



AGNICO EAGLE

MELIADINE GOLD PROJECT

Construction Summary (As-built) Report for Channel4, Pond CP4, and Berm CP4

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DOCUMENT CONTROL

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EXECUTIVE SUMMARY

The construction of Channel4, Pond CP4, and Berm CP4 took place at the Meliadine Gold Mine, NU between October 2018 and May 2019. Agnico Eagle Mines Limited (AEM) performed all onsite construction management and quality control. This report summarizes the construction activities of each facility, the materials and equipment used, and any variations of the as-built structures from the design documents, as required by the Type "A" Water Licence (No. 2AM-MEL-1631) for this project.

Channel4 was designed to intercept runoff from the catchment area of the proposed Waste Rock Storage Facility 1 (WRSF1). The bottom rip rap thickness, side slopes, slope gradient, and the bottom width of the channel vary from design documents. The side slopes range from 1.8H:1.0V to 5.0H:1.0V, though they were designed to be 2.5H:1.0V. The bottom width of the channel was designed to be 2.0 m from Station 0+160 to Station 0+923; the bottom width was generally over-built with exception of Station 0+250 to Station 0+300 (0.83 m to 1.83 m). This reduced width is acceptable and will not affect the performance of the channel.

Channel4 berm was designed to serve as Channel4 overflow protection. It was designed to have a minimum height of 1.0 m and was constructed with heights ranging from 0.45 m to 2.2 m. Though the height of Channel4 berm is below 1.0 m in some areas, the berm will still provide sufficient overflow protection.

Pond CP4 was designed to collect runoff water from the WRSF1 catchment and store that water on a short-term basis. The pond was constructed in general compliance with the design documents. It was excavated 3 m deeper than design and has a larger footprint. This results in a capacity larger than originally planned, which is beneficial for water management.

Berm CP4 (i.e., associated downstream berm for Pond CP4) was designed to preserve permafrost in the original ground below the center of the berm. It consists of two major components: a downstream berm and an upstream thermal erosion protection cover. The final elevation of the thermal erosion protection cover is higher than originally designed. This additional height is beneficial to the berm's performance. Two ground temperature cables were installed in Berm CP4 to monitor berm performance and stability.

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ACRONYMS & ABBREVIATIONS

Acronyms/Abbreviations	Definitions
ABA	Acid-base Accounting
AEM	Agnico Eagle Mines Limited
CAT	Caterpillar
CP	Collection Pond
GTC	Ground Temperature Cable
IDF	Inflow Design Flood
km	Kilometres
m	Metres
mm	Millimetres
Project	Meliadine Gold Project
Tetra Tech	Tetra Tech Canada Inc.
WRSF	Waste Rock Storage Facility

LIMITATIONS OF REPORT

This report and its contents are intended for the sole use of Agnico Eagle Mines Limited and their agents. Tetra Tech Canada Inc. (Tetra Tech) does not accept any responsibility for the accuracy of any of the data, the analysis, or the recommendations contained or referenced in the report when the report is used or relied upon by any Party other than Agnico Eagle Mines Limited, or for any Project other than the proposed development at the subject site. Any such unauthorized use of this report is at the sole risk of the user. Use of this document is subject to the Limitations on Use of this Document attached in the Appendix or Contractual Terms and Conditions executed by both parties.

1.0 INTRODUCTION

1.1 General

Tetra Tech Canada Inc. (Tetra Tech) was retained by Agnico Eagle Mines Limited (AEM) to prepare a construction summary (as-built) report for the water management facilities recently constructed at the Meliadine Gold Project (the Project) site, NU. The Project site is located approximately 25 km north from Rankin Inlet, NU on the peninsula between the east, south, and west basins of Meliadine Lake (63°01'23.8"N, 92°13'6.42"W). A general site plan for the project is shown in Figure 1.

This report summarizes construction activities of the water management facilities for Waste Rock Storage Facility 1 (WRSF1), including: Channel4, Pond CP4, and Berm CP4. These facilities were constructed between October 2018 and May 2019, with assistance of several contractors: AEM Civil Construction performed construction management, quality assurance, and construction of the facilities; Kivaliq Contractors Group provided additional construction support; and Hamel Arpentage conducted surveying for the facilities.

This report is to be submitted to the Nunavut Water Board. It has been prepared to meet the requirements in the Type "A" Water Licence No. 2AM-MEL 1631 – Agnico Eagle Mines Limited for the Meliadine Gold Project (Part D, Item 3).

1.2 Related Documents

The supporting and related documents for this report are as follows:

- Design Report for CP3, CP4, CP Berms, Berm2, Channel3, and Channel4, Meliadine Project, Nunavut, AEM Document Number 6515-E-132-007-132-REP-017 (Tetra Tech 2018); and
- Geotechnical Specifications for Construction of CP3, CP4, Channel3, Channel4, and Berms, Meliadine Gold Project, NU, AEM Document Number 6515-E-132-007-132-SPT-006 (Tetra Tech 2018).

2.0 CHANNEL4

2.1 Design Concept

Channel4 is designed to intercept runoff from the WRSF1 catchment area. The intercepted runoff water will be diverted to Pond CP4, pumped to former Lake H13, and then will flow into Pond CP1 (via Channel1).

2.2 Construction Materials

Table 2-1 presents the materials that were used for the construction of Channel4.

Table 2-1: Materials Used for Channel4 Construction

Material	Volume
Clean Rockfill (600 mm Minus; from Pond CP4 Excavation; used as fill in over-excavated areas of Channel4)	8,815 m ³
Rip-rap	3,857 m ³
Non-Woven Geotextile (200 g/m ²)	Not differentiated by survey
Total Channel4 Excavation Volume (Bank volume)	20,454 m³

2.3 Construction Equipment

Table 2-2 presents the major equipment used during Channel4 construction.

Table 2-2: Equipment Used During Channel4 Construction

Excavators	Haul Trucks	Loaders	Drills
CAT 308	Volvo 40t	Komatsu WA500	Sandvik DX800
CAT 349	CAT 745		
CAT 352			

2.4 Channel4 Construction Activities

Site preparation for Channel4 took place during April 2018. Snow was cleared from the channel footprint, alignment crests and toes were staked, and original ground was profiled by survey.

Channel4 construction activities comprised of drill/blast excavation, geotextile placement, and rip-rap placement, and took place from April 24, 2019 to May 11, 2019.

Drill and blast operations were required to complete the entire excavation. Eleven blasts were conducted at the channel between April 25, 2019 and May 5, 2019. Due to the drill/blast excavation technique, the channel was over-excavated. Select blast rock (typically 300 mm minus) from the Pond CP4 excavation was placed over the excavated surface to form the design slopes/grades of the channel via excavators. All overburden till material removed from the channel was either used to construct Channel4 berm or was placed at the Tiriganiaq dump site to eventually become part of WRSF1.

Geotextile was placed cross-width across the re-built excavation surface by laborers, with each panel overlapped by approximately one foot before rip-rap placement. Rip-rap was placed with an excavator on top of the geotextile and lightly bucket-tamped into place.

Photos 1 to 9 show Channel4 at various stages of construction. A 3-D as-built model of Channel4 is shown on Figure 2.

2.5 Quality Assurance and Quality Control

All earthworks material not subject to particle size analysis (rip-rap) was visually assessed as satisfactory for placement by AEM Civil Construction.

2.6 Variations from Design Documents

Table 2-3 lists the key design parameters and as-constructed values for Channel4. The upper section of the Channel4 is defined as Station 0+000 to Station 0+160; the lower section of Channel4 is defined as Station 0+160 to Station 0+923.

Table 2-3: Key Information and Design Parameters for Channel4

Item	Design Value	As-Built Values
Total Length (m)	923	930.02
Channel Bottom Width (m)	1.0 (upper section) 2.0 (lower section)	1.0 to 1.7 (upper section) 0.8 to 4.5 (lower section)
Side Slopes	2.5H:1.0V	1.8H:1.0V to 5.0H:1.0V
Rip-Rap Thickness or Width (m)	0.3	0.37 (avg.)
Minimum Bottom Slope Gradient (%)	3.9 for upper section, 0.3 for lower section	2.1 to 5.3 for upper 0.1 to 4.2 for lower
Maximum Depth of Channel Excavation (m)	2.5	3.1
Height of the Berm4 (m)	1.0 (min.)	0.45 (min.) 2.22 (max.) 1.18 (avg.)
Maximum Catchment Area (km ²)	0.21	0.30

Channel4 was designed to pass an extreme intensity flow under a 5-minute 1:100 return rainfall of 5.0 mm. Channel4 was generally constructed according to the guidelines and requirements stated in design documents; however, it does contain some deviations. These deviations will not affect the overall performance of the channel during high flow.

The slope gradient of Channel4 does not meet the minimum design gradients along the entire channel. The upper part of the channel has a design slope gradient of 3.9% but it was constructed with a slope gradient ranging from 2.1% to 5.3%. Though the slope gradient does not meet design criteria in some areas, the channel flow should not be impacted due to the elevation change in the upper channel section. The lower part of the channel has a design slope gradient of 0.3% but it was constructed with a slope gradient ranging from 0.1% to 4.2% and has some upward-sloping areas. The slope gradients lower than 0.3% may stagnate flow or may contribute to ponding along the channel. Upward-sloping areas will likely cause ponding and are located from Station 0+470 to Station 0+550 and Station 0+630 to Station 0+720.

Rip-rap cover at the bottom of the channel exceeds design elevation in most areas. Thicker rip-rap cover reduces the capacity of the channel; however, the channel will still contain the capacity of a 1:100 Inflow Design Flood (IDF) event.

The side slopes of Channel4 vary, ranging from 1.8H:1.0V to 5.0H:1.0V. The slopes were designed to be 2.5H:1.0V. The flatter slopes are acceptable. The steeper slopes are expected to perform adequately but should be monitored and repaired if necessary.

The channel's bottom width meets design criteria over the entire upper channel and generally meets design criteria in sections of the lower channel. In the upper channel, the bottom width design is 1.0 m; the constructed bottom width ranges from 1.0 m to 1.7 m. The larger width is acceptable and increases flow capacity. In the lower channel, the bottom width design is 2.0 m; the average of the constructed bottom width is 2.3 m. Narrower bottom widths vary from Station 0+250 to Station 0+300 (0.83 m to 1.83 m) and do not meet design criteria; however, they will not affect performance of the channel and will maintain a 0.6 m freeboard during an extreme intensity flow event. Channel bottom widths from Station 0+350 to Station 0+750 are generally overbuilt (up to 4.5 m), which would allow for additional capacity in the channel.

The hydrology assessment of Channel4 was re-evaluated to determine the impact of deviations from, lower slope gradients and reduced height of channel walls (Station 0+450) on the flow regime. The re-evaluation confirmed the channel's performance will remain unaffected, though there will be reduced freeboards (0.2 m) from Station 0+450 to Station 0+550 during an extreme intensity flow event. The remainder of the channel will have freeboards varying from 0.4 m to 1.0 m.

Channel4 berm was generally constructed according to the guidelines and requirements stated in design documents. Channel4 berm was designed with a minimum height of 1.0 m. It was constructed with heights ranging from 0.45 m to 2.2 m and has an average height of 1.2 m. Although the Channel4 berm is below the minimum 1.0 m height requirement from Station 0+450 to Station 0+500, the berm will still provide thermal and overflow protection.

3.0 POND CP4

3.1 Design Concept

Pond CP4 was designed to collect the runoff water from the WRSF1 catchment area and store this water on a short-term basis. Runoff water from Channel4 will be diverted into Pond CP4. Water collected in Pond CP4 will be actively pumped to former Lake H13, where it will then flow into Pond CP1 (via Channel1).

Pond CP4 was designed to store three out of seven days freshet under 1:100 wet precipitation year. The maximum operating water elevation under IDF is set to 2.0 m lower than the outlet elevation of the original ground (the lowest ground surface elevation along the perimeter of the pond).

3.2 Construction Materials

Table 3-1 presents the materials that were used for the construction of Pond CP4.

Table 3-1: Materials Used for Pond CP4 Construction

Material	Volume
Clean Rockfill (600 mm Minus; from Pond CP4 excavation; placed as overburden protection)	14,338 m ³
Total Pond CP4 Excavation Volume (Bank Volume)	100,085 m³

3.3 Construction Equipment

Table 3-2 presents the major equipment used during CP4 construction.

Table 3-2: Equipment Used During CP4 Construction

Excavators	Haul Trucks	Loaders	Drills
CAT 349	Volvo 40t	Komatsu WA500	Sandvik DX800
CAT 352	CAT 745		

3.4 Construction Activities

Site preparation for Pond CP4 took place during October 2018. Exterior pond crests were staked, and original ground was profiled by survey. Decommissioned Lakes B8 and B9 were dewatered to Pond CP1 for treatment before release to Meliadine Lake.

Approximately 19,500 m³ of overburden was excavated between October 27, 2018 and November 8, 2018. This material was placed and compacted to form the base of Berm CP4. Talik conditions with free-dig depths of up to 5 m were observed under the former B9 Lakebed. The presence of these talik conditions necessitated over excavation in the southeast corner of the pond to fully remove the unfrozen ground.

An ice wedge was discovered approximately 2 m below ground in the northwest wall of Pond CP4 during excavation. The ice wedge was mechanically excavated 2 m back from the design wall. The cavity was filled with select blast rock and was bucket-tamped into place.

Drill/blast excavation took place from March 17, 2019 to April 20, 2019. Test drilling was conducted in advance of production drill/blast to confirm frozen overburden conditions and bedrock depths. Drill and blast operations completed the remainder of the pond excavation. A total of seven blasts were conducted using emulsion explosive products. Excavators then sorted the blasted material and loaded it into haul trucks for placement as follows:

- Overburden was placed to form Berm CP4 or as part of the thermal cover for Pond CP4;
- Oversized material was removed to the Tiriganiaq dump site;
- Rock was placed as ramp material, used as overburden protection around the pond, and as erosion protection for Berm CP4; and
- The remainder of the blast rock was stockpiled for future use.

Photos 10 to 24 show Pond CP4 at various stages of construction. A 3-D as-built model of Pond CP4 is shown in Figure 3.

3.5 Variations from Design Documents

Key information and design parameters for Pond CP4 are summarized in Table 3-3 along with the as-constructed values.

Table 3-3: Key Information and Design Parameters for Pond CP4

Item	Design Value	As-Built Values
Pond Bottom Elevation (m)	56.0	51.0 to 54.0 (avg. 52.6)
Approximate Pond Excavation Depth from Original Ground (m)	9.0 to 12.0	11.8 to 15.0 (avg. 13.8)
Maximum Water Elevation Under IDF (m)	63.0	63.0
Overburden Slopes	3.0H:1.0V	2.0H:1.0V to 3.9H:1.0V (avg. 2.7H:1V)
Bedrock/Overburden Contact Elevation (m)	Assumed 60.0	58.1 to 60.2
Minimum Thermal Protection Cover Thickness (m)	1.0	0.9 (min.) to 2.8 (max.) 2.25 (avg.)
Minimum Ramp Width (m)	7.0	4.9 to 11.9
Ramp Longitudinal Slope (%)	10.0	11.0 to 19.5
Safety Berm Height (m)	1.5	0.8 (min.) to 1.2 (max.)

Pond CP4 was generally constructed to design. The excavation was approximately 3 m deeper and was wider than specified in some areas, which will provide additional storage capacity to the pond. Some areas of the pond have also been cut at a steeper slope in the overburden than designed. Minor sloughing may occur in the slopes; however, this is not expected to affect the functionality of the pond. The position of the ramp was also relocated to the south-east portion of the pond. The safety berm ranges from 0.8 m to 1.2 m in height, which is lower than the specified 1.5 m in the design but satisfies the height requirements for light vehicle traffic.

The as-built stage-storage for the pond is summarized in Table 3-4 and Figure 5. The as-built capacity at the maximum water level (63.0 m) is approximately 48,995 m³. Since Pond CP4 contains a larger holding capacity than the original design, the pond can hold additional capacity (16,676 m³). The IDF spring freshet event can be contained at the maximum water elevation (63.0 m) as long the water level is the pond is below 57.6 m prior to receiving spring freshet.

Table 3-4: Stage-storage Capacity and Pond Surface Area with Elevations for Pond CP4

Pond Elevation (m)	Pond Storage Volume (m ³)
51.7	0
52.0	7
52.5	275
53.0	1,316
53.5	2,727
54.0	4,238
54.5	5,815
55.0	7,456
55.5	9,158

Table 3-4: Stage-storage Capacity and Pond Surface Area with Elevations for Pond CP4

Pond Elevation (m)	Pond Storage Volume (m ³)
56.0	10,922
56.5	12,747
57.0	14,637
57.5	16,594
58.0	18,624
58.5	20,739
59.0	22,987
59.5	25,403
60.0	28,051
60.5	30,947
61.0	34,075
61.5	37,439
62.0	41,043
62.5	44,894
63.0	48,995

The contact between the bedrock and the overburden varies throughout the pond. The lowest point being 58.1 m. A portion of the overburden will be submerged as the water level reaches the specified maximum water level of 63.0 m during the IDF event. The water in the pond should be pumped below the bedrock contact level, after freshet and inflow events to prevent permafrost degradation of the bedrock and overburden and reduce sloughing of the pond slopes.

4.0 BERM CP4

4.1 Design Concept

Berm CP4 is a thermal protection berm located downstream of Pond CP4. Its purpose is to provide thermal protection for preserving underlying permafrost in the original ground below the center of the berm. It consists of two structures including: a downstream berm and an associated upstream thermal erosion protection cover.

4.2 Construction Materials

Table 4-1 presents the materials that were used for the construction of Berm CP4:

Table 4-1: Materials Used for Berm CP4 Construction

Material	Volume
Overburden Till (from the CP4 pond excavation)	79,387 m ³
Clean Rockfill (600 mm Minus; from Pond CP4 excavation)	14,410 m ³
Non-Woven Geotextile (200 g/m ²)	Not differentiated by survey

4.3 Construction Equipment

Table 4-2 presents the major equipment used during Berm CP4 construction.

Table 4-2: Equipment Used During CP4 Construction

Excavators	Haul Trucks	Bulldozers	Other
CAT 349	Volvo 40t	CAT D6	Sandvik DX800 drill
CAT 352	CAT 745	CAT D8	10-ton vibratory drum roller

4.4 Berm CP4 Construction Activities

Site preparation for Berm CP4 took place during October 2018. Snow was removed from the berm footprint with bulldozers. The berm toe-line and height of each lift were staked, and original ground was profiled by survey.

Berm CP4 construction was completed between October 27, 2018 and April 23, 2019. The berm was constructed entirely of material excavated from Pond CP4 and SP2. Frozen overburden fill material was placed in controlled lifts as per the geotechnical specifications (Tetra Tech 2018). Overburden fill material was compacted with a 10-ton vibratory drum compactor to the satisfaction of AEM Civil Construction, and side slopes were shaped with an excavator after compaction.

Non-woven geotextile was placed on the upstream side of the berm after sloping was completed, as per specifications. Select blast rock from the Pond CP4 excavation was placed over the geotextile as rip-rap material by an excavator and bucket-tamped into place. Select blast rock was also placed over the berm surface as erosion protection.

Placement of blast rock for overburden protection at Berm CP4 took place from April 13 to April 29, 2019. Blast rock from the excavation was placed around the overburden portion of the pond excavation as thermal protection. The rock was placed and shaped with an excavator.

Photos 25 to 29 show Berm CP4 at various stages of construction. A 3-D as-built model of Berm CP4 is shown in Figure 4.

4.5 Instrumentation

Holes were drilled for two performance-monitoring ground temperature (thermistor) cables (GTCs) upon completion of Berm CP4 using a Sandvik DX800 drill. Four-inch diameter drill steel was inserted into the holes as casing. One GTC was installed per casing on May 18, 2019 and the casing were backfilled with sand post-installation. Locations of the GTCs are shown on the construction record drawings in Appendix D. Ground temperature profiles for each cable based on data from May 18, 2019 to October 2, 2019 are attached in Appendix E.

4.6 Variations from Design Documents

Key information and design parameters for Berm CP4 are summarized in Table 5-3 along with the as-constructed values.

Table 4-3: Key Information and Design Parameters for Berm CP4

Item	Design Value	As-Built Value
Total Berm Length (m)	250.0	271.7 (longest side)
Approximate Maximum Berm Height Above Original Ground (m)	3.3 (min.) 5.8 (max.) 4.9 (avg.)	3.5 (min.) 5.9 (max.) 5.0 (avg.)
Top Elevation of Till Core (m)	68.5	68.6
Berm Crest Elevation (m)	69.0	69.1

Berm CP4 was generally built to design specifications, with exception of the upstream thermal erosion protection cover; the minimum cover thickness of the thermal protection layer was met; however, the cover thickness was not extended to the edge of the pond excavation as per design specification.

The cover thickness of the thermal erosion protection berm between the Pond CP4 and Berm CP4 was increased from minimum thickness (1.0 m) to 2.7 m. Cover thickness was increased to provide additional thermal protection as an ice lens was discovered during drill/blast operations in the northwest wall, and to make use of the excessive overburden material. The thicker cover will improve the thermal performance of the berm.

The thermal erosion protection cover between the Pond CP4 and Berm CP4 met the minimum 15 m extension; however, it was not extended to the edge of the pond excavation. The gap between the edge of Pond CP4 and toe of thermal erosion protection layer from Berm CP4 ranges from 1.10 m to 11.33 m. This area was disturbed during the construction. Some thaw settlement is anticipated to occur in this area.

Survey data is missing between approximately Station 0+225 to Station 0+250.

The width at the top of Berm CP4 is slightly smaller on average (82.8 m) than design specification of 84.0 m. This is not expected to have a significant effect on the performance of the berm.

5.0 FILL MATERIALS GEOCHEMISTRY

Four rock samples were collected from the Pond CP4 excavation for off-site independent testing to establish the material's potential for acid generation. Results of acid-base accounting (ABA) tests conducted on the samples indicate a low potential for acid generation of the Pond CP4 excavated material. Geochemical characterization of the solids also indicates low potential for arsenic leaching as concentrations are within project predictions, which indicated management was not required for arsenic leaching.

6.0 LONG TERM MONITORING

6.1 Purpose

Performance monitoring is an integral part of the operation of any water retention structure. Permafrost is expected to exist beneath the footprint of the CP4 pond and berm, and the design intent is to maintain the original permafrost foundation over the life of the berm. The performance of Berm CP4 will need to be monitored throughout its operating life. Long-term monitoring of Berm CP4 should include the following:

- Monitor thermal regime to confirm thermal prediction;
- Monitor settlement and movements of the berm;
- Conduct routine visual inspections of the berm; and
- Satisfy regulatory requirements for the berm performance monitoring.

6.2 Thermal Monitoring

The GTCs installed in Berm CP4 must be read on a regular basis. Tetra Tech recommends that the cables be read once per month during the first year, and then on a yearly basis during operation. The measured readings analyzed and reported in the annual inspection report. The reading frequency can be adjusted as required.

6.3 Routine Visual Inspection

Visual inspection and monitoring can provide early warning of many conditions that can contribute to structure failures and incidents. Monitoring and inspection during construction and operation may include, but not be limited to, settlement/movement monitoring, seepage monitoring, pond water level, and water quality monitoring if required.

AEM should regularly undertake a visual inspection of the ponds, channels, and berms, especially during spring and summer periods. AEM should contact Tetra Tech upon any noted water seepage through the berm, unusual settlement/deformation, or cracks. Any monitoring data should be sent to Tetra Tech for review and evaluation.

6.4 Formal Annual Inspection

An annual inspection, in accordance with Part I, items 14 and 15 of Water License No. 2AM-MEL1631 will be conducted by a qualified Geotechnical Engineer to document the performance of each structure. These visits should take place between the months of July and September of each year. The inspection shall be conducted in accordance with the Canadian Dam Safety Guideline. The specific tasks conducted during these visits should include: inspection of the upstream and downstream slopes for any sign of distress, inspection of the structure crest for any sign of transverse cracking, and inspection of the abutments and downstream toe for any evidence of seepage. The reports will be submitted to the Nunavut Water Board as per the water license requirements.

7.0 CLOSURE

We trust this report meets your present requirements. If you have any questions or comments, please contact the undersigned.

Respectfully submitted,
Agnico Eagle Mines Limited
Tetra Tech Canada Inc.



AEM DOCUMENT NUMBER 6515-695-230-REP-001
AEM DOCUMENT NUMBER 6515-695-230-REP-001
AEM DOCUMENT NUMBER 6515-695-230-REP-001

Prepared by:

Jennifer Pyliuk, M.Eng., P.Eng.
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Agnico Eagle Mines Limited
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AEM DOCUMENT NUMBER 6515-695-230-REP-001
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Reviewed by:

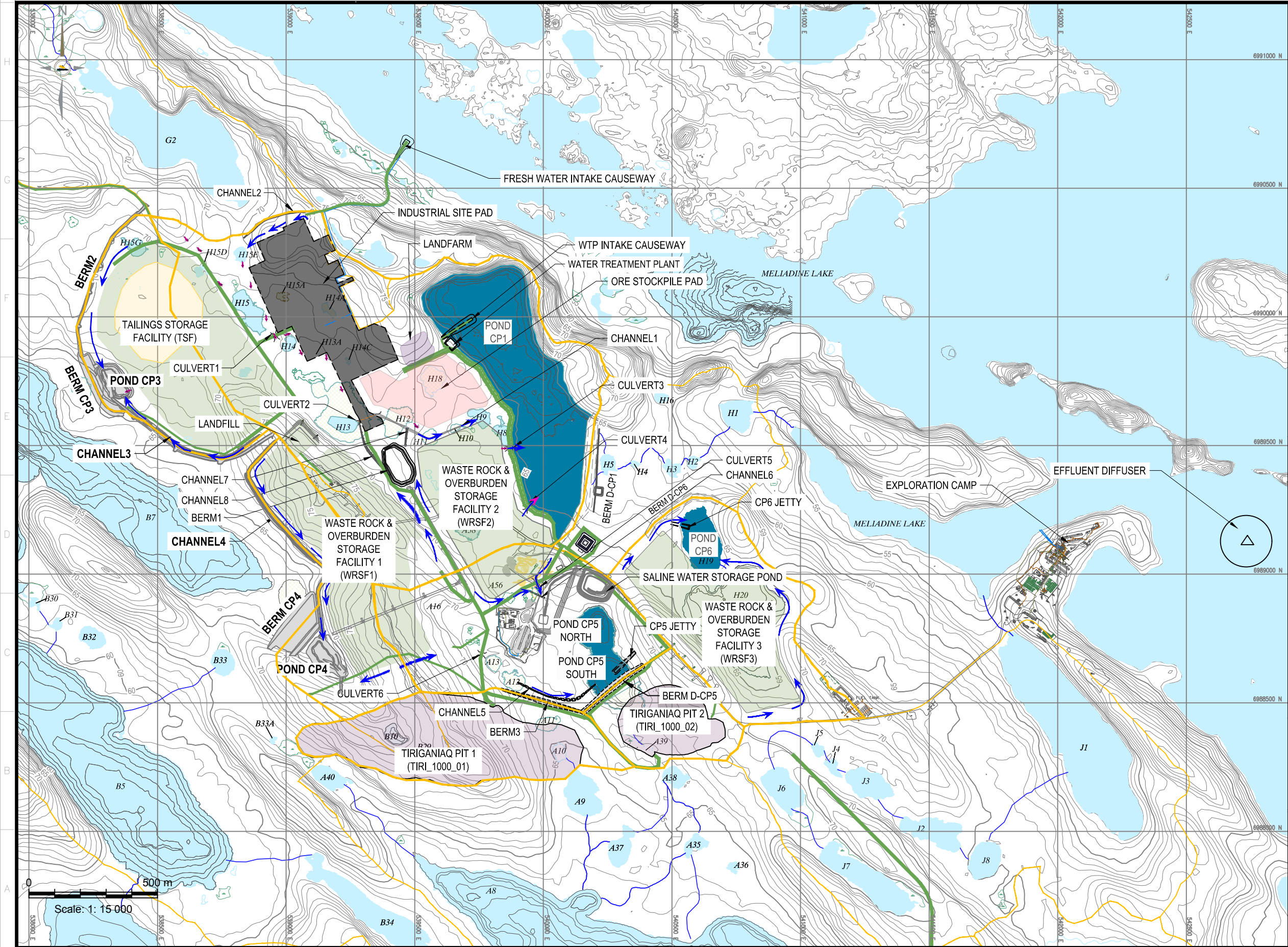
Bill Horne, M.Sc., P.Eng.
Director Arctic Engineering
Tetra Tech Canada Inc.
Direct Line: 587.460.3528
Bill.Horne@tetrattech.com

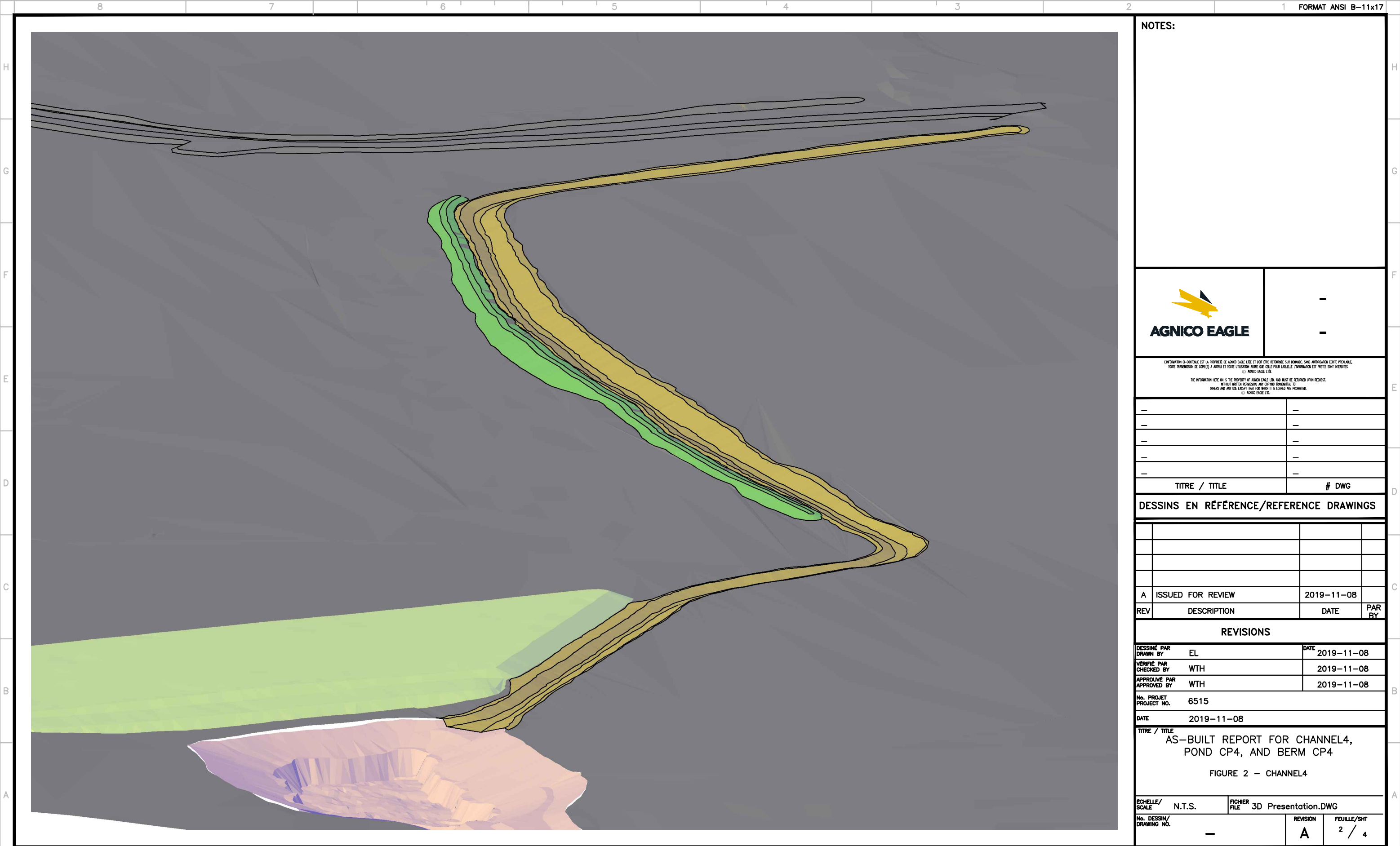
REFERENCES

- Agnico Eagle Mines Limited (AEM). 2017. Technical Specifications for Civil Earthworks. Revision 3. June 2017. AEM Document Number 6515-GNS-014.
- Tetra Tech Canada Inc. (Tetra Tech). 2018. Design Report for CP3, CP4, CP Berms, Berm2, Channel3, and Channel4, Meliadine Project, Nunavut. Prepared for Agnico Eagle Mines Limited June 2018. AEM Document Number 6515-E-132-007-132-REP-017. Tetra Tech Project Number ENG.EARC03076-02.
- Tetra Tech Canada Inc. (Tetra Tech). 2019. As-built Report for Berm2, Channel3, Pond CP3 and Berm CP3, Meliadine Project, Nunavut. Prepared for Agnico Eagle Mines Limited October 2019. AEM Document Number 6515-E-695-007-230-REP-001. Tetra Tech Project Number ENG.EARC03076-02.

FIGURES

Figure 1	General Site Layout
Figure 2	3-D Model of Channel4
Figure 3	3-D Model of Pond CP4
Figure 4	3-D Model of Berm CP4
Figure 5	CP4 Stage-Storage Curve





NOTES:



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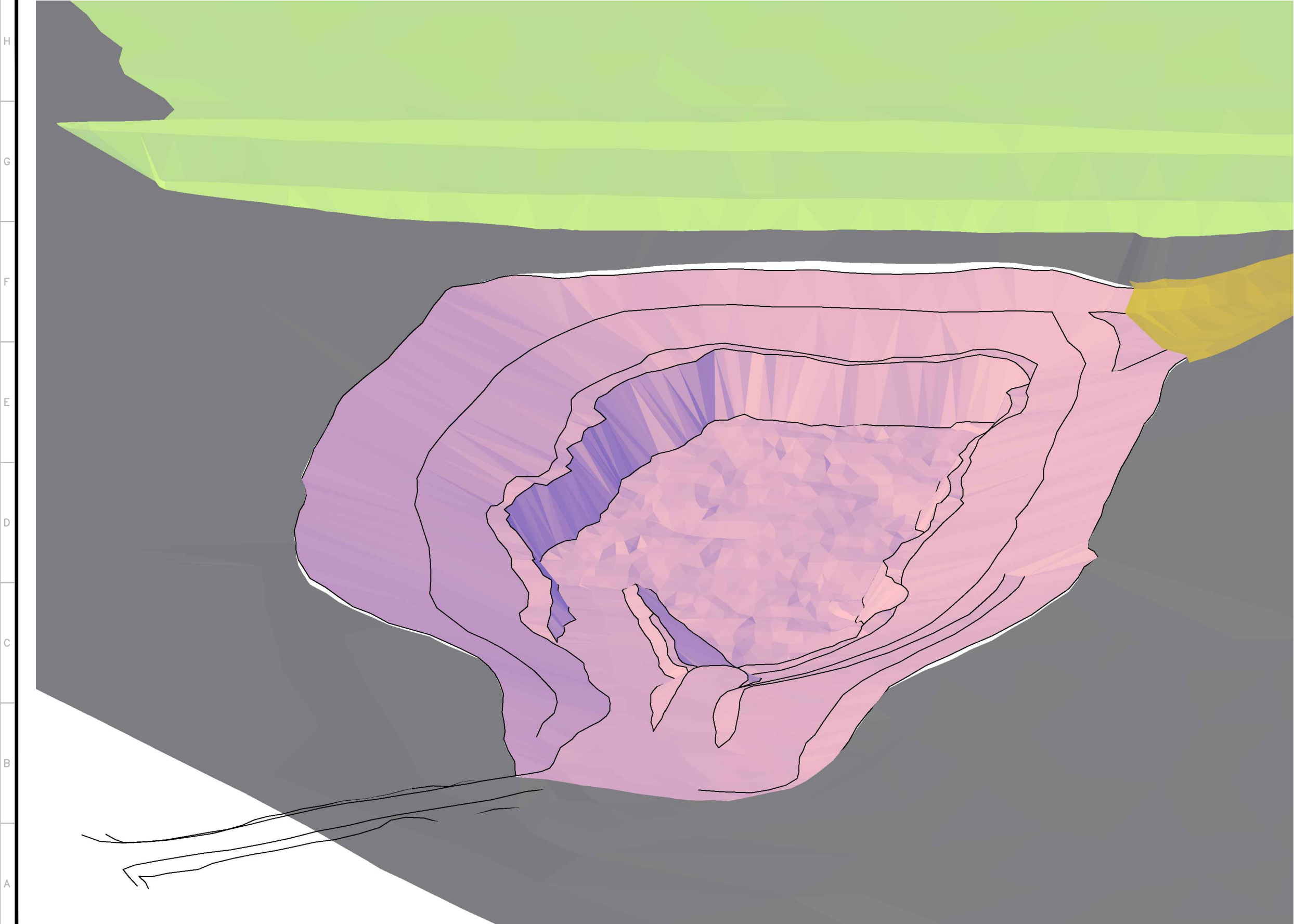
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REVISIONS

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VÉRIFIÉ PAR CHECKED BY	WTH		2019-11-08
APPROUVÉ PAR APPROVED BY	WTH		2019-11-08
No. PROJET PROJECT NO.	6515		
DATE	2019-11-08		
TITRE / TITLE			
AS-BUILT REPORT FOR CHANNEL4, POND CP4, AND BERM CP4			
FIGURE 2 - CHANNEL4			

ECHELLE/ SCALE	N.T.S.	FICHIER FILE	3D Presentation.DWG
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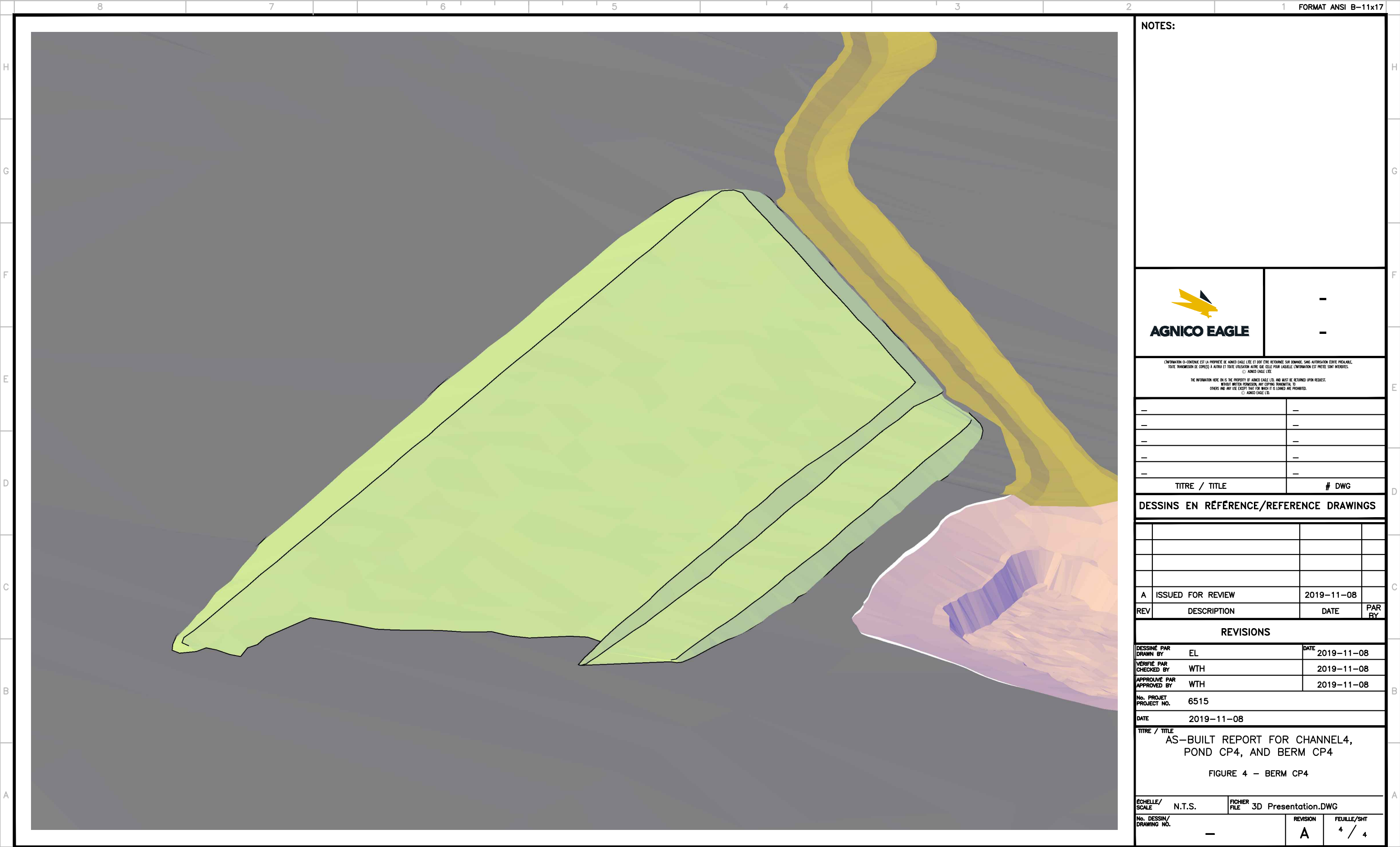
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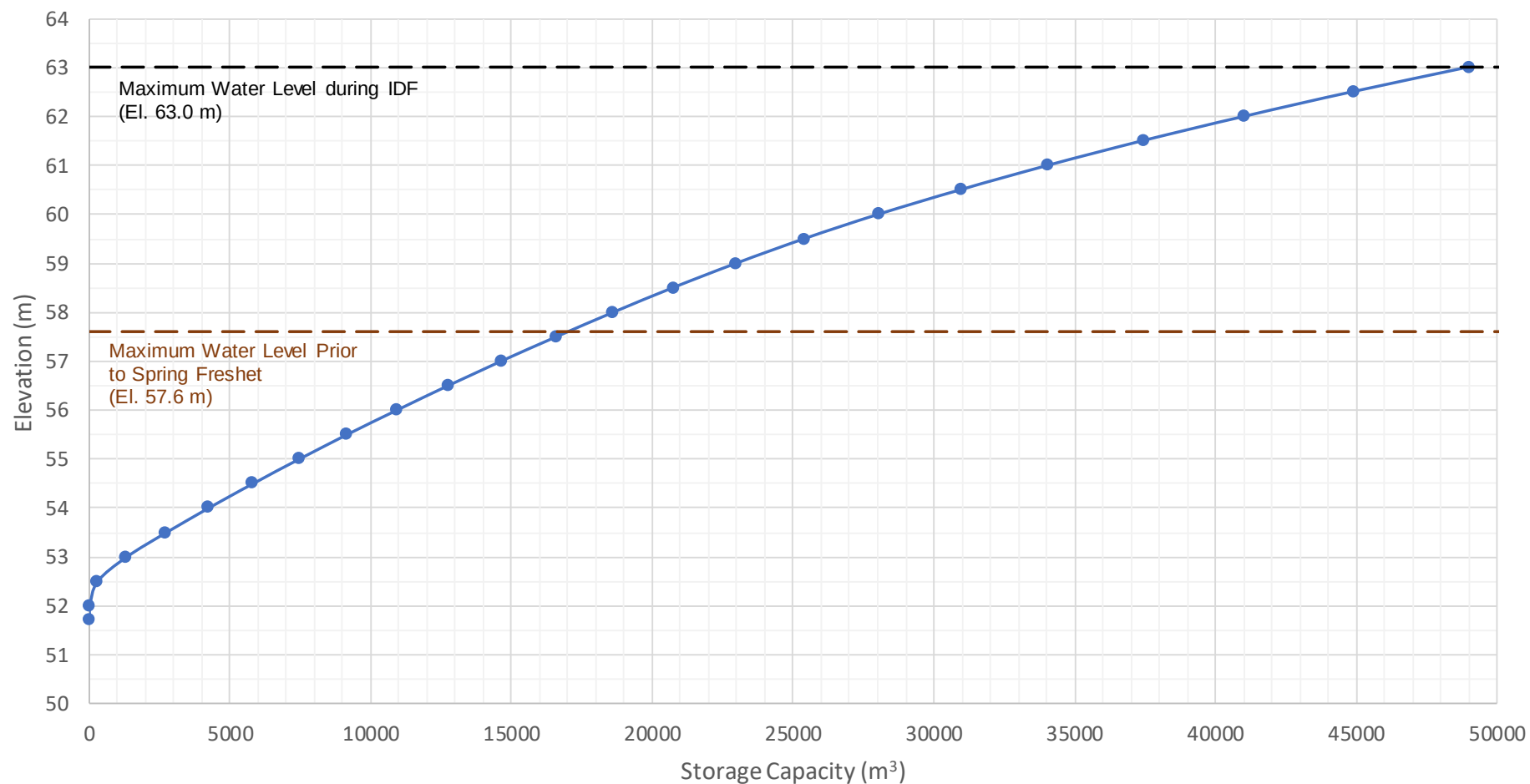
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APPROUVÉ PAR APPROVED BY	WTH		2019-11-08
No. PROJET PROJECT NO.	6515		
DATE	2019-11-08		

TITRE / TITLE
AS-BUILT REPORT FOR CHANNEL4,
POND CP4, AND BERM CP4
FIGURE 3 - POND CP4

ECHELLE/ SCALE	N.T.S.	FICHIER FILE	3D Presentation.DWG
No. DESSIN/ DRAWING NO.	—	REVISION	FEUILLE/SHT
		A	3 / 4





LEGEND

NOTES

STATUS
ISSUE FOR USE

CLIENT



AS-BUILT REPORT FOR CHANNEL4, POND CP4, AND BERM CP4

Pond CP4 Stage-Storage Curve

PROJECT NO.
704-ENG.EARC03076-02

OFFICE
EBA-EDM

DWN
CP

DATE
November 6, 2019

CKD
WTH

APVD
WTH

REV
0

Figure 5

PHOTOGRAPHS

Photo 1	2019-05-04 Channel4 – Geotextile placement Station 0+930
Photo 2	2019-05-04 Channel4 – Placement of geotextile rip-rap down Channel4 Station0+580
Photo 3	2019-05-08 Channel4 – Rip-rap placement Station 0+700
Photo 4	2019-05-09 Channel4 – Completed Channel Station 0+160 up chainage
Photo 5	2019-05-09 Channel4 – Rip-rap placement Station 0+020
Photo 6	2019-05-11 Channel4 – Shaping Channel4 berm
Photo 7	2019-05-12 Channel4 – Completed Channel4 berm Station 0+180 up chainage
Photo 8	2019-05-12 Channel4 – Completed Channel4 berm Station 0+460
Photo 9	2019-05-04 Channel4 – Drone View
Photo 10	2018-10-27 Pond CP4 – Mechanical Excavation CP4
Photo 11	2018-11-03 Pond CP4 – Mechanical excavation under former Lake B9
Photo 12	2019-03-21 Pond CP4 – Drill Blast operations Pond CP4
Photo 13	2019-04-02 Pond CP4 – Mucking Pond CP4
Photo 14	2019-04-03 Pond CP4 – Excavating ice wedge from CP4 wall
Photo 15	2019-04-06 Pond CP4 – Ice wedge in northwest wall Pond CP4
Photo 16	2019-04-13 Pond CP4 – Drilling first rock blast and placing overburden protection
Photo 17	2019-04-16 Pond CP4 – Mucking first rock blast (No.5) Pond CP4
Photo 18	2019-04-20 Pond CP4 – Overburden protection and bedrock surface before blasting
Photo 19	2019-05-04 Pond CP4 – Completed Pond CP4
Photo 20	2019-04-07 Pond CP4 – Drone View
Photo 21	2019-04-07 Pond CP4 – Drone View
Photo 22	2019-04-13 Pond CP4 – Drone View
Photo 23	2019-05-04 Pond CP4 – Drone View
Photo 24	2019-06-02 Pond CP4 – Drone View
Photo 25	2018-11-03 Berm CP4 – Pushing lift #1 of Berm CP3
Photo 26	2019-02-07 Berm CP4 – Pushing Berm CP4 with SP2 overburden
Photo 27	2019-02-15 Berm CP4 – Sloping overburden Berm CP4
Photo 28	2019-03-25 Berm CP4– Snow removal prior to Berm CP4 construction with Pond CP4 overburden
Photo 29	2019-04-11 Berm CP4 – Rock Placement over geotextile Berm CP4

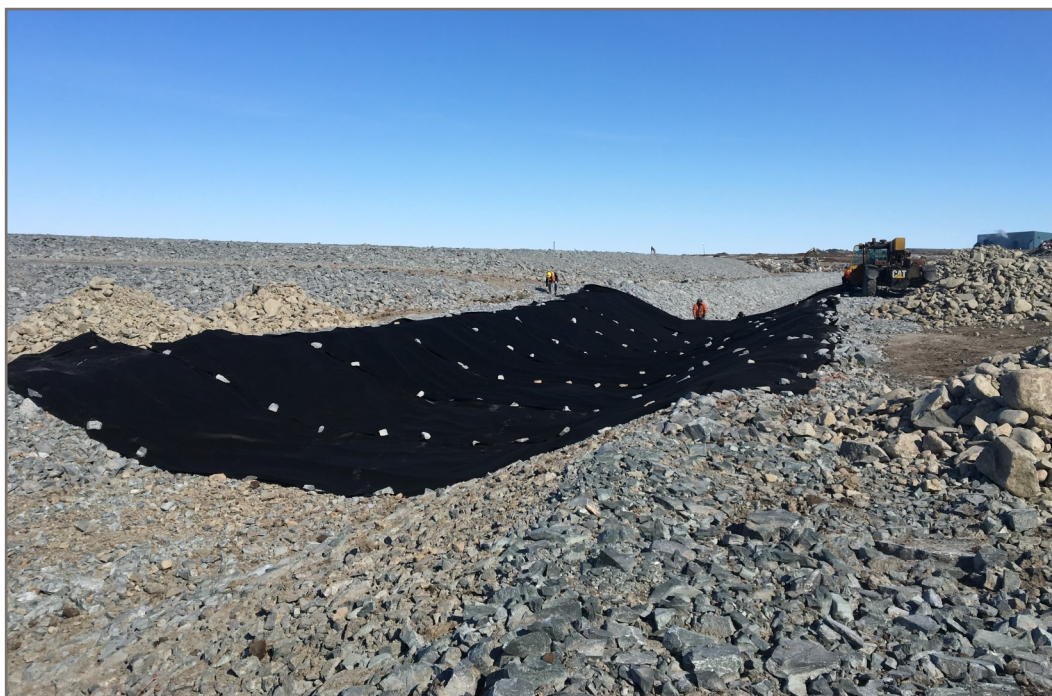


Photo 1: 2019-05-04 Channel4 - Geotextile placement Station 0+930



Photo 2: 2019-05-04 Channel4
Placement of geotextile
riprap down Channel4
Station 0+580



Photo 3: 2019-05-08 Channel4 -
Riprap placement
Station 0+700



Photo 4: 2019-05-09 Channel4 - Completed Channel4 Station 0+160 up chainage



Photo 5: 2019-05-09 Channel4 - Riprap placement Station 0+020



Photo 6: 2019-05-11 Channel4 - Shaping Channel4 berm



Photo 7: 2019-05-12 Channel4 - Completed Channel4 berm Station 0+180 up chainage



Photo 8: 2019-05-12 Channel4 - Completed Channel4 berm Station 0+460



Photo 9: 2019-05-04 Channel4 - Drone view



Photo 10: 2018-10-27 Pond CP4 -
Mechanical Excavation CP4

Photo 11: 2018-11-03 Pond CP4 -
Mechanical excavation
under former Lake B9





Photo 12: 2019-03-21 Pond CP4 - Drill blast operations Pond CP4



Photo 13: 2019-04-02 Pond CP4 - Mucking Pond CP4



Photo 14: 2019-04-03 Pond CP4 - Excavating ice wedge from Pond CP4 wall



Photo 15: 2019-04-06 Pond CP4 - Ice wedge in northwest wall Pond CP4



Photo 16: 2019-04-13 Pond CP4 - Drilling first rock blast and placing overburden protection



Photo 17: 2019-04-16 Pond CP4 - Mucking first rock blast (No.5) Pond CP4



Photo 18: 2019-04-20 Pond CP4 - Overburden protection and bedrock surface before blasting



Photo 19: 2019-05-04 Pond CP4 - Completed Pond CP4



Photo 20: 2019-03-16 Pond CP4 - Drone view

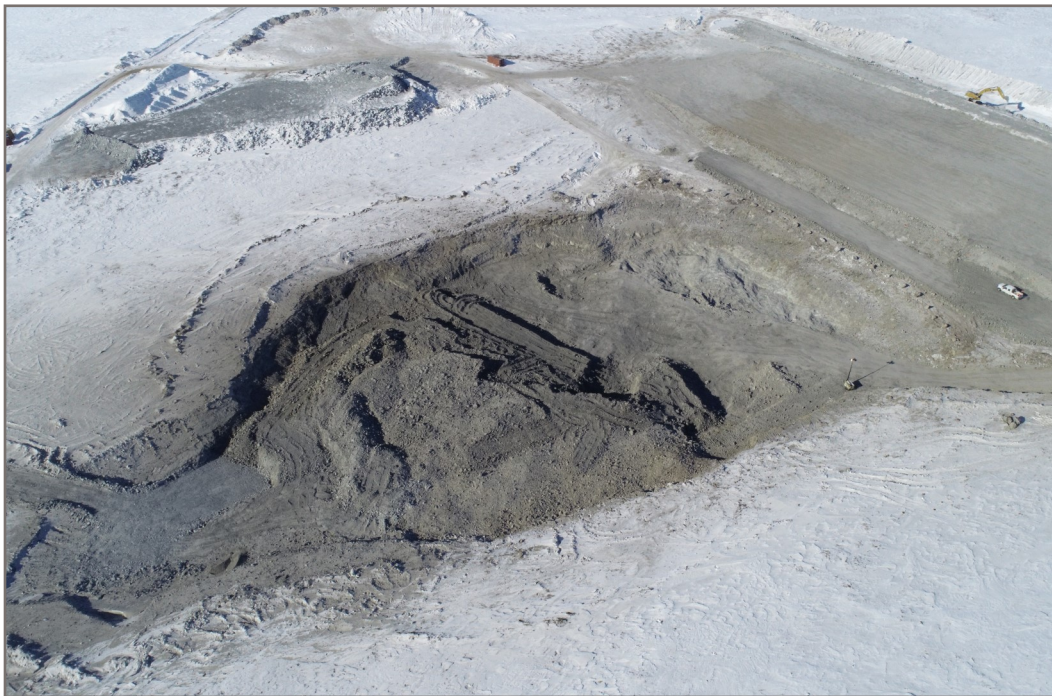


Photo 21: 2019-04-07 Pond CP4 - Drone view

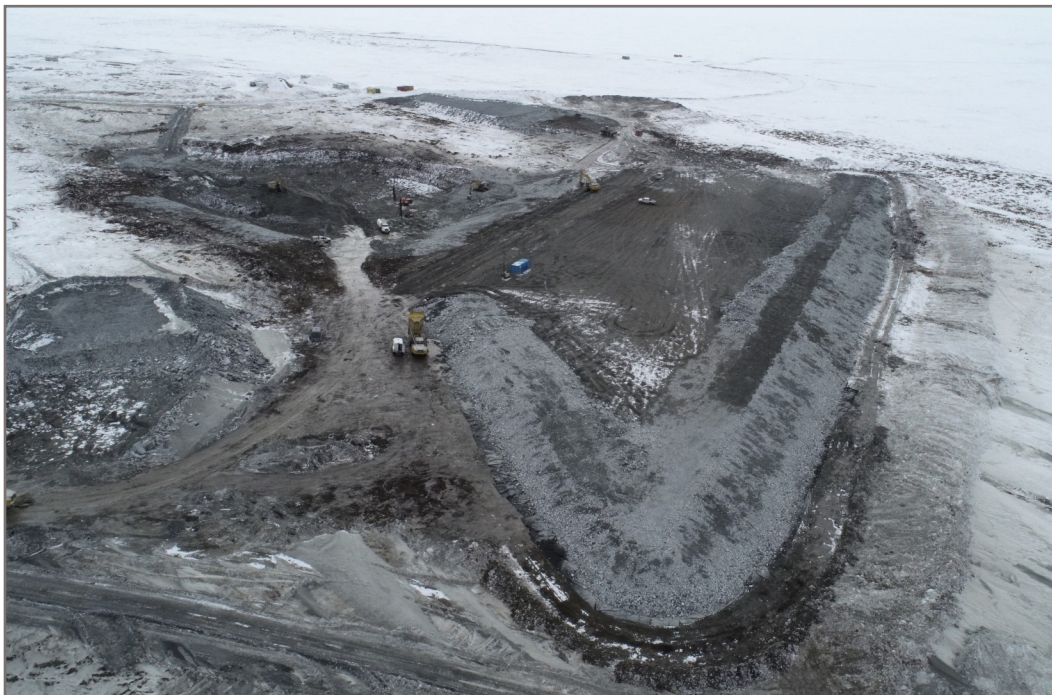


Photo 22: 2019-04-13 Pond CP4 - Drone view

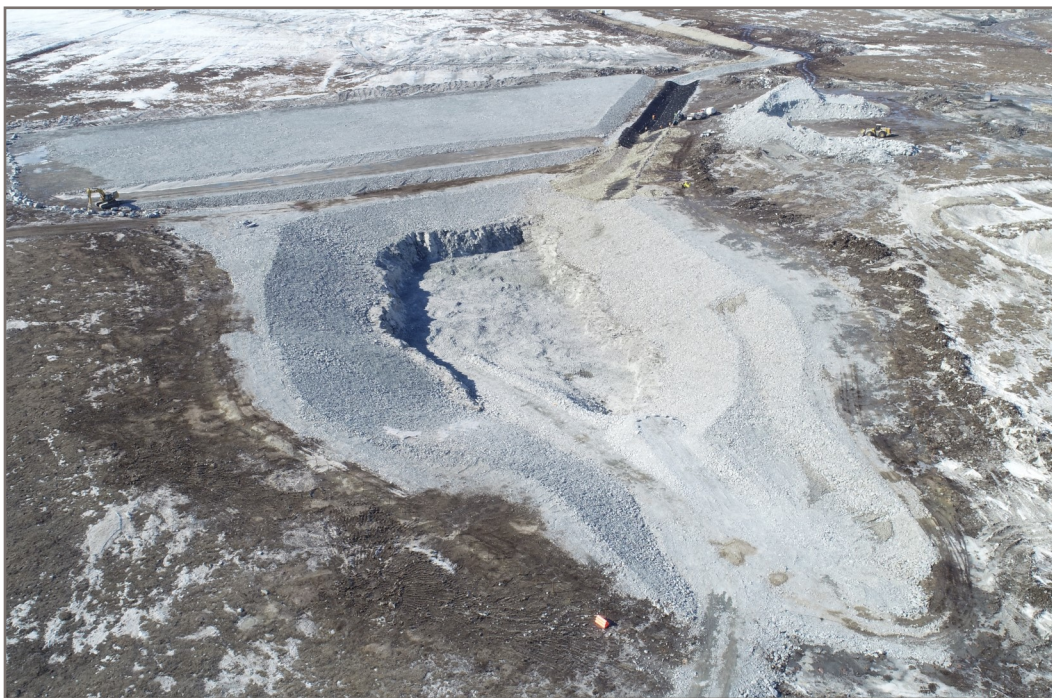


Photo 23: 2019-05-04 Pond CP4 - Drone view



Photo 24: 2019-06-02 Pond CP4 - Drone view



Photo 25: 2018-11-03 Berm CP4 -
Pushing lift #1 of Berm CP3



Photo 26: 2019-02-07 Berm CP4 - Pushing Berm CP4 with SP2 overburden



Photo 27: 2019-02-15 Berm CP4 - Sloping overburden Berm CP4



Photo 28: 2019-03-25 Berm CP4 - Snow removal prior to Berm CP4 construction with Pond CP4 overburden



Photo 29: 2019-04-11 Berm CP4 - Rock placement over geotextile Berm CP4

APPENDIX A

TETRA TECH'S LIMITATIONS ON USE OF THIS DOCUMENT

LIMITATIONS ON USE OF THIS DOCUMENT

GEOTECHNICAL

1.1 USE OF DOCUMENT AND OWNERSHIP

This document pertains to a specific site, a specific development, and a specific scope of work. The document may include plans, drawings, profiles and other supporting documents that collectively constitute the document (the "Professional Document").

The Professional Document is intended for the sole use of TETRA TECH's Client (the "Client") as specifically identified in the TETRA TECH Services Agreement or other Contractual Agreement entered into with the Client (either of which is termed the "Contract" herein). TETRA TECH does not accept any responsibility for the accuracy of any of the data, analyses, recommendations or other contents of the Professional Document when it is used or relied upon by any party other than the Client, unless authorized in writing by TETRA TECH.

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Where TETRA TECH has expressly authorized the use of the Professional Document by a third party (an "Authorized Party"), consideration for such authorization is the Authorized Party's acceptance of these Limitations on Use of this Document as well as any limitations on liability contained in the Contract with the Client (all of which is collectively termed the "Limitations on Liability"). The Authorized Party should carefully review both these Limitations on Use of this Document and the Contract prior to making any use of the Professional Document. Any use made of the Professional Document by an Authorized Party constitutes the Authorized Party's express acceptance of, and agreement to, the Limitations on Liability.

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1.2 ALTERNATIVE DOCUMENT FORMAT

Where TETRA TECH submits electronic file and/or hard copy versions of the Professional Document or any drawings or other project-related documents and deliverables (collectively termed TETRA TECH's "Instruments of Professional Service"), only the signed and/or sealed versions shall be considered final. The original signed and/or sealed electronic file and/or hard copy version archived by TETRA TECH shall be deemed to be the original. TETRA TECH will archive a protected digital copy of the original signed and/or sealed version for a period of 10 years.

Both electronic file and/or hard copy versions of TETRA TECH's Instruments of Professional Service shall not, under any circumstances, be altered by any party except TETRA TECH. TETRA TECH's Instruments of Professional Service will be used only and exactly as submitted by TETRA TECH.

Electronic files submitted by TETRA TECH have been prepared and submitted using specific software and hardware systems. TETRA TECH makes no representation about the compatibility of these files with the Client's current or future software and hardware systems.

1.3 STANDARD OF CARE

Services performed by TETRA TECH for the Professional Document have been conducted in accordance with the Contract, in a manner consistent with the level of skill ordinarily exercised by members of the profession currently practicing under similar conditions in the jurisdiction in which the services are provided. Professional judgment has been applied in developing the conclusions and/or recommendations provided in this Professional Document. No warranty or guarantee, express or implied, is made concerning the test results, comments, recommendations, or any other portion of the Professional Document.

If any error or omission is detected by the Client or an Authorized Party, the error or omission must be immediately brought to the attention of TETRA TECH.

1.4 DISCLOSURE OF INFORMATION BY CLIENT

The Client acknowledges that it has fully cooperated with TETRA TECH with respect to the provision of all available information on the past, present, and proposed conditions on the site, including historical information respecting the use of the site. The Client further acknowledges that in order for TETRA TECH to properly provide the services contracted for in the Contract, TETRA TECH has relied upon the Client with respect to both the full disclosure and accuracy of any such information.

1.5 INFORMATION PROVIDED TO TETRA TECH BY OTHERS

During the performance of the work and the preparation of this Professional Document, TETRA TECH may have relied on information provided by persons other than the Client.

While TETRA TECH endeavours to verify the accuracy of such information, TETRA TECH accepts no responsibility for the accuracy or the reliability of such information even where inaccurate or unreliable information impacts any recommendations, design or other deliverables and causes the Client or an Authorized Party loss or damage.

1.6 GENERAL LIMITATIONS OF DOCUMENT

This Professional Document is based solely on the conditions presented and the data available to TETRA TECH at the time the data were collected in the field or gathered from available databases.

The Client, and any Authorized Party, acknowledges that the Professional Document is based on limited data and that the conclusions, opinions, and recommendations contained in the Professional Document are the result of the application of professional judgment to such limited data.

The Professional Document is not applicable to any other sites, nor should it be relied upon for types of development other than those to which it refers. Any variation from the site conditions present, or variation in assumed conditions which might form the basis of design or recommendations as outlined in this report, at or on the development proposed as of the date of the Professional Document requires a supplementary investigation and assessment.

TETRA TECH is neither qualified to, nor is it making, any recommendations with respect to the purchase, sale, investment or development of the property, the decisions on which are the sole responsibility of the Client.

1.7 ENVIRONMENTAL AND REGULATORY ISSUES

Unless stipulated in the report, TETRA TECH has not been retained to investigate, address or consider and has not investigated, addressed or considered any environmental or regulatory issues associated with development on the subject site.

1.8 NATURE AND EXACTNESS OF SOIL AND ROCK DESCRIPTIONS

Classification and identification of soils and rocks are based upon commonly accepted systems and methods employed in professional geotechnical practice. This report contains descriptions of the systems and methods used. Where deviations from the system or method prevail, they are specifically mentioned.

Classification and identification of geological units are judgmental in nature as to both type and condition. TETRA TECH does not warrant conditions represented herein as exact, but infers accuracy only to the extent that is common in practice.

Where subsurface conditions encountered during development are different from those described in this report, qualified geotechnical personnel should revisit the site and review recommendations in light of the actual conditions encountered.

1.9 LOGS OF TESTHOLES

The testhole logs are a compilation of conditions and classification of soils and rocks as obtained from field observations and laboratory testing of selected samples. Soil and rock zones have been interpreted. Change from one geological zone to the other, indicated on the logs as a distinct line, can be, in fact, transitional. The extent of transition is interpretive. Any circumstance which requires precise definition of soil or rock zone transition elevations may require further investigation and review.

1.10 STRATIGRAPHIC AND GEOLOGICAL INFORMATION

The stratigraphic and geological information indicated on drawings contained in this report are inferred from logs of test holes and/or soil/rock exposures. Stratigraphy is known only at the locations of the test hole or exposure. Actual geology and stratigraphy between test holes and/or exposures may vary from that shown on these drawings. Natural variations in geological conditions are inherent and are a function of the historic environment. TETRA TECH does not represent the conditions illustrated as exact but recognizes that variations will exist. Where knowledge of more precise locations of geological units is necessary, additional investigation and review may be necessary.

1.11 PROTECTION OF EXPOSED GROUND

Excavation and construction operations expose geological materials to climatic elements (freeze/thaw, wet/dry) and/or mechanical disturbance which can cause severe deterioration. Unless otherwise specifically indicated in this report, the walls and floors of excavations must be protected from the elements, particularly moisture, desiccation, frost action and construction traffic.

1.12 SUPPORT OF ADJACENT GROUND AND STRUCTURES

Unless otherwise specifically advised, support of ground and structures adjacent to the anticipated construction and preservation of adjacent ground and structures from the adverse impact of construction activity is required.

1.13 INFLUENCE OF CONSTRUCTION ACTIVITY

There is a direct correlation between construction activity and structural performance of adjacent buildings and other installations. The influence of all anticipated construction activities should be considered by the contractor, owner, architect and prime engineer in consultation with a geotechnical engineer when the final design and construction techniques are known.

1.14 OBSERVATIONS DURING CONSTRUCTION

Because of the nature of geological deposits, the judgmental nature of geotechnical engineering, as well as the potential of adverse circumstances arising from construction activity, observations during site preparation, excavation and construction should be carried out by a geotechnical engineer. These observations may then serve as the basis for confirmation and/or alteration of geotechnical recommendations or design guidelines presented herein.

1.15 DRAINAGE SYSTEMS

Where temporary or permanent drainage systems are installed within or around a structure, the systems which will be installed must protect the structure from loss of ground due to internal erosion and must be designed so as to assure continued performance of the drains. Specific design detail of such systems should be developed or reviewed by the geotechnical engineer. Unless otherwise specified, it is a condition of this report that effective temporary and permanent drainage systems are required and that they must be considered in relation to project purpose and function.

1.16 BEARING CAPACITY

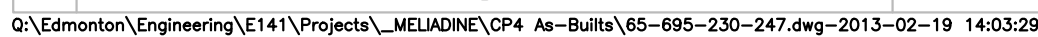
Design bearing capacities, loads and allowable stresses quoted in this report relate to a specific soil or rock type and condition. Construction activity and environmental circumstances can materially change the condition of soil or rock. The elevation at which a soil or rock type occurs is variable. It is a requirement of this report that structural elements be founded in and/or upon geological materials of the type and in the condition assumed. Sufficient observations should be made by qualified geotechnical personnel during construction to assure that the soil and/or rock conditions assumed in this report in fact exist at the site.

1.17 SAMPLES

TETRA TECH will retain all soil and rock samples for 30 days after this report is issued. Further storage or transfer of samples can be made at the Client's expense upon written request, otherwise samples will be discarded.

APPENDIX B

CONSTRUCTION RECORD DRAWINGS



NOTES GÉNÉRALES / GENERAL NOTES

1. ASSUMED CONSTRUCTION SCHEDULE WINTER 2018 / 2019
2. ASSUMED OPERATION SCHEDULE STARTING TO STORE WATER FROM FRESHET OF 2019.
3. POND DESIGN CAPACITY IS BASED ON STORING 3 OUT OF 7 FRESHET WATER UNDER 1:100 WET YEAR CONDITION.
4. THE MAXIMUM ALLOWABLE OPERATING WATER LEVEL IS AT ELEVATION 63.0 m UNDER THE DESIGN IDF CONDITION.
5. MATERIAL PLACEMENT AND FOUNDATION PREPARATION SHOULD BE IN ACCORDANCE WITH THE REQUIREMENTS OF GEOTECHNICAL CONSTRUCTION / MATERIAL SPECIFICATIONS (TETRA TECH 2018).

TEL QUE CONSTRUIT
AS BUILT

DATE : 2019-12-12

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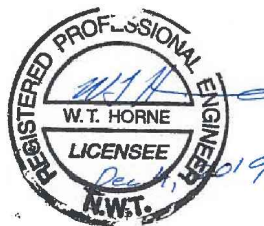
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**AGNICO EAGLE**

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A.	2018-05-29	ISSUED FOR REVIEW	HX	WTH	
REV.	DATE	DESCRIPTION	PAR/BY	APP.	CLIENT

REVISIONS



PERMIT TO PRACTICE
TETRA TECH CANADA INC

Signature

Date October 4, 2019

PERMIT NUMBER: P 018
NT/NU Association of Professionals

Engineers and Geoscientists

TITRE / TITLE

AS-BUILT REPORT FOR CHANNEL 4,
BOND CR4, AND PERM CR4

POND CP4, AND BERM CP4

CP4 AND CP4 THERMAL PROTECTION BERM

LAYOUT PLAN

10. *Journal of the American Medical Association*, 2000; 283: 2686-2692.

DESSINÉ PAR	DATE
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VERIFIÉ PAR CHECKED BY	HX	2019-07-31
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APPROXIMATE BAR	
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APPROVED BY WTH 2019-07-31

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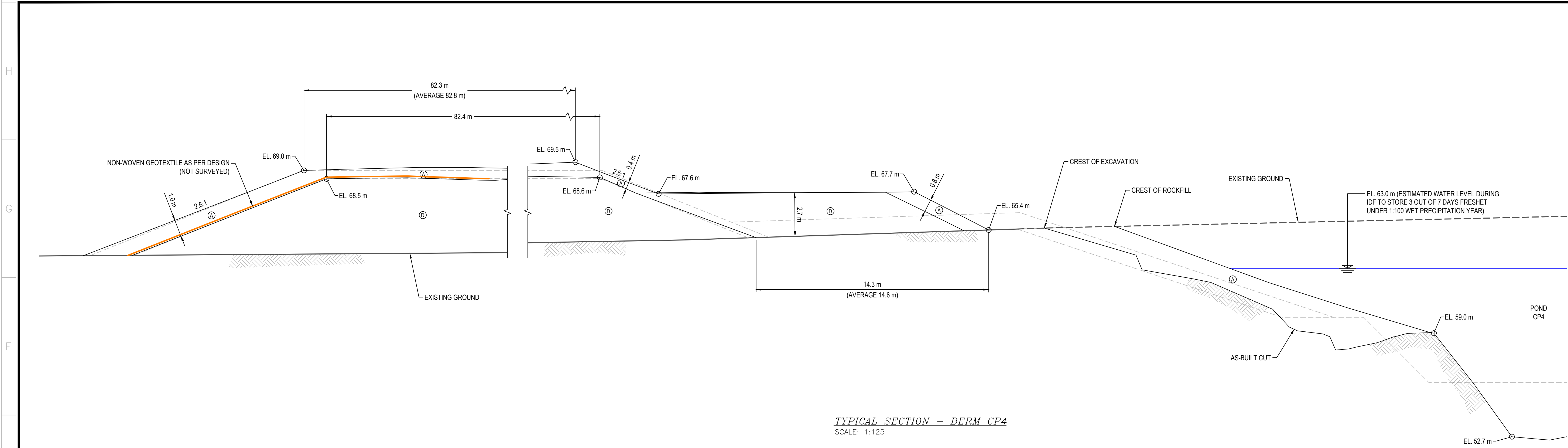
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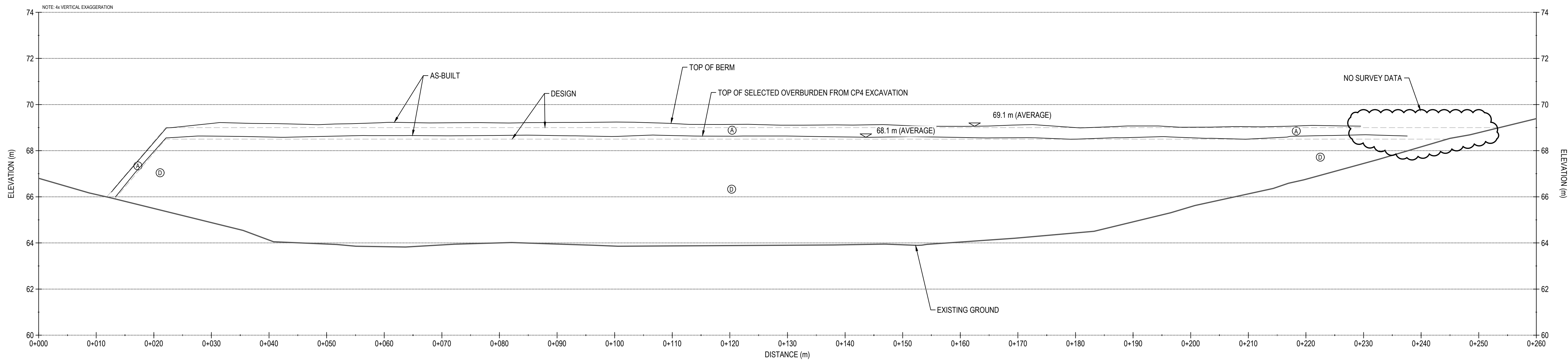
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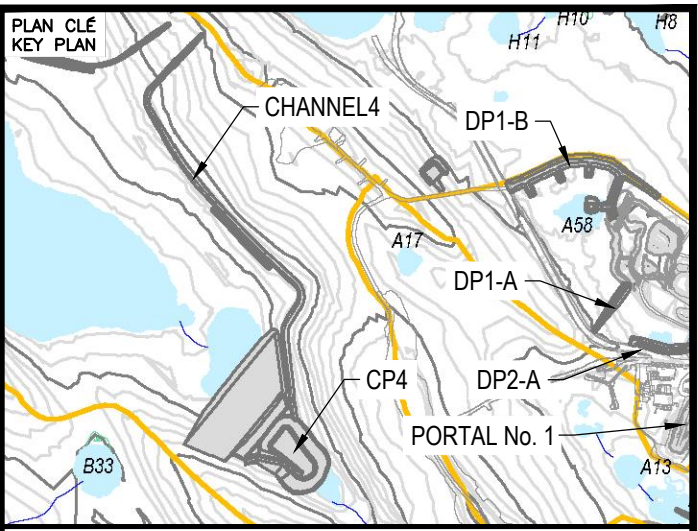
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TYPICAL SECTION - BERM CP4
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BERM CP4 - PROFILE
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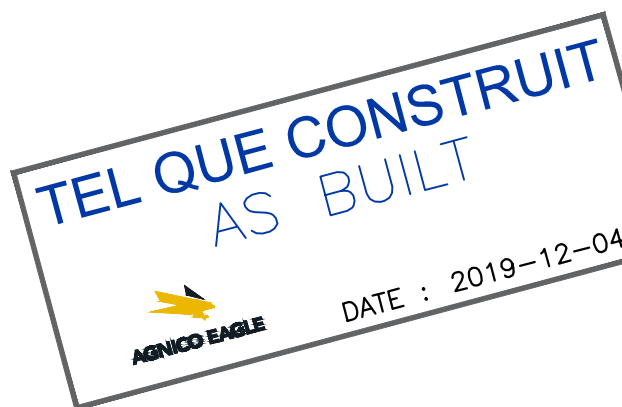


NOTES GÉNÉRALES / GENERAL NOTES

1. ASSUMED CONSTRUCTION SCHEDULE WINTER 2018 / 2019
2. ASSUMED OPERATION SCHEDULE STARTING TO STORE WATER FROM FRESHET OF 2019.
3. POND DESIGN CAPACITY IS BASED ON STORING 3 OUT OF 7 FRESHET WATER UNDER 1:100 WET YEAR CONDITION.
4. THE MAXIMUM ALLOWABLE OPERATING WATER LEVEL IS AT ELEVATION 63.0 m UNDER THE DESIGN IDF CONDITION. MATERIAL PLACEMENT AND FOUNDATION PREPARATION SHOULD BE IN ACCORDANCE WITH THE REQUIREMENTS OF GEOTECHNICAL CONSTRUCTION / MATERIAL SPECIFICATIONS (TETRA TECH 2018).

LEGEND

- (A) CLEAN ROCKFILL FROM EXCAVATION (600 mm MINUS)
(B) OVERBURDEN FROM EXCAVATION (300 mm MINUS)



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DESSINS EN RÉFÉRENCE / REFERENCE DRAWINGS

TITRE / TITLE	# DWG
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REV.	DATE	DESCRIPTION	PREP/REV.	APP.	CLIENT
1	2019-12-04	RECORD DRAWINGS	EL	WTH	
0	2018-06-21	ISSUED FOR CONSTRUCTION	HX	WTH	
A	2018-05-29	ISSUED FOR REVIEW	HX	WTH	

REV.	DATE	DESCRIPTION	PREP/REV.	APP.	CLIENT
1	2019-12-04	RECORD DRAWINGS	EL	WTH	
0	2018-06-21	ISSUED FOR CONSTRUCTION	HX	WTH	
A	2018-05-29	ISSUED FOR REVIEW	HX	WTH	

TITRE / TITLE
AS-BUILT REPORT FOR CHANNEL 4,
POND CP4, AND BERM CP4

CP4 TYPICAL SECTION AND
CP4 THERMAL PROTECTION BERM PROFILE

DESSINÉ PAR DRAWN BY	EL	DATE 2019-07-31
VÉRIFIÉ PAR CHECKED BY	HX	2019-07-31
APPROUVÉ PAR APPROVED BY	WTH	2019-07-31

ÉCHELLE
SCALE AS SHOWN
DATE 2019-07-31
NO. DESIGN
DRAWING NO. 65-695-230-248

NO. PROJET PROJECT NO.	REVISION	FEUILLE / SHEET
6515	1	2 / 9

H

G

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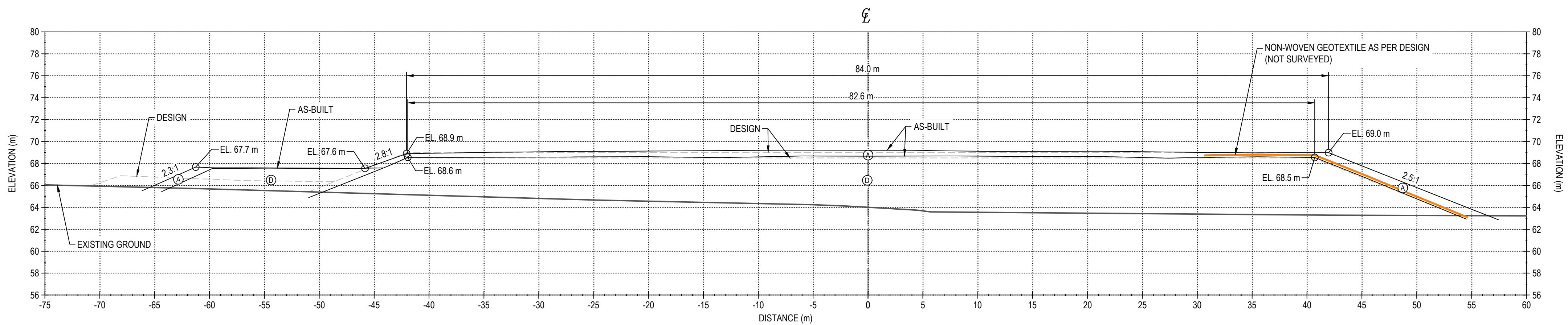
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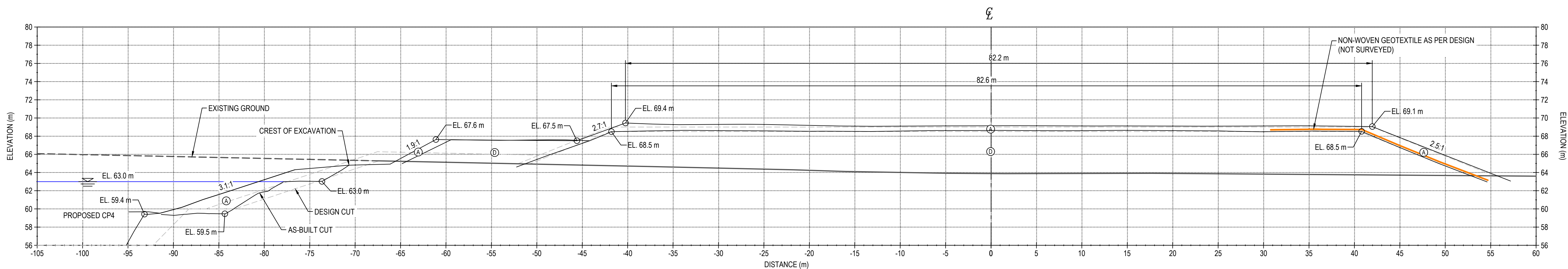
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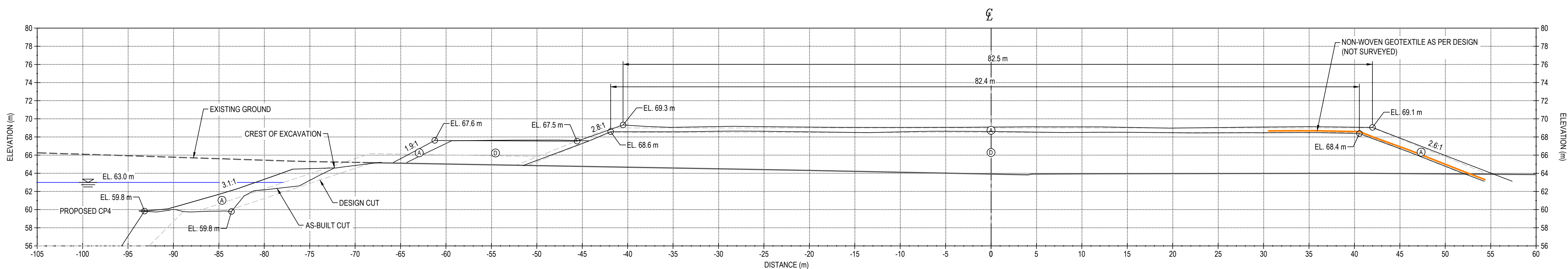
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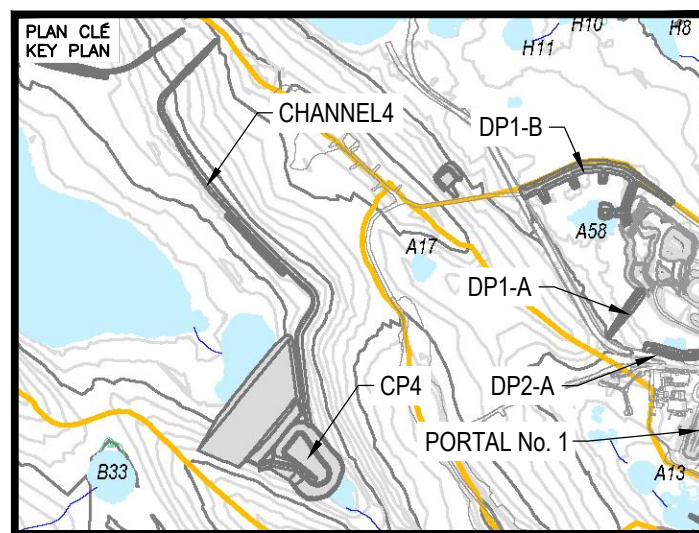
STATION 0+080



STATION 0+120



STATION 0+150

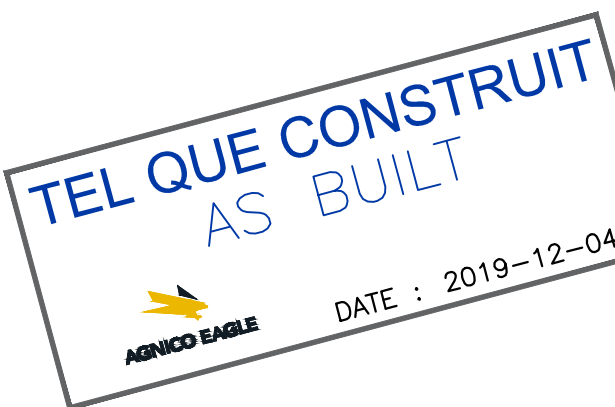


NOTES GÉNÉRALES / GENERAL NOTES

1. ASSUMED CONSTRUCTION SCHEDULE WINTER 2018 / 2019
2. ASSUMED OPERATION SCHEDULE STARTING TO STORE WATER FROM FRESHET OF 2019.
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5. MATERIAL PLACEMENT AND FOUNDATION PREPARATION SHOULD BE IN ACCORDANCE WITH THE REQUIREMENTS OF GEOTECHNICAL CONSTRUCTION / MATERIAL SPECIFICATIONS (TETRA TECH 2018).

LEGEND

- Ⓐ CLEAN ROCKFILL FROM EXCAVATION (600 mm MINUS)
- Ⓢ OVERBURDEN FROM EXCAVATION (300 mm MINUS)



L'INFORMATION CONTENUE EST LA PROPRIÉTÉ DE AGNICO EAGLE L.T.E. ET DOIT ÊTRE RETENUE SANS AUTORIZATION ÉCRITE. PROHIBÉ DE LA REPRODUIRE OU D'UTILISER SANS LA PERMISSION ÉCRITE DE AGNICO EAGLE L.T.E. / L'INFORMATION CONTENUE EST LA PROPRIÉTÉ DE AGNICO EAGLE L.T.E. ET DOIT ÊTRE RETENUE SANS AUTORIZATION ÉCRITE. PROHIBÉ DE LA REPRODUIRE OU D'UTILISER SANS LA PERMISSION ÉCRITE DE AGNICO EAGLE L.T.E.

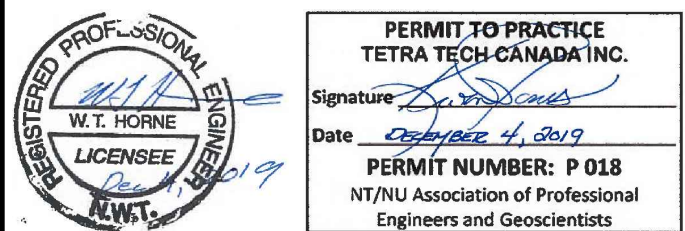
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TITRE / TITLE	# DWG
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A	2018-05-29	ISSUED FOR REVIEW	HX	WITH	

REVISIONS

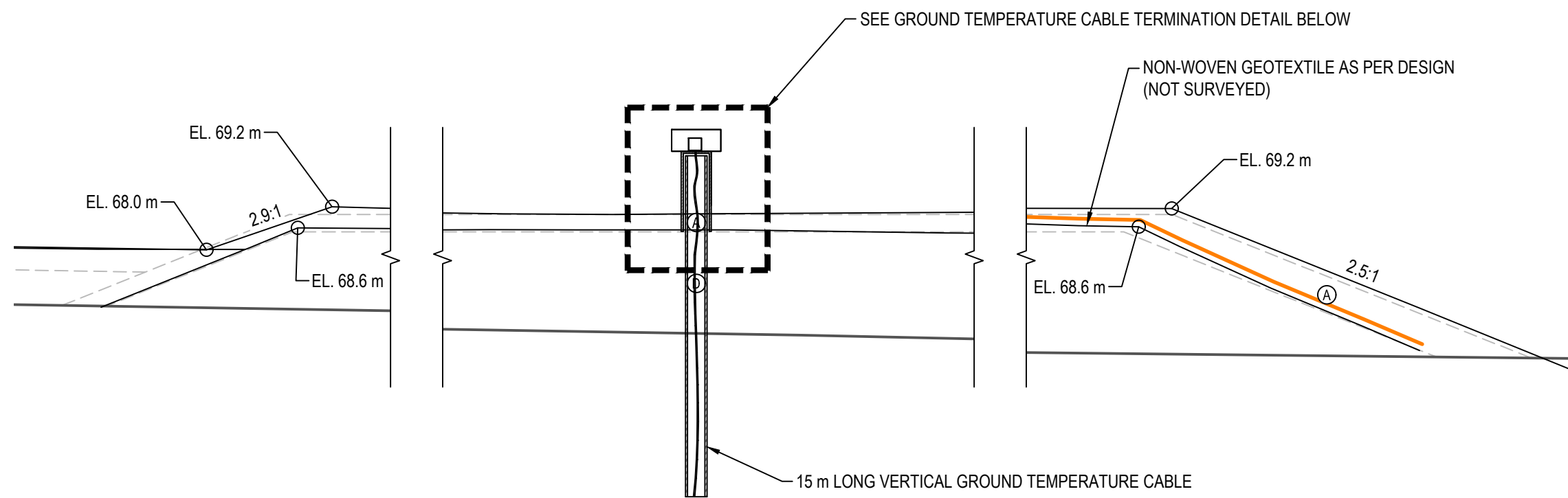
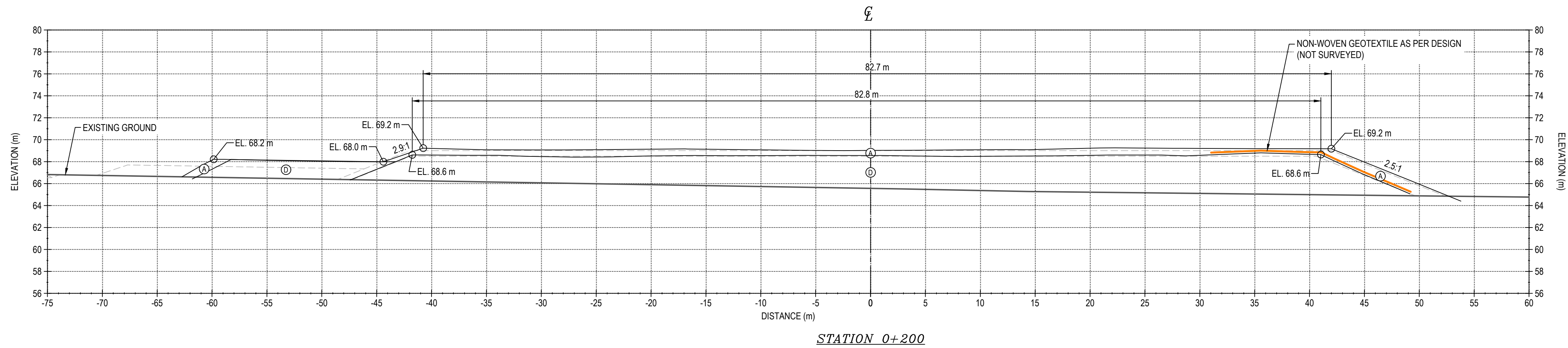


TITRE / TITLE
AS-BUILT REPORT FOR CHANNEL4,
POND CP4, AND BERM CP4

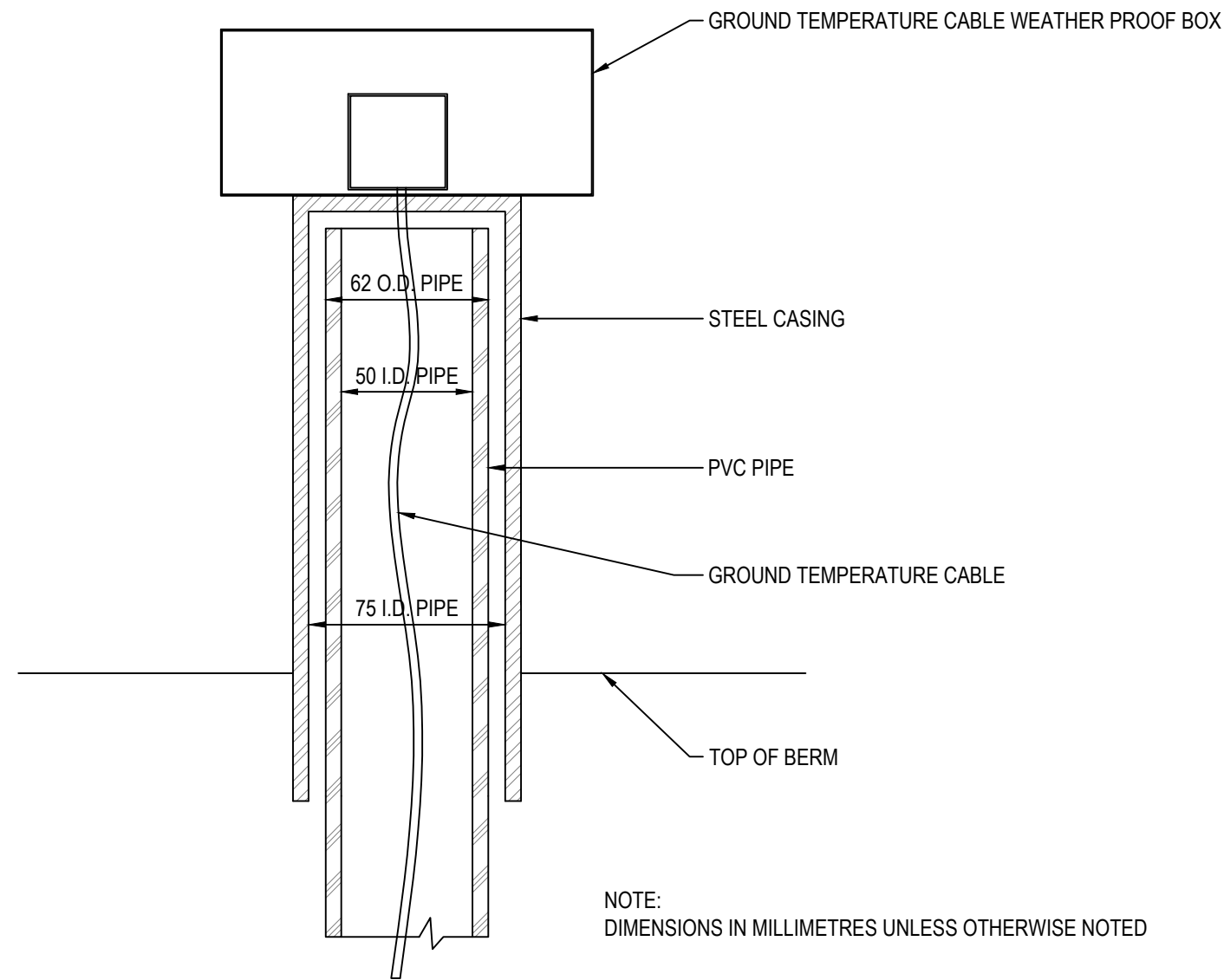
CP4 THERMAL PROTECTION BERM
SECTIONS

DESSINÉ PAR DRAWN BY	EL	DATE 2019-07-31
VÉRIFIÉ PAR CHECKED BY	HX	2019-07-31
APPROUVÉ PAR APPROVED BY	WITH	2019-07-31
ÉCHELLE SCALE	1:250	DATE 2019-07-31

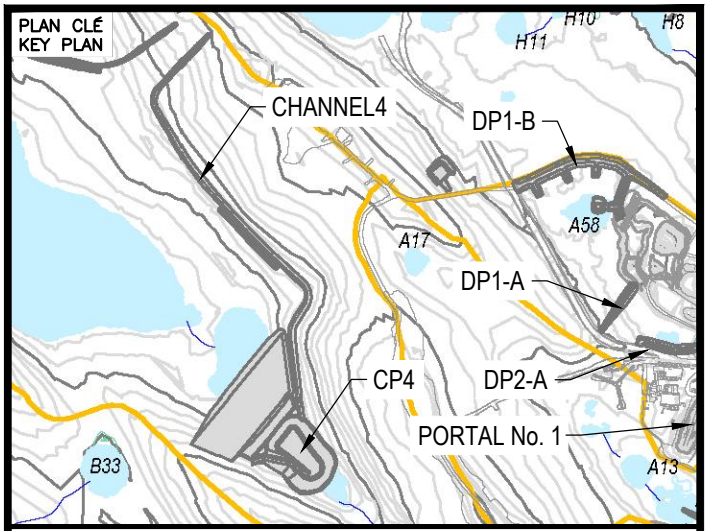
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NO. PROJET PROJECT NO.	6515
REVISION	1
FEUILLE / SHEET	3 / 9



TYPICAL SECTION - BERM CP4 GROUND TEMPERATURE CABLE INSTALLATION



DETAIL - GROUND TEMPERATURE CABLE TERMINATION
SCALE: N.T.S.

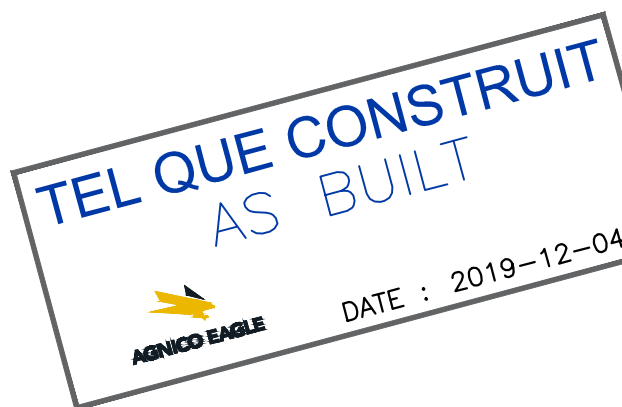


NOTES GÉNÉRALES / GENERAL NOTES

1. ASSUMED CONSTRUCTION SCHEDULE WINTER 2018 / 2019
2. ASSUMED OPERATION SCHEDULE STARTING TO STORE WATER FROM FRESHET OF 2019.
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LEGEND

- Ⓐ CLEAN ROCKFILL FROM EXCAVATION (600 mm MINUS)
ⓓ OVERBURDEN FROM EXCAVATION (300 mm MINUS)



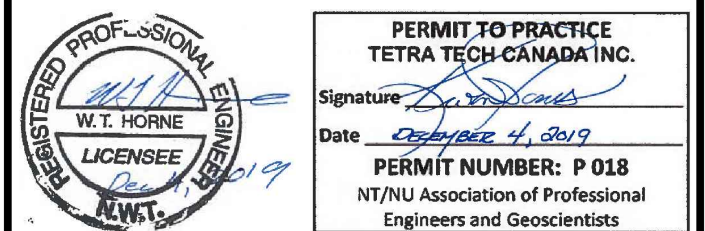
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DESSINS EN RÉFÉRENCE / REFERENCE DRAWINGS	
TITRE / TITLE	# DWG
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REV.	DATE	DESCRIPTION	PAR/REV	APP.	CLIENT
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REVISIONS

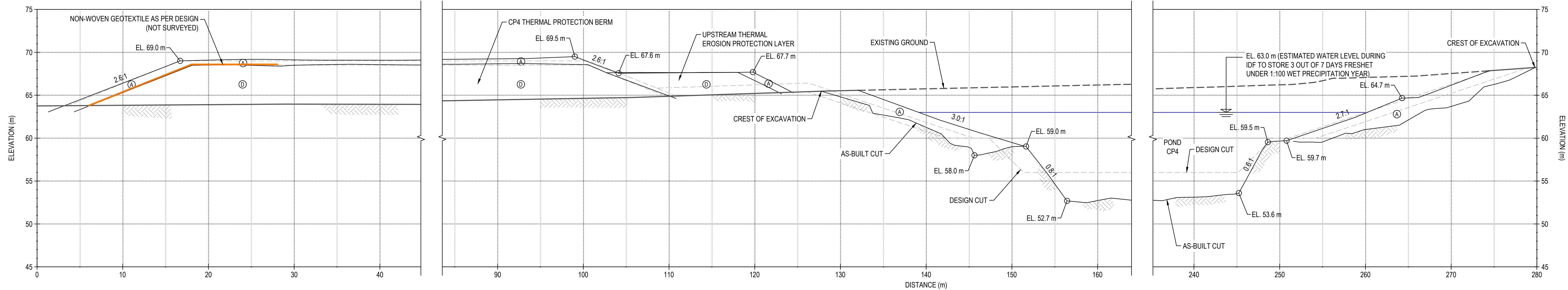


TITRE / TITLE
AS-BUILT REPORT FOR CHANNEL4,
POND CP4, AND BERM CP4

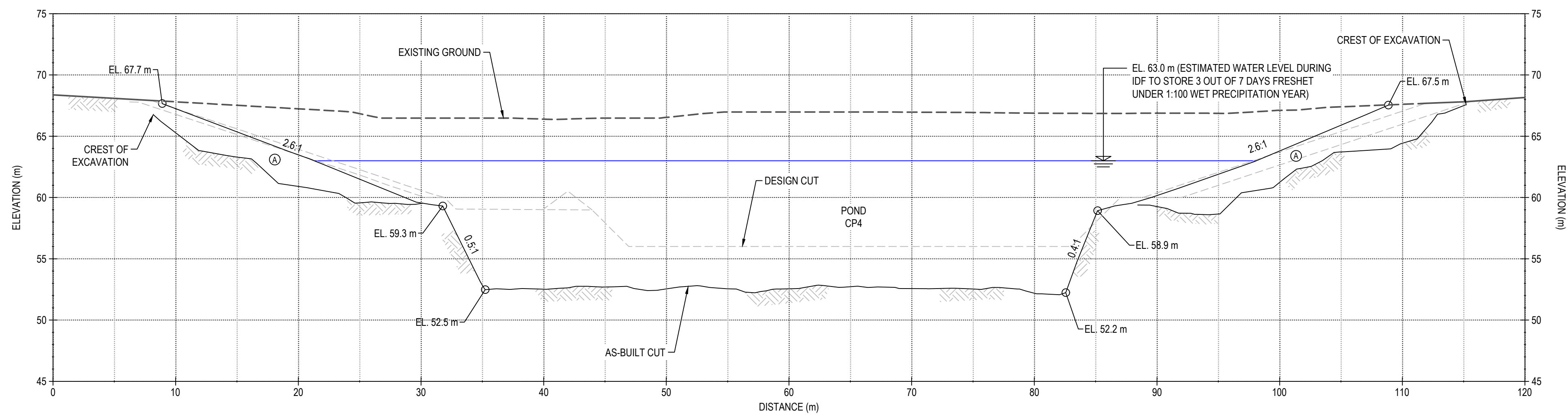
CP4 THERMAL PROTECTION BERM
SECTIONS

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VERIFIÉ PAR CHECKED BY	HX	2019-07-31
APPROUVÉ PAR APPROVED BY	WITH	2019-07-31
ÉCHELLE SCALE	1:250	DATE 2019-07-31

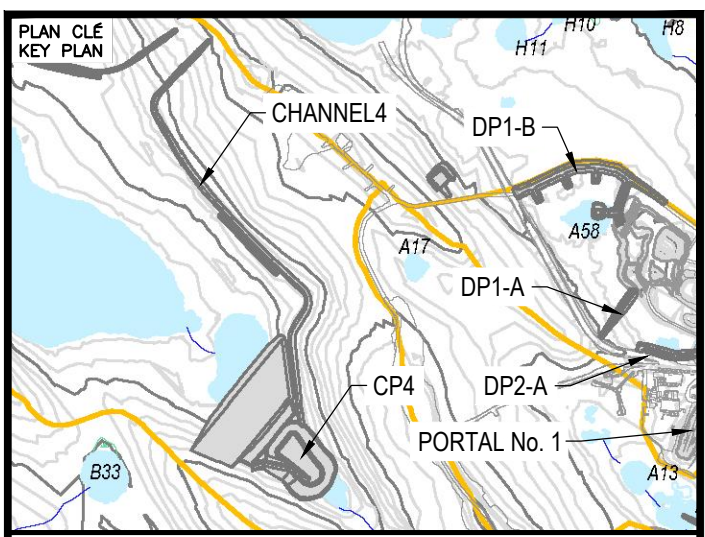
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NO. PROJET PROJECT NO.	6515	REVISION 1	FEUILLE / SHEET 4 / 9



SECTION A
SCALE: 1:250



SECTION B
SCALE: 1:250



NOTES GÉNÉRALES / GENERAL NOTES

1. ASSUMED CONSTRUCTION SCHEDULE WINTER 2018 / 2019
2. ASSUMED OPERATION SCHEDULE STARTING TO STORE WATER FROM FRESHET OF 2019.
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LEGEND

- Ⓐ CLEAN ROCKFILL FROM EXCAVATION (600 mm MINUS)
- Ⓢ OVERBURDEN FROM EXCAVATION (300 mm MINUS)



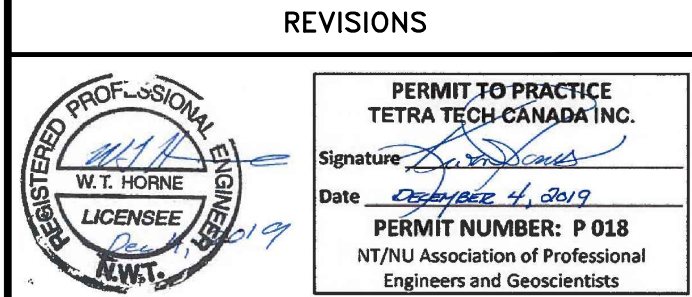
L'INFORMATION CONTENUE EST LA PROPRIÉTÉ DE AGNICO EAGLE LTD. ET NE DOIT ÊTRE RÉPÉTÉE, REPRODUE, NI COMMUNIQUÉE À TROISIÈME PARTIE, NI UTILISÉE À D'AUTRES FINS QUE CELLES POUR LESQUELLES ELLE A ÉTÉ FOURNIE. TOUTE VIOLATION DE CETTES CONDITIONS D'UTILISATION PEUT ÊTRE POURSUIVIE EN JUSTICE. L'INFORMATION EST FOURNIE EN L'ÉTAT, SANS GARANTIE, EXPRESSE OU IMPLICITE, SAUF LA GARANTIE D'ÊTRE VRAI. AGNICO EAGLE LTD. NE GARANTIT PAS LA PRÉCISION, L'EXACTITUDE, NI LA COMPLETITUDE DE L'INFORMATION. L'UTILISATION DE L'INFORMATION À D'AUTRES FINS QUE CELLES POUR LESQUELLES ELLE A ÉTÉ FOURNIE, PEUT ÊTRE POURSUIVIE EN JUSTICE. L'INFORMATION EST FOURNIE EN L'ÉTAT, SANS GARANTIE, EXPRESSE OU IMPLICITE, SAUF LA GARANTIE D'ÊTRE VRAI. AGNICO EAGLE LTD. NE GARANTIT PAS LA PRÉCISION, L'EXACTITUDE, NI LA COMPLETITUDE DE L'INFORMATION.

DESSINS EN RÉFÉRENCE / REFERENCE DRAWINGS

TITRE / TITLE	# DWG
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2	2018-06-21 ISSUED FOR CONSTRUCTION HK WTH
3	2018-05-29 ISSUED FOR REVIEW HK WTH
REV.	DATE DESCRIPTION PAB/ETH APP. CLIENT



TITRE / TITLE	# DWG
1	2019-12-04 RECORD DRAWINGS EL WTH
2	2018-06-21 ISSUED FOR CONSTRUCTION HK WTH
3	2018-05-29 ISSUED FOR REVIEW HK WTH
REV.	DATE DESCRIPTION PAB/ETH APP. CLIENT



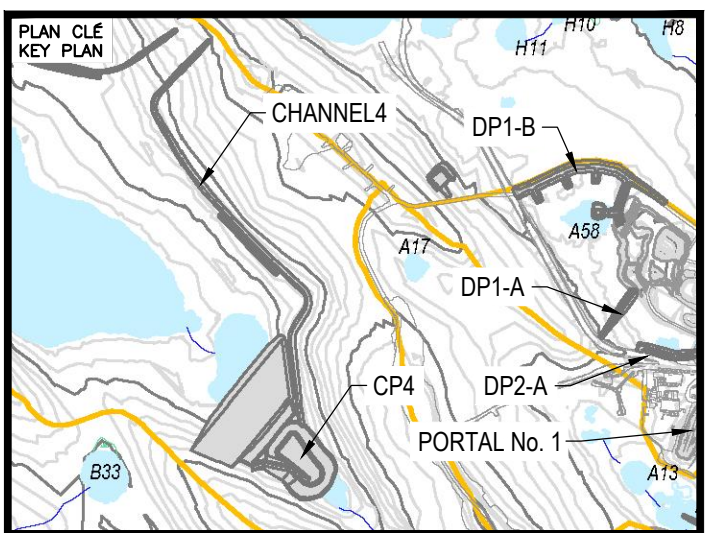
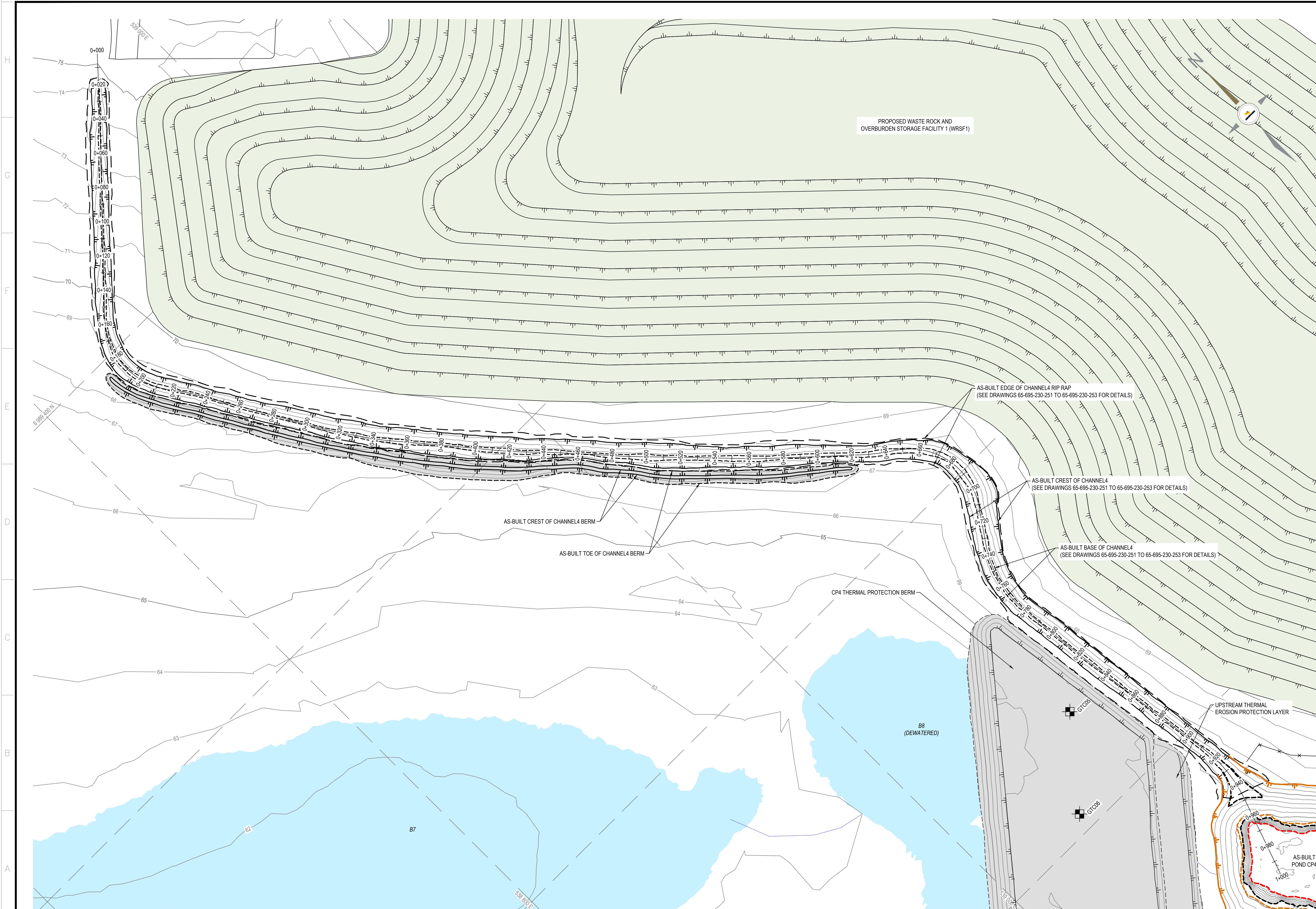
TITRE / TITLE
AS-BUILT REPORT FOR CHANNEL4,
POND CP4, AND BERM CP4

POND CP4
CROSS-SECTIONS

DESSINÉ PAR DRAWN BY	EL	DATE 2019-07-31
VÉRIFIÉ PAR CHECKED BY	HX	2019-07-31
APPROUVÉ PAR APPROVED BY	WTH	2019-07-31

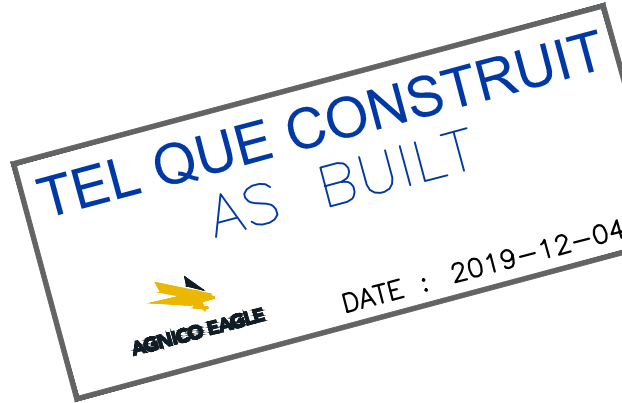
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DATE 2019-07-31
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NO. PROJET PROJECT NO.	REVISION	FEUILLE / SHEET
6515	1	5 / 9



NOTES GÉNÉRALES / GENERAL NOTES

1. ASSUMED CONSTRUCTION SCHEDULE FOR CHANNEL4 FALL / WINTER 2018.
2. ASSUMED GEOTEXTILE THAT MEETS MATERIAL SPECIFICATION WILL BE AVAILABLE AT SITE FOR CHANNEL4 CONSTRUCTION.
3. MATERIAL PLACEMENT AND FOUNDATION PREPARATION SHOULD BE IN ACCORDANCE WITH THE REQUIREMENTS OF GEOTECHNICAL CONSTRUCTION / MATERIAL SPECIFICATIONS (TETRA TECH 2018).



L'INFORMATION CONTENUE EST LA PROPRIÉTÉ DE AGNICO EAGLE LTD. ET NE DOIT ÊTRE RÉVÉLÉE À UN TIERCE, SANS AUTORISATION ÉCRITE. AGNICO EAGLE LTD. GARANTIT LA PRÉCISION DE L'INFORMATION FOURNIE, MAIS NE GARANTIT PAS LA PRÉCISION DE L'INFORMATION FOURNIE PAR D'AUTRES SOURCES. L'UTILISATION DE L'INFORMATION FOURNIE À D'AUTRES FINS QUE CELLES POUR LESQUELLES ELLE A ÉTÉ FOURNIE, EST INTERDITE. AGNICO EAGLE LTD. ASSUME LA RESPONSABILITÉ DE LA PRÉCISION DE L'INFORMATION FOURNIE, MAIS NE GARANTIT PAS LA PRÉCISION DE L'INFORMATION FOURNIE PAR D'AUTRES SOURCES. L'UTILISATION DE L'INFORMATION FOURNIE À D'AUTRES FINS QUE CELLES POUR LESQUELLES ELLE A ÉTÉ FOURNIE, EST INTERDITE.

DESSINS EN RÉFÉRENCE / REFERENCE DRAWINGS

TITRE / TITLE	# DWG
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REV.	DATE	DESCRIPTION	PAR/ÉV.	APP.	CLIENT
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0	2018-06-21	ISSUED FOR CONSTRUCTION	HX	WITH	
A	2018-05-29	ISSUED FOR REVIEW	HX	WITH	

REVISIONS

PERMIT TO PRACTICE
TETRA TECH-CANADA INC.
Signature: *[Signature]*
Date: *[Date]*
PERMIT NUMBER: P 018
NT/NU Association of Professional
Engineers and Geoscientists

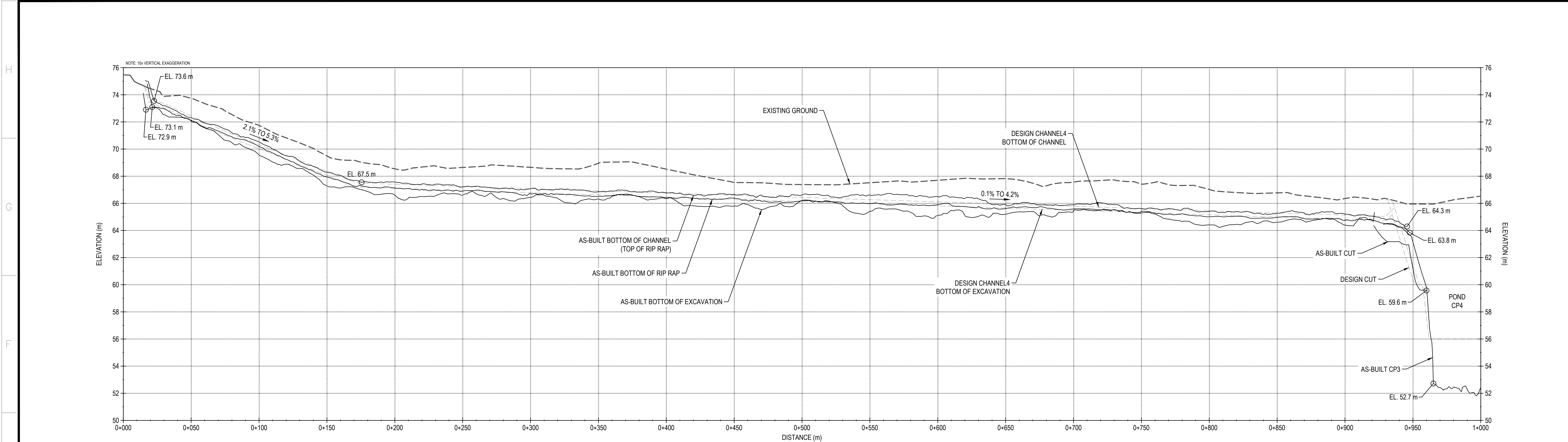
TITRE / TITLE
AS-BUILT REPORT FOR CHANNEL4,
POND CP4, AND BERM CP4

CHANNEL4 AND CHANNEL4 BERM
LAYOUT PLAN

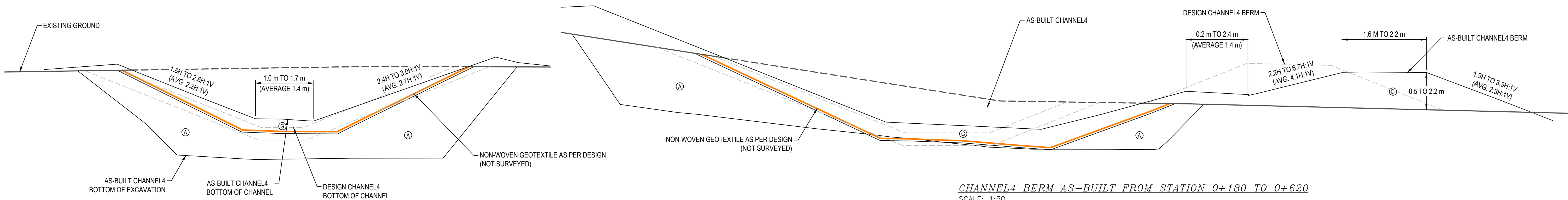
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VÉRIFIÉ PAR CHECKED BY	HX	2019-07-31
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ÉCHELLE SCALE	1:1000	DATE 2019-07-31

NO. DESSIN
DRAWING NO. 65-695-230-251

NO. PROJET PROJECT NO.	REVISION	FEUILLE / SHEET
6515	1	6 / 9

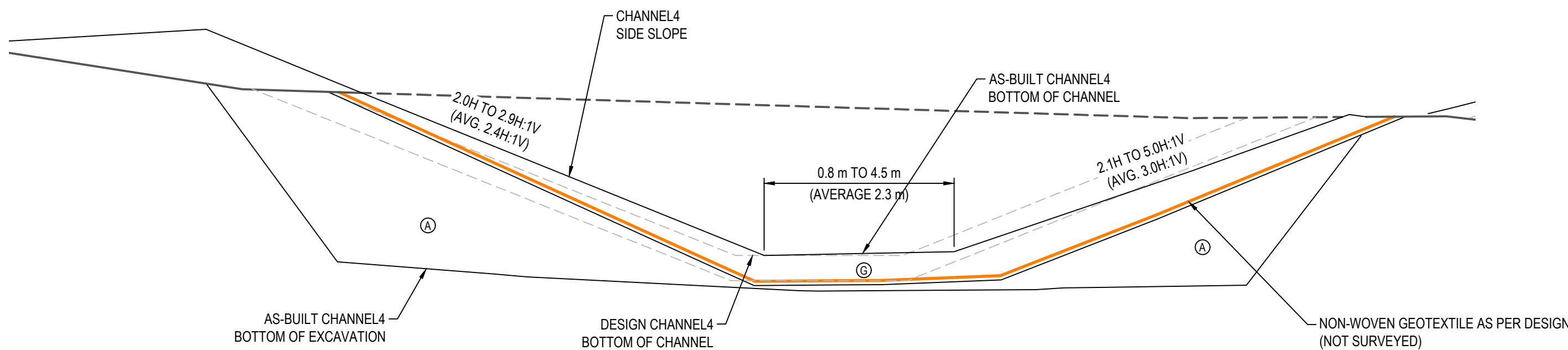


CHANNEL4 PROFILE
SCALE: H=1:1500 V=1:150



CHANNEL4 BERM AS-BUILT FROM STATION 0+180 TO 0+620
SCALE: 1:50

CHANNEL4 AS-BUILT FROM STATION 0+000 TO 0+135 (1 m WIDE CHANNEL BOTTOM)
SCALE: 1:50



CHANNEL4 AS-BUILT FROM STATION 0+160 TO 0+923 (2 m WIDE CHANNEL BOTTOM)
SCALE: 1:50

NOTES GÉNÉRALES / GENERAL NOTES

1. ASSUMED CONSTRUCTION SCHEDULE FOR CHANNEL4 FALL / WINTER 2018.
2. ASSUMED GEOTEXTILE THAT MEETS MATERIAL SPECIFICATION WILL BE AVAILABLE AT SITE FOR CHANNEL4 CONSTRUCTION.
3. MATERIAL PLACEMENT AND FOUNDATION PREPARATION SHOULD BE IN ACCORDANCE WITH THE REQUIREMENTS OF GEOTECHNICAL CONSTRUCTION / MATERIAL SPECIFICATIONS (TETRA TECH 2018).

LEGEND

- Ⓐ CLEAN ROCKFILL FROM EXCAVATION (300 mm MINUS)
- Ⓑ RIP RAP

TEL QUE CONSTRUIT
AS BUILT

AGNICO EAGLE DATE : 2019-12-04

INFORMATION CONTENUE EST LA PROPRIÉTÉ DE AGNICO EAGLE LTD. ET DOIT ÊTRE RETENUE, SANS AUTORISATION ÉCRITE, PAR AGNICO EAGLE LTD. SEULEMENT POUR L'USAGE INTERIEUR. TOUTE REPRODUCTION, RÉPÉTITION, OU DIFFUSION, EN TOUTE FORME, EST INTERDITE. AGNICO EAGLE LTD. ASSUME LA RESPONSABILITÉ DE LA PRÉCISION DES DONNÉES ET DES CALCULS. AGNICO EAGLE LTD. ASSUME LA RESPONSABILITÉ DE LA PRÉCISION DES DONNÉES ET DES CALCULS. AGNICO EAGLE LTD. ASSUME LA RESPONSABILITÉ DE LA PRÉCISION DES DONNÉES ET DES CALCULS.

DESSINS EN RÉFÉRENCE / REFERENCE DRAWINGS

TITRE / TITLE	# DWG
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AGNICO EAGLE

REV.	DATE	DESCRIPTION	PAR/EN	APP.	CLIENT
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REVISIONS

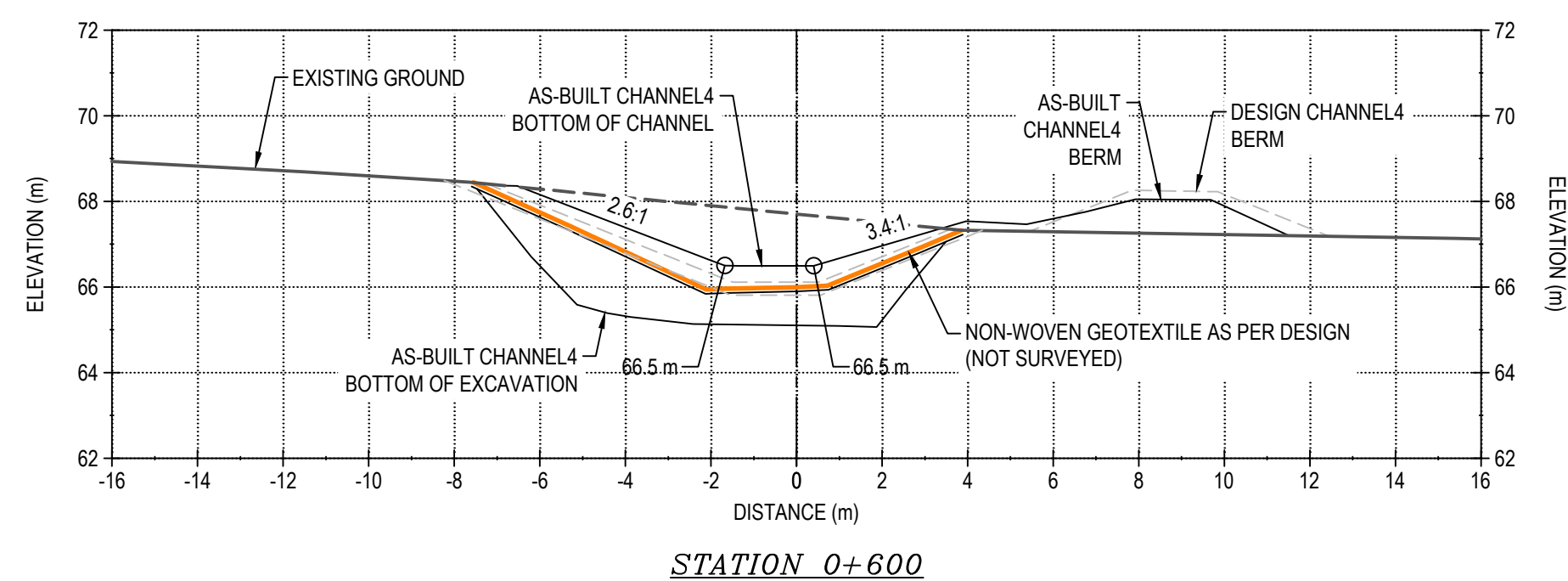
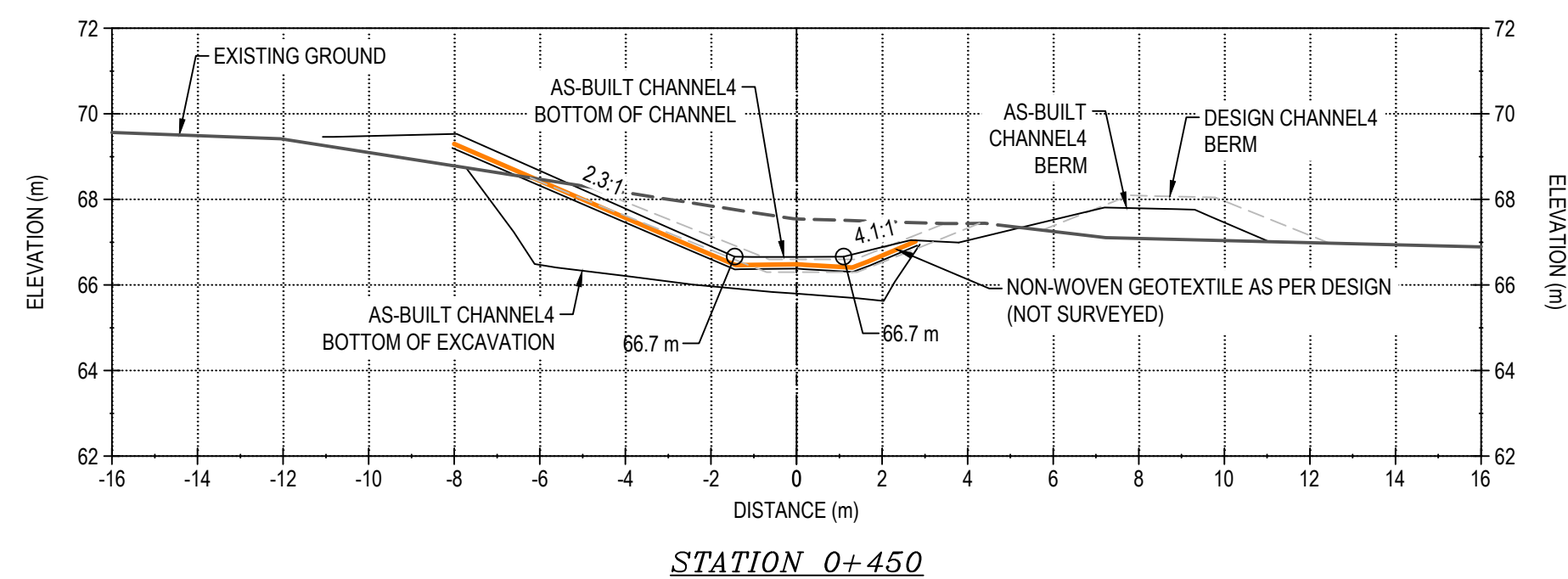
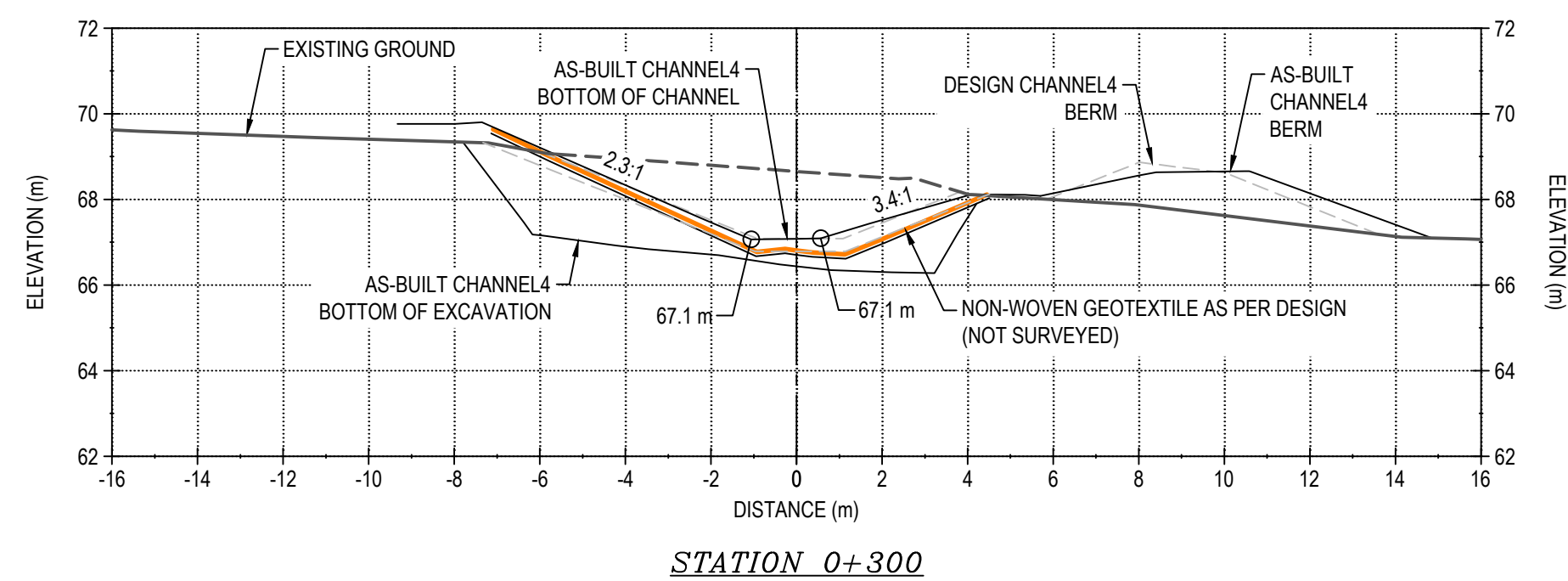
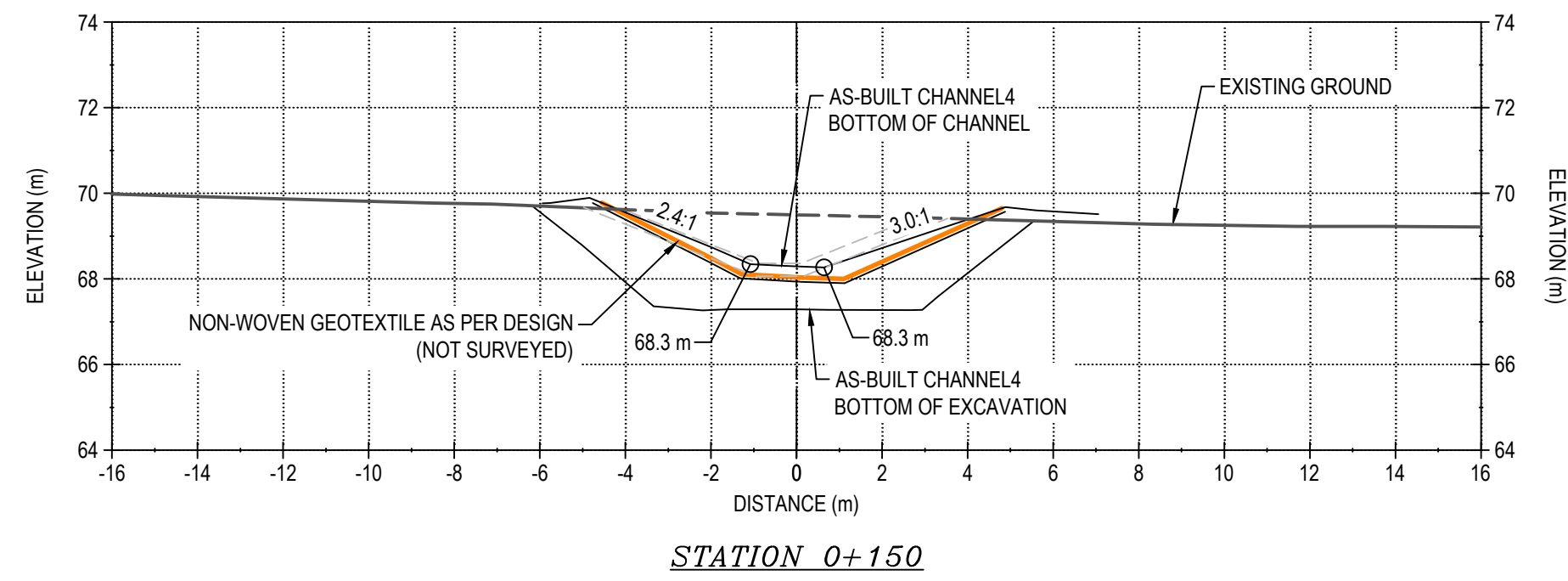
PERMIT TO PRACTICE
TETRA TECH CANADA INC.

Signature: *[Signature]*
Date: *[Date]*
PERMIT NUMBER: P 018
NTNU Association of Professional Engineers and Geoscientists

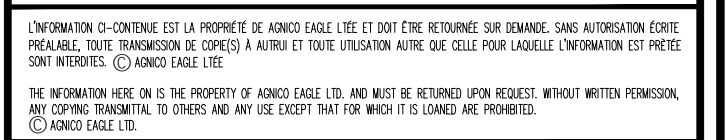
TITRE / TITLE
AS-BUILT REPORT FOR CHANNEL4,
POND CP4, AND BERM CP4

CHANNEL4 PROFILE AND
TYPICAL CROSS-SECTIONS

DESSINÉ PAR DRAWN BY	EL	DATE 2019-07-31
VÉRIFIÉ PAR CHECKED BY	HX	2019-07-31
APPROUVÉ PAR APPROVED BY	WTH	2019-07-31
ÉCHELLE SCALE	AS SHOWN	DATE 2019-07-31
NO. DESIGN DRAWING NO.	65-695-230-252	
NO. PROJET PROJECT NO.	6515	REVISION 1
		FEUILLE / SHEET 7 / 9



1. ASSUMED CONSTRUCTION SCHEDULE FOR CHANNEL4 FALL / WINTER 2018.
2. ASSUMED GEOTEXTILE THAT MEETS MATERIAL SPECIFICATION WILL BE AVAILABLE AT SITE FOR CHANNEL4 CONSTRUCTION.
3. MATERIAL PLACEMENT AND FOUNDATION PREPARATION SHOULD BE IN ACCORDANCE WITH THE REQUIREMENTS OF GEOTECHNICAL CONSTRUCTION / MATERIAL SPECIFICATIONS (TETRA TECH 2018).

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1	2019-12-04	RECORD DRAWINGS	EL	WTH	
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REV.	DATE	DESCRIPTION	PAR/BY	APP.	CLIENT

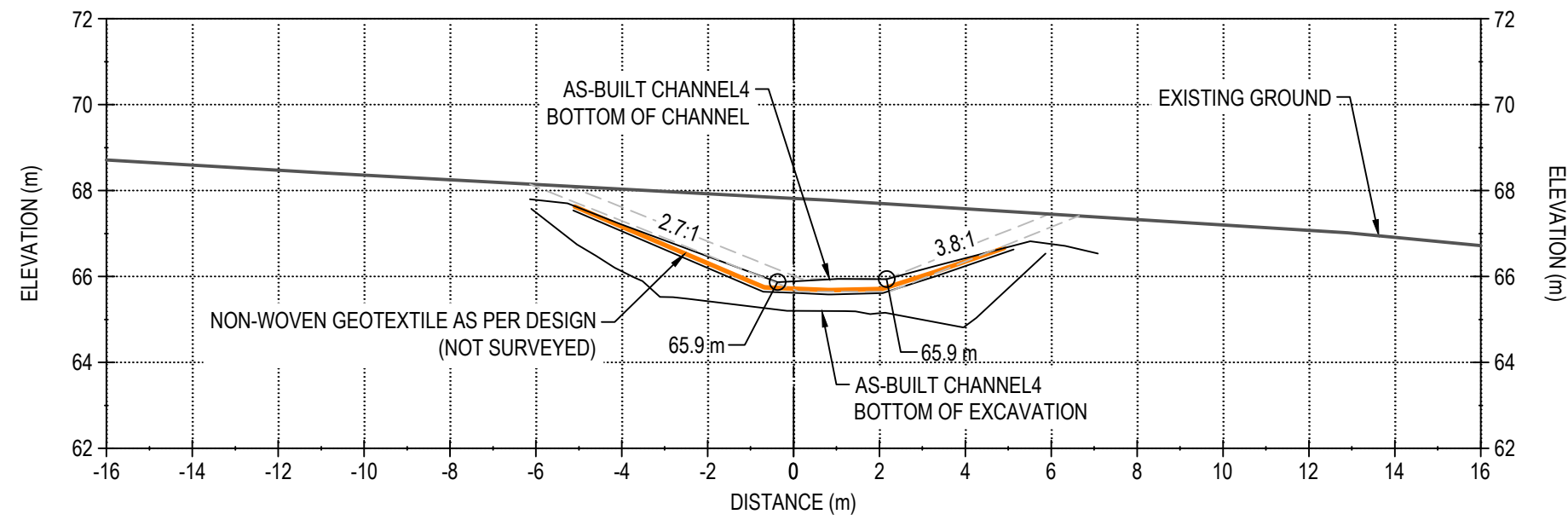
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	Signature _____ <i>[Handwritten Signature]</i>
	Date _____ <i>[Handwritten Date: October 4, 2019]</i>
	PERMIT NUMBER: P 018 NT/JNU Association of Professional Engineers and Geoscientists

TITLE / TITLE
AS-BUILT REPORT FOR CHANNEL4, POND CP4, AND BERM CP4
CHANNEL4 AS-BUILT SECTIONS (1 of 2)

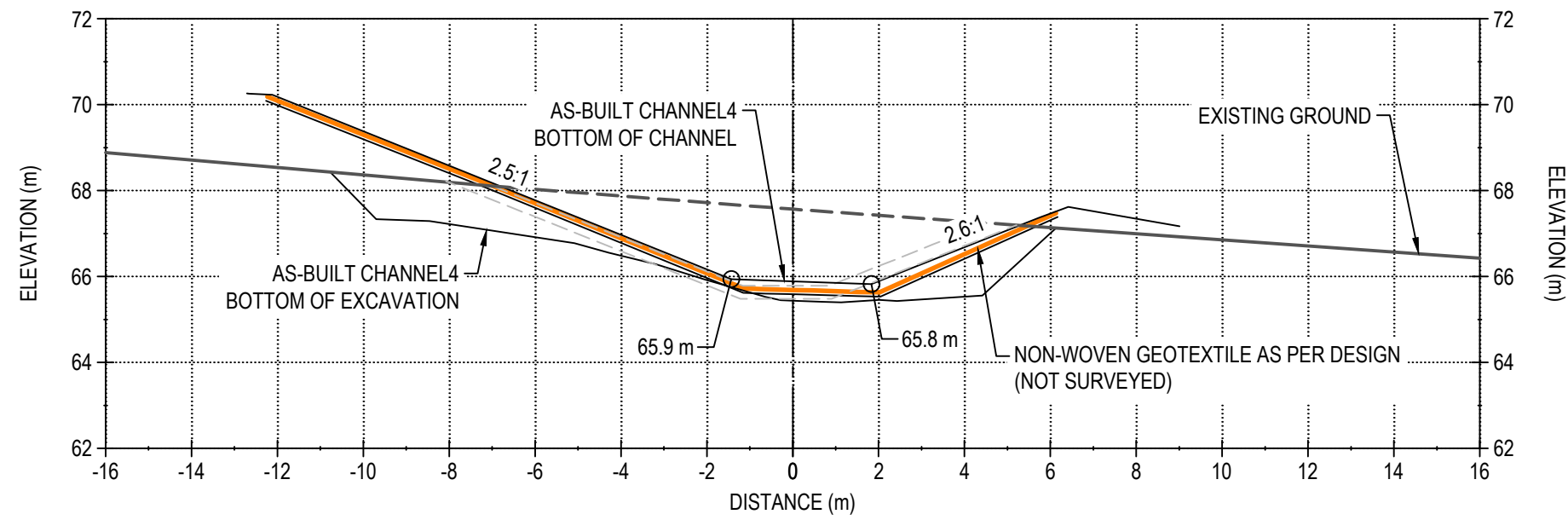
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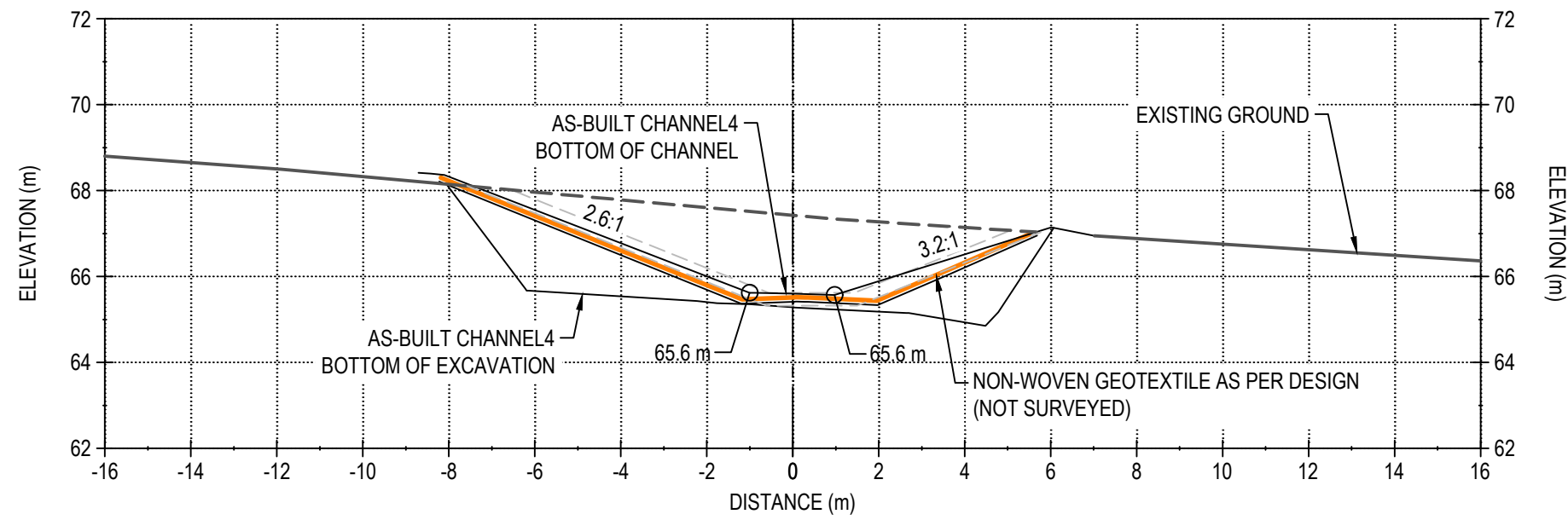
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	1	8 / 9



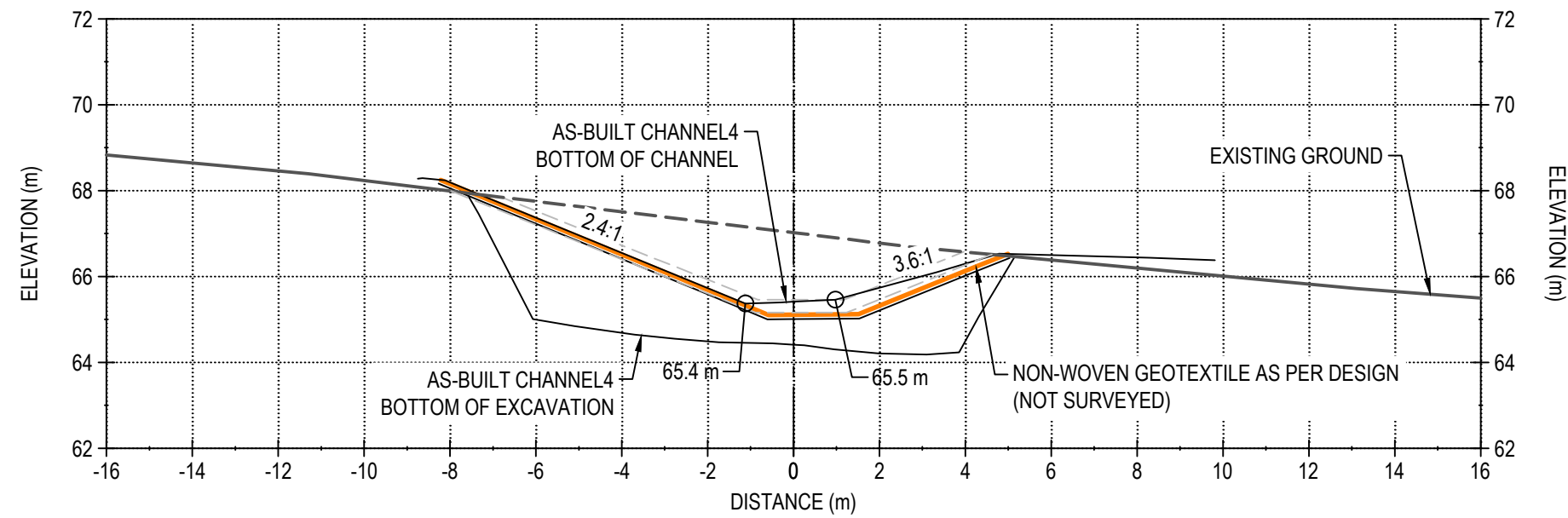
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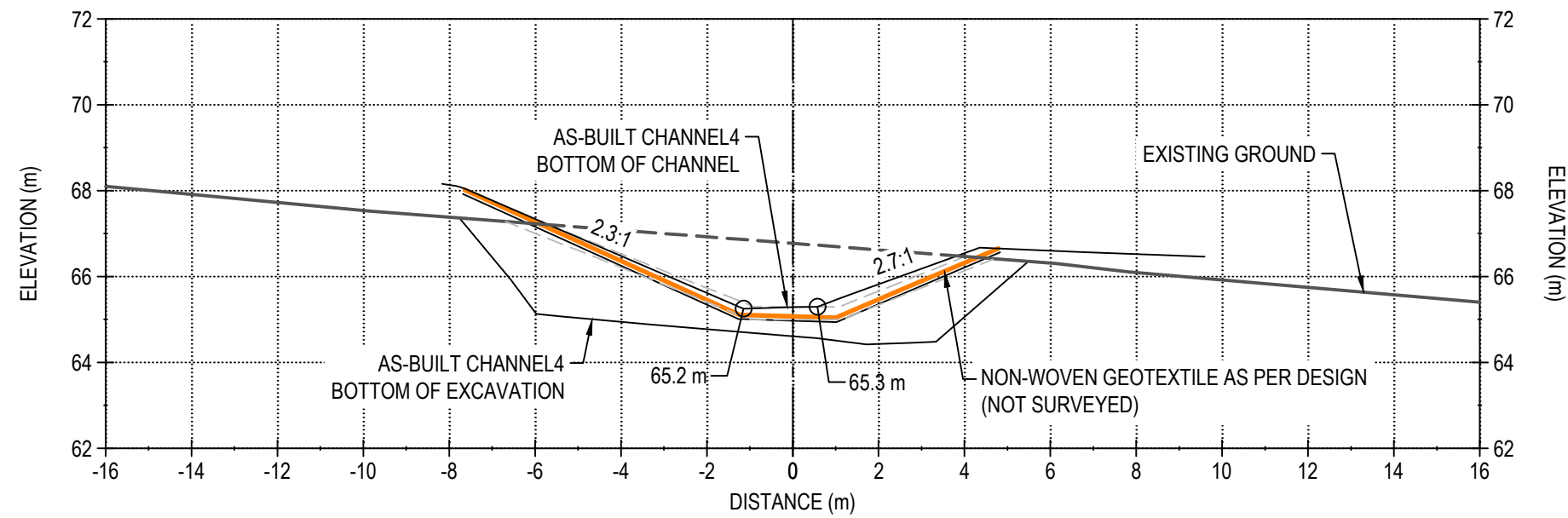
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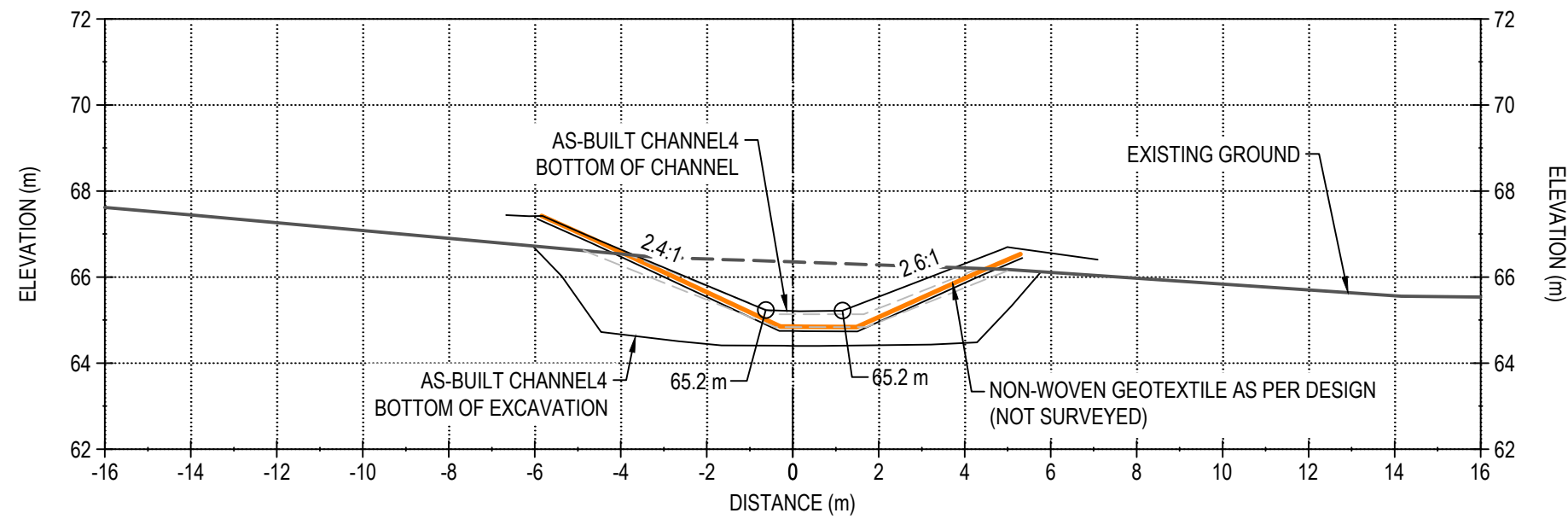
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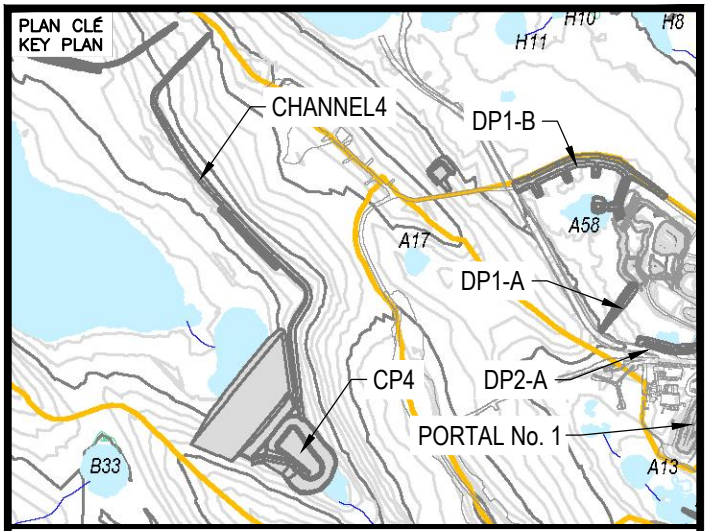
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STATION 0+850



STATION 0+900



NOTES GÉNÉRALES / GENERAL NOTES

1. ASSUMED CONSTRUCTION SCHEDULE FOR CHANNEL4 FALL / WINTER 2018.
2. ASSUMED GEOTEXTILE THAT MEETS MATERIAL SPECIFICATION WILL BE AVAILABLE AT SITE FOR CHANNEL4 CONSTRUCTION.
3. MATERIAL PLACEMENT AND FOUNDATION PREPARATION SHOULD BE IN ACCORDANCE WITH THE REQUIREMENTS OF GEOTECHNICAL CONSTRUCTION / MATERIAL SPECIFICATIONS (TETRA TECH 2018).



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DESSINS EN RÉFÉRENCE / REFERENCE DRAWINGS

TITRE / TITLE	# DWG
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REV.	DATE	DESCRIPTION	PAR/EN APP.	CLIENT
1	2019-12-04	RECORD DRAWINGS	EL	WTH
0	2018-06-21	ISSUED FOR CONSTRUCTION	HX	WTH
A	2018-05-29	ISSUED FOR REVIEW	HX	WTH

REVISIONS

	PERMIT TO PRACTICE TETRA TECH CANADA INC. Signature: <i>[Signature]</i> Date: <i>[Date]</i> PERMIT NUMBER: P 018 NT/NU Association of Professional Engineers and Geoscientists

TITRE / TITLE
AS-BUILT REPORT FOR CHANNEL4,
POND CP4, AND BERM CP4

CHANNEL4 AS-BUILT SECTIONS
(2 of 2)

DESSINÉ PAR
DRAWN BY EL

DATE
2019-07-31

VÉRIFIÉ PAR
CHECKED BY HX

2019-07-31

APPROUVÉ PAR
APPROVED BY WTH

2019-07-31

ÉCHELLE
SCALE 1:150

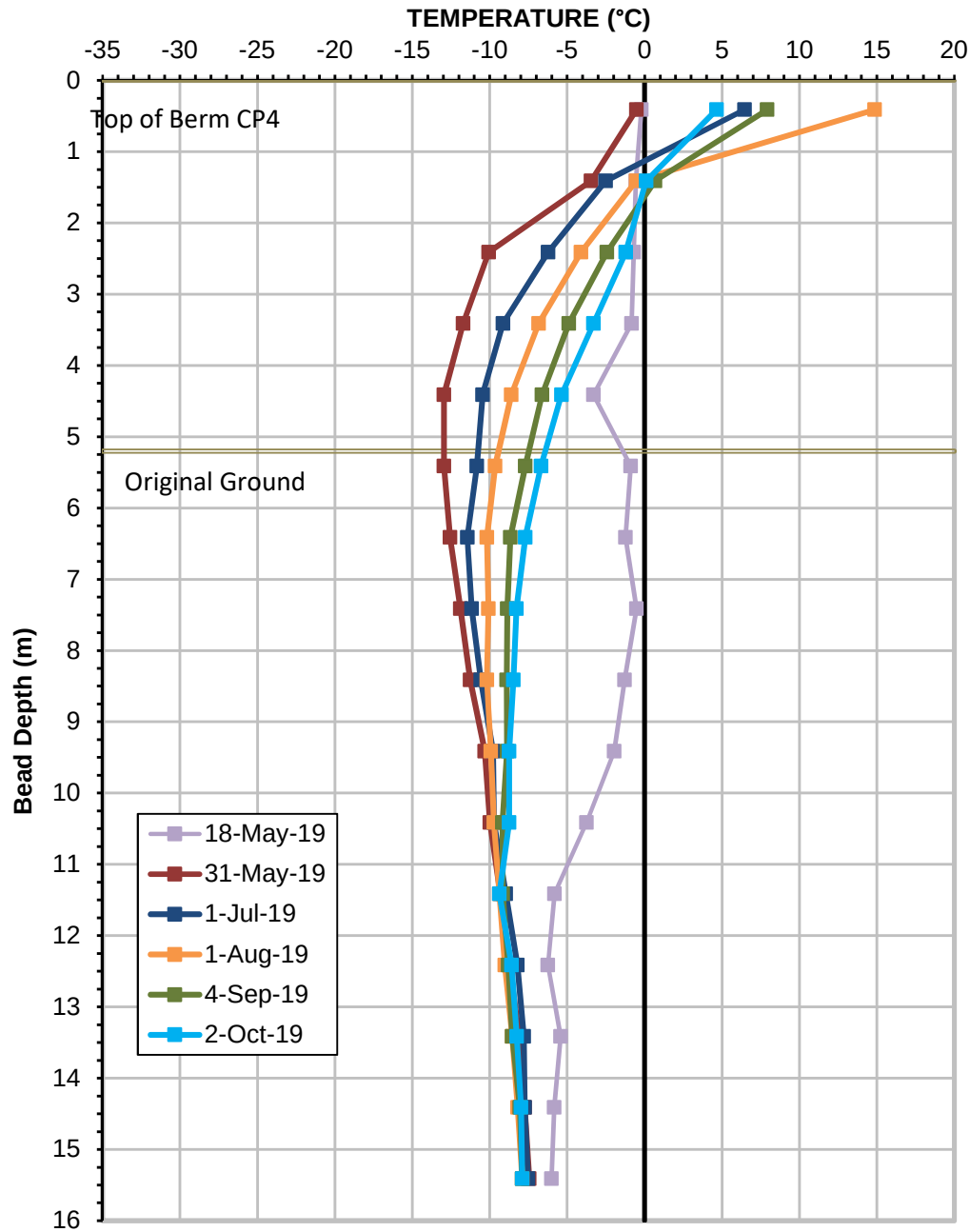
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2019-07-31

NO. DESSIN
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65-695-230-253-2

NO. PROJET PROJECT NO.	REVISION	FEUILLE / SHEET
6515	1	9 / 9

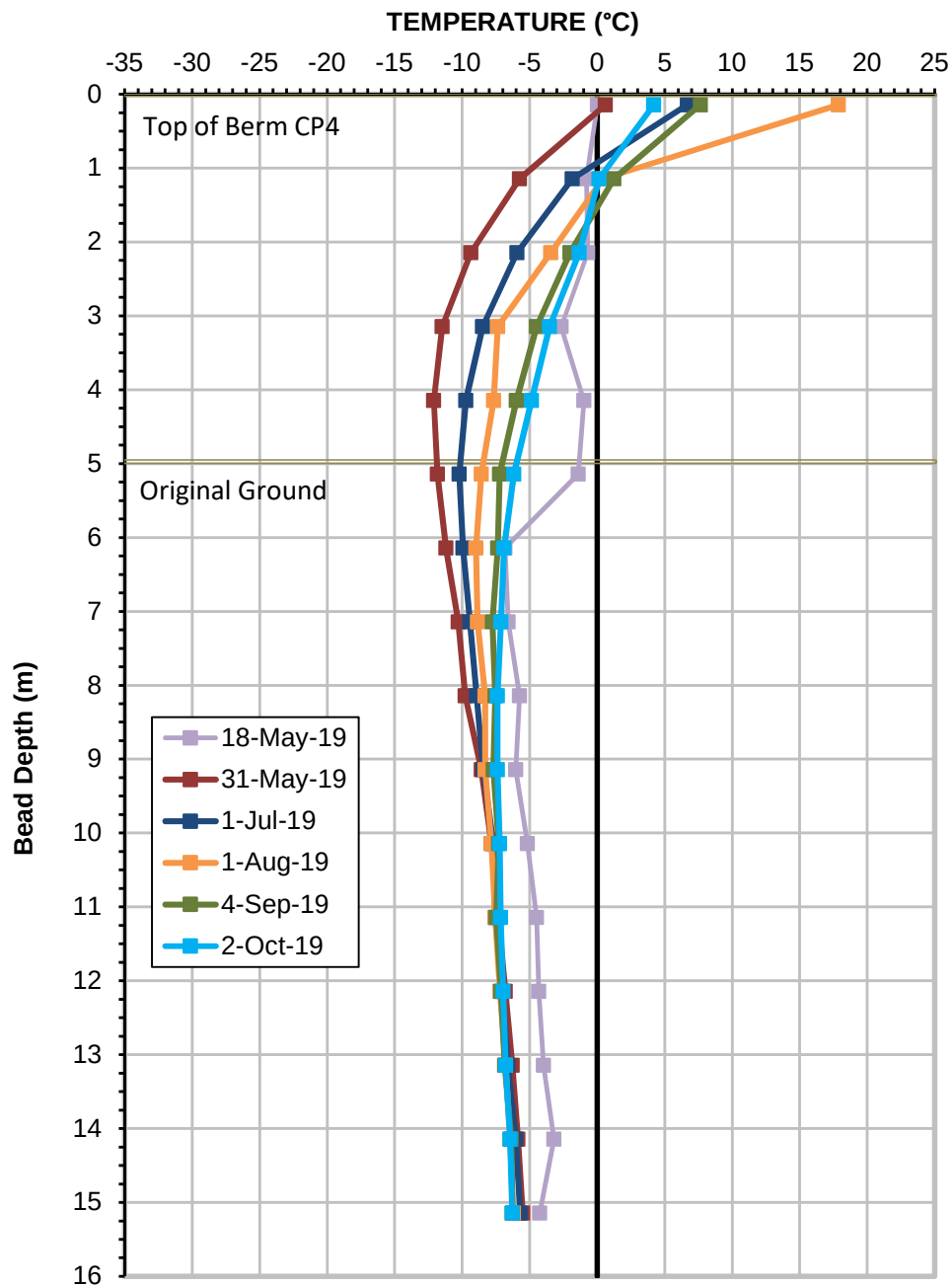
APPENDIX C

GROUND TEMPERATURE PROFILES FOR BERM CP4



Serial No.: 2685
Date Installed: May 18, 2019

Ground Temperature Profile for Cable GTC-01
Berm CP4



Serial No.: 2686
Date Installed: May 18, 2019

**Ground Temperature Profile for Cable GTC-02
Berm CP4**