ALTALINK
A BERKSHIRE HATHAWAY ENERGY COMPANY

Community workshop information booklet

Chapel Rock to Pincher Creek Area Transmission Development

Workshop information booklet

Welcome

Thank you for participating in our workshop to discuss the Chapel Rock to Pincher Creek Area Transmission Development. We appreciate you attending the workshop and look forward to hearing your thoughts

Project overview

The proposed Chapel Rock to Pincher Creek Area Transmission Development includes building a new substation that will connect to an existing transmission line west of Highway 22 and approximately 40 to 50 kilometres of new transmission line that will connect to an existing substation in the Pincher Creek area.

Some of the technical requirements and milestones for this project are different than on previously proposed projects in the area and could allow more flexibility for routing options and structure types.

How your input will be used

The input gathered from the workshops will be used in our routing and structures selection processes. Following the workshops we will share a report with participants outlining what we heard. We anticipate having more information about routing options and structure types in late spring.

Who is AltaLink?

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.

CONTACT US

1-877-267-1453

stakeholderrelations@altalink.ca

www.altalink.ca/chapelrock

Single circuit structure information

Structure 1

Structure height	27 - 31 metres
Structure width	14 metres
Right-of-way width	43 - 50 metres
Structures per kilometre	3 - 3.5
Can be placed in road allowance	No
Guy wires required	Yes

Structure 2

Structure height	24 - 27 metres
Structure width	5 metres
Right-of-way width	32 - 35 metres
Structures per kilometre	4 - 5
Can be placed in road allowance	Partially
Guy wires required	No

Structure 3

Structure height	27 - 30 metres
Structure width	1 metre
Right-of-way width	23 - 26 metres
Structures per kilometre	4 - 5
Can be placed in road allowance	Yes
Guy wires required	No

All dimensions are approximate and subject to change

Twin single circuit structure information

If the first circuit is constructed as a single circuit, it is possible that twinned single circuit structures could be used along the same alignment for the second circuit. The dimensions for a twinned alignment are outlined below.

Structure 1 twinned

Structure height	27 - 31 metres
Structure width	21 metres
Right-of-way width	69 - 83 metres
Structures per kilometre	6 - 7
Can be placed in road allowance	No
Can be placed on private property	Yes
Guy wires required	Yes

Structure 2 twinned

Structure height	24 - 27 metres
Structure width	18 metres
Right-of-way width	61 - 69 metres
Structures per kilometre	8 - 10
Can be placed in road allowance	Partially
Can be placed on private property	Yes
Guy wires required	No

Structure 3 twinned

Structure height	27 - 30 metres
Structure width	14 metre
Right-of-way width	34 - 38 metres
Structures per kilometre	8 - 10
Can be placed in road allowance	Yes
Can be placed on private property	Yes
Guy wires required	No

All dimensions are approximate and subject to change

Double circuit structure information

Structure 4

Structure height	33 - 36 metres
Structure width	1 metre
Right-of-way width	23 - 26 metres
Structures per kilometre	4 - 5
Can be placed in road allowance	Yes
Guy wires required	No

Structure 5

Structure height	25 - 28 metres
Structure width	24 metres
Right-of-way width	52 - 56 metres
Structures per kilometre	4 - 5
Can be placed in road allowance	No
Guy wires required	No

Structure 6

Structure height	42 - 52 metres
Structure width	7 - 12 metres
Right-of-way width	53 - 60 metres
Structures per kilometre	3 - 3.5
Can be placed in road allowance	No
Guy wires required	No

Structure 7

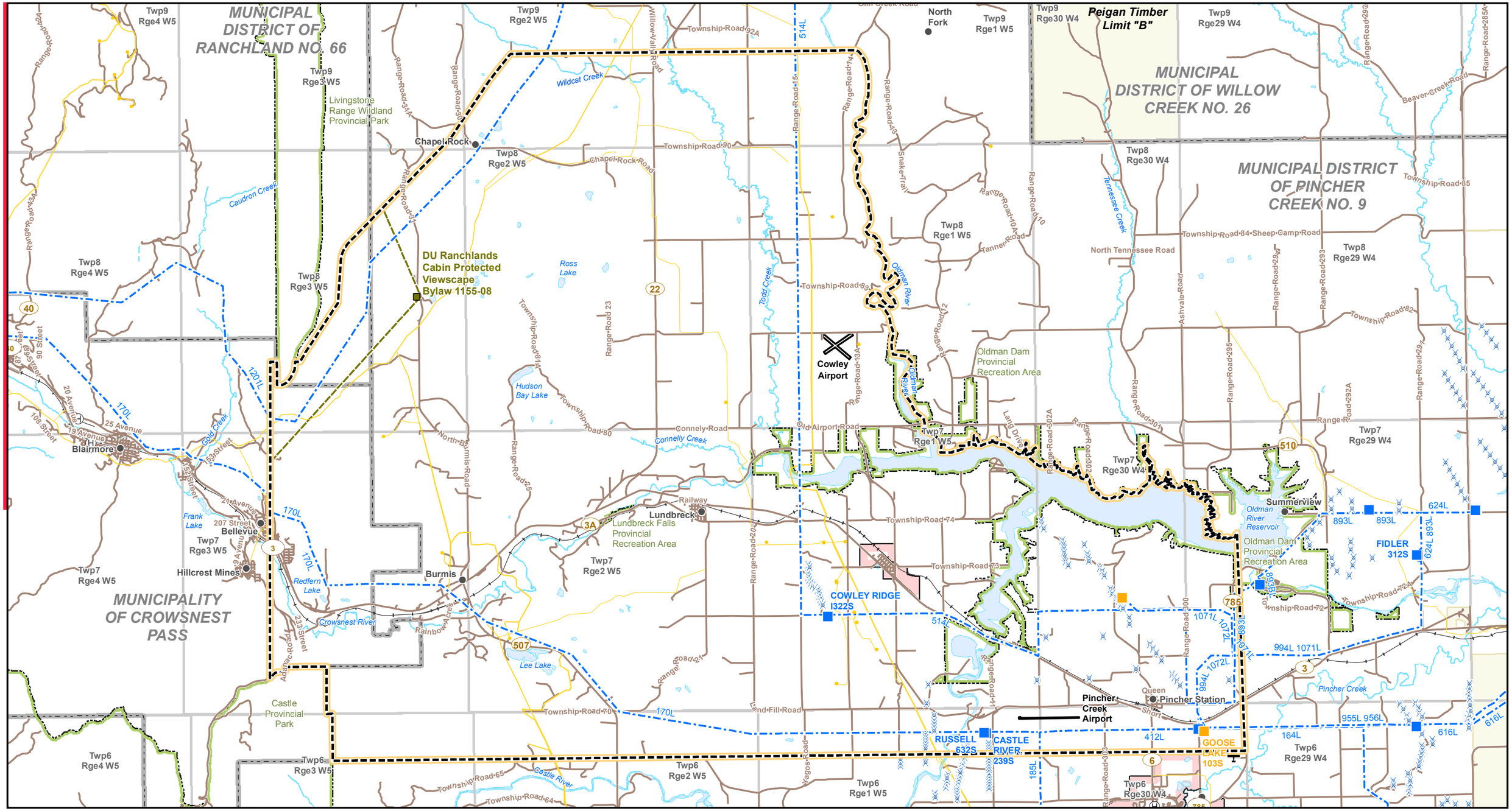
Structure height	33 - 37 metres
Structure width	6 metres
Right-of-way width	30 - 34 metres
Structures per kilometre	4 - 5
Can be placed in road allowance	Partially
Guy wires required	No

All dimensions are approximate and subject to change

Structure placement comparison

Topic	Private Property	Road Allowance
Structure types	All structure types could be located on private property.	Various structures could be used. Structures 1, 5 and 6 cannot fit within road allowance.
Milestone one: first circuit constructed by 2023 based on generation milestones	Could be constructed as a double circuit structure, and strung on one side. Or could be constructed as a single circuit structure.	Could be constructed as a double circuit structure, and strung on one side with structures 4 or 7. Or could be constructed as a single circuit structure.
Milestone two: second circuit constructed by 2029 based on generation milestones	Could use the same double circuit structure with both sides strung. Or could be constructed as one single circuit parallel to the first circuit. Or could be constructed on another quarter line than the first circuit.	Could use the same double circuit structure with both sides strung with structures 4 or 7. Or could be constructed parallel (on private property) to the first circuit if the first circuit is constructed within road allowance. Or could be constructed in a different road allowance.
Right-of-way (ROW)	Varying ROW widths depending on the structure type and location of the second circuit. Approximate ROW width can be as much as 83 metres.	Varying ROW widths depending on the structure type and location of second circuit. If a double circuit structure with both sides strung (structure 4 or 7) an approximate ROW of up to 34 metres. If a second circuit is constructed parallel (on private property) a ROW of up to 50 metres.

Topic	Private Property	Road Allowance
Land use & environment	Structures will generally be located along quarter line or other land use breaks where possible. Potential to parallel larger existing transmission lines through the project area. In uncultivated areas, structures may be located on native vegetation.	Potential road allowances include highways, local township and range roads. Potential to use and/or follow existing linear disturbances. Potential to reduce impacts to native vegetation by locating the transmission line in or adjacent to previously disturbed areas.
Agricultural impacts	Twin single circuit structures may have higher impacts due to structure location and ROW widths.	A single circuit or double circuit structure located in road allowance will have limited agricultural impacts. A second circuit structure constructed parallel (on private property) may have higher impacts as the second structure may be located on cultivated land.
Visual impacts	Variable depending on the type of structure selected. As residences are typically located close to road allowances, visual impacts from a residential perspective may be lower.	Variable depending on the type of structure selected. As residences are typically located close to road allowances, visual impacts from a residential perspective may be higher.
Construction	For a double circuit option, the majority of construction activity will be completed at the time of construction of the first circuit with a stringing crew completing work on the second circuit. In the event two single circuits are approved beside each other or in separate locations, there will be two similar construction periods and activities in order to construct each circuit.	



LEGEND

- Study Area
- Potential Substation Termination Point
- Existing Substation
- Existing Transmission Line
- Air Strip
- Helicopter Pad
- DU Ranchlands Cabin
- Hamlet or Locality
- Wellsite
- Wind Turbine
- DU Ranchlands View
- Pipeline
- Railway
- River or Stream
- Road
- Airport
- First Nations Reserve
- Municipal or County Boundary
- Park / Other Protected Area
- Urban Area
- Water Body

NO:
DRAWN: STN - DS
FILE NO.: 123511285-0003
REVISION: 0.00.00
AL FOLDER: Chapel Rock to Pincher Creek
DATE: 2018-03-29

N

0 1 2 3 4 5 6 7 8 Kilometres
0 1 2 3 4 5 Miles

STUDY AREA **SAM1**

ALTALINK
A BERKSHIRE HATHAWAY ENERGY COMPANY

240/500 kV Transmission Line and Substation:
Chapel Rock to Pincher Creek Area
Transmission Development

Values, interests and priorities

What we heard

Below is a high level overview of the main themes that we heard from landowners during consultation for the Castle Rock Ridge to Chapel Rock Transmission Project. While not an exhaustive list, the majority of the comments we heard could fit into one of these themes.

Routing and siting
- Follow existing corridors/infrastructure
- Place the line underground to address potential visual and residential impacts

Environment
- Avoid wildlife, wildlife corridors and environmentally significant areas
- Avoid native grasslands

Visual impacts
- Concerns for potential impacts to the scenic viewscape throughout the project area
- Concerns for potential impacts along Highway 3 and Highway 22

Property values
- Concerns with perceived reduced resale values

Project need
- Concerns that the project is not required

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Calgary, Alberta T2A 7W7

Contact us

To learn more about the proposed Chapel Rock to Pincher Creek Area Transmission Development, please contact:

ALTALINK
1-877-267-1453 (toll-free)
stakeholderrelations@altalink.ca
www.altalink.ca/chapelrock

To participate in the online workshop, please visit www.letstalkchapelrock.com from April 12 until April 30.

Let's talk transmission

www.facebook.com/altalinktransmission

www.twitter.com/altalink