



October 11, 2019

Jonathan Mesher
Resource Management Officer
Crown Indigenous Relations and Northern Affairs (CIRNA)
Box 100
Iqaluit, NU X0A 0H0

**Re: 2019/2020 Geotechnical Drilling Program – Quarry Verification
Type 'B' Water Licence 2BE-MRY1421
Commercial Lease No. Q13C301**

Baffinland Iron Mines Corporation (Baffinland) plans to commence a 2019 drilling program at the Mary River Project site for the purpose of geotechnical boreholes at potential quarry sites to assess the suitability of bedrock for use on the Project. The drilling program is being managed by Hatch Ltd. and performed by Nuna East Ltd. The program is scheduled to commence on October 21, 2019 and expected to be completed by April 30, 2020.

The drilling program will be completed within twenty-two (22) proposed quarries along the proposed Northern Transportation Corridor, listed in Table 1 below. The quarry locations are shown on the figures in Attachment 1. Proposed borehole locations and their proximity to surrounding water bodies are shown on the figures in Attachment 1. A 100 m x 100m grid was used within the limits of each proposed quarry to establish drilling locations. A total of four hundred seventy-three (473) boreholes are proposed across the 22 proposed quarries, as shown on the Drill Hole Grid figures in Attachment 2. Borehole locations will be laid and out and surveyed by a surveyor.

This drilling program is not expected to use water as drilling will be executed using a top hammer drill. Other supporting vehicles include pickup trucks, a float trailer, an excavator, grader and dozer to provide temporary winter access roads to the quarry locations. Winter access routes will be cleaned of any debris and inspected following use for any potential impacts to tundra. Boreholes will be drilled to depths of approximately 11 m below ground surface (mbgs).

Table 1: Quarry Locations

Route Chainage (km)	Quarry Name	Easting	Northing	Area (ha)	Material	# of Boreholes Proposed
22.0	PQ2B	517663	7961972	23.66	Limestone	25
28.9	PQ2A	521827.4	7955356	24.68	Limestone	30
41.6	PQ4A	523645.9	7942900	11.39	Limestone	15
42.5	PA4B	523627.7	7941891	12.95	Limestone	15
45.7	PQ5A	525359.3	7938861	22.95	Limestone	24
46.8	PQ5B	525986.2	7937814	57.06	Limestone	54
56.2	PQ6A	528498.8	7929786	23.98	Limestone	36
57.1	PQ6B	528900.5	7928993	22.72	Limestone	25
61.0	PQ2	527843.2	7926119	18.77	Limestone	24
63.4	Q27	527160.1	7923196	10.60	Limestone	13
66.0	PQ9A	527511.6	7920451	7.00	Limestone	16
66.0	PQ9B	527651.5	7920446	2.30	Limestone	6
73.1	PQ10A	531565.2	7917528	12.13	Limestone	16
74.2	PQ10B	531977	7917633	9.33	Limestone	13
84.5	PQ12A	539072.8	7921197	25.98	Sandstone	29
84.5	PQ12B	539876	7921782	19.31	Sandstone	26
85.7	PQ13	542583.7	7923675	46.03	Sandstone	50
96.0	PQ14B	550987.7	7917407	10.73	Sandstone	14
96.7	PQ14A	550825.2	7917828	4.69	Sandstone	6
101.5	PQ15A	555855.6	7915621	8.70	Diorite/Diabase	12
102.3	PQ15B	555270.3	7915580	6.17	Diorite/Diabase	12
109.0	Q42	561672.2	7912660	6.87	Diorite/Diabase	12

Environmental monitoring will be performed, including pre, during and post drilling inspections. Drill cuttings will be disposed of in natural depressions or used for backfill of boreholes consistent with Part F, Item 4 of Baffinland's Type B Water Licence 2BE-MRY1421 (Type B Water Licence). Drill water runoff and siltation mitigation measures consistent with Baffinland's Environmental Protection Plan BAF-PH1-830-P16-0008 r1 should not be required due to no water use and seasonal timing of the geotechnical program.

Despite best planning, it should be noted that unforeseen circumstances may necessitate some changes in planning as the program proceeds. Baffinland will endeavor to inform the Inspector and other relevant parties in such circumstances.

In accordance with the conditions of the Type B Water Licence, this letter and attachment provides Baffinland's notification for the drilling of a total of four hundred seventy-three (473) boreholes with proximity to nearby water bodies.



We trust that this information meets the various notification requirements for geotechnical drilling at the Project. Please do not hesitate to contact the undersigned, should you have any questions or comments.

Regards,

A handwritten signature in black ink, appearing to read "Chris Murray", with a large, stylized loop at the end.

Christopher Murray
Environmental & Regulatory Compliance Manager

Attachments:

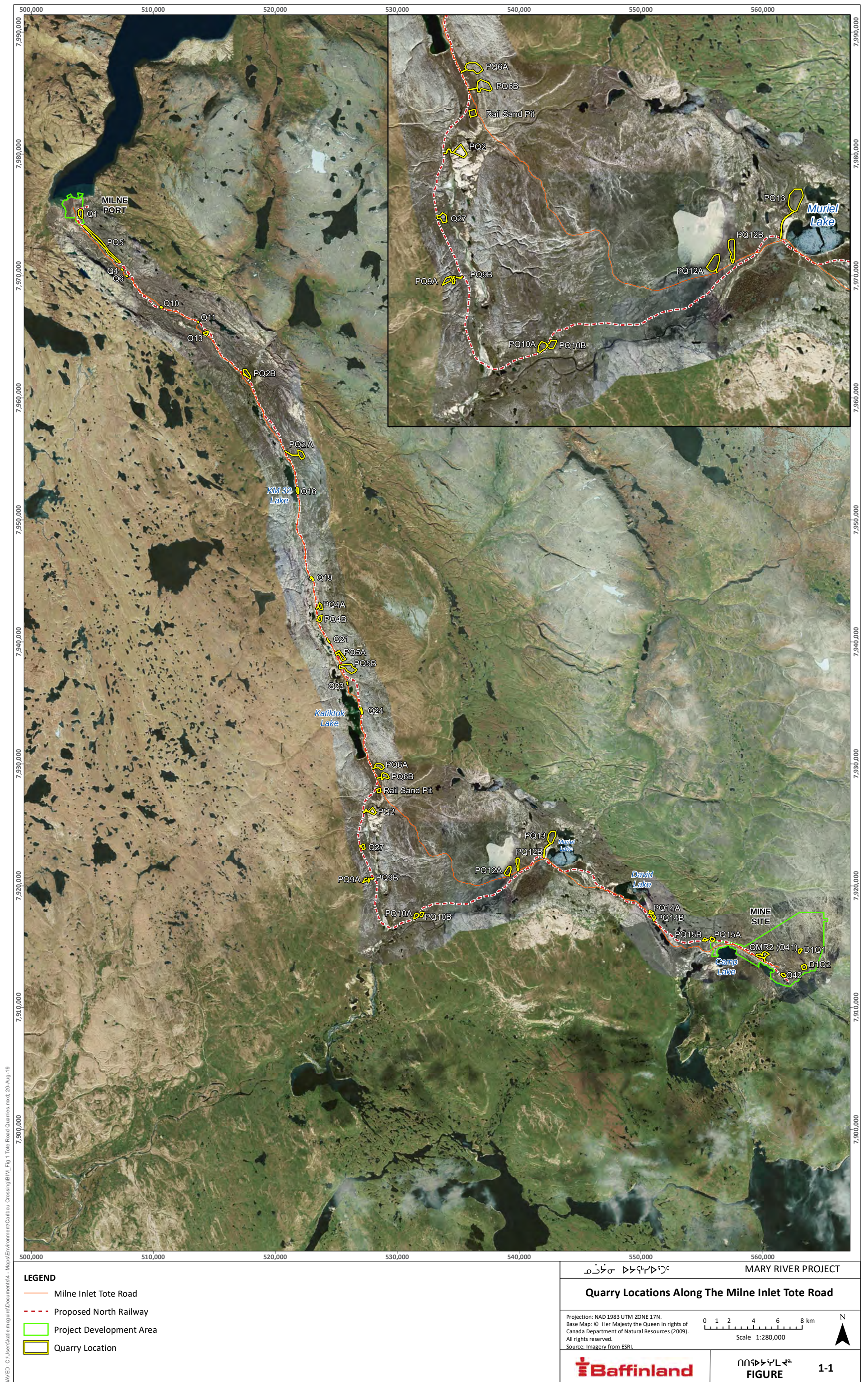
Attachment 1 Northern Transportation Corridor Proposed Quarry Locations

Attachment 2 Proposed Drill Hole Grid Figures

Cc: Timothy Ray Sewell, Megan Lord-Hoyle, Lou Kamermans, Shawn Stevens, Connor Devereaux,
Steve Borcsok
Assol Kubeisinova, Karén Kharatyan (NWB)
Bridget Campbell, Godwin Okonkwo, Justin Hack (CIRNA)
Chris Spencer (QIA)

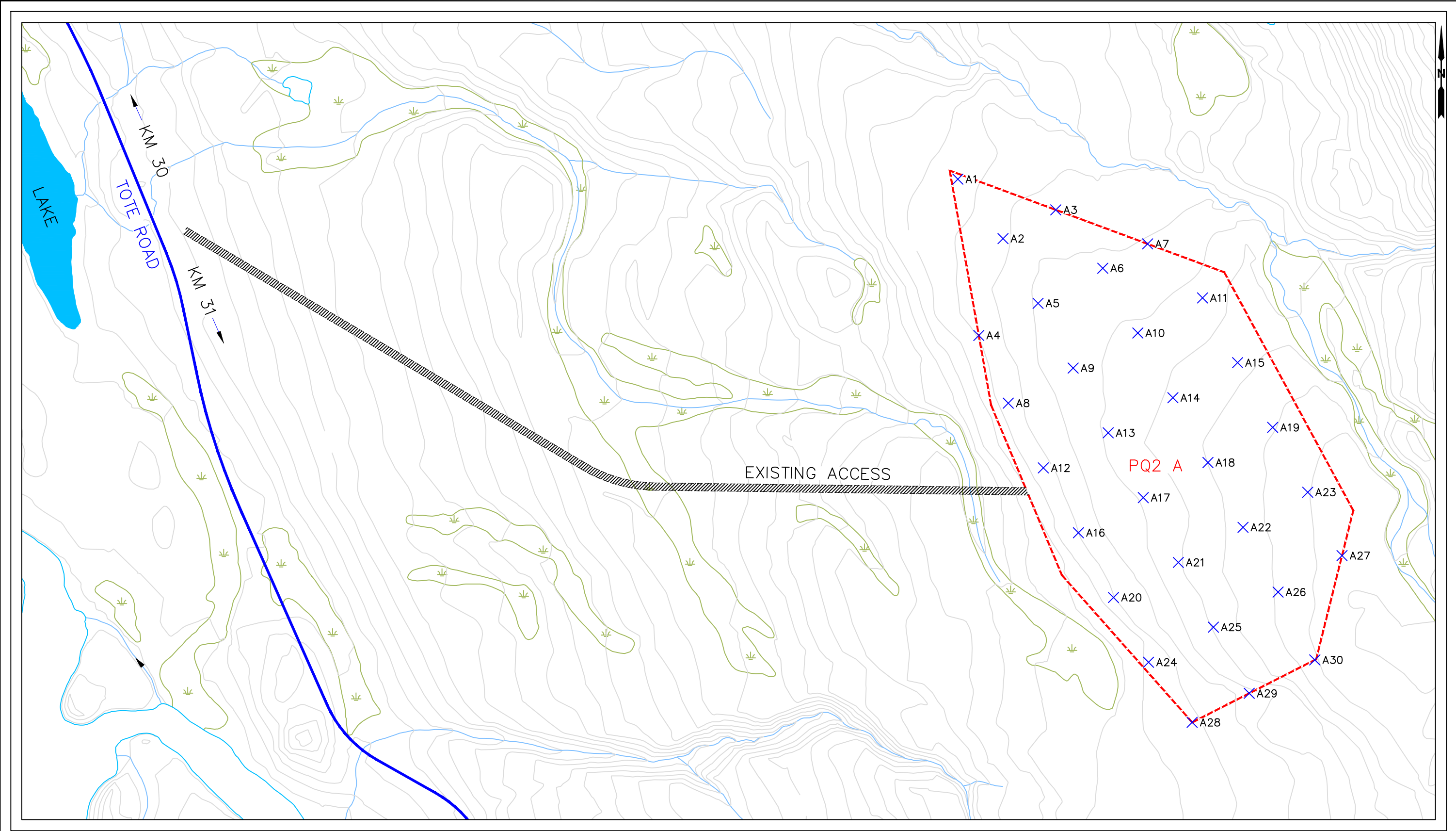
Attachment 1

Northern Transportation Corridor Proposed Quarry Locations

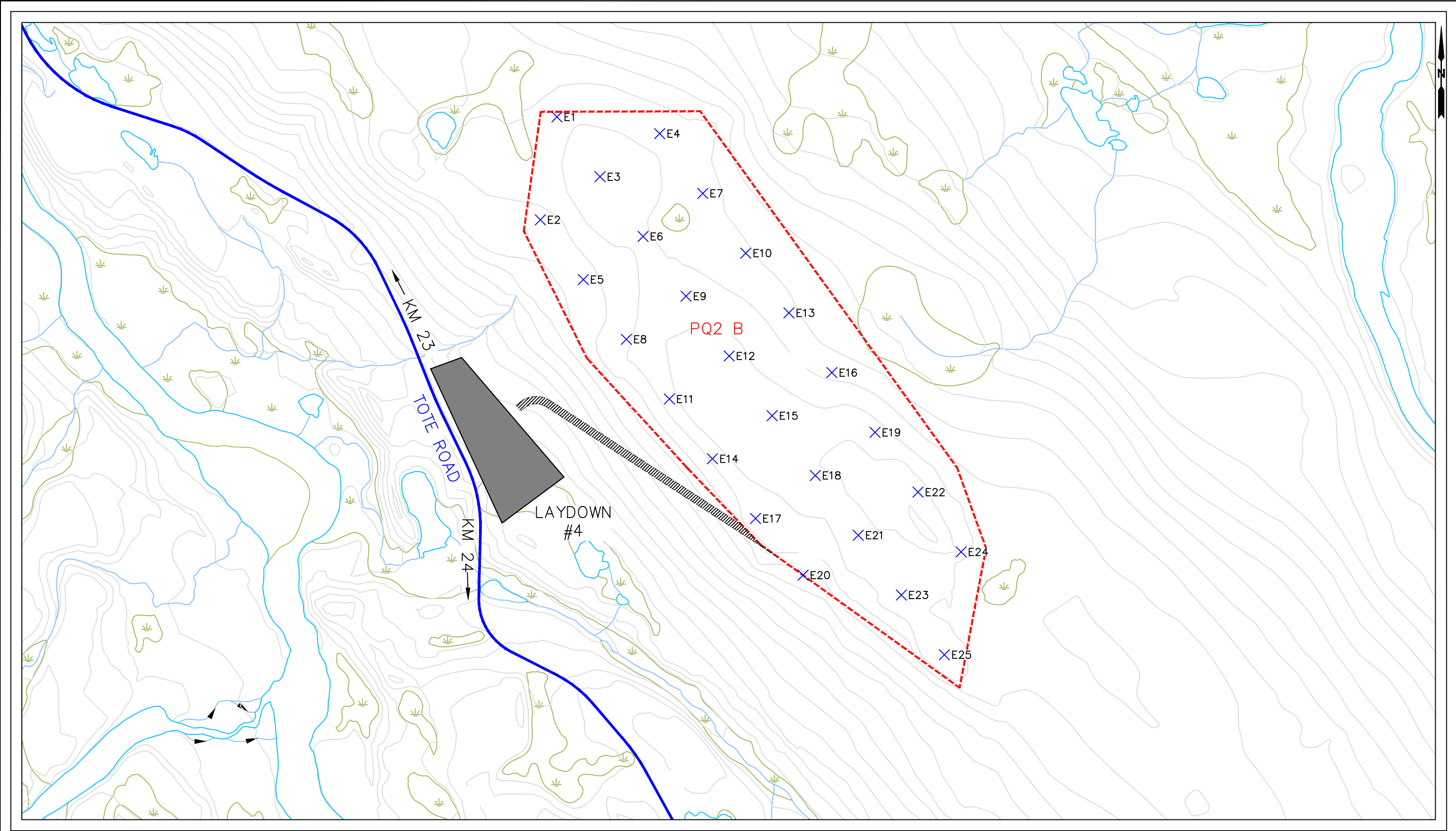


Attachment 2

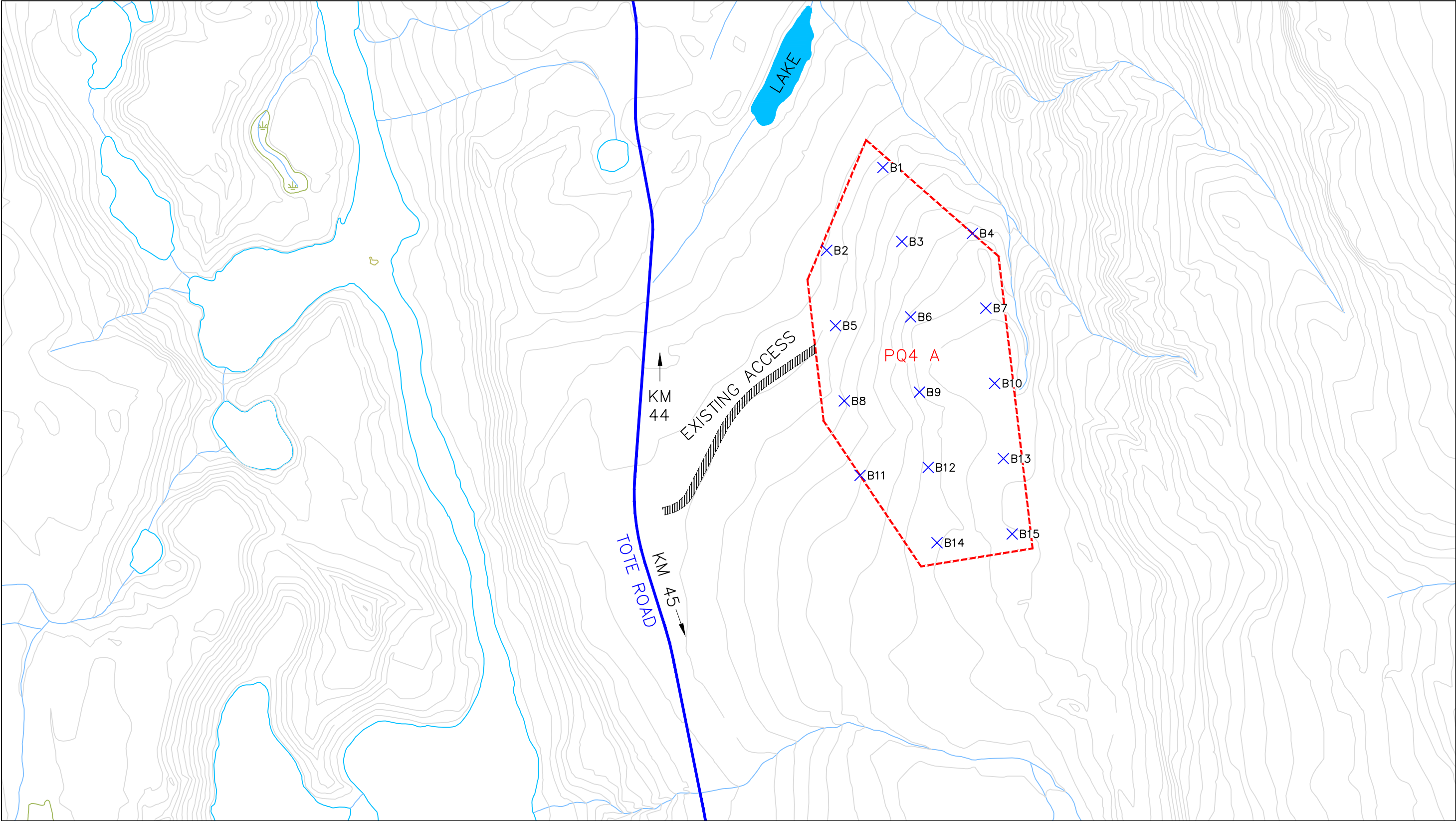
Proposed Drill Hole Grid Figures



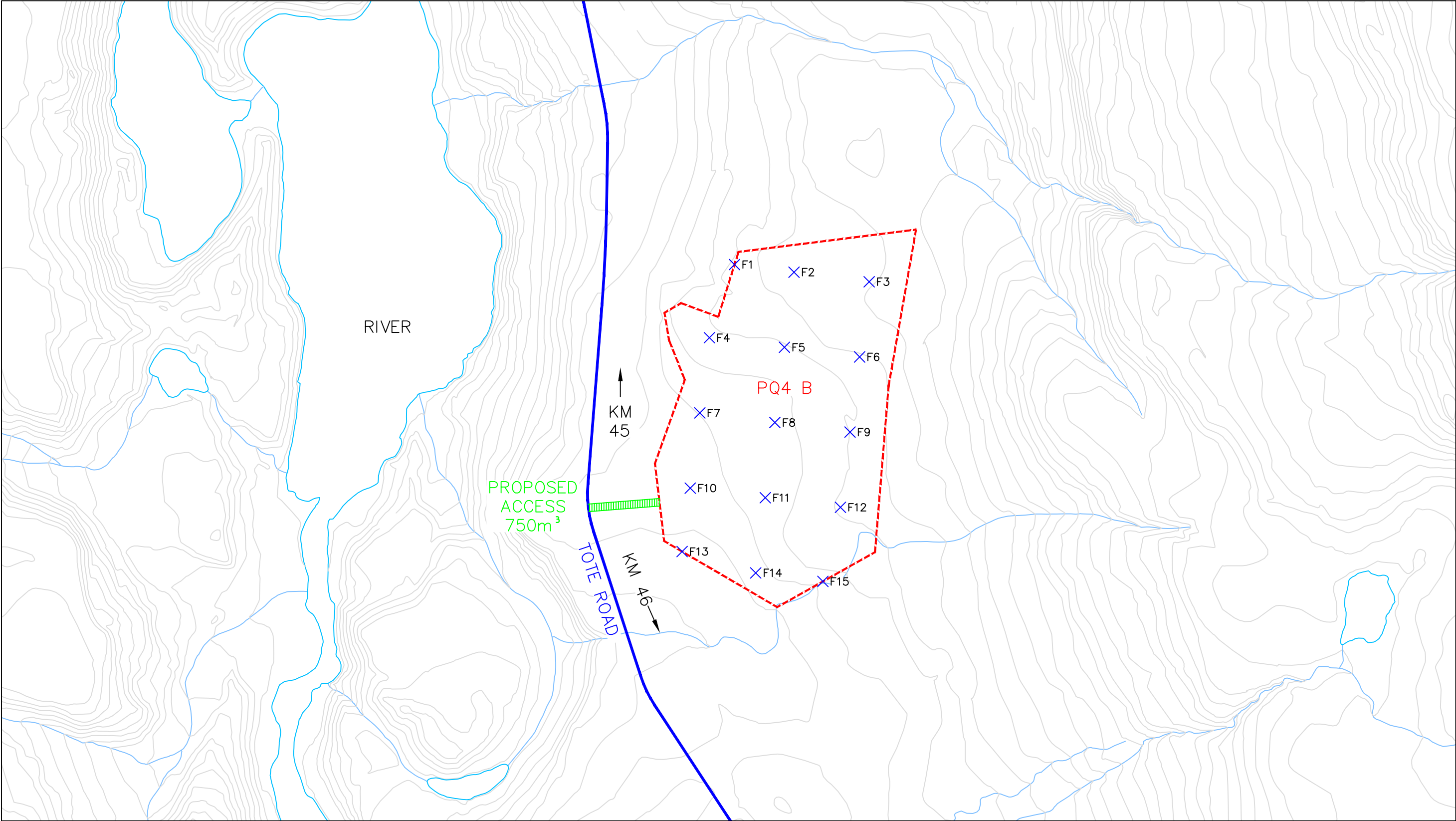
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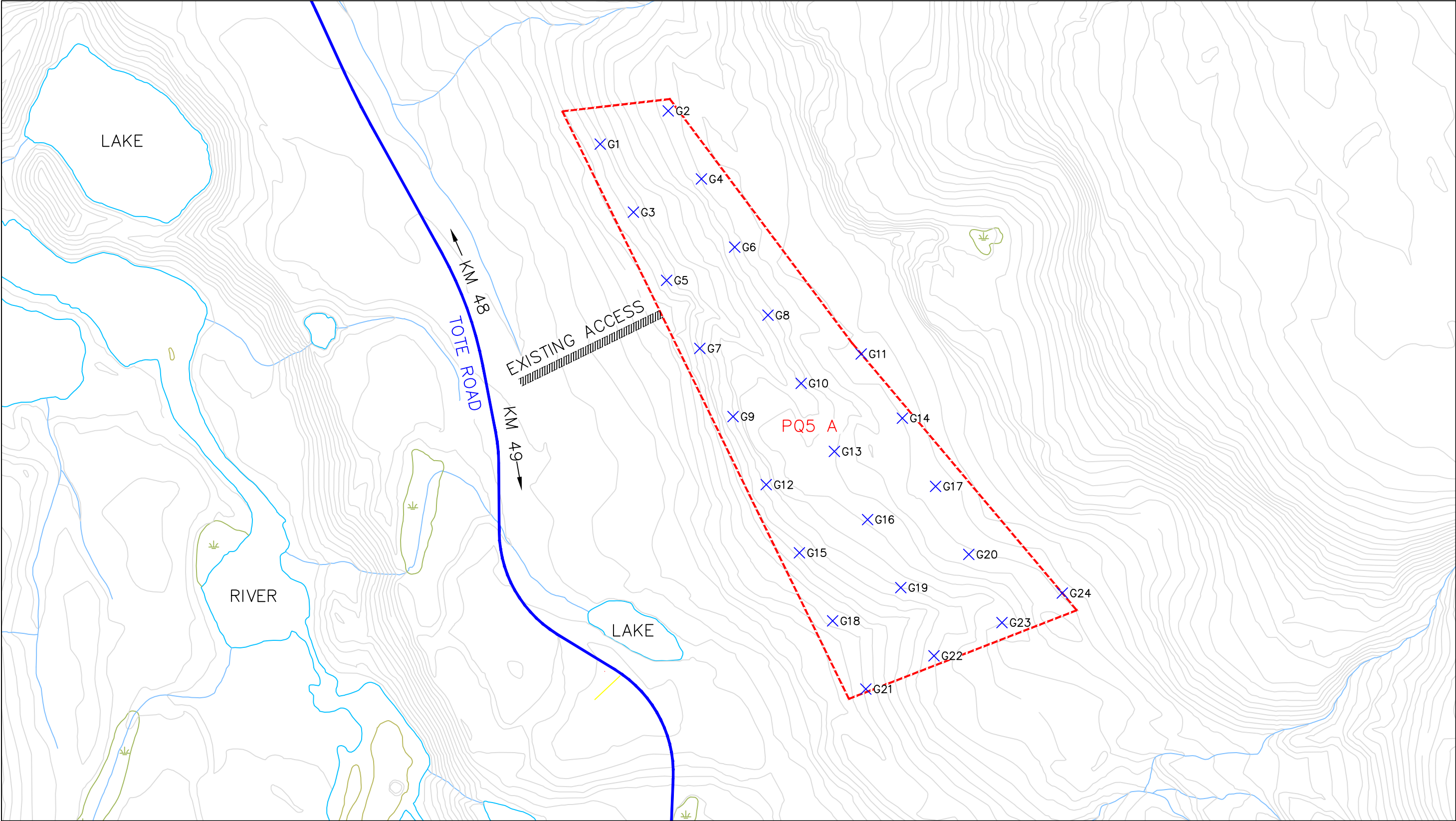
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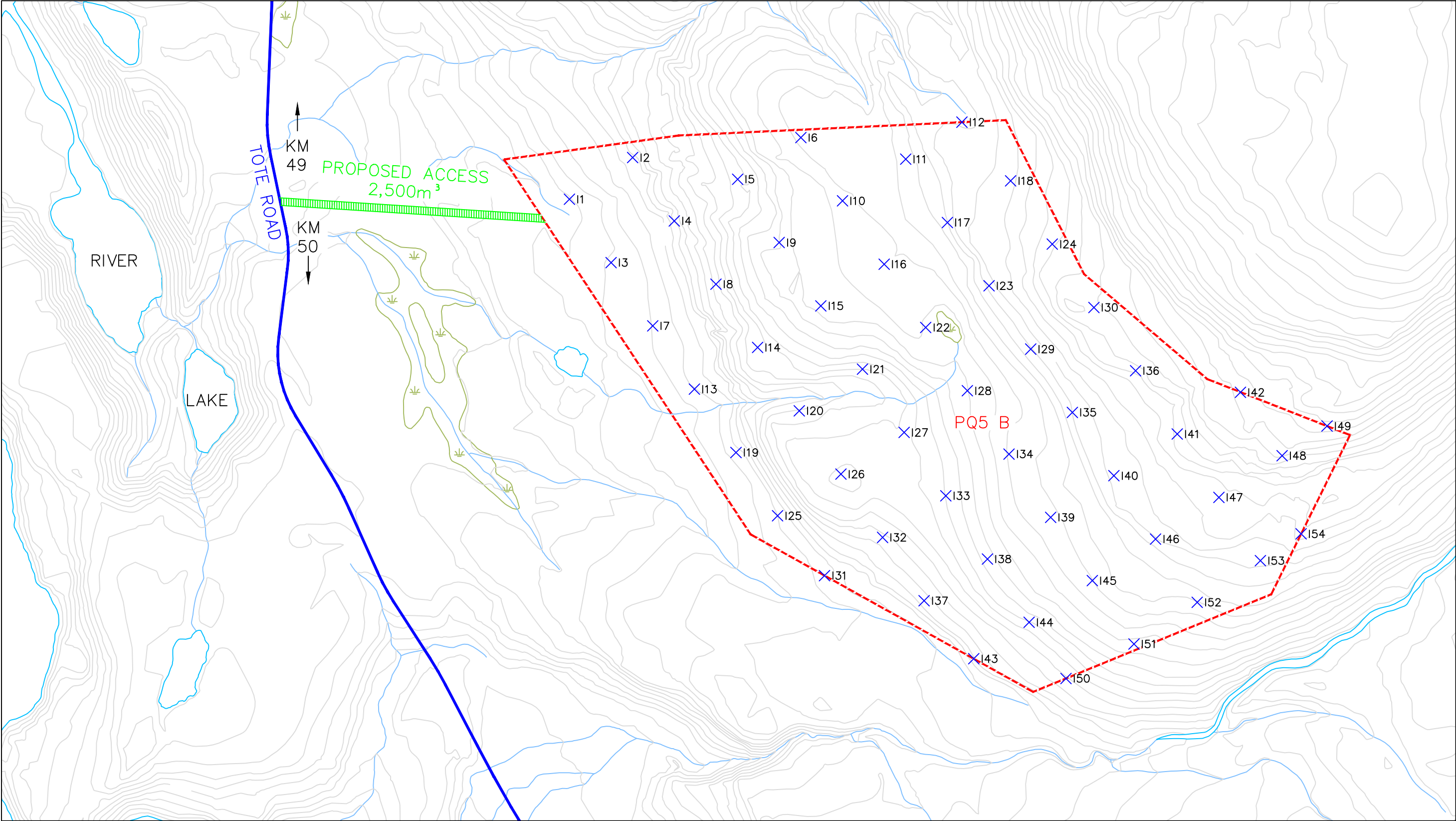
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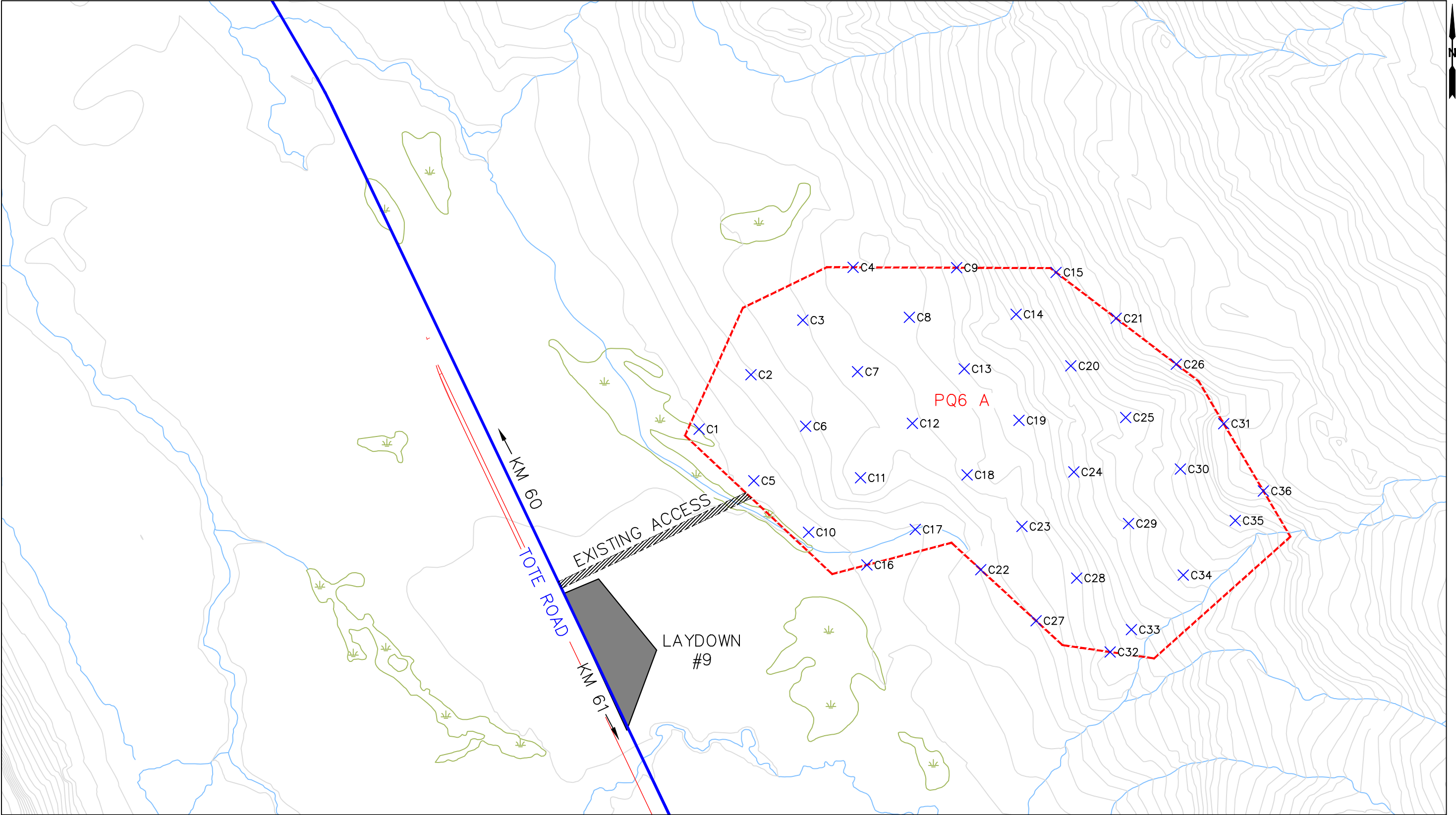
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OWNER:

BAFFINLAND IRON MINES LP

PROJECT:

BIM RAIL

PREPARED BY:

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Pond Inlet, NU
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DRAWN BY:

M. GOREHAM



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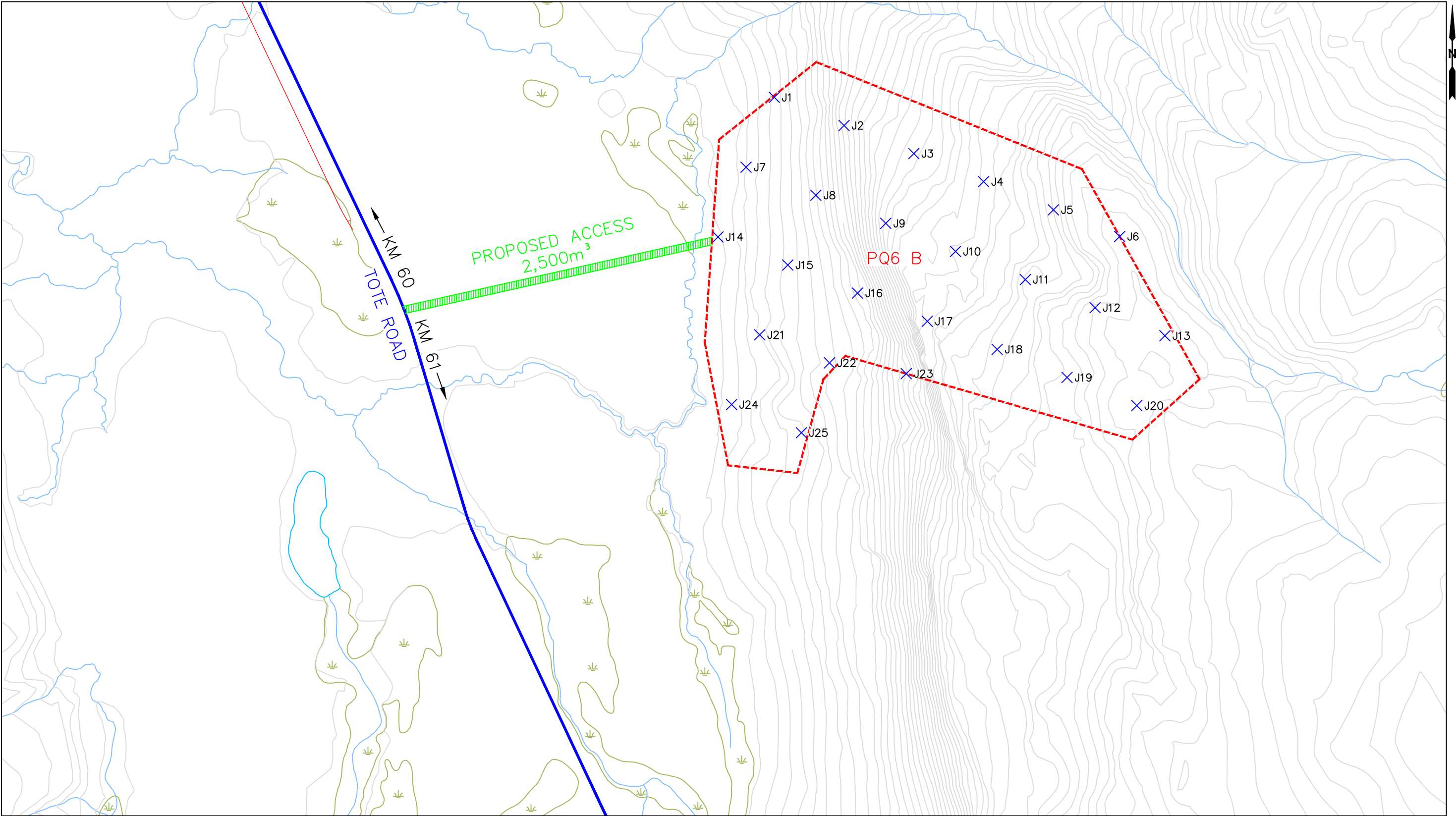
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PROJECT:

BIM RAIL

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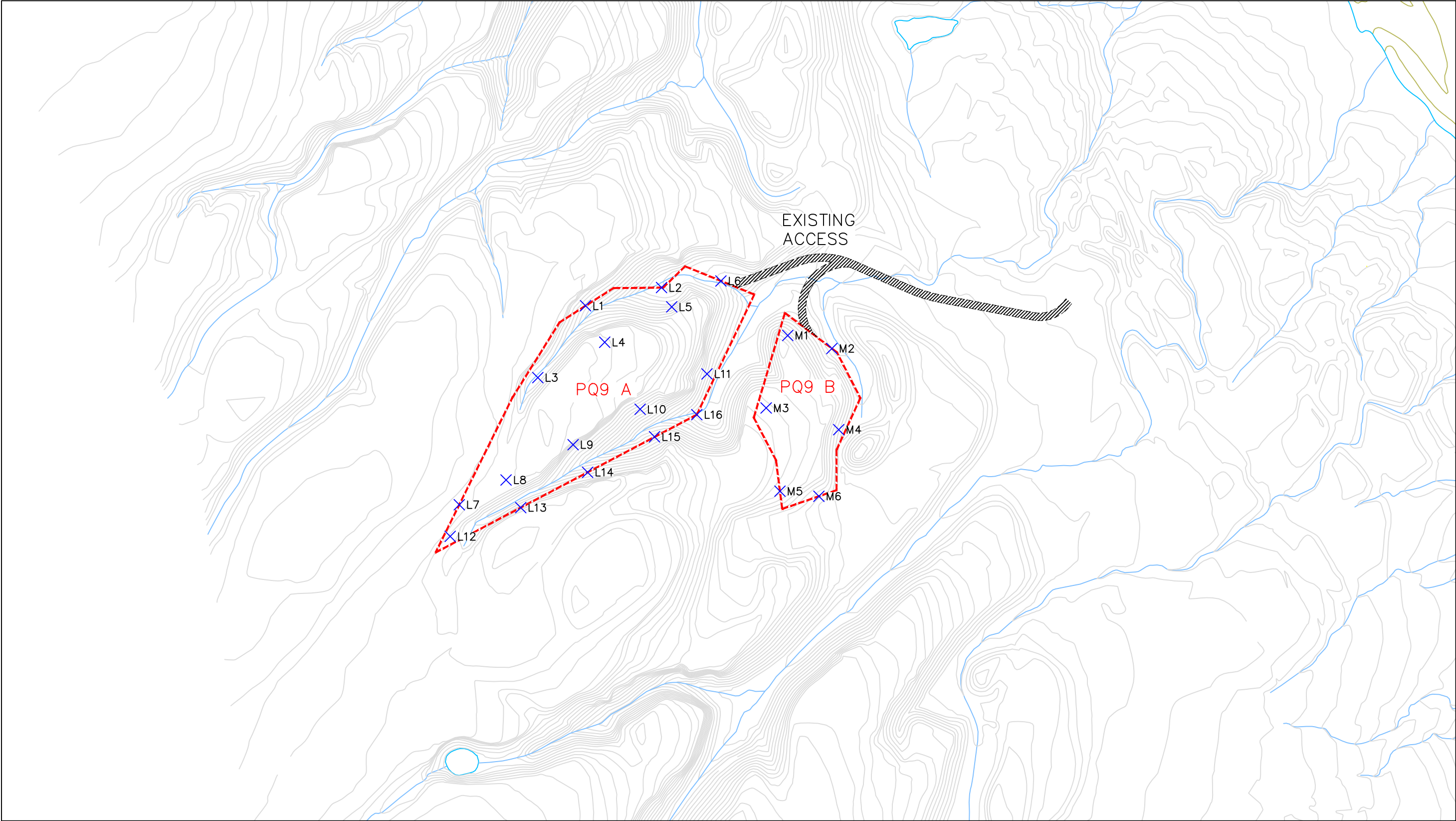
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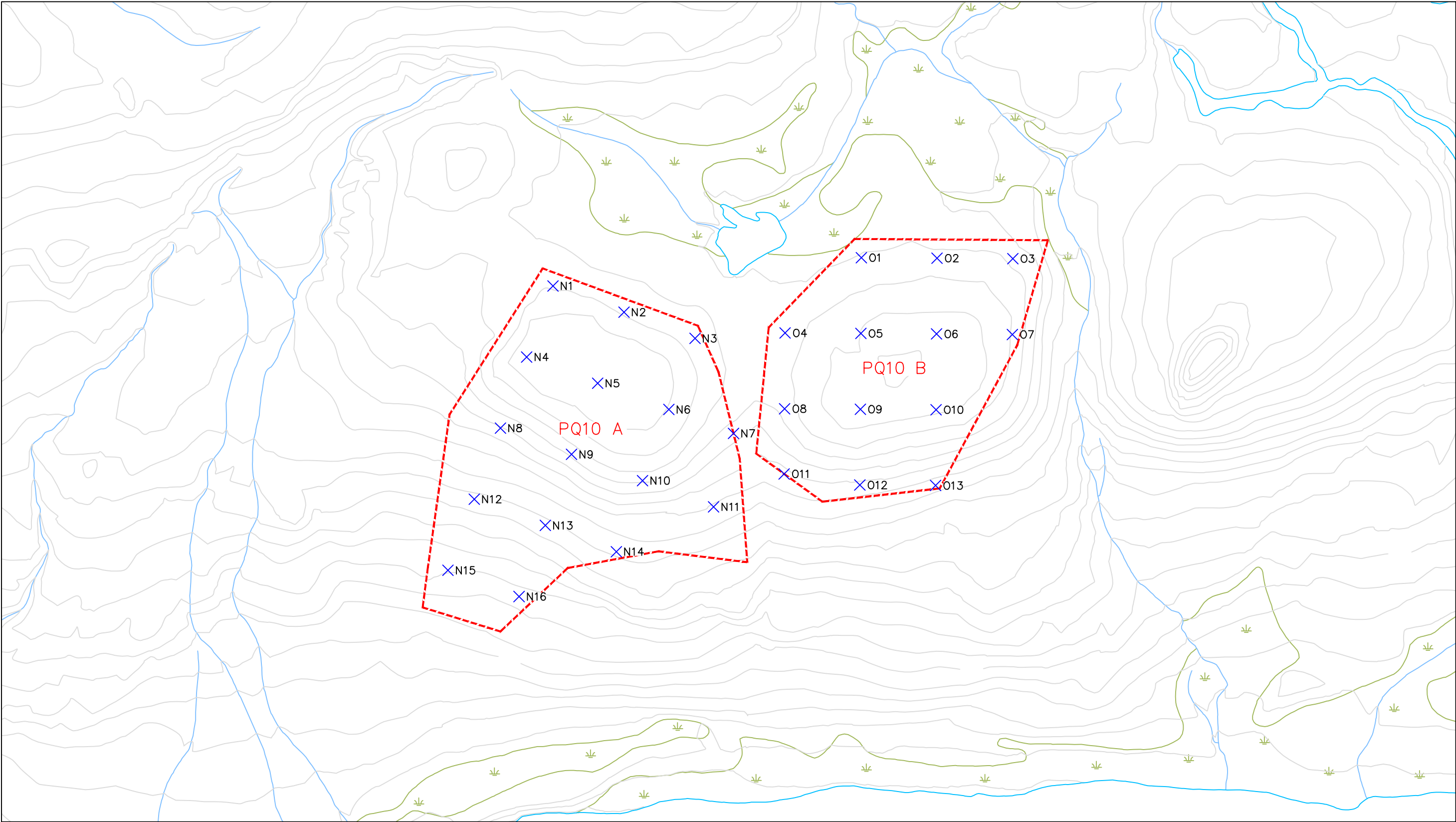
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X0A 0X0

DRAWN BY:

M. GOREHAM



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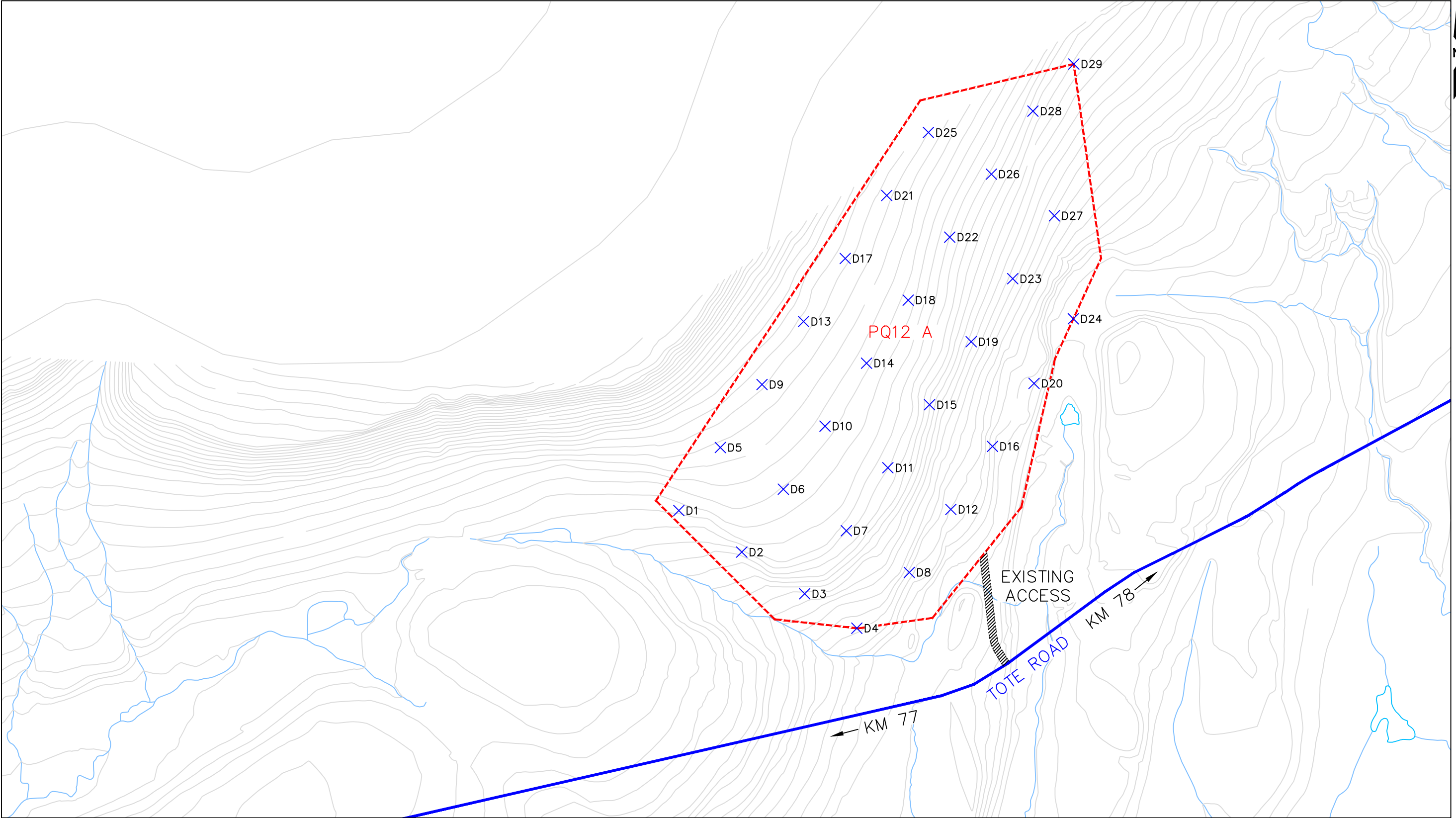
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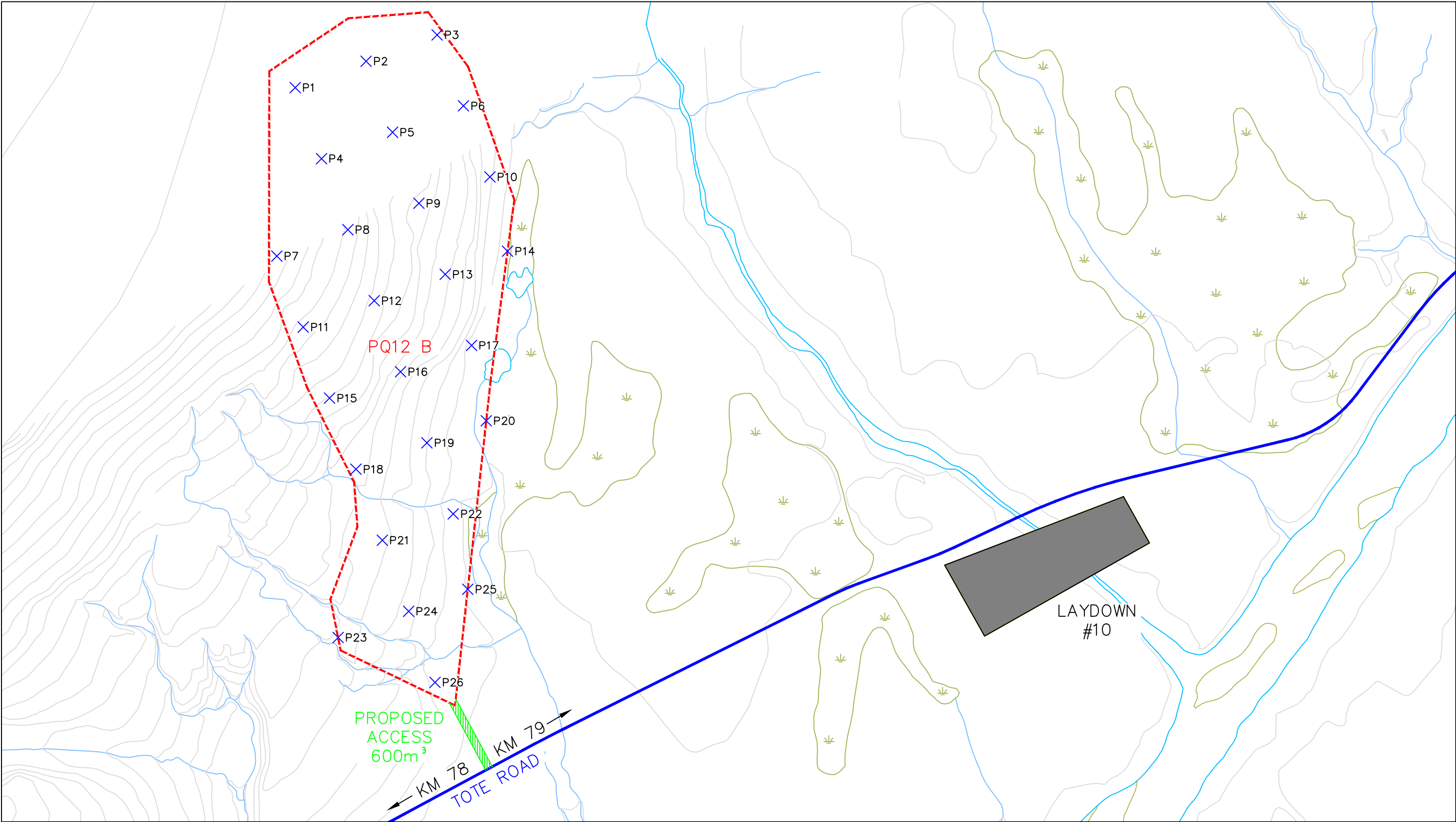
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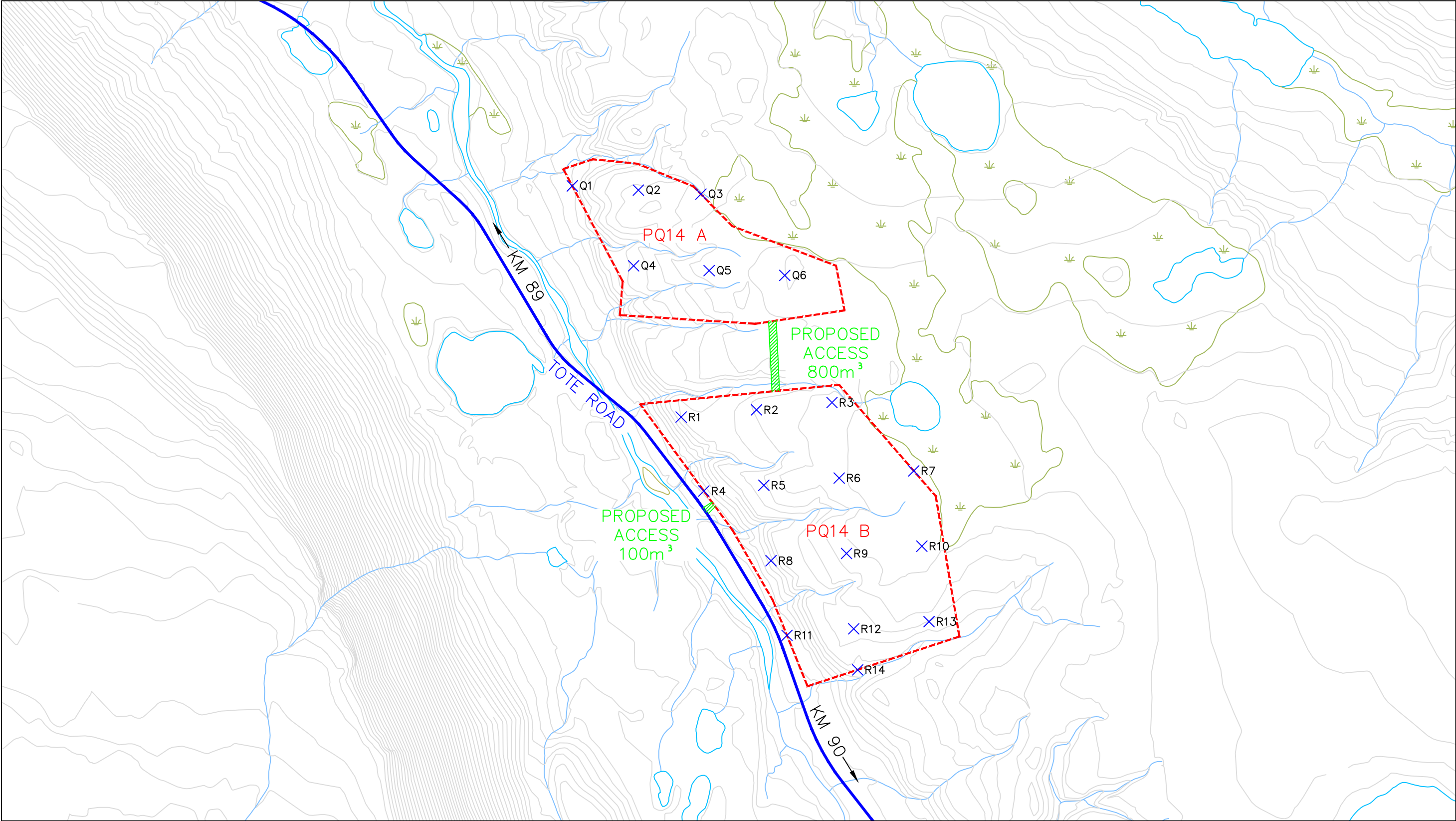
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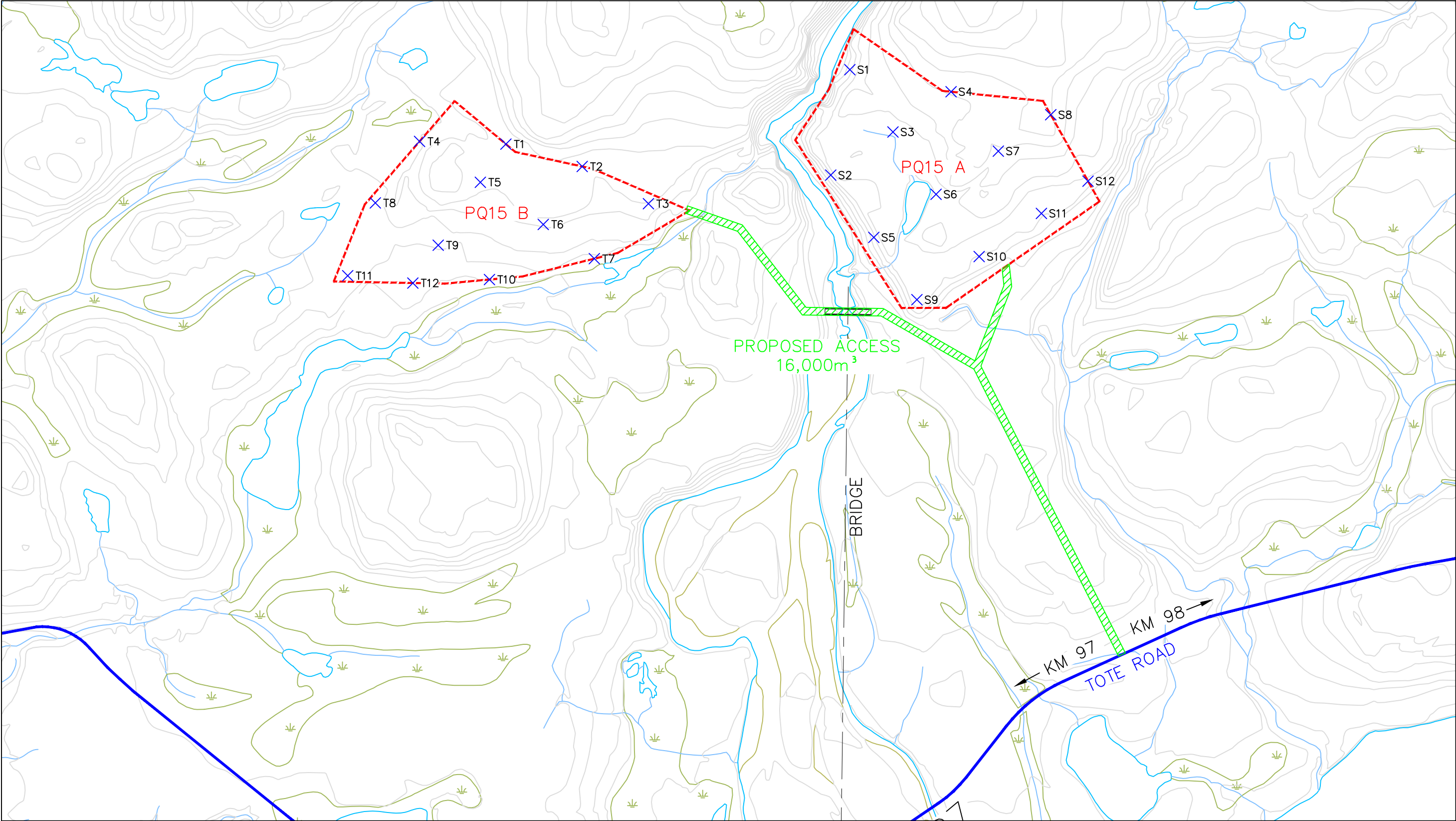
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BAFFINLAND IRON MINES LP

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BIM RAIL

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NUNA EAST LTD.
PO Box 370
Pond Inlet, NU
X0A 0X0

DRAWN BY:

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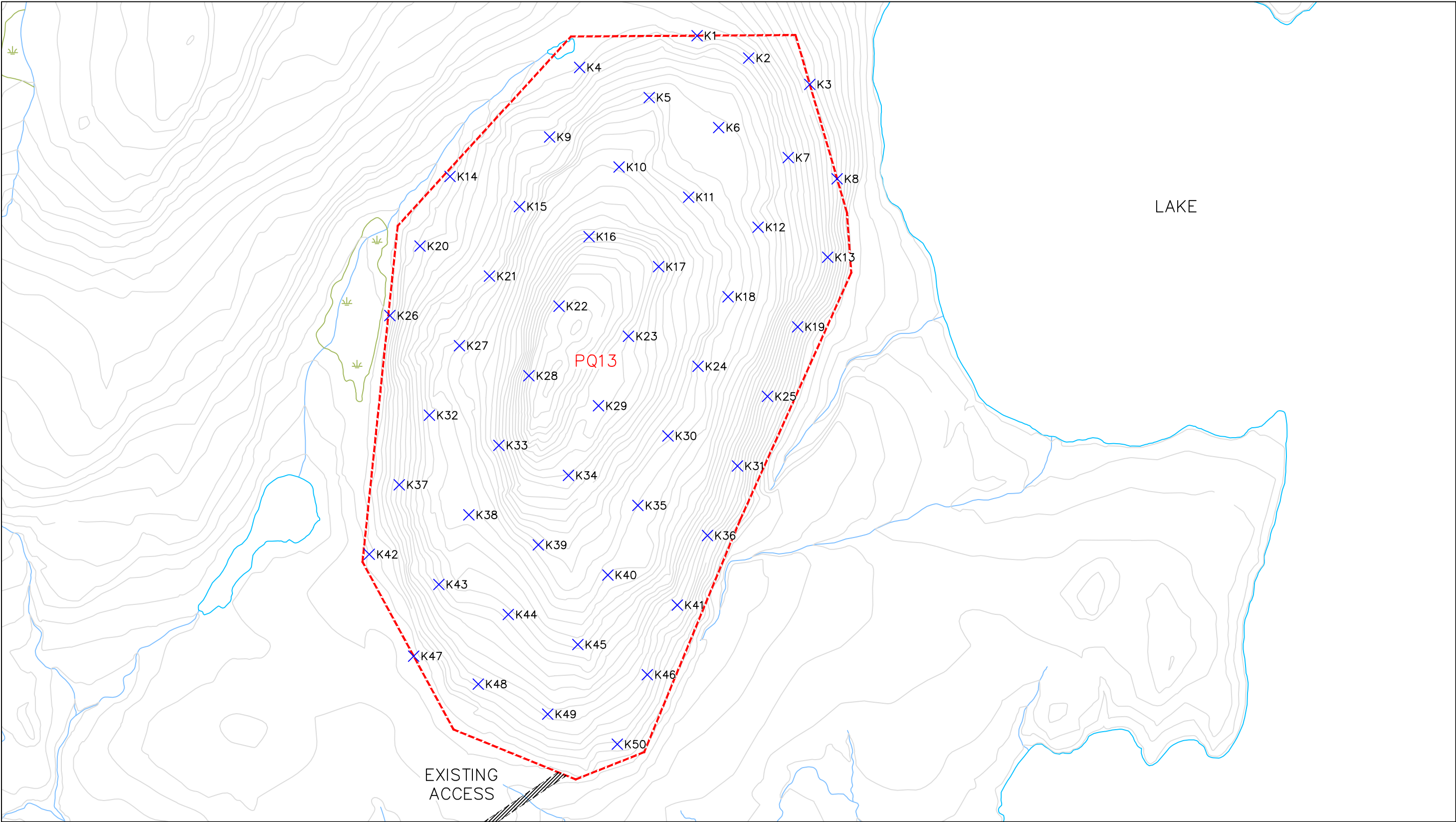
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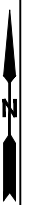
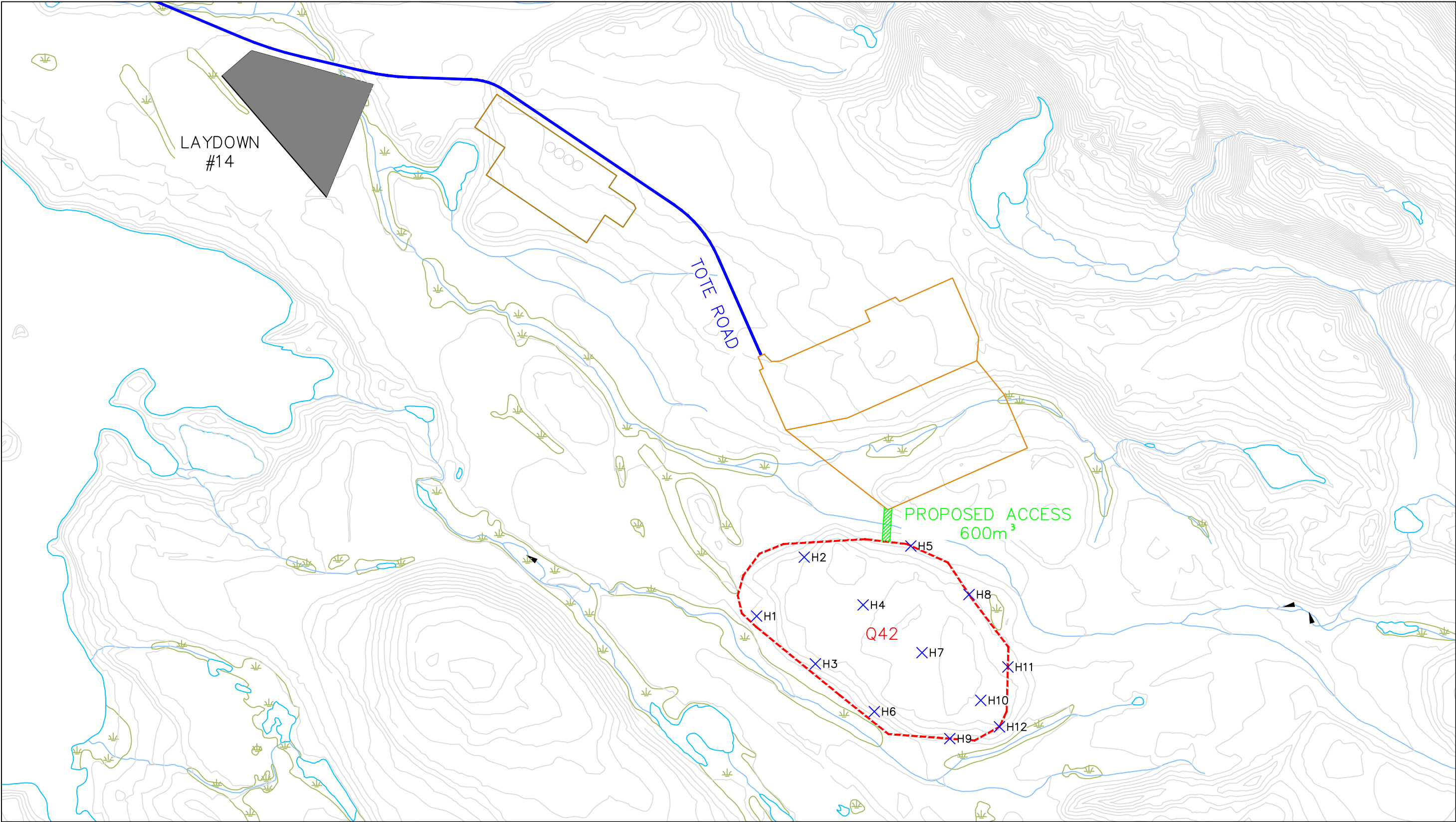
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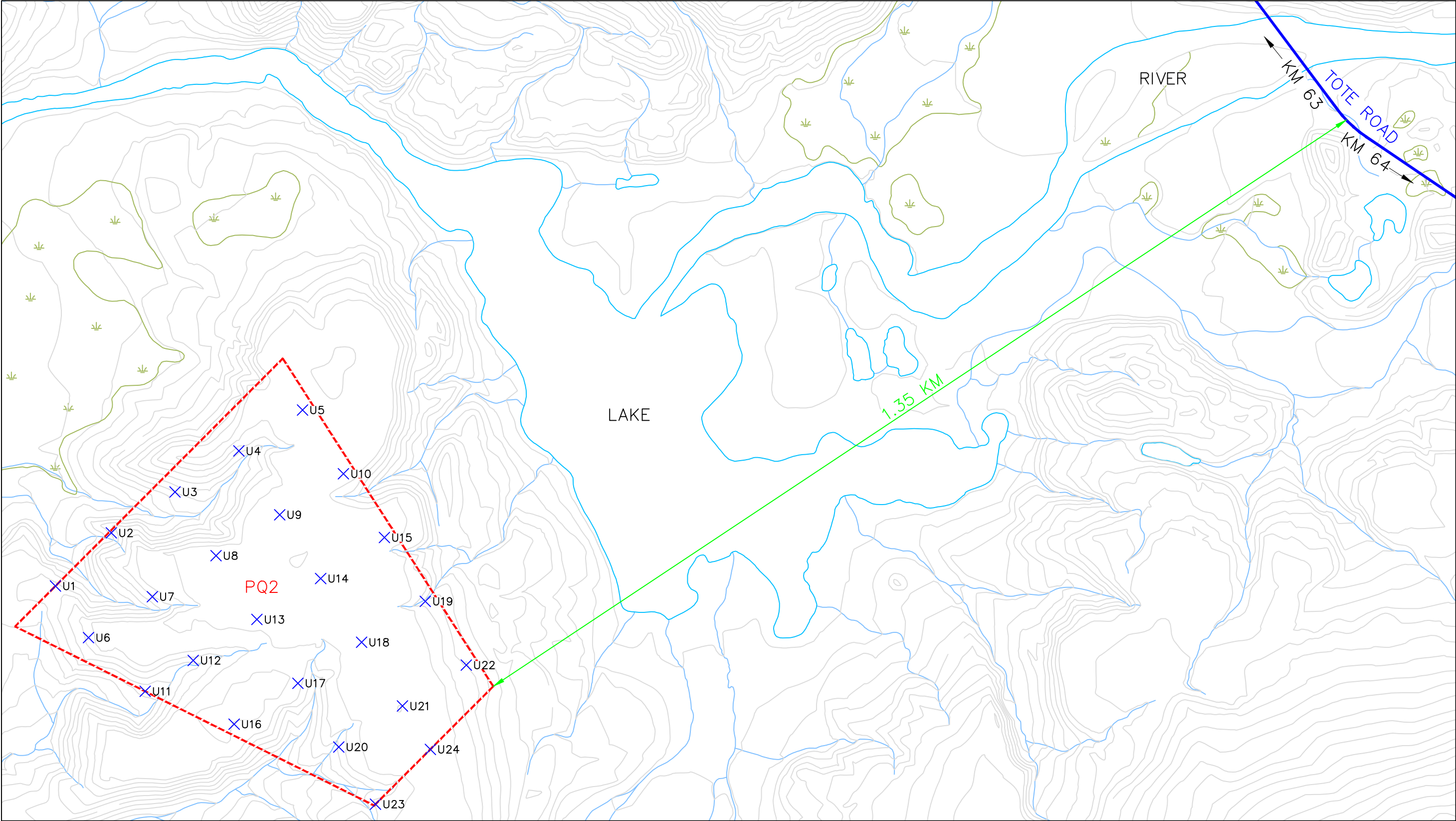
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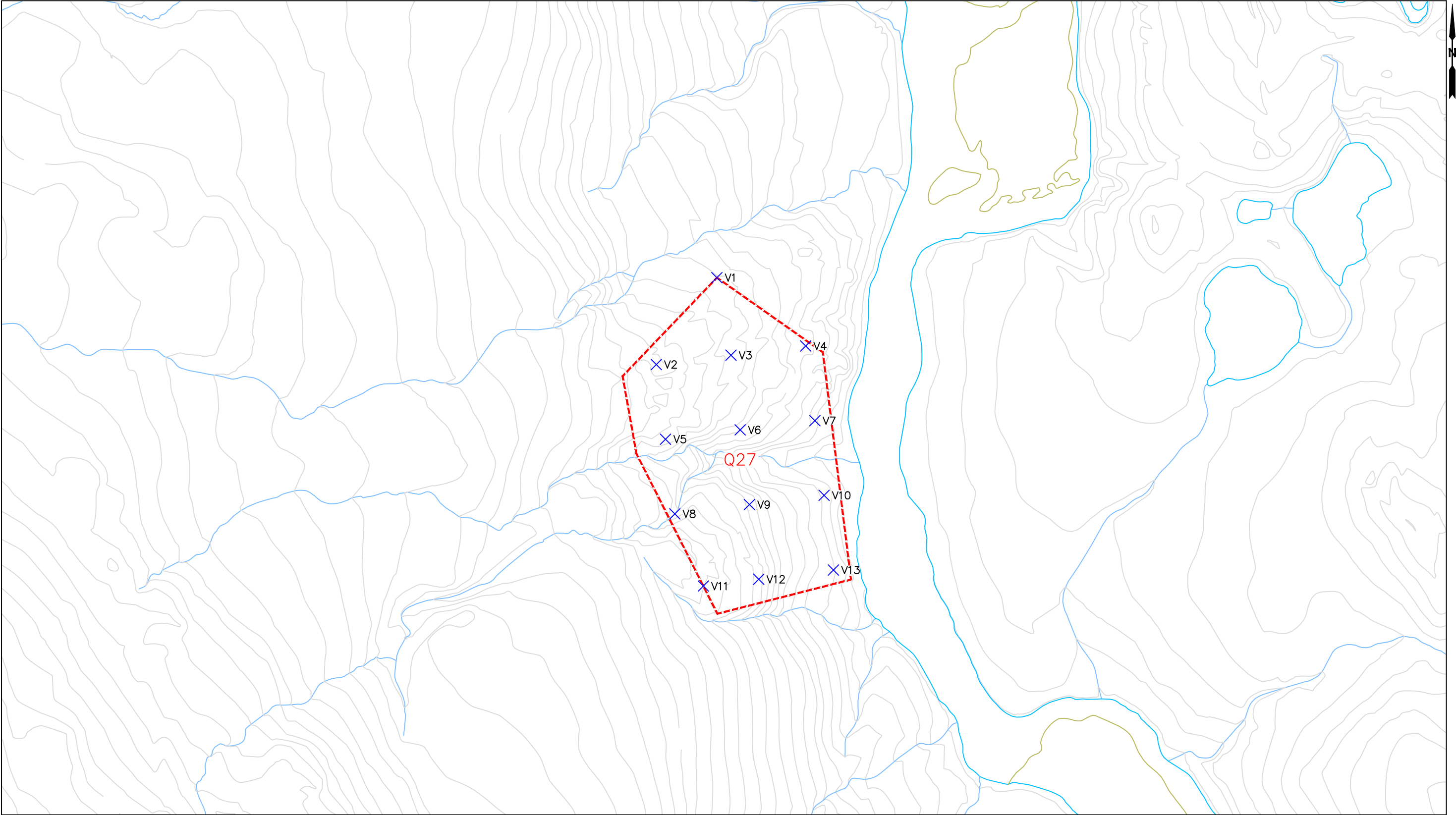
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BIM RAIL

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May 30, 2019

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