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June 21, 2018

Nunavut Water Board
P.O Box 199
Gjoa Haven, Nunavut
XOB 1J0

RE: NWB New Type "B" Water Licence No. 8BC-BTN1819 – Bridge to Nowhere – Repair to Abutments Project

Dear Board Members:

Further to receiving Water Licence No. 8BC-BTN1819 on May 23, 2018, please accept this letter as our official request to amend the timing of the proposed repairs to the Bridge to Nowhere (the 'works').

Based on discussion with the City of Iqaluit they will no longer be pursuing a July 1, 2018 start date for the proposed works. The reason for the delay results from the significant and unanticipated cost implication of re-directing the Niaqunguk (Apex) River around the work area. In light of this development, the City of Iqaluit intends to delay the proposed works until Apex River is completely frozen. The precise construction window has not yet been determined; however, the proposed works will be contingent on Apex River being completely frozen (between December 1 and May 1 of any given year).

Apart from the cost reduction of completing the works in the winter, Apex River will no longer need to be re-directed. Consequently, the environmental risks associated with working at or near flowing water will be further mitigated. Additionally, fish species and other aquatic organisms that may navigate Apex River under flowing conditions will be absent. Given Apex River will no longer be re-directed, there will no longer be a need for the coffer dam installation / removal, and, the overflow culvert will no longer need to be re-sized to handle all of the flow. That said, there will still be a physical barrier (e.g., geotextile



berm) to isolate the work area. Once the new schematics drawings are prepared we will forward them to your office.

In accordance with the conditions of Water Licence No. 8BC-BTN1819 there is a commitment to submit for review an Environmental Protection Plan (EPP), including the Spill Control Plan (SCP), within 30 days of receiving this licence. Unfortunately, re-designing the proposed works for cold weather required the tender process to be temporarily suspended. As such, the general contractor has not yet been selected and subsequently neither has their environmental consultant been retained to complete the EPP and SCP. In consideration of this we request that the timeline for submitting the EPP and SCP be extended until 30 days prior to the amended winter work window.

We trust this letter meets your information requirements for pursuing an amendment to Water Licence No. 8BC-BTN1819. Should you require additional information, please let us know.

Sincerely,

Eric Shilts, B.Sc.

Darren Brown, Ph.D., R.P.Bio, EP

GENERAL NOTES:

- ALL WORK SHALL BE PERFORMED IN ACCORDANCE WITH THE REQUIREMENTS OF THE SAFETY ACT AND REGULATIONS FOR CONSTRUCTION PROJECTS (INCLUDING LATEST AMENDMENTS) AND OTHER LOCAL AUTHORITIES HAVING JURISDICTION.
- WHERE DOCUMENTS AND STANDARDS ARE REFERENCED IN THE NOTES, THEY SHALL BE THE LATEST EDITIONS, UNLESS OTHERWISE NOTED OR SHOWN.
- ALL DIMENSIONS AND ELEVATIONS SHALL BE VERIFIED ON THE JOB BY THE CONTRACTOR. CONTRACTOR IS TO REPORT DISCREPANCIES TO THE ENGINEER PROMPTLY AND BEFORE CONSTRUCTION.
- READ DRAWINGS IN CONJUNCTION WITH SPECIFICATIONS AND ALL OTHER CONTRACT DOCUMENTS, WHERE APPLICABLE.
- BEFORE PROCEEDING WITH WORK, CHECK ALL THE DIMENSIONS SHOWN ON THE STRUCTURAL DRAWINGS AGAINST THE ARCHITECTURAL, MECHANICAL, AND ELECTRICAL DRAWINGS (WHERE APPLICABLE) AND REPORT DISCREPANCIES TO THE CONSULTANT.
- ANY HORIZONTAL AND VERTICAL DESIGN LOADINGS NOTED SHALL NOT BE EXCEEDED DURING CONSTRUCTION.
- DRAWINGS ARE NOT TO BE SCALED.

CONTRACTOR SAFETY:

- PERSONNEL, EQUIPMENT, AND BUILDING MATERIALS SHALL BE REMOVED FROM THE ISOLATED WORK ZONE PRIOR TO WATER REACHING THE MAXIMUM ALLOWABLE WATER LEVEL INDICATED.
- CONTRACTOR TO CONTINUOUSLY MONITOR PRECIPITATION AND ASSOCIATED CHANGES IN WATER LEVEL.

ENVIRONMENTAL REQUIREMENTS

- THE CONTRACTOR SHALL ENSURE COMPLIANCE WITH ALL MUNICIPAL, TERRITORIAL, AND FEDERAL AUTHORITIES HAVING JURISDICTION OVER THE DURATION OF THE PROJECT.
- WHERE NOTIFICATION, EVALUATION, AND APPROVALS ARE REQUIRED FOR THE WORK, THE CONTRACTOR SHALL BE RESPONSIBLE FOR SUPPLYING THE REQUIRED INFORMATION AND PAYMENT OF ASSOCIATED FEES OR PERMITS.
- THE NOTIFICATION AND APPROVAL PROCESS SHALL INCLUDE, BUT IS NOT LIMITED TO, CONSTRUCTION OVER A WATERCOURSE (DEPARTMENT OF FISHERIES & OCEANS) DISPOSAL OF MATERIALS (CITY OF IQALUIT) AND ENVIRONMENTAL COMPLIANCE (MINISTRY OF ENVIRONMENT).

SITE PROTECTION:

- CONTRACTOR IS RESPONSIBLE FOR PROVIDING ADEQUATE SAFETY BARRIERS/ HOARDING DURING THE CONSTRUCTION PHASE.
- CONTRACTOR IS RESPONSIBLE FOR PROVIDING ADEQUATE SIGNAGE ON THE ROADWAY TO CLOSE THE BRIDGE TO VEHICULAR TRAFFIC DURING CONSTRUCTION.
- ROAD TO NOWHERE BRIDGE IS CURRENTLY AND WILL REMAIN CLOSED UNTIL THE REPAIRS HAVE BEEN COMPLETED.

MATERIALS AND EXECUTION:

CONCRETE:

- COLD WEATHER CONCRETING, WHERE APPLICABLE, SHALL BE CARRIED OUT IN ACCORDANCE WITH THE REQUIREMENTS OF SECTION 21 OF CSA A23.1 AND ACI STANDARD 306 ("RECOMMENDED PRACTICE FOR COLD WEATHER CONCRETING").
- THE CONTRACTOR SHALL CONSTRUCT A TEMPORARY HEATED ENCLOSURE, AND HEAT THE ENCLOSURE DURING AND AFTER CONCRETE PLACEMENT.

GRANULARS

- RIP-RAP SHALL BE PRODUCED FROM CRUSHED OR FRACTURED BEDROCK FRAGMENTS WITH 100% FRACTURED FACES OR CRUSHED FROM COBBLES OR BOULDERS GREATER THAN 300mm DIAMETER AND SHALL NOT DETERIORATE WHEN EXPOSED TO AIR AND WATER AND SHALL BE RESISTANT TO DETERIORATION BY CYCLES OF WETTING, DRYING, FREEZING, AND THAWING. RECLAIMED PORTLAND CEMENT CONCRETE MAY NOT BE USED. RIP-RAP SHALL CONFORM TO R10 GRADATION REQUIREMENTS, WITH 100% OF MASS PASSING THROUGH 180MM SCREEN.

DRAWING LIST:

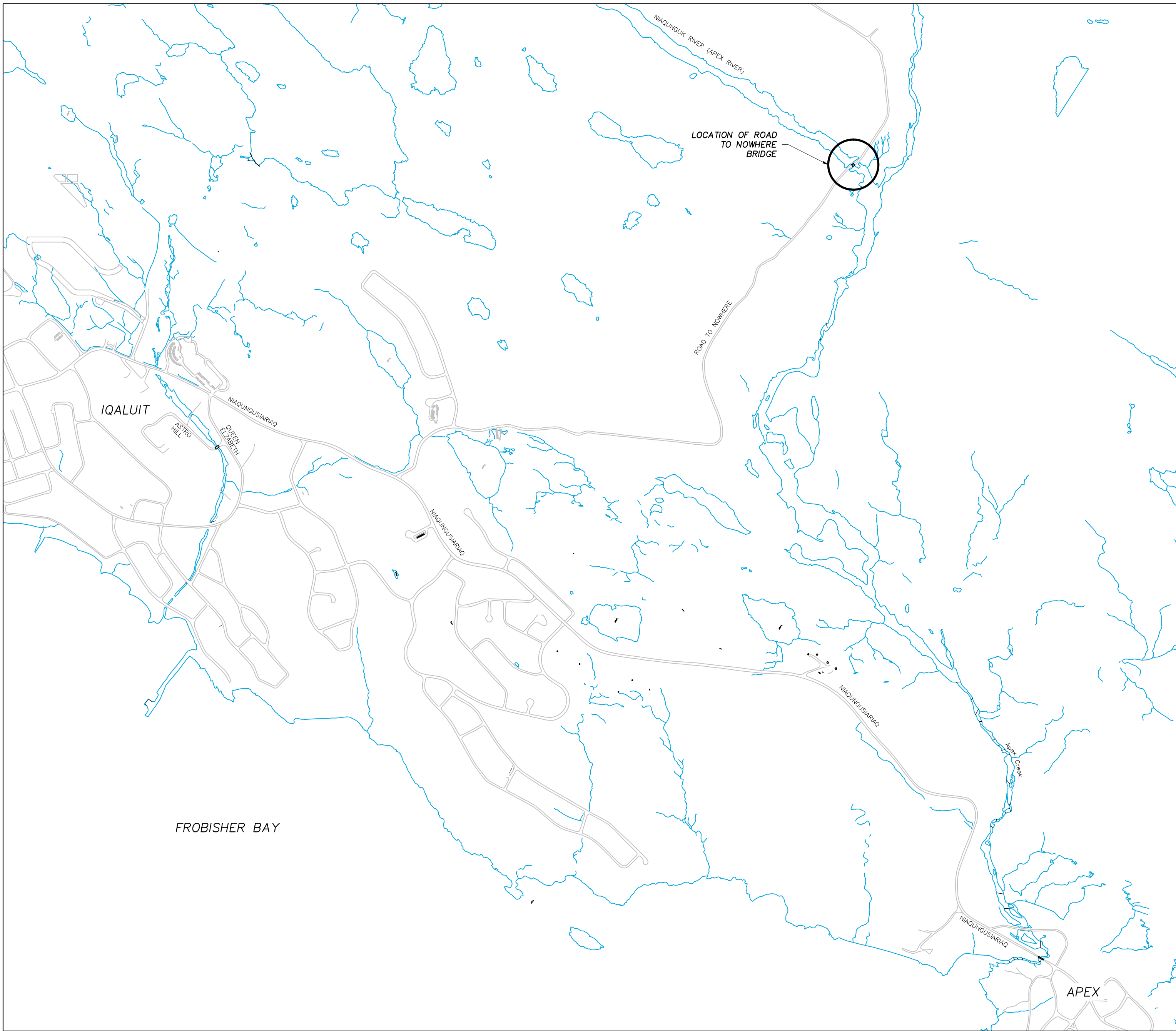
- C0 - GENERAL NOTES, DRAWING LIST & ROAD TO NOWHERE BRIDGE SITE PLAN
C1 - ROAD TO NOWHERE BRIDGE ELEVATIONS AND ABUTMENT ELEVATION

SCOPE OF WORK:

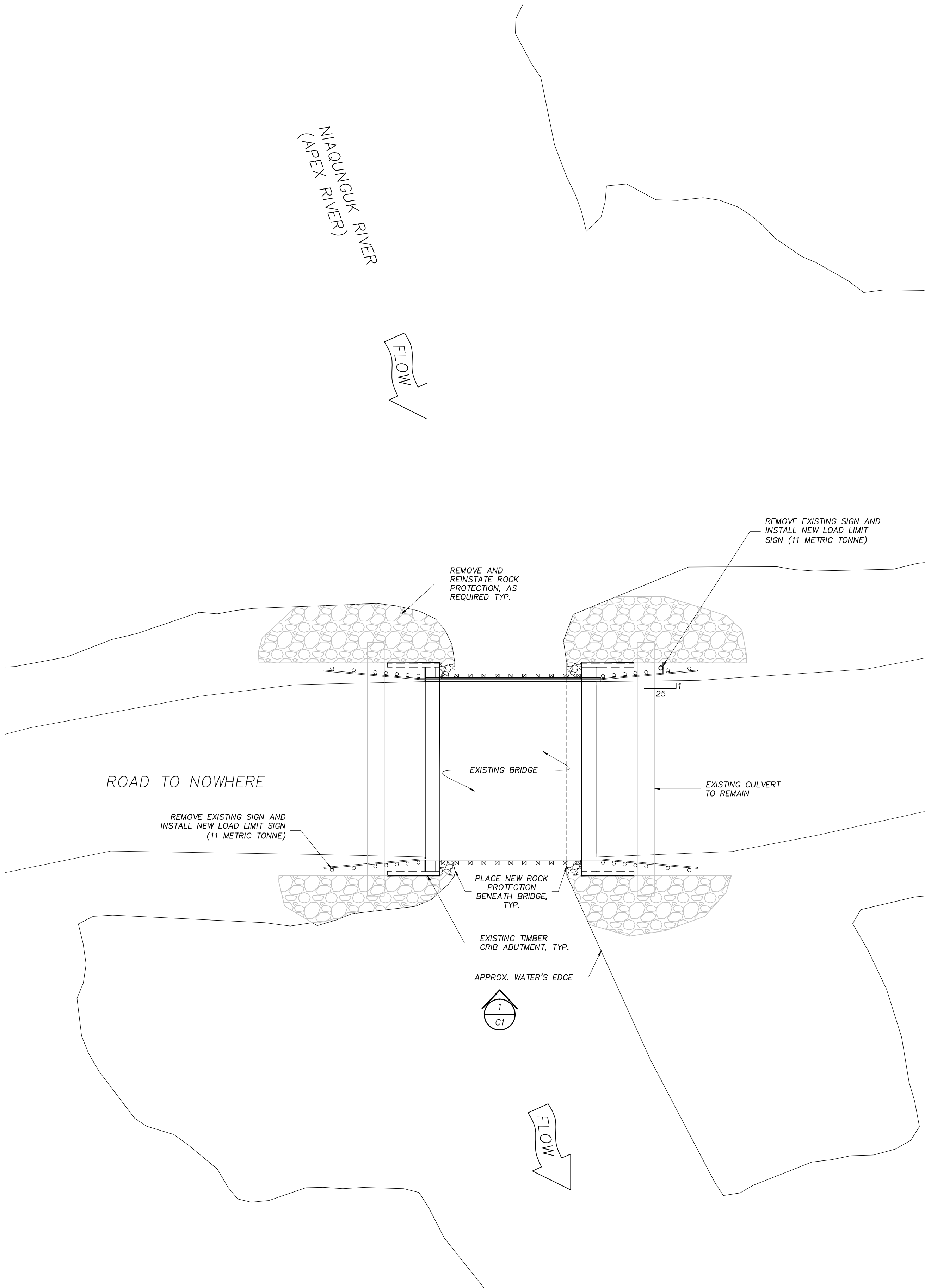
- ROAD TO NOWHERE BRIDGE:
- BRIDGE ABUTMENT REPAIRS INCLUDE EXCAVATION UNDER ABUTMENTS AND PLACING CONCRETE BENEATH.

UNDERPINNING SEQUENCING:

- CONTRACTOR SHALL REMOVE EXISTING SOIL TO EXTENTS SHOWN AND AS PER THE SEQUENCE SHOWN ON PLAN. STARTING AT MARKER 1.
- ONCE EXCAVATION IS COMPLETE WITHIN THE LIMITS OF AREA 1, THE CONTRACTOR SHALL INSTALL THE CONCRETE UNDERPINNING AS NOTED.
- CONCRETE SHALL CURE FOR A MINIMUM OF 48 HOURS BEFORE PROCEEDING TO THE NEXT SECTION.
- REPEAT THE ABOVE FOR THE REMAINING SECTIONS.



LOCATION PLAN
SCALE: NTS



ROAD TO NOWHERE BRIDGE SITE PLAN
SCALE: NTS

NO.	REVISION	DATE
1	ISSUED FOR CLIENT REVIEW	DEC. 15, 2017
2	ISSUED FOR 80% CLIENT REVIEW	JAN. 24, 2018
3	ISSUED FOR FINAL REVIEW	FEB. 28, 2018
4	ISSUED FOR TENDER	MAR. 28, 2018
5	FOR ENVIRONMENTAL APPROVAL	SEPT. 20, 2018
6	ISSUED FOR 80% REDESIGN	OCT. 3, 2018
7	ISSUED FOR TENDER	NOV. 1, 2018

NOTES:

CONTRACTOR SHALL CHECK AND VERIFY ALL DIMENSIONS AND BE RESPONSIBLE FOR REPORTING ALL DISCREPANCIES TO OWNER AND/OR CONSULTANT PRIOR TO TENDER CLOSING.

LATEST APPROVED DRAWINGS ONLY TO BE USED FOR CONSTRUCTION.

PRINTS ARE NOT TO BE SCALED.

ALL DIMENSIONS INDICATED ARE IN MILLIMETRES (mm) UNLESS OTHERWISE NOTED.

KEY PLAN:

PERMIT TO PRACTICE	
Concentric Associates International Inc.	
Signature	<i>[Signature]</i>
Date	11/01/2018
PERMIT NUMBER: P 492	
The Association of Professional Engineers, Geologists and Geophysicists of the NWT / NU	



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Toll Free 1-866-919-4531

CLIENT NAME:

CITY OF IQALUIT

PROJECT ADDRESS:

IQALUIT, NUNAVUT

PROJECT NAME:

TEMPORARY BRIDGE REPAIRS

DRAWING TITLE:

GENERAL NOTES, DRAWING LIST &
LOCATION PLAN

DESIGN:

DRAWN:

APPVD:

SCALE:

DATE:

FILE No:

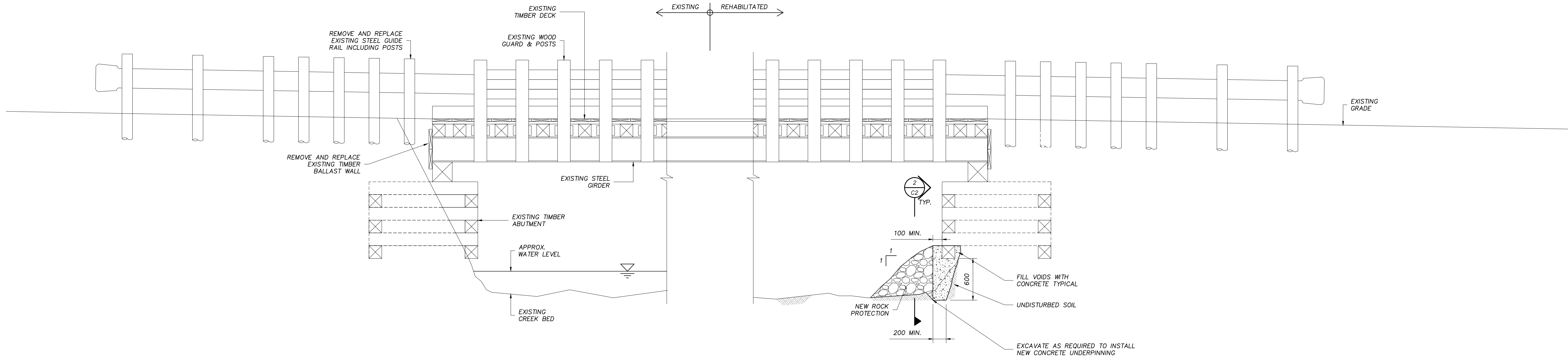
NTS

DEC /2017

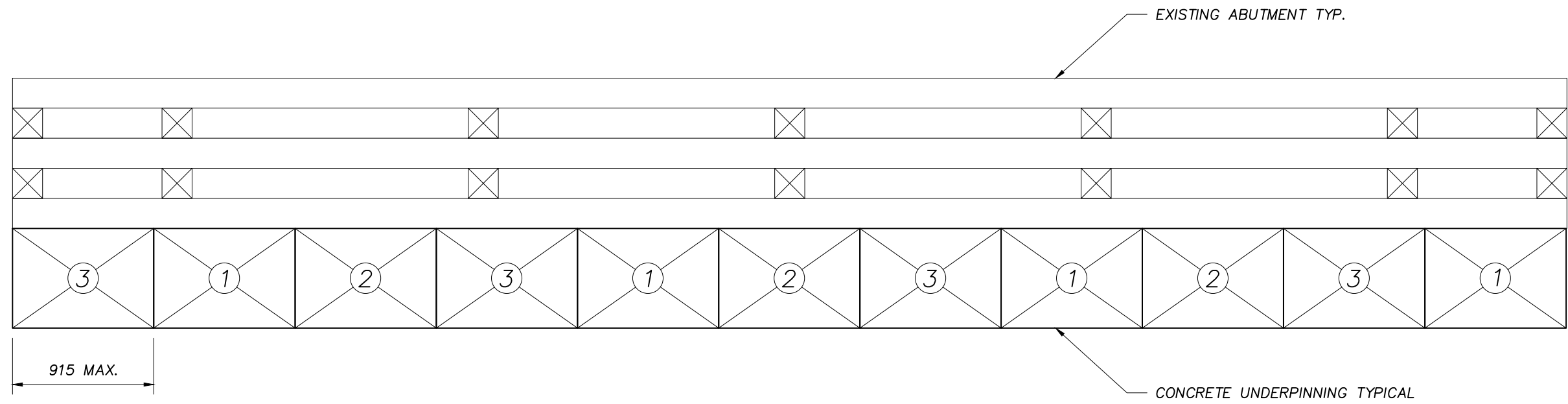
17-7519

SHEET No.

C0



1 **BRIDGE ELEVATION**
C2 SCALE: NTS



2 **TYPICAL ABUTMENT SEQUENCING ELEVATION**
C2 SCALE: NTS

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CLIENT NAME:

CITY OF IQUALUIT

PROJECT ADDRESS:

IQUALUIT, NUNAVUT

PROJECT NAME:

TEMPORARY BRIDGE REPAIRS

DRAWING TITLE:

ROAD TO NOWHERE BRIDGE
ELEVATION

DESIGN: TJP	SCALE: NTS
DRAWN: JAVA	DATE: DEC /2017
APPVD: STP	FILE No: 17-7519

SHEET No.

C1