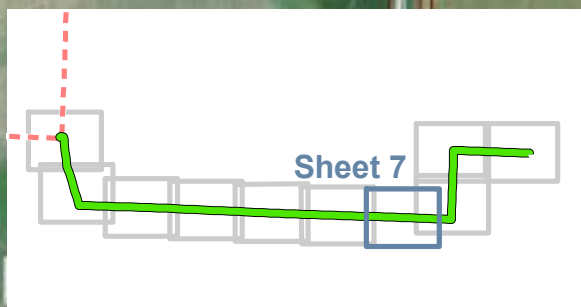
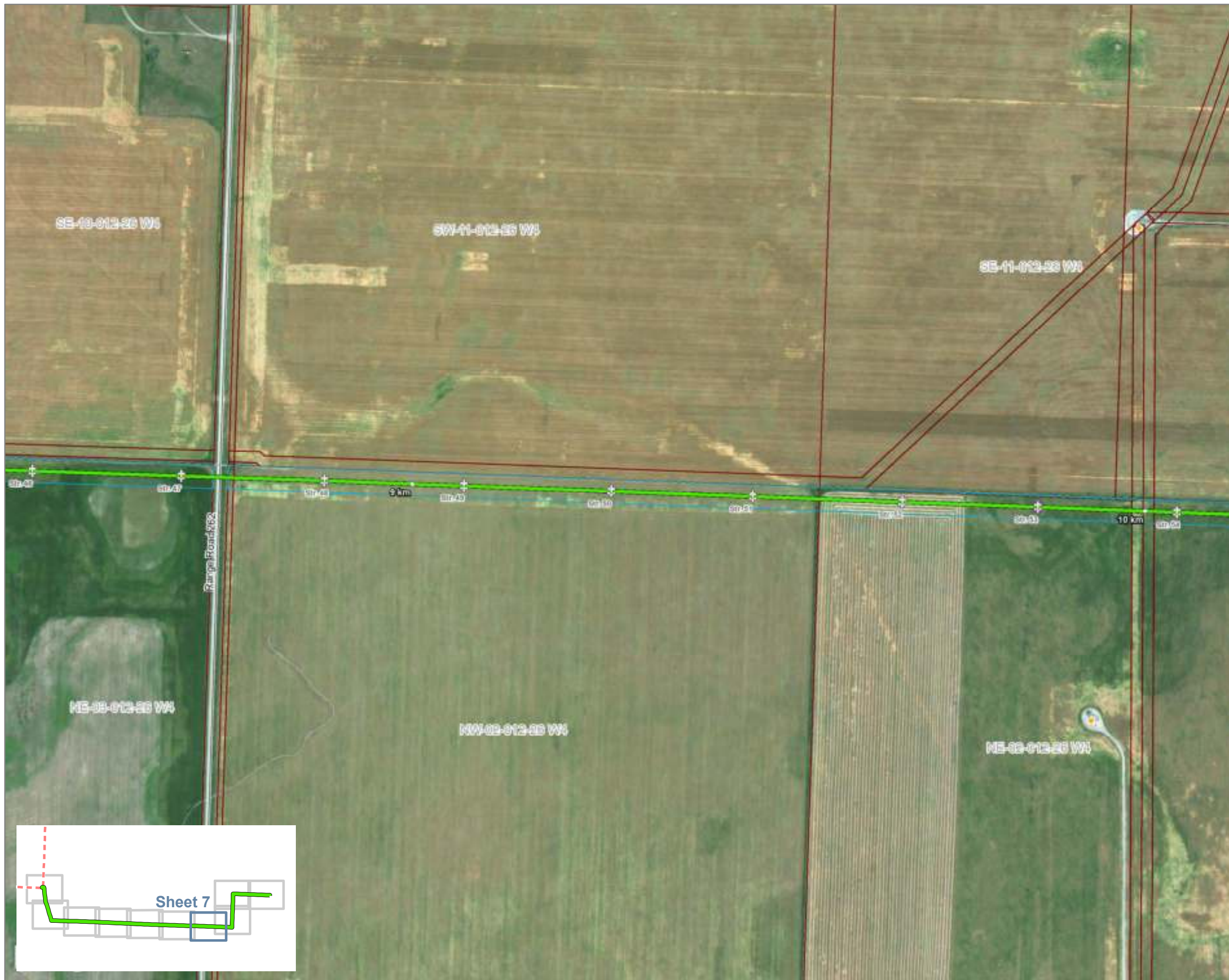
□ Temporary Workspace

● Oil/Gas Well

— Cadastral Boundary

— Unpaved Road

— Watercourse



Produced For: Kiwetinohk Energy Corp. Produced By: C. Huck  
Map Date: February 16, 2023 Map #: Homestead-006 Rev. B  
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Coordinate System: NAD 1983 UTM Zone 12N  
Path: S:\Client\MHV\Kiwetinohk\Homestead\003\_Mapping\20220126\_PreliminaryRouteMapbook\

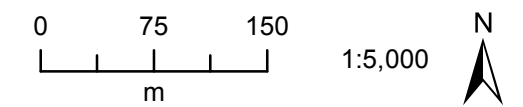




Homestead MPC Solar Project

# Preliminary Interconnection Route C Sheet 8 of 10

- Kilometre Marker
- Structure Type**
  - 3 Pole Deadend
  - ▲ Guy Anchor
  - ⊕ H-Frame Tangent
- Preliminary Route**
  - Route C
- Project Component**
  - Permanent Easement
  - Temporary Workspace
  - Oil/Gas Well
  - Cadastral Boundary
  - Unpaved Road



Produced For: Kiwetinohk Energy Corp.      Produced By: C. Huck  
 Map Date: February 16, 2023      Map #: Homestead-006 Rev. B

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 Coordinate System: NAD 1983 UTM Zone 12N  
 Path: S:\Client\MHV\Kiwetinohk\Homestead\003\_Mapping\20220126\_PreliminaryRouteMapbook\

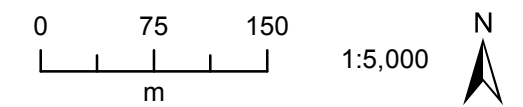
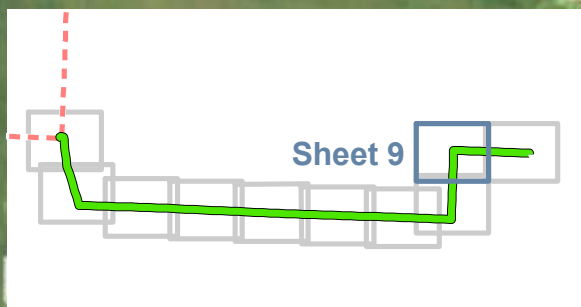




Homestead MPC Solar Project

# Preliminary Interconnection Route C Sheet 9 of 10

- Kilometre Marker
- Structure Type**
  - 3 Pole Deadend
  - ▲ Guy Anchor
  - ⊕ H-Frame Tangent
- Preliminary Route**
  - Route C
- Project Component**
  - Permanent Easement
  - Temporary Workspace
  - Oil/Gas Well
  - Fortis Distribution Line
  - Cadastral Boundary
  - Unpaved Road



Produced For: Kiwetinohk Energy Corp.      Produced By: C. Huck  
 Map Date: February 16, 2023      Map #: Homestead-006 Rev. B

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 Coordinate System: NAD 1983 UTM Zone 12N  
 Path: S:\Client\MHV\Kiwetinohk\Homestead\003\_Mapping\20220126\_PreliminaryRouteMapbook\





Homestead MPC Solar Project

# Preliminary Interconnection Route C Sheet 10 of 10

○ Kilometre Marker

**Structure Type**

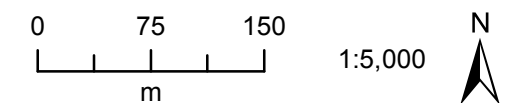
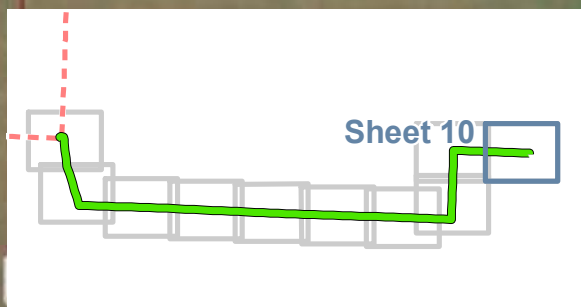
- 3 Pole Deadend
- ⊕ A-Frame
- ▲ Guy Anchor
- ⊕ H-Frame Tangent

**Preliminary Route**

— Route C

**Project Component**

- Permanent Easement
- Temporary Workspace
- Fortis Distribution Line
- Cadastral Boundary
- Unpaved Road





**Attachment 4 – TFO Project Newsletter (March 2023)**





March 2023

# Electric system improvements near you

## Homestead Solar Project Connection

You are receiving this newsletter because you are near the Homestead Solar Project Connection, and we want your input.

To connect Kiwetinohk Energy Corp's (Kiwetinohk) Homestead Solar Project to the grid, AltaLink is proposing modifications to its **transmission** system in the area.

Although AltaLink's project is required to connect the Homestead Solar Project, it is a separate project. Kiwetinohk will consult separately on their proposed project. For more information about Kiwetinohk, see their contact information on the back of this newsletter.

We are providing you with:

- project details
- maps of the proposed project
- information about how you can provide your input
- the project schedule

AltaLink's transmission system efficiently delivers electricity to 85 per cent of Albertans. Dedicated to meeting the growing need for electricity, AltaLink connects Albertans to renewable, reliable, and low-cost power. With a commitment to community and environment, AltaLink is ensuring the transmission system will support Albertans' quality of life for years to come. Learn more at [www.altalink.ca](http://www.altalink.ca).

#### DEFINITIONS:

#### **Transmission**

Transmission lines make up Alberta's electric highway, linking the places where power is generated to where power is used. Transmission lines transport large amounts of power over long distances across the province. The transmission system connects diverse sources of power generation including wind, solar, natural gas and more.

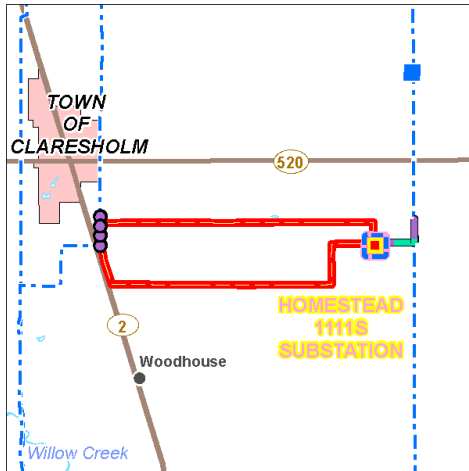
### CONTACT US











1-877-267-1453

[stakeholderrelations@altalink.ca](mailto:stakeholderrelations@altalink.ca)

[www.altalink.ca/projects](http://www.altalink.ca/projects)





LEGEND	
	Proposed Modification of Existing Structure
	Existing Transmission Line
	Approved Homestead Substation
	Hamlet or Locality
	Existing Substation
	Road
	Proposed Underground Fibre Optic Cable
	Urban Area
	Proposed Homestead Transmission Line
	Water Body

## Project details

Kiwetinohk's proposed Homestead Solar Project is located in the Municipal District of Willow Creek, southeast of the Town of Claresholm.

Kiwetinohk is proposing a new transmission line that will connect its Homestead Substation to AltaLink's existing transmission line (called 1037L). This is identified as the Proposed Customer Transmission Line on the maps in this package.

Kiwetinohk is considering two different connection points for this new line. One of the potential connection points is in SW-13-12-27-W4 and the other is in NW-12-12-27-W4. If approved, only one of these connection points will be used. To accommodate this connection, AltaLink is proposing to:

- Modify one structure along the existing 1037L transmission line, at the connection point that is selected by Kiwetinohk
- Install approximately 400 metres of above ground **optical ground wire** (OPGW) between two existing structures along the 1037L
  - New equipment will be installed on each structure to accommodate the OPGW connection
- Install approximately 2.5 kilometres of underground **fibre optic cable** between Kiwetinohk's Homestead Substation and AltaLink's existing 138 kV transmission line (called 180L)
  - This will be starting in NE-18-12-25-W4, primarily within road allowance and partially on private property
  - Where located on private property, a six metre **right-of-way** will be required

Please see the detailed photo map(s) included in this package for more details.



*The image on the left is an example of one of the existing structure types that will be used to connect Kiwetinohk's proposed transmission line.*



*The image on the left is what the proposed modifications to the existing structures on the 1037L transmission line will look like.*

*The image on the right is what the new equipment to accommodate the OPGW will look like.*



### DEFINITION:

#### **Optical ground wire**

This equipment provides lightning protection and is part of a telecommunication network that allows AltaLink to monitor, control, protect, and restore the electric system.

#### **Fibre optic cable**

AltaLink's fibre optic cables transmit data signals between substations and are part of a larger telecommunications system in Alberta. This telecommunications system allows AltaLink control centres to actively monitor the electric system, ensuring it runs safely and reliably.

#### **Right-of-way**

The right-of-way is a strip of land required for the construction, maintenance, and safe operation of a transmission line. A ROW refers to the physical space in which a transmission line is located and includes areas on either side of the transmission line structures and the conductors, which are the wires that carry the electricity.



## Electric and Magnetic Fields (EMF)

AltaLink recognizes that people may have concerns about exposure to EMF and we take those concerns seriously.

Everyone in our society is exposed to power frequency EMF from many sources, including:

- power lines and other electrical facilities
- electrical appliances in your home
- building wiring

National and international organizations such as Health Canada and the World Health Organization (WHO) have been conducting and reviewing research on exposure to EMF for more than 40 years. Based on this research, these agencies have not recommended that the general public needs to take steps to limit their everyday exposure to EMF from high voltage transmission lines, including individuals that are located on the edge of a power line right-of-way.

If you have any questions about EMF, please contact us.

Website: [www.altalink.ca/emf](http://www.altalink.ca/emf)

Email: [emfdialogue@altalink.ca](mailto:emfdialogue@altalink.ca)

Toll-free phone number: 1-866-451-7817

## Providing your input

We will contact landowners, residents and occupants near the proposed project to gather input and address questions or concerns. Our priority is maintaining the health and safety of our employees, contractors, and the general public, while ensuring that we are able to continue to operate our system and keep the lights on for Albertans. We will follow any requested COVID-19 safety protocols for in-person meetings and accommodate your preferred meeting options, including over the phone, virtual or in-person. You can also provide input through our online feedback portal, found here: [www.altalink.ca/projectfeedback](http://www.altalink.ca/projectfeedback).

After our consultation and notification process is complete, we will file an application with the Alberta Utilities Commission (AUC). The AUC ensures the fair and responsible delivery of Alberta's utility services and will review the application through a process in which stakeholders can participate. We will notify stakeholders when we file the application and again once the AUC has reached a decision about the project. To learn more about the AUC process and how you can become involved, please refer to the brochure included in this package titled *Participating in the AUC's independent review process to consider facility applications*.

## Anticipated project schedule

Notify and consult with stakeholders	March - April 2023
File application with Alberta Utilities Commission (AUC)	May 2023
Start construction if project is approved	September 2024
Construction completed	November 2024

*Although we attempt to follow the anticipated project schedule it is subject to change. We will continue to provide you with updated schedule information if required as the project progresses*





## Contact us

*To learn more about the proposed project please contact:*

### **ALTALINK**

1-877-267-1453 (toll free)

E-mail: [stakeholderrelations@altalink.ca](mailto:stakeholderrelations@altalink.ca)

Website: [www.altalink.ca/projects](http://www.altalink.ca/projects)

*To learn more about the Homestead Solar project, please contact:*

### **KIWETINOHK ENERGY CORP.**

Samantha Brown

SABR Energy Consulting Inc., on behalf of Kiwetinohk Energy Corp.

Phone: 587-434-7547

Email: [sbrown@sabreenergyconsulting.com](mailto:sbrown@sabreenergyconsulting.com)

*To learn more about Alberta's electric system and the need for the project, please contact:*

### **ALBERTA ELECTRIC SYSTEM OPERATOR**

1-888-866-2959 (toll-free)

Email: [stakeholder.relations@aeso.ca](mailto:stakeholder.relations@aeso.ca)

Website: [www.altalink.ca/projects](http://www.altalink.ca/projects)

*The AESO is an independent, not-for-profit organization responsible for the safe, reliable and economic planning and operation of the provincial transmission grid. For more information about why this project is needed, please refer to the AESO's Need Overview included with this package or visit [www.aeso.ca](http://www.aeso.ca). If you have any questions or concerns about the need for this project or the proposed transmission development to meet the need you may contact the AESO directly. You can make your questions or concerns known to a transmission facility owner representative who will collect your personal information for the purpose of addressing your questions and/or concerns to the AESO. This process may include disclosure of your personal information to the AESO.*

*To learn more about the application and review process, please contact:*

### **ALBERTA UTILITIES COMMISSION (AUC)**

780-427-4903 (toll-free by dialing 310-0000 before the number.)

Email: [consumer-relations@auc.ab.ca](mailto:consumer-relations@auc.ab.ca)

### **PRIVACY COMMITMENT**

AltaLink is committed to protecting your privacy. Collected personal information will be protected under AltaLink's Privacy Policy and the Personal Information Protection Act. As part of the regulatory process for new transmission projects, AltaLink may provide your personal information to Alberta Utilities Commission (AUC). For more information about how AltaLink protects your personal information, visit our website at [www.altalink.ca/privacy](http://www.altalink.ca/privacy) or contact us directly via e-mail [privacy@altalink.ca](mailto:privacy@altalink.ca) or phone at 1-877-267-6760.

## INCLUDED IN THIS INFORMATION PACKAGE:

- Project maps
- AUC brochure: *Participating in the AUC's independent review process to consider facility applications*
- AESO need overview

## SUBSCRIBE TO THIS PROJECT

- 1) Visit: [altalink.ca/projects](http://altalink.ca/projects)
- 2) Search for the project title
- 3) Click **Subscribe to Updates**

## LET'S TALK TRANSMISSION

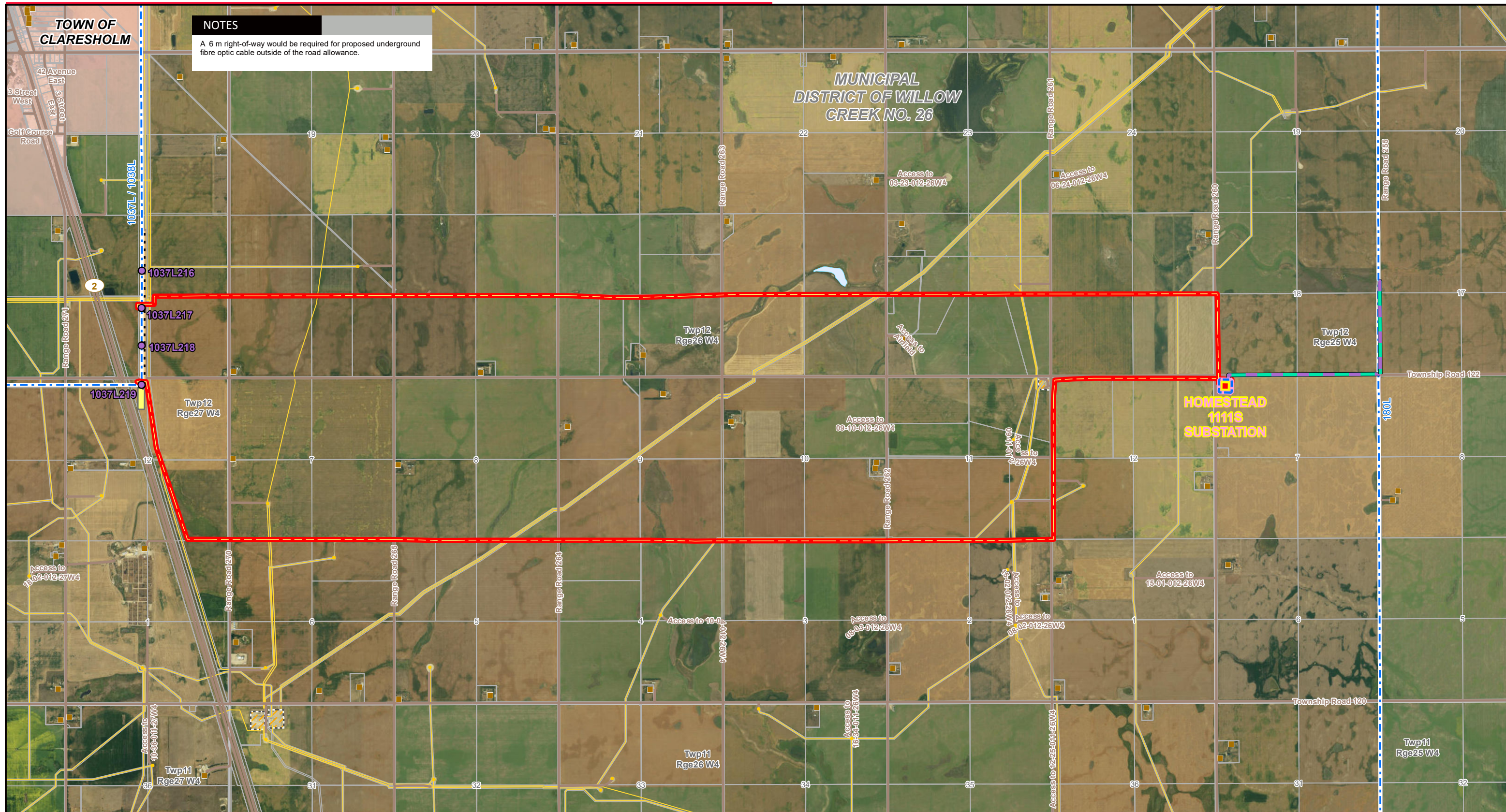


[www.twitter.com/altalink](https://www.twitter.com/altalink)



[www.facebook.com/altalinktransmission](https://www.facebook.com/altalinktransmission)

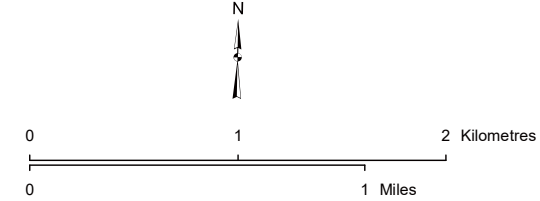




**NOTES**  
 A 6 m right-of-way would be required for proposed underground fibre optic cable outside of the road allowance.

- LEGEND**
- Proposed Modification of Existing Structure
  - Approved Customer Substation
  - Proposed Underground Fibre Optic Cable
  - Proposed Customer Transmission Line
  - Existing Transmission Line
  - Access Trail
  - Construction Workspace
  - Residence
  - Wellsite
  - Pipeline
  - Road
  - Oil and Gas Plant
  - Urban Area
  - Water Body

NO: 35032608 -6103  
 DRAWN: SG- AL  
 FILE NO.: XXXXXXX  
 REVISION: 0.02.08  
 AL FOLDER: Homestead Solar Project Connection  
**DATE: 2023-01-27**



**DETAIL PHOTO DP1**

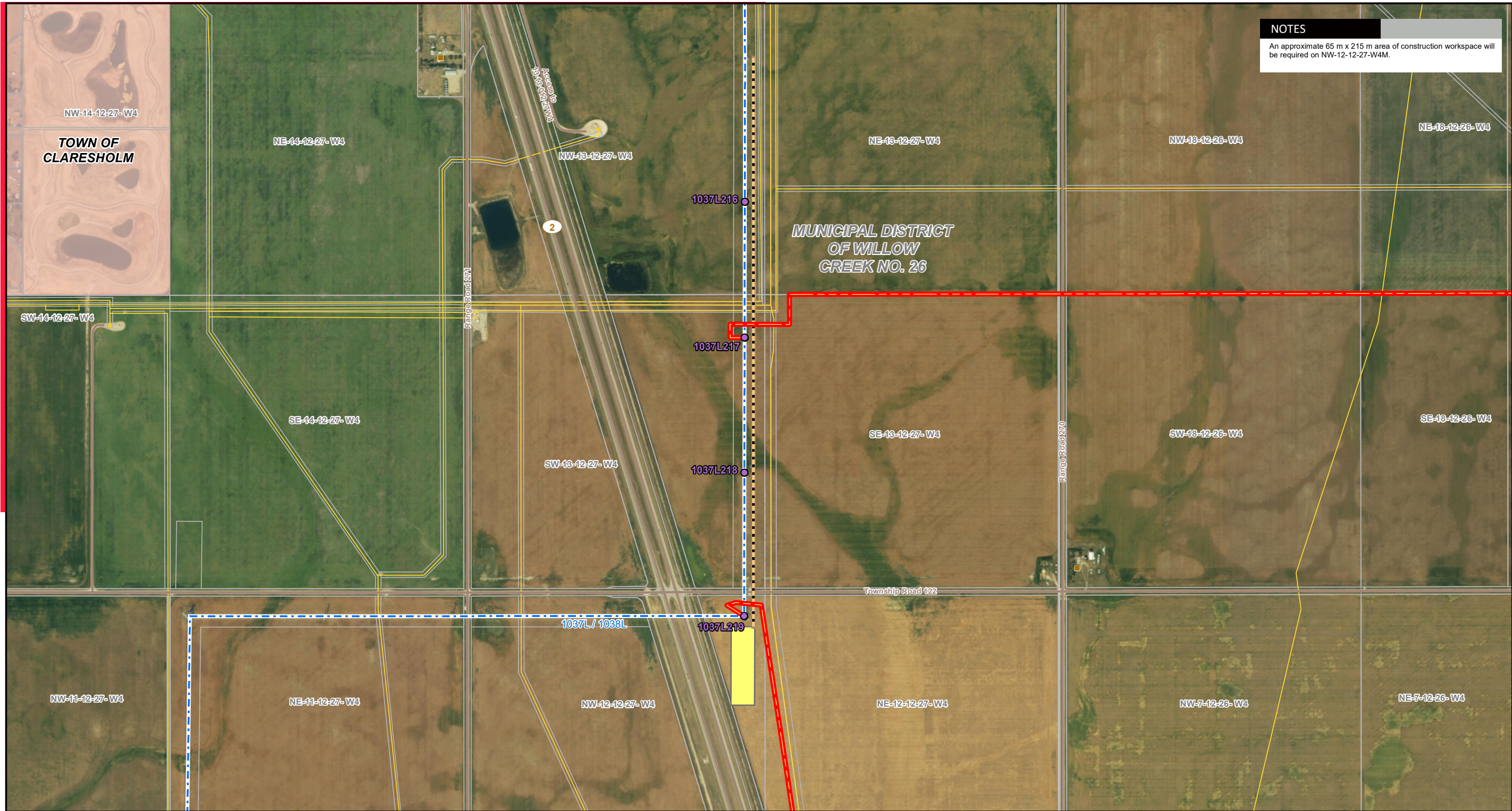
**PROPOSED**  
 Homestead Solar Project Connection

*Service Layer Credits: Source: Esri, Maxar, GeoEye, Earthstar Geographics, CNES/Airbus DS, USDA, USGS, AeroGRID, IGN, and the GIS User Community  
 Although there is no reason to believe that there are any errors associated with the data used to generate this product or in the product itself, users of these data are advised that errors in the data may be present.*















**NOTES**

An approximate 65 m x 215 m area of construction workspace will be required on NW-12-27-W4M.



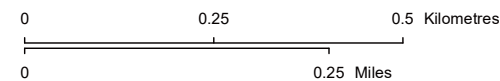
**LEGEND**

-  Proposed Modification of Existing Structure
-  Proposed Underground Fibre Optic Cable
-  Proposed Customer Transmission Line
-  Existing Transmission Line
-  Access Trail
-  Approved Customer Substation
-  Construction Workspace
-  Residence
-  Wellsite
-  Pipeline
-  Road
-  Urban Area

NO: 35032608 -6103  
 DRAWN: SG - AL  
 FILE NO.: XXXXXXXX  
 REVISION: 0.01.06  
 AL FOLDER: Homestead Solar  
 Project Connection

**DATE: 2023-02-01**

*Service Layer Credits: Source: Esri, Maxar, GeoEye, Earthstar Geographics, CNES/Airbus DS, USDA, USGS, AeroGRID, IGN, and the GIS User Community  
 Although there is no reason to believe that there are any errors associated with the data used to generate this product or in the product itself, users of these data are advised that errors in the data may be present.*



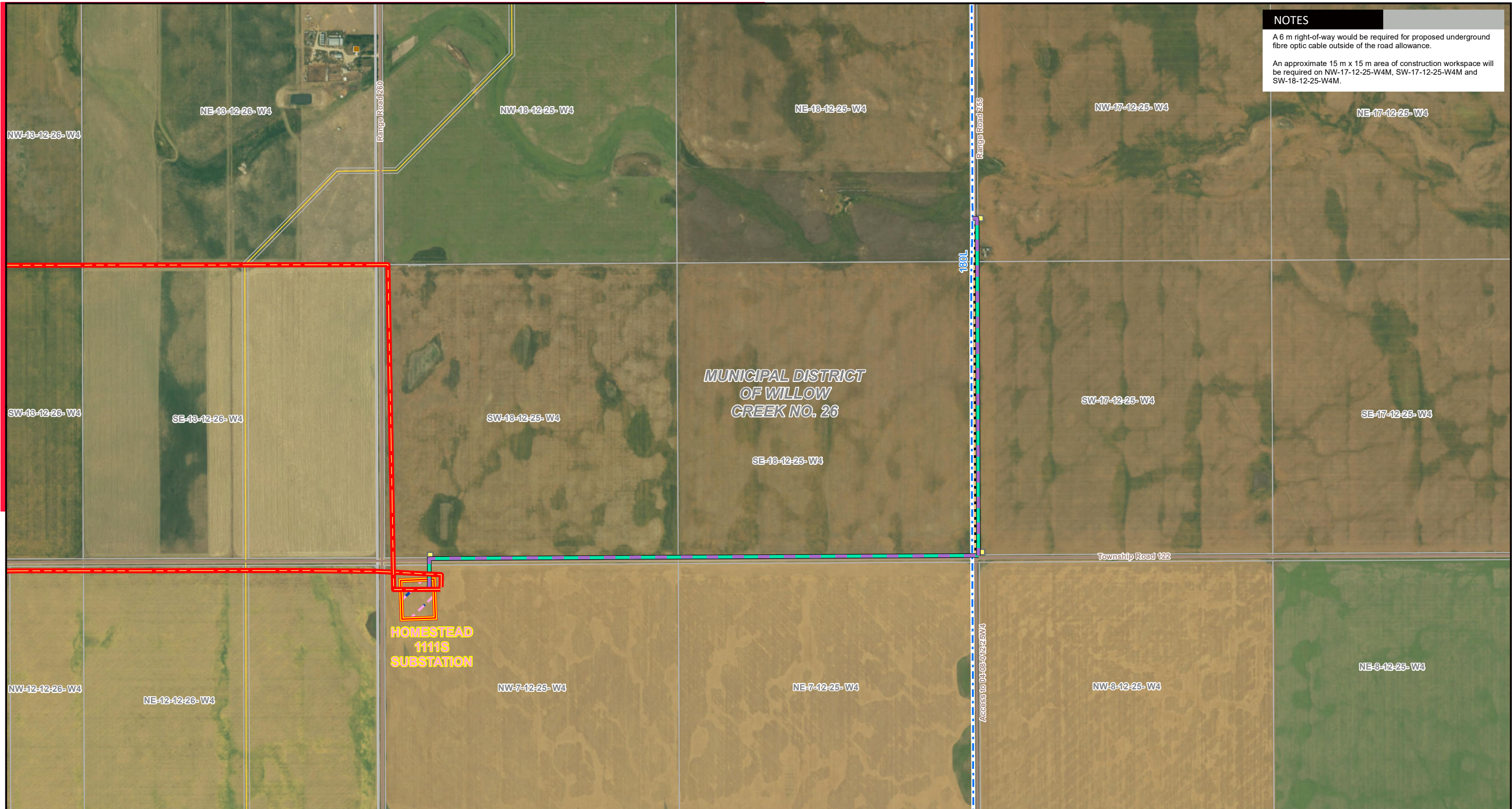
**STRIP MOSAIC SM1**



**PROPOSED**

**Homestead Solar Project Connection**





**NOTES**

A 6 m right-of-way would be required for proposed underground fibre optic cable outside of the road allowance.

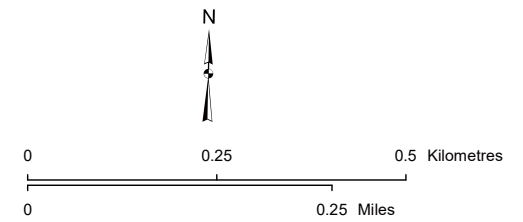
An approximate 15 m x 15 m area of construction workspace will be required on NW-17-12-25-W4M, SW-17-12-25-W4M and SW-18-12-25-W4M.

**LEGEND**

● Proposed Modification of Existing Structure	■ Construction Workspace
— Proposed Underground Fibre Optic Cable	■ Residence
— Proposed Customer Transmission Line	● Wellsite
--- Existing Transmission Line	— Pipeline
--- Access Trail	— Road
□ Approved Customer Substation	■ Urban Area

NO: 35032608 -6103  
 DRAWN: SG - AL  
 FILE NO.: XXXXXXXX  
 REVISION: 0.01.06  
 AL FOLDER: Homestead Solar Project Connection  
**DATE: 2023-02-01**

*Service Layer Credits: Source: Esri, Maxar, GeoEye, Earthstar Geographics, CNES/Airbus DS, USDA, USGS, AeroGRID, IGN, and the GIS User Community  
 Although there is no reason to believe that there are any errors associated with the data used to generate this product or in the product itself, users of these data are advised that errors in the data may be present.*



**STRIP MOSAIC SM2**

**PROPOSED**  
 Homestead Solar Project Connection



# Need for the Homestead Solar Project Connection in the Claresholm area

*Kiwetinohk Energy Corp. (Kiwetinohk) has applied to the AESO for transmission system access to connect its approved Homestead Solar Project (Facility) in the Claresholm area. Kiwetinohk's request can be met by the following solution:*

## PROPOSED SOLUTION

- Add one 240 kilovolt (kV) transmission line to connect the Facility to the existing 240 kV transmission line 1037L in a T-tap configuration.
- Add or modify associated equipment as required for the above transmission developments.

## NEXT STEPS

- The AESO intends to apply to the Alberta Utilities Commission (AUC) for approval of the need in mid-2023.
- The AESO's needs identification document (NID) application will be available on the AESO's website at [www.aeso.ca/grid/transmission-projects](http://www.aeso.ca/grid/transmission-projects) at the time of its application to the AUC.

*The following organizations have key roles and responsibilities in providing access to the transmission system:*

## THE AESO

- Must plan the transmission system and enable access to it for generators and other qualified customers.
- Is regulated by the AUC and must apply to the AUC for approval of its NID.

## KIWETINOHK

- Has requested transmission system access to connect the Facility.
- Is responsible for detailed siting and routing, and constructing the new 240 kV transmission line to connect the Facility.
- Must apply to the AUC for approval of its transmission facilities applications.

## ALTALINK

- Is the transmission facility owner in the Claresholm area.
- Is responsible for operating and maintaining the new 240 kV transmission line, and constructing, operating and maintaining the transmission facilities associated with the addition of the new 240 kV transmission line.
- Is regulated by the AUC and must apply to the AUC for approval of its transmission facilities applications.

## WHO IS THE AESO?

The Alberta Electric System Operator (AESO) plans and operates Alberta's electricity grid and wholesale electricity market safely, reliably and in the public interest of all Albertans. We are a not-for-profit organization with no financial interest or investment of any kind in the power industry.

We appreciate your views, both on the need for transmission system development and proposed transmission plans. If you have any questions or comments, please contact us directly.

## CONTACT US

### Alberta Electric System Operator

AESO Stakeholder Relations  
[stakeholder.relations@aeso.ca](mailto:stakeholder.relations@aeso.ca)  
 1-888-866-2959

2500, 330-5th Avenue SW  
 Calgary, AB T2P 0L4  
 Phone: 403-539-2450

[www.aeso.ca](http://www.aeso.ca) | [@theaeso](https://twitter.com/theaeso)



**Attachment 5 – AESO Market Participant Notification Letter (August 2, 2023)**



August 02, 2023

**Notified Market Participant Corporate Legal Name**  
**Address Line 1.**  
**Address Line 2.**  
**City, Province, Postal Code.**

**Dear Notified Market Participant Primary Contact:**

**Re: Need for the Homestead Solar Project Connection in the Claresholm area**

The Alberta Electric System Operator (AESO) would like to advise you that KEC Homestead Solar GP Corp. (KEC) has applied for transmission system access to connect its Homestead Solar Project (approved Facility) to the Alberta interconnected electric system (AIES) in the AESO South Planning Region.

The purpose of this letter is to advise you that the AESO has identified that, under credible worse case forecast conditions, the **[Effective Generation Facility Name] ([Effective Generation Facility Asset ID])** may be curtailed following the connection of the approved Facility.

### ***Connection Assessment Findings***

An engineering connection assessment was carried out by the AESO to assess the transmission system performance following the connection of the approved Facility.<sup>1</sup> The connection assessment sensitivity studies (which include both the Kirkcaldy Solar Energy Centre and the Nova Solar Project) identified the potential for thermal criteria violations on the 240 kV transmission lines 1109L and 1080L following the connection of the approved Facility, under credible worse case forecast conditions with all transmission facilities in service (Category A). Should the AESO determine that mitigation is required to address potential thermal criteria violations under Category A conditions, the AESO may develop operational procedures or other mitigation measures.

Thermal criteria violations were also identified when a single transmission facility is out of service (Category B) following the connection of the approved Facility. To mitigate the potential Category B system performance issues, planned remedial action scheme (RAS) 193 will be modified by adding the approved Facility to the RAS logic, which curtails the approved Facility upon activation. With the addition of the Facility, the total megawatts tied to RAS 193 would exceed the Maximum Severe Single Contingency (MSSC) limit, assuming the Kirkcaldy Energy Centre is also in service. Therefore, pre-contingency curtailment of projects assigned to the RAS may be required under the Category A condition, to prevent generation curtailment above the MSSC limit during Category B conditions.

The AESO may also make use of real-time operational measures to mitigate these potential system performance issues, in accordance with [Section 302.1 of the ISO rules, Real Time Transmission Constraint Management](#) (TCM Rule). When applied, the TCM Rule could result in the AESO issuing directives for curtailment to source assets that are effective in managing a constraint.

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<sup>1</sup> The studies were performed assuming the Rate STS, *Supply Transmission Service*, contract capacity of 400 MW.



The connection assessment identified source assets, including the **[Effective Generation Facility Asset ID]**, which are effective in mitigating the potential transmission constraints.

If the AESO determines that congestion will arise under Category A conditions, the AESO will make an application to the Alberta Utilities Commission (AUC) to obtain approval for an “exception” under Section 15(2) of the *Transmission Regulation*. The AESO will notify market participants if and when the AESO determines it is necessary to apply to the AUC for approval of such an exception.

***For Further Information***

The AESO Need Overview document is attached for your information. The AESO Need Overview describes the AESO’s proposed transmission development to connect the approved Facility to the AIES.

To support the AESO’s consideration of the Homestead Solar Project Connection under the Abbreviated Needs Approval Process, the engineering connection assessment will be posted on the AESO website at: <https://www.aeso.ca/grid/transmission-projects/homestead-solar-project-connection-2445/>. Stakeholders will be notified when this occurs via the AESO website and in the AESO stakeholder newsletter.

If you have any questions or concerns, please contact the AESO at 1-888-866-2959 or [stakeholder.relations@aeso.ca](mailto:stakeholder.relations@aeso.ca)

**Attachments:**

AESO Need Overview: *Need for the Homestead Solar Project Connection in the Claresholm area*



# Need for the Homestead Solar Project Connection in the Claresholm area

*Kiwetinohk Energy Corp. (Kiwetinohk) has applied to the AESO for transmission system access to connect its approved Homestead Solar Project (Facility) in the Claresholm area. Kiwetinohk's request can be met by the following solution:*

## PROPOSED SOLUTION

- Add one 240 kilovolt (kV) transmission line to connect the Facility to the existing 240 kV transmission line 1037L in a T-tap configuration.
- Add or modify associated equipment as required for the above transmission developments.

## NEXT STEPS

- The AESO intends to apply to the Alberta Utilities Commission (AUC) for approval of the need in mid-2023.
- The AESO's needs identification document (NID) application will be available on the AESO's website at [www.aeso.ca/grid/transmission-projects](http://www.aeso.ca/grid/transmission-projects) at the time of its application to the AUC.

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- Is regulated by the AUC and must apply to the AUC for approval of its transmission facilities applications.

## WHO IS THE AESO?

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We appreciate your views, both on the need for transmission system development and proposed transmission plans. If you have any questions or comments, please contact us directly.

## CONTACT US

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**Attachment 6 – AESO Public Notification of ANAP Consideration Posting (August 2023)**



# Homestead Solar Project Connection (2445)

## Abbreviated Needs Approval Process: Notice of Consideration

The AESO intends to consider the need for the Homestead Solar Project Connection (Project) for approval under Section 501.3 of the ISO rules, *Abbreviated Needs Approval Process*, (ANAP Rule) on or after August 31, 2023. If stakeholders have any questions or concerns, please contact the AESO before this date.

The AESO has determined that the Project is eligible for consideration under the ANAP Rule because the following eligibility criteria have been met:

- project costs are estimated to be less than \$25M, of which approximately \$1M is classified as system-related in accordance with the ISO tariff;
- the AESO has completed a participant involvement program (PIP) in accordance with the guidelines in Alberta Utilities Commission Rule 007;
- the Project is not anticipated to result in significant environmental effects; and
- stakeholder concerns or objections with the need for the Project have been addressed. Prior to making its approval decision, the AESO will address additional stakeholder concerns that arise, if any.

Supporting information about this Project is available in the following documents:

- Engineering Connection Assessment
- Cost Estimate
- PIP Summary



**Attachment 7 – AESO Stakeholder Newsletter Notice of ANAP Consideration (August 16, 2023)**



August 16, 2023

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# AESO Stakeholder Newsletter

## GRID

### **Homestead Solar Project Connection - Abbreviated Needs Approval Process Notice of Consideration**

The AESO intends to consider the need for the Homestead Solar Project Connection for approval under Section 501.3 of the ISO rules, *Abbreviated Needs Approval Process*, (ANAP Rule) on or after August 31, 2023. If stakeholders have any questions or concerns, please contact the AESO before this date.

KEC Homestead Solar GP Corp. (KEC) has applied to the AESO for transmission system access to connect its approved Homestead Solar Project (Facility) in the Claresholm area. KEC's request can be met by the following solution:

- Add one 240 kilovolt (kV) transmission line to connect the Facility to the existing 240 kV transmission line 1037L in a T-tap configuration.
- Add or modify associated equipment as required for the above transmission developments.

More information is available on the AESO website. Please [click here](#) to view the project page or visit the AESO website at [www.aeso.ca](http://www.aeso.ca) and follow the path Grid > Projects > Homestead Solar Project Connection (2445) to see relevant supporting documents.