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March 16, 2020

Impact Assessment Agency of Canada
Prairie and Northern Region
Canada Place
Suite 1145, 9700 Jasper Avenue
Edmonton, AB T5J 4C3

Attention: Barbara Pullishy, Regional Director, Prairie and Northern Region

Dear Ms. Pullishy:

**Re: NOVA Gas Transmission Ltd. (NGTL) and Foothills Pipe Lines (South B.C.) Ltd. (Foothills)
Response to Designation Request for the NGTL West Path Delivery 2022, Foothills Zone 8 West Path Delivery 2022, NGTL West Path Delivery 2023, and Foothills Zone 8 West Path Delivery 2023 Projects**

In response to the March 9, 2020 letter from the Impact Assessment Agency of Canada (Agency), NGTL and Foothills provides the following information regarding the:

- Description of the Projects routing/location and information about key project activities, maps and layouts of the location of project components, land tenure, zoning, and estimated timelines for planning, construction, operation, decommissioning and abandonment.

The remaining requested information will be submitted to the Agency by March 29, 2020.

Should the Agency require any additional information with respect to this filing, please contact the undersigned at (403) 461-6851 or tisha_homer@tcenergy.com.

Yours truly,

NOVA Gas Transmission Ltd. and Foothills Pipe Lines (South B.C.) Ltd.

Original signed by

Tisha Homer
Manager Regulator Facilities
Canadian Natural Gas Projects

Enclosures

cc: Ms. L. George, Secretary of the Commission, Canada Energy Regulator
Dean Cherkas, Director of Consultation, Stoney Tribal Administration

Request: Please provide a description of the Projects including routing/location and latitude/longitude.

1. Information about key project activities, maps and layouts of the location of project components, land tenure, zoning, and estimated timelines for planning, construction, operation, decommissioning and abandonment.

Response:

NGTL West Path Delivery 2022 Project

The NGTL West Path Delivery 2022 Project (Project) consists of the addition of two loops of pipeline and the modification of the existing meter station to measure additional volumes to meet commercial requirements for 2022.

The **Edson Mainline (ML) Loop No. 4 - Raven River Section** (Raven River Section) consists of approximately 18 km of 1219 mm diameter (Nominal Pipe Size [NPS] 48) natural gas pipeline. The pipeline segment will be located approximately 16 km northwest from the Town of Sundre, Alberta. This section is contiguous with existing disturbance for 79% of its length. The segment route will cross Crown (81%) and Freehold (19%) land starting from SW 02-36-07 W5M and ending at SE 26-34-06 W5M. Acquisition of new land for the pipeline segment and temporary workspace (TWS) during construction is anticipated to be required. Temporary worker accommodation (camp) may be required, or NGTL may utilize local accommodations within nearby communities (Sundre, Olds, Rocky Mountain House, and Innisfail, Alberta).

The **Western Alberta System Mainline (WASML) Loop No. 2 - Alberta British Columbia Section** (ABC Section) consists of approximately 6 km of 1219 mm diameter (NPS 48) natural gas pipeline. The pipeline segment will be located approximately 6 km west of the Town of Coleman, Alberta. This section is contiguous with existing disturbance for 90% of its length. The segment route will cross Crown (38%) and Freehold (62%) land starting from NW 11-08-05 W5M and ending at SE 18-08-05 W5M at the Alberta/British Columbia provincial border. Acquisition of new land for the pipeline segment and TWS during construction is anticipated to be required. Temporary worker accommodation (camp) may be required, or NGTL may utilize local accommodations within nearby communities (Pincher Creek and Blairmore, Alberta; and Sparwood, British Columbia).

The **ABC Border Meter Station Expansion** (ABC Border) consists of modifications to NGTL's existing ABC Border Meter Station (reconfiguring and replacing existing mechanical equipment; and potential modification of yard piping). The expansion will not require the acquisition of new land and will be entirely within the boundaries of the existing fenced meter station site, located in NW 11-08-05 W5M, approximately 6 km west of the Town of Coleman, Alberta. NGTL anticipates requiring TWS as part of the expansion

activities outside the fenced meter station site; however, the TWS will be within NGTL-owned land.

See Table IAA 1.1-1 and attached global and regional maps (Attachment 1.1-1) for locations of the Project components.

Table IAACER 2.1-1: NGTL West Path Delivery 2022 (Alberta)

Project Component		Latitude	Longitude
Edson Mainline Loop No. 4 Raven River Section	Start	52.058	-114.904
	End	51.945	-114.739
Western Alberta System Mainline Loop No. 2 Alberta British Columbia Section	Start	49.635	-114.587
	End	49.644	-114.714
ABC Border Meter Station Expansion		49.635	-114.587

Schedule and Project Activities

- Planning for the Raven River Section and ABC Section, which included route refinement, stakeholder and Indigenous group identification and early engagement, commenced in October 2019. Planning for the ABC Border, which included stakeholder and Indigenous group identification and early engagement commenced in December 2019.
- A section 214 application to the Canada Energy Regulator (CER) for approval of the Project is planned to be filed in June 2020.
- Construction will consist of clearing work and ancillary site preparation which is scheduled from October to the end of December 2021 (Raven River Section) and January to the end of March 2022 (ABC Section).
- Pipeline construction is scheduled between October 2021 and April 2022 (Raven River Section) and July and November 2022 (ABC Section).
- The ABC Border work is scheduled to be completed between August 2022 to October 2022.
- In-line inspection infrastructure (launchers and receivers for inspection tools) will be installed above-ground at both ends of all the sections.
- This Project is expected to be placed in service in April 2022 (Raven River Section) and November 2022 (ABC Section) and remain in service for an estimated lifespan of 40 years. The ABC meter station will be required to be in place for as long as the pipeline continues to operate. Decommissioning and abandonment will be completed in accordance with the applicable regulatory requirements in place at a future time.

Foothills Zone 8 West Path Delivery 2022 Project

The Foothills Zone 8 West Path Delivery 2022 Project (Project) consists of the addition of two loops of pipeline to meet commercial requirements for 2022.

The **British Columbia Mainline Loop No. 2 - Crowsnest Section** (Crowsnest Section), consisting of approximately 4 km of 1219 mm diameter (NPS 48) natural gas pipeline, to be located approximately 11 km west of Coleman, Alberta. This section is contiguous with existing disturbance for 100% of its length. The segment route will cross Crown (17%) and Freehold (83%) land from the Alberta / British Columbia border at b-73-G/82-G-10 and ending at NGTL’s existing Crowsnest Compressor Station at d-78-G/82-G-10 in British Columbia. Acquisition of new land and TWS is anticipated to be required for the Project. Temporary worker accommodation (camp) may be required or Foothills may utilize local accommodations within nearby communities (Blairmore, Alberta and Sparwood, British Columbia).

The **British Columbia Mainline Loop No. 2 - Yahk Section** (Yahk Section) consists of approximately 13 km of 1219 mm diameter (NPS 48) natural gas pipeline, to be located approximately 25 km east of the Town of Creston, British Columbia. This section is contiguous with to existing disturbance for 70% of its length. The segment route will cross Crown (79%) and Freehold (21%) land starting from b-53-H/82-F-1 and b-72-B/82-F-1. Acquisition of new land and TWS is anticipated to be required. Temporary worker accommodation (camp) may be required or Foothills may utilize local accommodations within nearby communities (Creston and Cranbrook, British Columbia).

See Table IAA 1.1-2 and attached global and regional maps (Attachment 1.1-2) for locations of the Project components.

Table IAA 1.1-2: Foothills Zone 8 West Path Delivery 2022 (British Columbia)

Project Component		Latitude	Longitude
British Columbia Mainline Loop No. 2 - Crowsnest Section	Start	49.644	-114.662
	End	49.647	-114.714
British Columbia Mainline Loop No. 2 - Yahk Section	Start	49.128	-116.034
	End	49.059	-116.149

Schedule and Project Activities

- Planning for the Crowsnest and Yahk Sections, which included route refinement, stakeholder and Indigenous group identification and early engagement, commenced in October 2019.
- A section 214 application to the CER for approval of the Project is planned to be filed in June 2020.

- Construction will consist of clearing work and ancillary site preparation and is scheduled to take place from February to the end of March 2022.
- Pipeline construction is scheduled to take place between July and October 2022.
- In-line inspection infrastructure will be installed above-ground at both ends of the Yahk Section.
- The Project is expected to be placed in service in November 2022 and remain in service for an estimated lifespan of 40 years. Decommissioning and abandonment will be completed in accordance with applicable regulatory requirements in place at a future time.

NGTL West Path Delivery 2023 Project

The NGTL West Path Delivery 2023 Project (Project) consists of the addition of three loops of pipeline to meet service requests for 2023.

The **WASML Loop No. 2 - Turner Valley Section** (Turner Valley Section) consists of approximately 23 km of 1219 mm diameter (NPS 48) natural gas pipeline. The pipeline segment will be located approximately 3 km northwest from the Town of Turner Valley, Alberta. This section is contiguous with existing disturbance for 94% of its length. The segment route will cross Crown (1%) and Freehold (99%) land starting from SE 29-22-03 W5M and ending at SE 15-20-03 W5M. Acquisition of new land for the pipeline segment and TWS during construction is anticipated to be required. Temporary worker accommodation (camp) may be required, or NGTL may utilize local accommodations within nearby communities (Calgary, Okotoks, and High River, Alberta).

The **WASML Loop No. 2 - Longview Section** (Longview Section) consists of approximately 10 km of 1219 mm diameter (NPS 48) natural gas pipeline. The pipeline segment will be located approximately 30 km southwest from the Town of High River, Alberta. This section is contiguous with existing disturbance for 97% of its length. The segment route will cross Crown (21%) and Freehold (79%) land starting from NE 19-17-02 W5M and ending at NW 28-16-02 W5M. Acquisition of new land for the pipeline segment and TWS during construction is anticipated to be required. Temporary worker accommodation (camp) may be required, or NGTL may utilize local accommodations within nearby communities (High River and Okotoks, Alberta).

The **WASML Loop No. 2 - Lundbreck Section** (Lundbreck Section) consists of approximately 7 km of 1219 mm diameter (NPS 48) natural gas pipeline. The pipeline segment will be located approximately 3 km northwest from the Town of Turner Valley, Alberta. This section is contiguous with existing disturbance for 100% of its length. The segment route will cross Crown (58%) and Freehold (42%) land starting from NE 11-08-03 W5M and ending at NW 32-07-03 W5M. Acquisition of new land for the pipeline segment and TWS during construction is anticipated to be required. Temporary worker accommodation (camp) may be required, or NGTL may utilize local accommodations within

nearby communities (High River and Pincher Creek Alberta and, Sparwood, British Columbia).

See Table IAA1.1-3 and attached global and regional maps (Attachment 1.1-3) for locations of the Project components.

Table IAA 1.1-3: NGTL West Path Delivery 2023 (Alberta)

Project Component		Latitude	Longitude
Western Alberta System Mainline Loop No. 2 - Turner Valley Section	Start	50.893	-114.382
	End	50.694	-114.328
Western Alberta System Mainline Loop No. 2 - Longview Section	Start	50.453	-114.256
	End	50.382	-114.225
Western Alberta System Mainline Loop No. 2 - Lundbreck Section	Start	49.636	-114.306
	End	49.608	-114.383

Schedule and Project Activities

- Planning for all Sections, which included route refinement, stakeholder and Indigenous group identification and early engagement, commenced in October 2019.
- A section 182 application to the CER for a recommendation to the Governor in Council for approval of the Project is planned to be filed in October 2020.
- Construction will consist of clearing work and ancillary site preparation from January to the end of March 2023.
- Pipeline construction is planned between July and November 2023.
- In-line inspection infrastructure will be installed above ground at both ends of all Sections.
- This Project is expected to be placed in service in November 2023 and remain in service for an estimated lifespan of 40 years. Decommissioning and abandonment will be completed in accordance with the applicable regulatory requirements in place at a future time.

Foothills Zone 8 West Path Delivery 2023 Project

The Foothills Zone 8 West Path Delivery 2023 Project (Project) consists of the addition of a single loop of pipeline and the modification of the existing meter station to measure additional volumes to meet commercial requirements for 2023.

The **British Columbia Mainline Loop No. 2 Elko Section** (Elko Section) consists of approximately 31 km of 1219 mm (NPS 48) natural gas pipeline to be located approximately 17 km east of the town of Fernie, British Columbia. This section is contiguous with existing disturbance for 80% of its length. The segment route will cross Crown (96%) and Freehold (4%) land starting from B-25-C/82-G-10 and B-84-D/82-G-7. Acquisition of new land and TWS is anticipated to be required. Temporary worker accommodation (camp) may be

required or Foothills may utilize local accommodations within nearby communities (Sparwood and Fernie, British Columbia).

The **Kingsgate Border Meter Station** (Kingsgate) consists of the change out of fourteen (14) orifice-meter plates within the existing meter station site at b-05-B/82-F-1. The location is identified in Table 1 below and the attached map. There is no additional land required for this portion of the Project and no requirement for local accommodations.

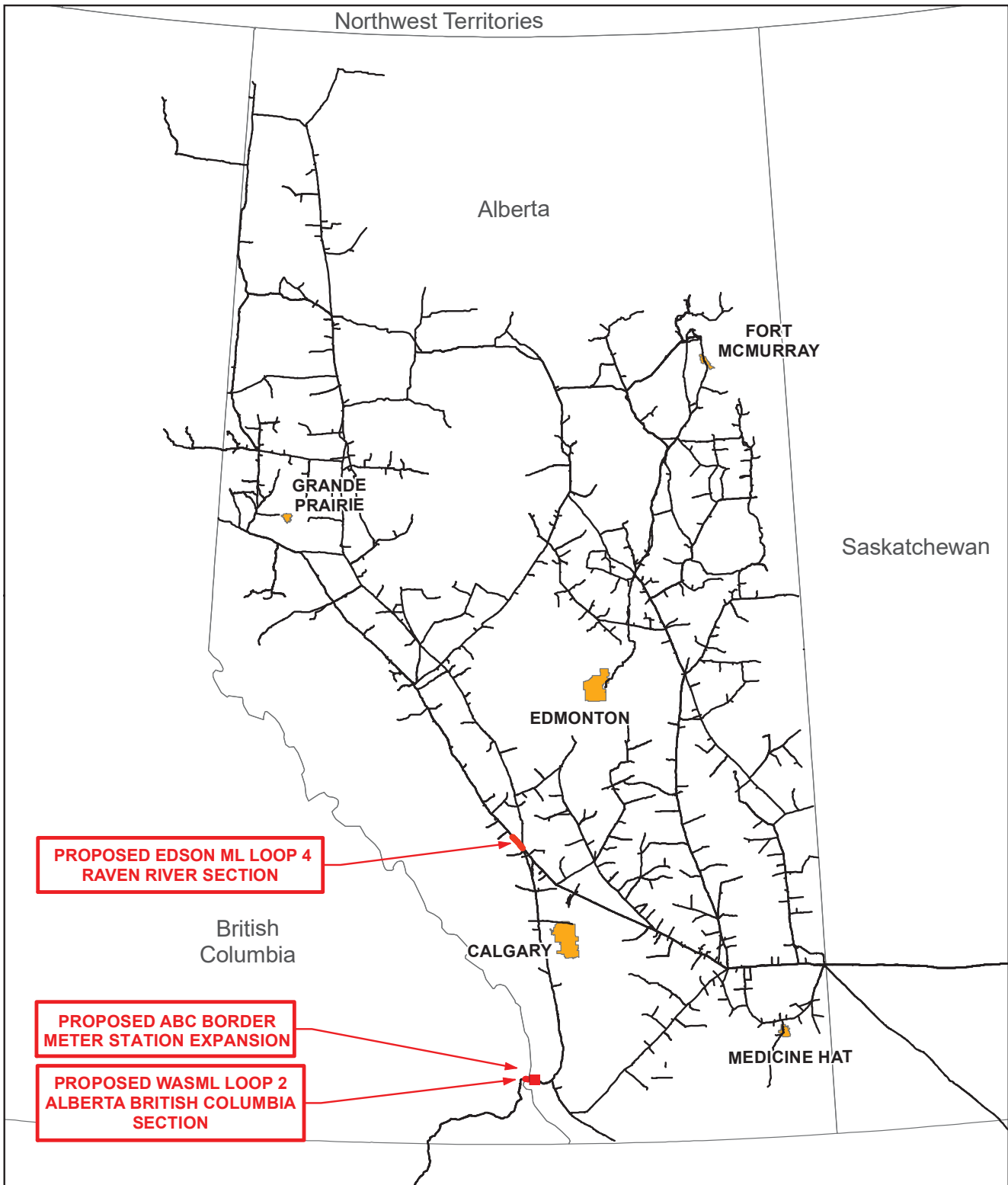
See Table IAA1.1-4 and attached global and regional maps (Attachment 1.1-4) for locations of the Project components.

Table IAA 1.1-4: Foothills Zone 8 West Path Delivery 2023 (British Columbia)

Project Component		Latitude	Longitude
British Columbia Mainline Loop No. 2 Elko Section	Start	49.517	-114.813
	End	49.319	-114.924
Kingsgate Border Meter Station Modification		49.001	-116.186

Schedule and Project Activities

- Planning for the Elko Section, which included route refinement, stakeholder and Indigenous group identification and early engagement, commenced in October 2019. Planning for the Kingsgate Border Meter Station, which included stakeholder and Indigenous group identification and early engagement commenced in January 2020.
- A section 214 application to the CER for approval of the Project is planned to be filed in June 2021.
- Construction on the Elko Section will consist of ancillary site preparation commencing in May 2022, followed by the installation of a cable crane system and right-of-way clearing and grading work from August to the end of October 2022.
- Pipeline construction of the Elko Section will take place between July and October 2023. The modification work for Kingsgate is not currently scheduled and is expected to take only a single day to complete. This work will be completed prior to November 2023.
- In-line inspection launcher infrastructure will be installed above ground at the north end of this Section.
- This Elko Section is expected to be placed in service in November 2023 and remain in service for an estimated lifespan of 40 years. The meter station will be required to be in place for as long as the pipeline continues to operate. Decommissioning and abandonment will be completed in accordance with the applicable regulatory requirements in place at a future time.



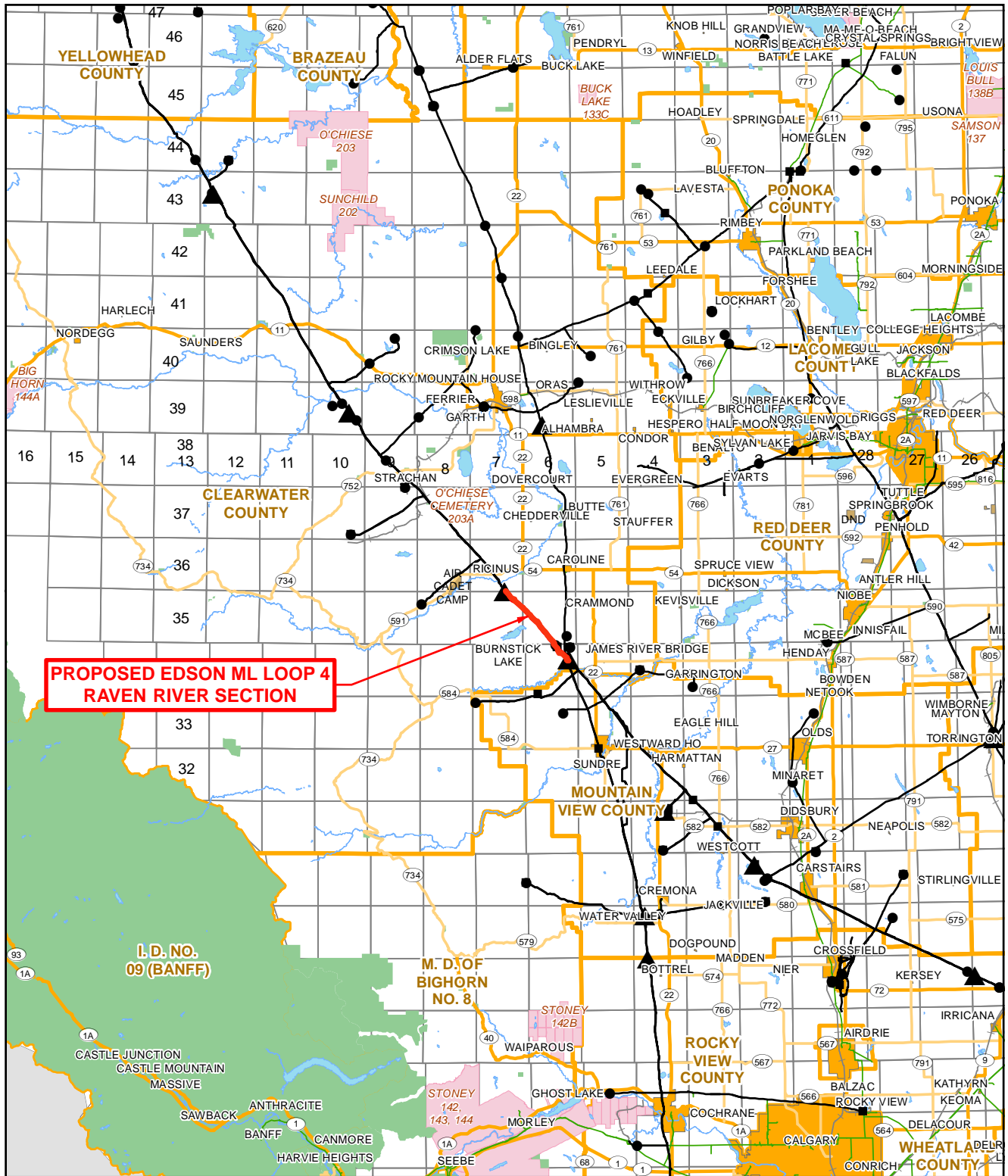
TERMS OF USE: The datasets used to create this map have been gathered from various sources for a specific purpose. TC Energy provides no warranty regarding the accuracy or completeness of the datasets. Unauthorized or improper use of this map, including supporting datasets is strictly prohibited. TC Energy accepts no liability whatsoever related to any loss or damages resulting from proper, improper, authorized or unauthorized use of this map and associated datasets and user expressly waives all claims relating to or arising out of use of or reliance on this map.

NGTL WEST PATH DELIVERY 2022 PROJECT		
Global		
CARTOGRAPHER:	EW	20-01-27
REVIEWER:	JC	20-01-27
APPROVER:	JC	20-01-27

- Proposed Meter Station Expansion
- Proposed Pipeline
- TC Energy Pipeline
- City / Town



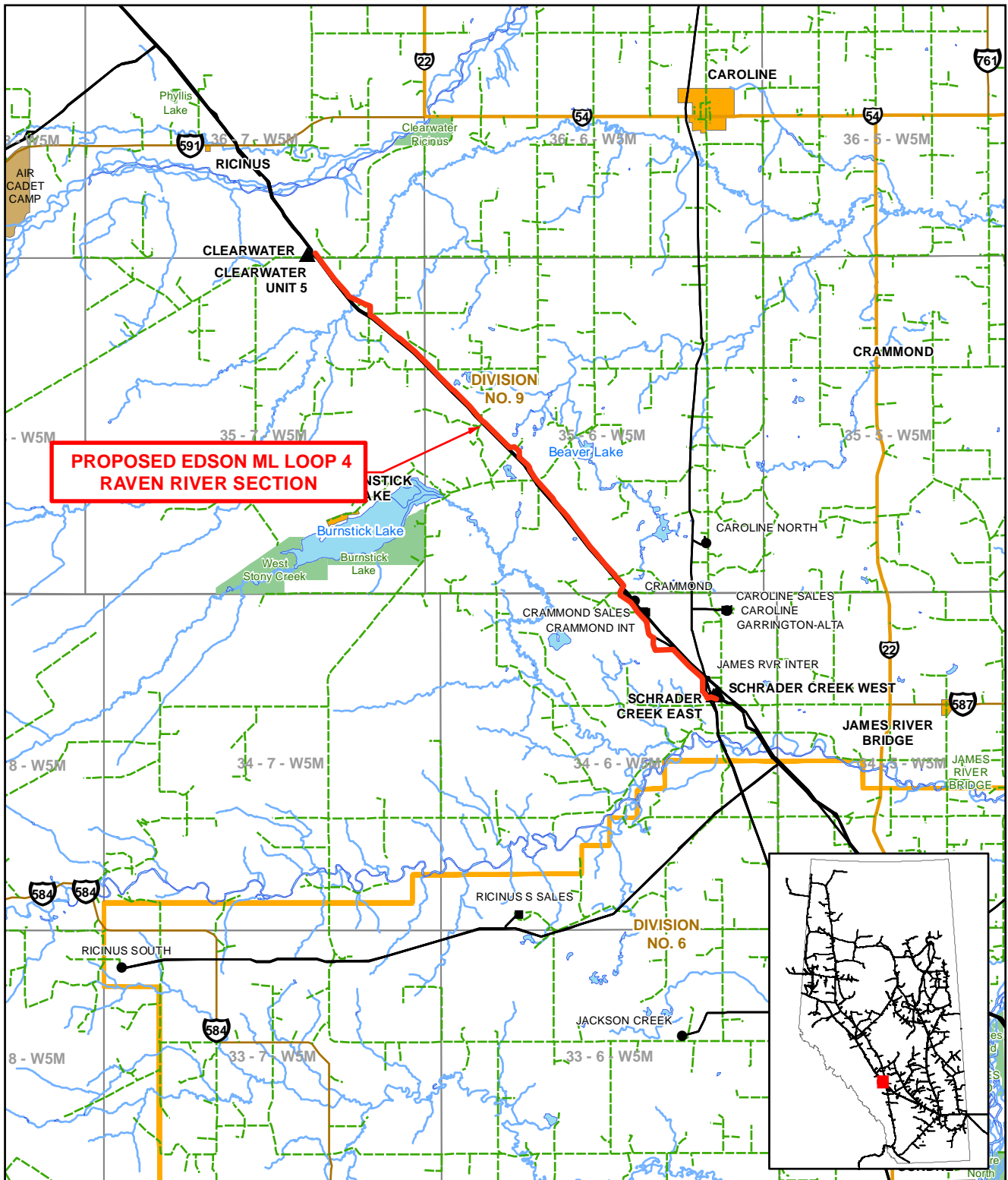
LOCATION:	REVISION: D	ISSUED DATE: 20-01-27
COORDINATE SYSTEM: NAD 1983 UTM Zone 11N		ISSUE PURPOSE: IFU
FILE NAME: T_0228_NGTLWestPathDelivery2022_Program_Rev.mxd		



**PROPOSED EDSON ML LOOP 4
 RAVEN RIVER SECTION**

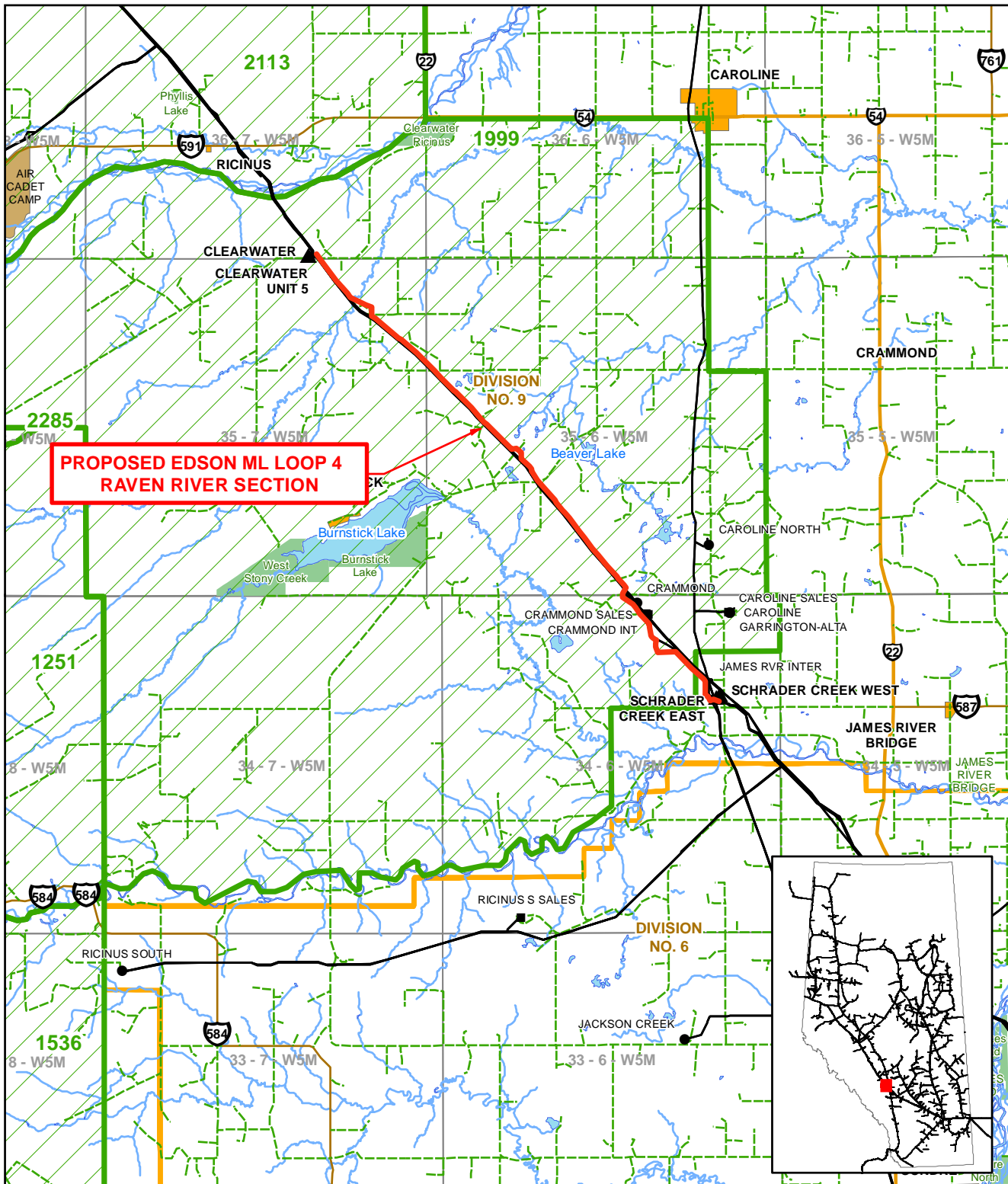
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PROPOSED EDSON ML LOOP 4 RAVEN RIVER SECTION			Proposed Pipeline Compressor Station Delivery Meter Station Receipt Meter Station NGTL Pipeline	Railway Primary Highway Secondary Highway	River / Lake Protected Area City / Town First Nation Lands Metis Settlement Military Reserve County	N			
							LOCATION: 52.008, -114.824 REVISION: 0 ISSUED DATE: 19-09-20 COORDINATE SYSTEM: NAD 1983 UTM Zone 11N ISSUE PURPOSE: IFU 0 5 10 20 30 40 km MAP NUMBER: T_0228_0003_02_00_EDMLL_Raven_Riv_Sec_Fig1.mxd		
Regional CARTOGRAPHER: EW 19-09-20 REVIEWER: JC 19-09-20 APPROVER: JC 19-09-20			Not all legend elements may appear on the map						



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PROPOSED EDSON ML LOOP 4 RAVEN RIVER SECTION			Proposed Pipeline	Railway	City / Town	N			
			Compressor Station	Gravel Road	River / Lake				
Detail			Delivery Meter Station	Primary Highway	First Nation Land	0 3 6 km	LOCATION: 52.008, -114.824	REVISION: 0	ISSUED DATE: 19-09-19
CARTOGRAPHER: EW	19-09-19	Receipt Meter Station	Secondary Highway	Metis Settlement	COORDINATE SYSTEM: NAD 1983 UTM Zone 11N		ISSUE PURPOSE: IFU		
REVIEWER: JC	19-09-19	NGTL Pipeline	Protected Area	Military Reserve	MAP NUMBER: T_0228_0003_03_00_EDMLL_Raven_Riv_Sec_Fig1_mxd				
APPROVER: JC	19-09-19	Not all legend elements may appear on the map	County						



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PROPOSED EDSON ML LOOP 4 RAVEN RIVER SECTION Trapper			Not all legend elements may appear on the map			
				CARTOGRAPHER:	EW	19-09-19
				REVIEWER:	JC	19-09-19
				APPROVER:	JC	19-09-19

Proposed Pipeline	Railway	City / Town
Compressor Station	Gravel Road	River / Lake
Delivery Meter Station	Primary Highway	First Nation Land
Receipt Meter Station	Secondary Highway	Metis Settlement
NGTL Pipeline		Military Reserve
		County
		Trapper Area

TC Energy

LOCATION: 52.008, -114.824	REVISION: 0	ISSUED DATE: 19-09-19
COORDINATE SYSTEM: NAD 1983 UTM Zone 11N		ISSUE PURPOSE: IFU
0 3 6 km		
MAP NUMBER: T_0228_0003_04_00_EDMLL_Raven_Riv_Sec_Fig1_mxd		