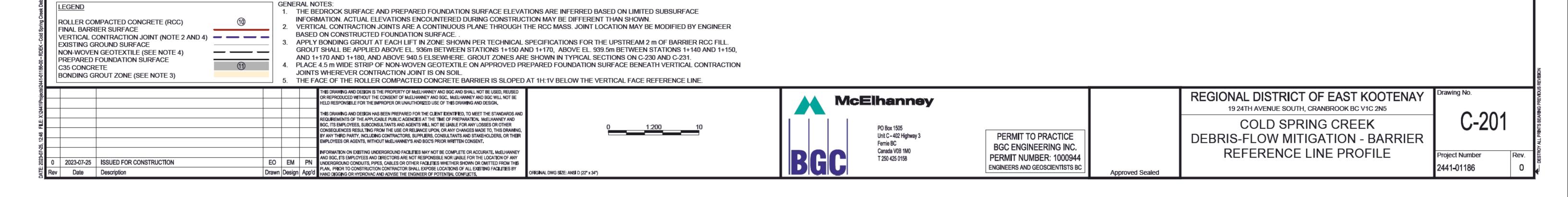
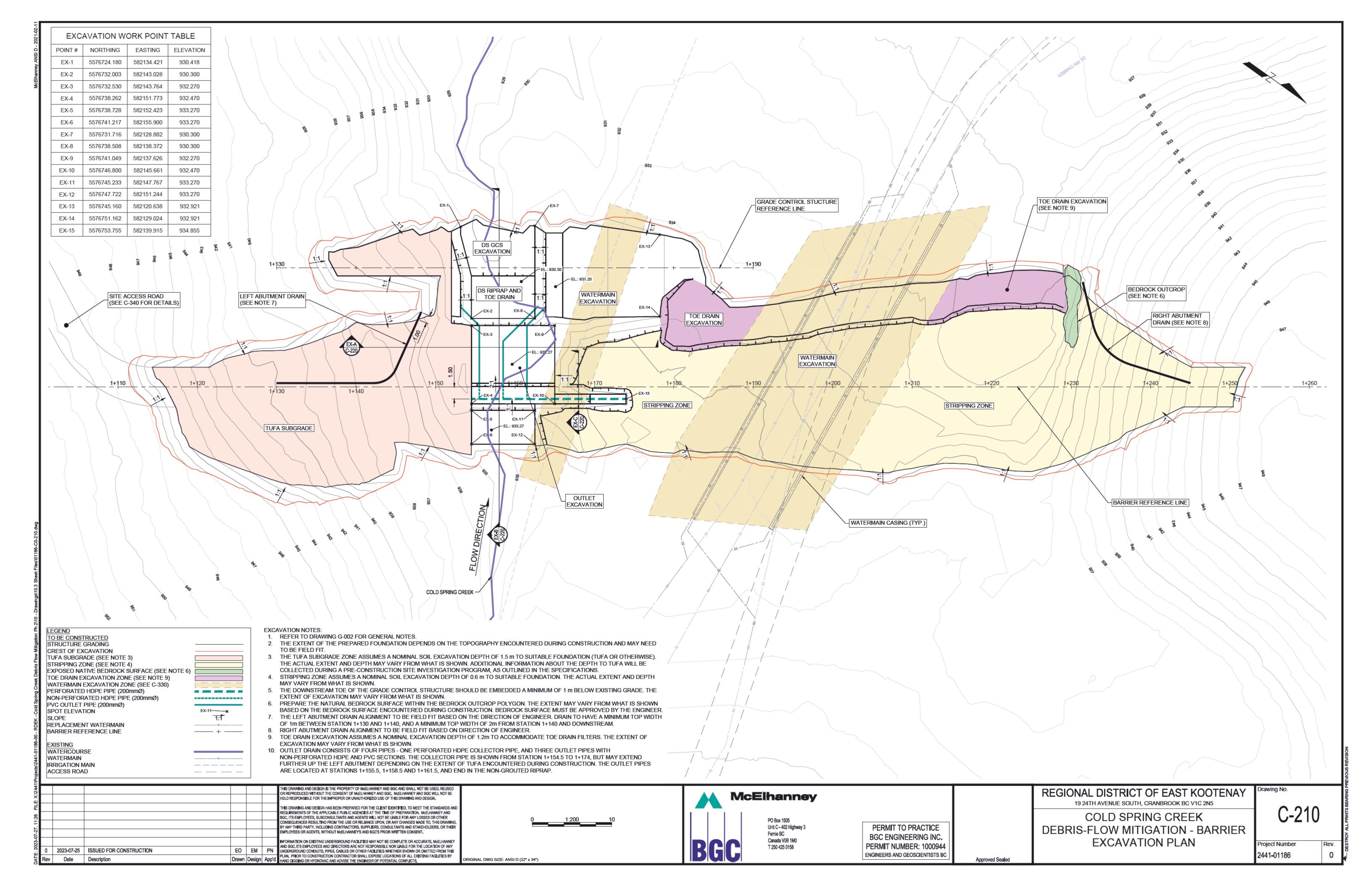
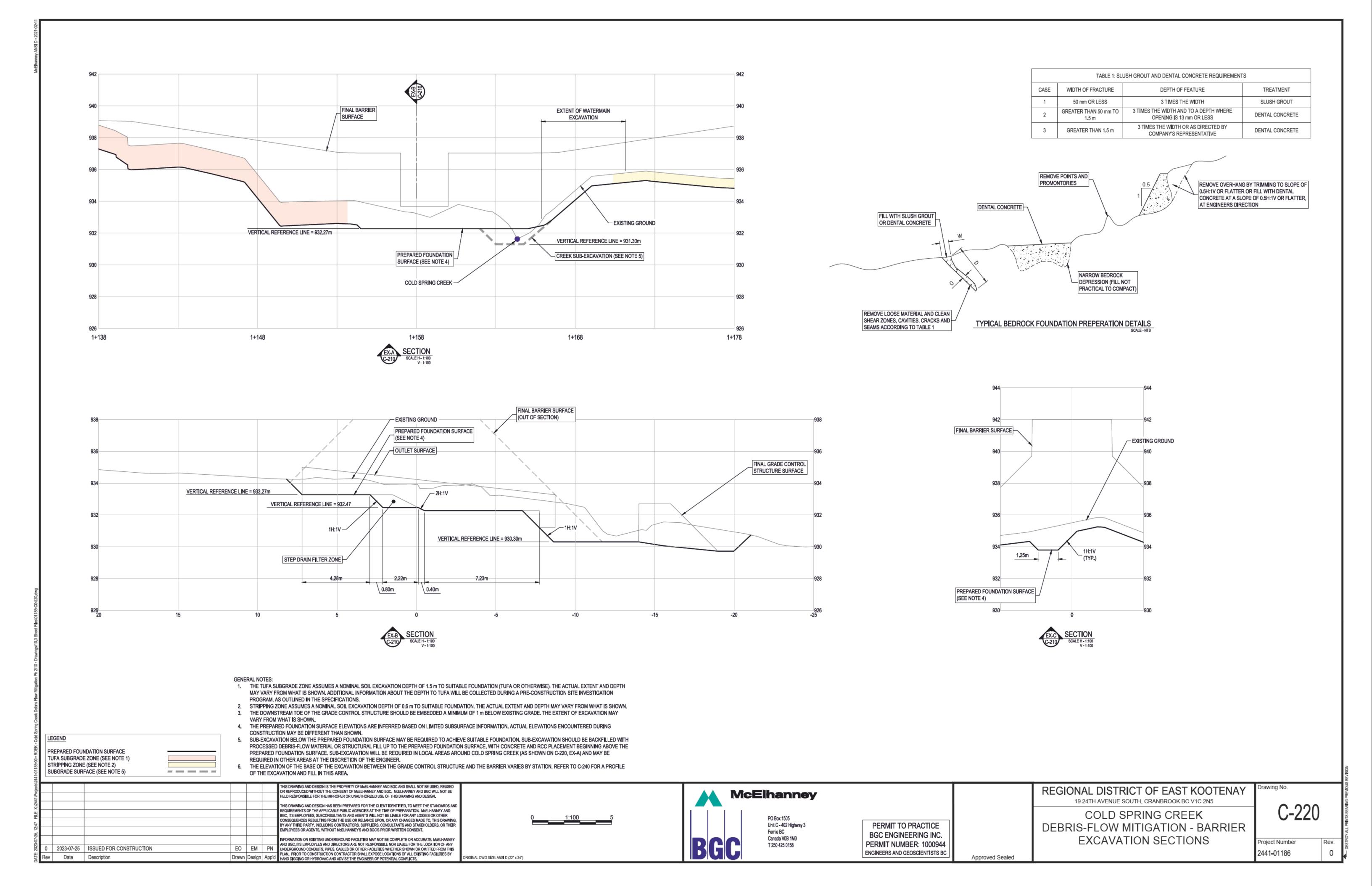


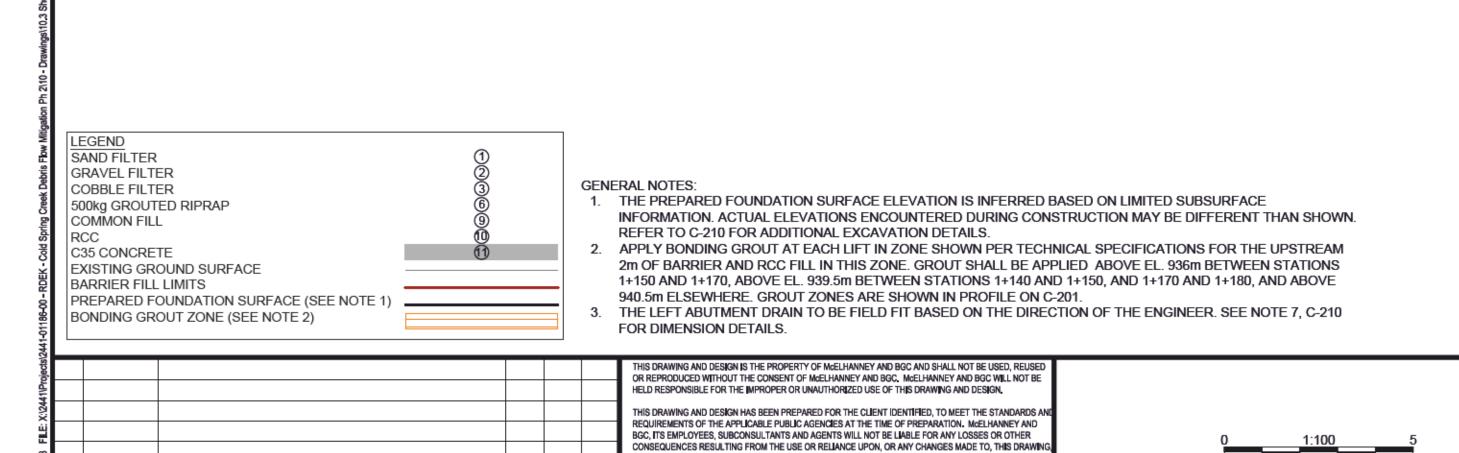
BARRIER REFERENCE LINE PROFILE

CHAINAGE









BY ANY THIRD PARTY, INCLUDING CONTRACTORS, SUPPLIERS, CONSULTANTS AND STAKEHOLDERS, OR THEIR

INFORMATION ON EXISTING UNDERGROUND FACILITIES MAY NOT BE COMPLETE OR ACCURATE, McELHANNEY

AND BGC, ITS EMPLOYEES AND DIRECTORS ARE NOT RESPONSIBLE NOR LIABLE FOR THE LOCATION OF ANY

UNDERGROUND CONDUITS, PIPES, CABLES OR OTHER FACILITIES WHETHER SHOWN OR OMITTED FROM THIS

PLAN. PRIOR TO CONSTRUCTION CONTRACTOR SHALL EXPOSE LOCATIONS OF ALL EXISTING FACILITIES BY

EMPLOYEES OR AGENTS, WITHOUT MCELHANNEY'S AND BGC'S PRIOR WRITTEN CONSENT.

HAND DIGGING OR HYDROVAC AND ADVISE THE ENGINEER OF POTENTIAL CONFLICTS.

BARRIER REFERENCE LINE -

BONDING GROUT ZONE

1H:1V

(SEE NOTE 2)

PREPARED FOUNDATION SURFACE

(SEE NOTE 1)

NOMINAL 1.5m EXCAVATION

BACKFILL WITH COMMON FILL (MODIFIED REQUIREMENTS)

2.50

DOWNSTREAM

VERTICAL REFERENCE LINE = 944.80m

BACKFILL WITH

NON-WOVEN GEOTEXTILE

LEFT ABUTMENT DRAIN (SEE NOTE 3)

COMMON FILL

BARRIER FILL LIMITS

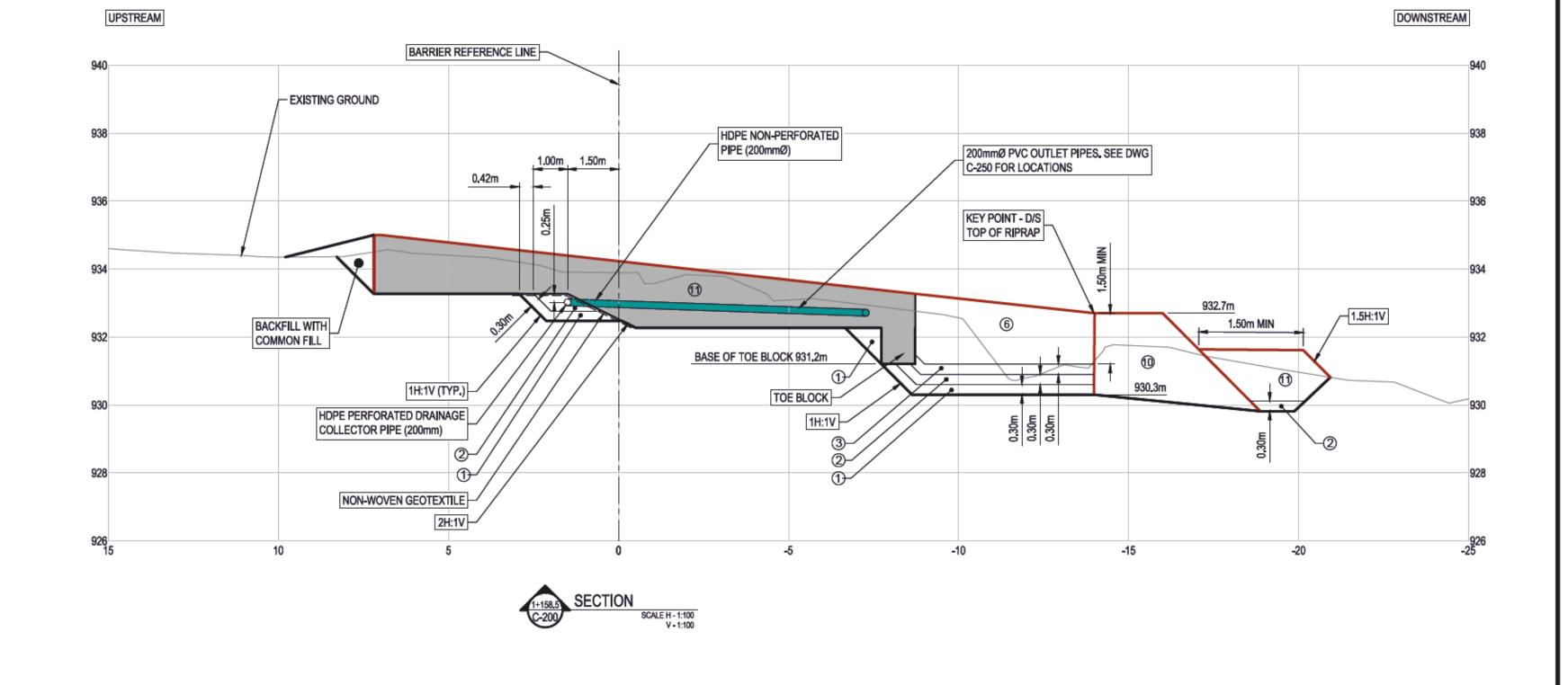
UPSTREAM

948 FILL LIMITS

EXISTING GROUND -

2023-07-25 ISSUED FOR CONSTRUCTION

Date Description



McElhanney

PO Box 1505

Fernie BC

Canada V0B 1M0

T 250 425 0158

Unit C - 402 Highway 3

PERMIT TO PRACTICE

BGC ENGINEERING INC.

PERMIT NUMBER: 1000944

ENGINEERS AND GEOSCIENTISTS BC

Approved Sealed

REGIONAL DISTRICT OF EAST KOOTENAY

19 24TH AVENUE SOUTH, CRANBROOK BC V1C 2N5

COLD SPRING CREEK

DEBRIS-FLOW MITIGATION - BARRIER

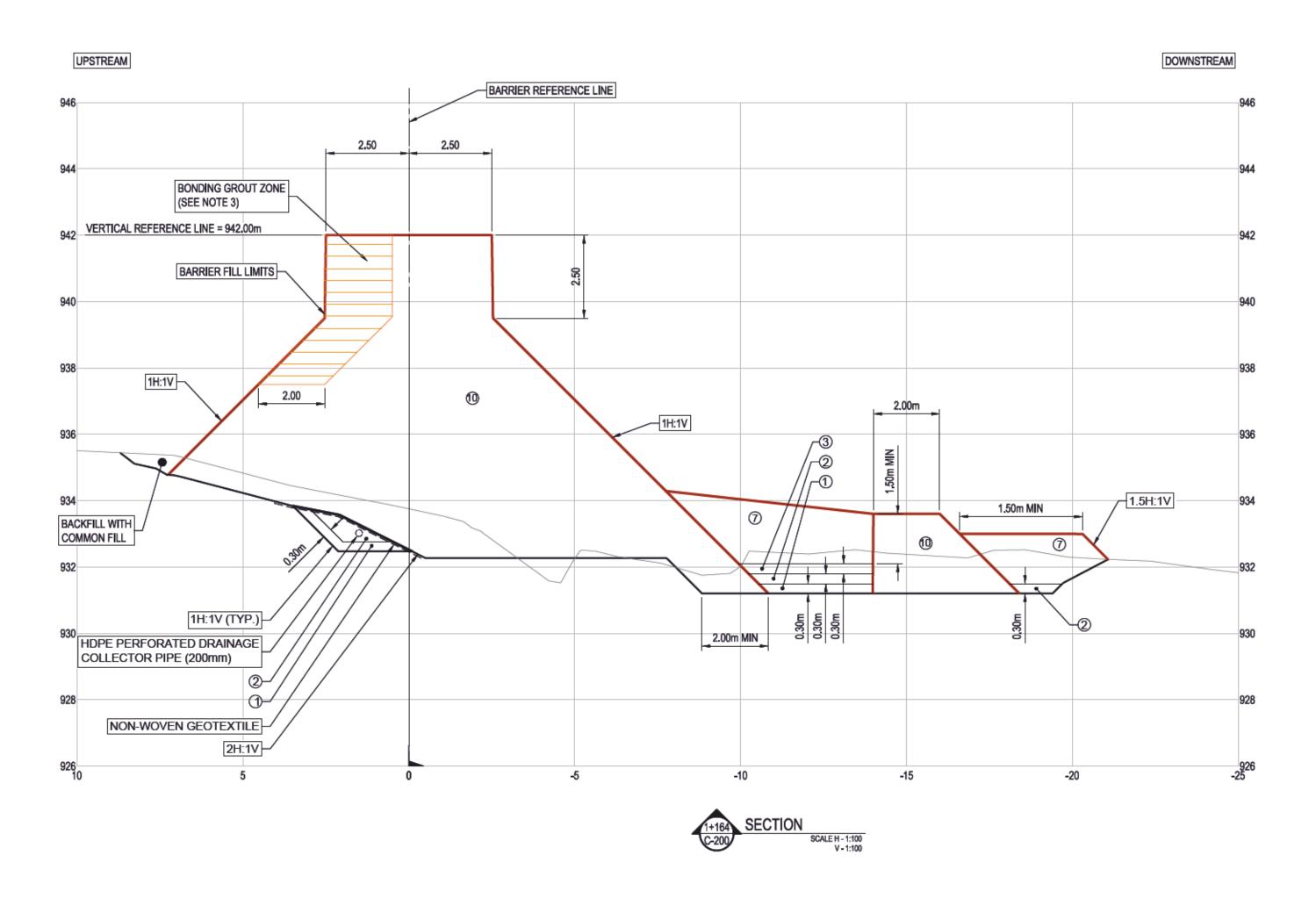
TYPICAL SECTIONS

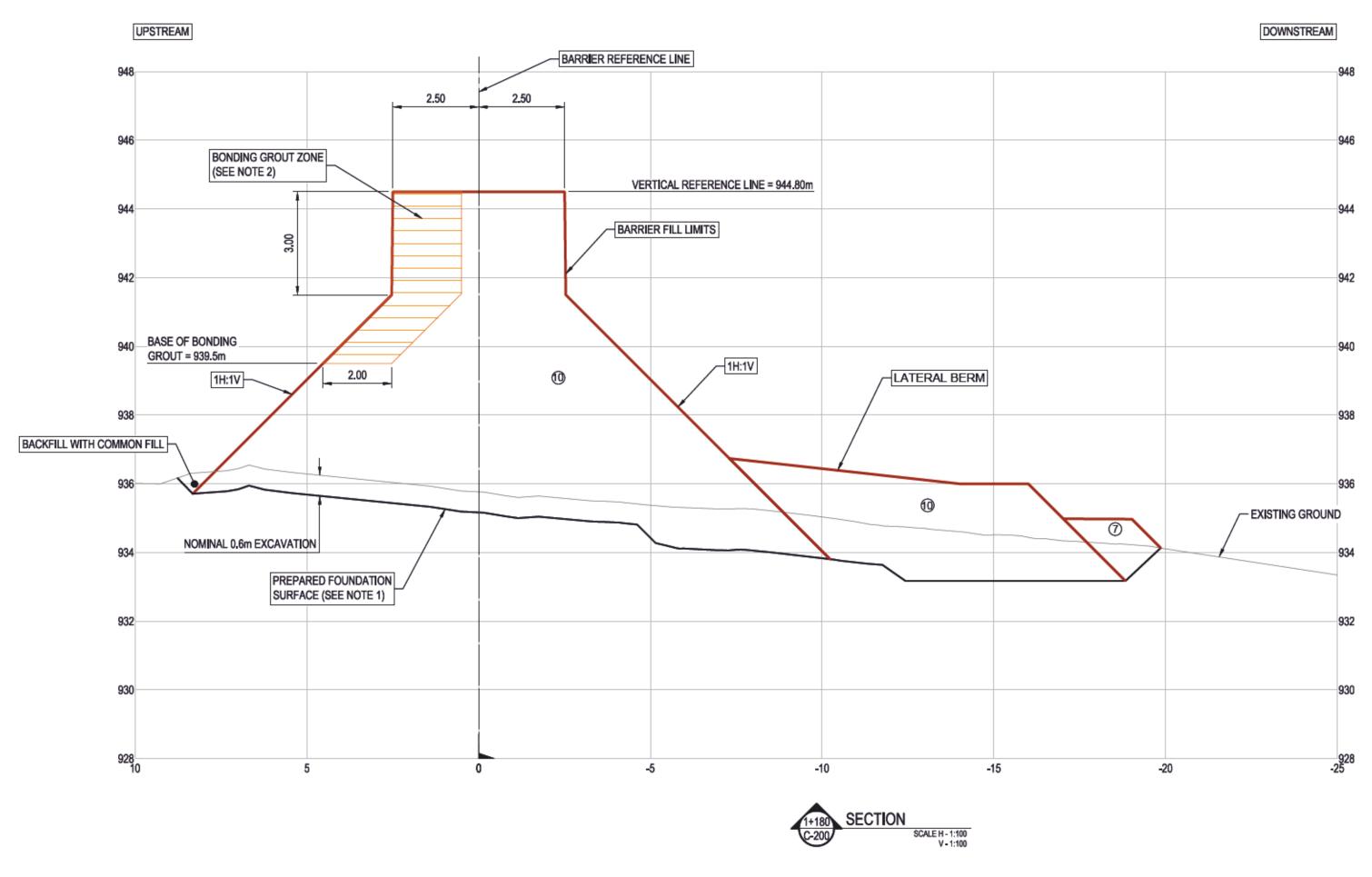
(SHEET 1 OF 3)

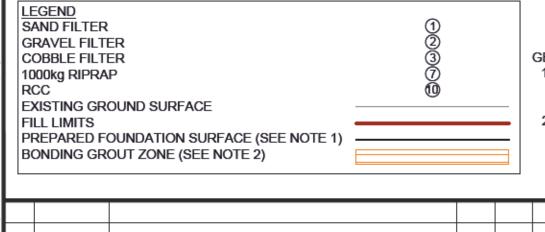
C-230

Project Number

2441-01186







GENERAL NOTES: 1. THE PREPARED FOUNDATION SURFACE ELEVATION IS INFERRED BASED ON LIMITED SUBSURFACE

HAND DIGGING OR HYDROVAC AND ADVISE THE ENGINEER OF POTENTIAL CONFLICTS.

INFORMATION. ACTUAL ELEVATIONS ENCOUNTERED DURING CONSTRUCTION MAY BE DIFFERENT THAN SHOWN.

REFER TO C-210 FOR ADDITIONAL EXCAVATION DETAILS. APPLY BONDING GROUT AT EACH LIFT IN ZONE SHOWN PER TECHNICAL SPECIFICATIONS FOR THE UPSTREAM 2m OF BARRIER AND RCC FILL IN THIS ZONE. GROUT SHALL BE APPLIED ABOVE EL. 936m BETWEEN STATIONS 1+150 AND 1+170, ABOVE EL. 939.5m BETWEEN STATIONS 1+140 AND 1+150, AND 1+170 AND 1+180, AND ABOVE

940.5m ELSEWHERE. GROUT ZONES ARE SHOWN IN PROFILE ON C-201.

OR REPRODUCED WITHOUT THE CONSENT OF MCELHANNEY AND BGC, MCELHANNEY AND BGC WILL NOT BE HELD RESPONSIBLE FOR THE IMPROPER OR UNAUTHORIZED USE OF THIS DRAWING AND DESIGN. THIS DRAWING AND DESIGN HAS BEEN PREPARED FOR THE CLIENT IDENTIFIED, TO MEET THE STANDARDS AND REQUIREMENTS OF THE APPLICABLE PUBLIC AGENCIES AT THE TIME OF PREPARATION. McELHANNEY AND CONSEQUENCES RESULTING FROM THE USE OR RELIANCE UPON, OR ANY CHANGES MADE TO, THIS DRAWING BY ANY THIRD PARTY, INCLUDING CONTRACTORS, SUPPLIERS, CONSULTANTS AND STAKEHOLDERS, OR THEIR EMPLOYEES OR AGENTS, WITHOUT MCELHANNEY'S AND BGC'S PRIOR WRITTEN CONSENT. INFORMATION ON EXISTING UNDERGROUND FACILITIES MAY NOT BE COMPLETE OR ACCURATE. McELHANNEY AND BGC, ITS EMPLOYEES AND DIRECTORS ARE NOT RESPONSIBLE NOR LIABLE FOR THE LOCATION OF ANY 2023-07-25 ISSUED FOR CONSTRUCTION UNDERGROUND CONDUITS, PIPES, CABLES OR OTHER FACILITIES WHETHER SHOWN OR OMITTED FROM THIS PLAN. PRIOR TO CONSTRUCTION CONTRACTOR SHALL EXPOSE LOCATIONS OF ALL EXISTING FACILITIES BY Date Description

PO Box 1505 Unit C - 402 Highway 3 Fernie BC Canada V0B 1M0 T 250 425 0158

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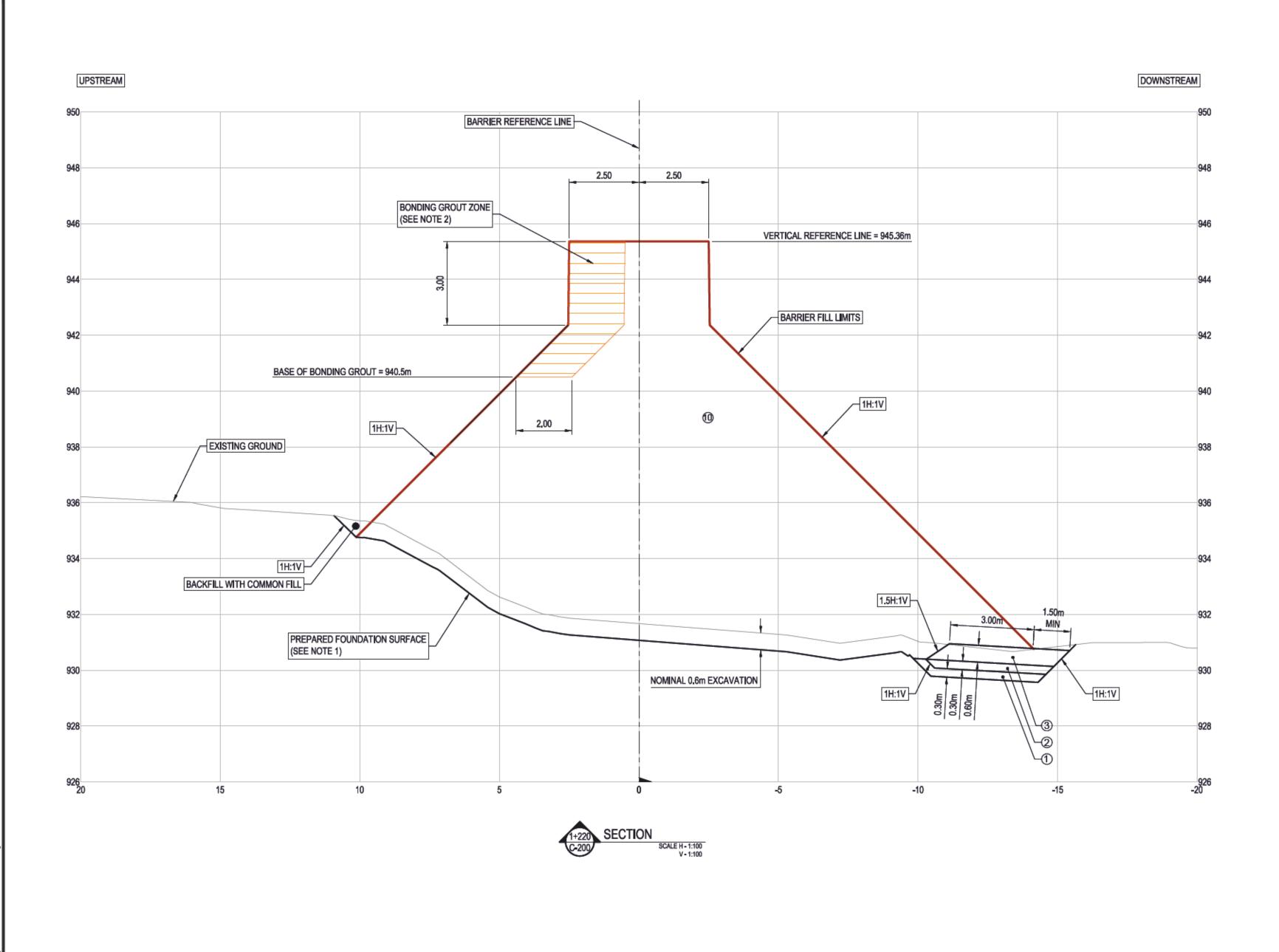
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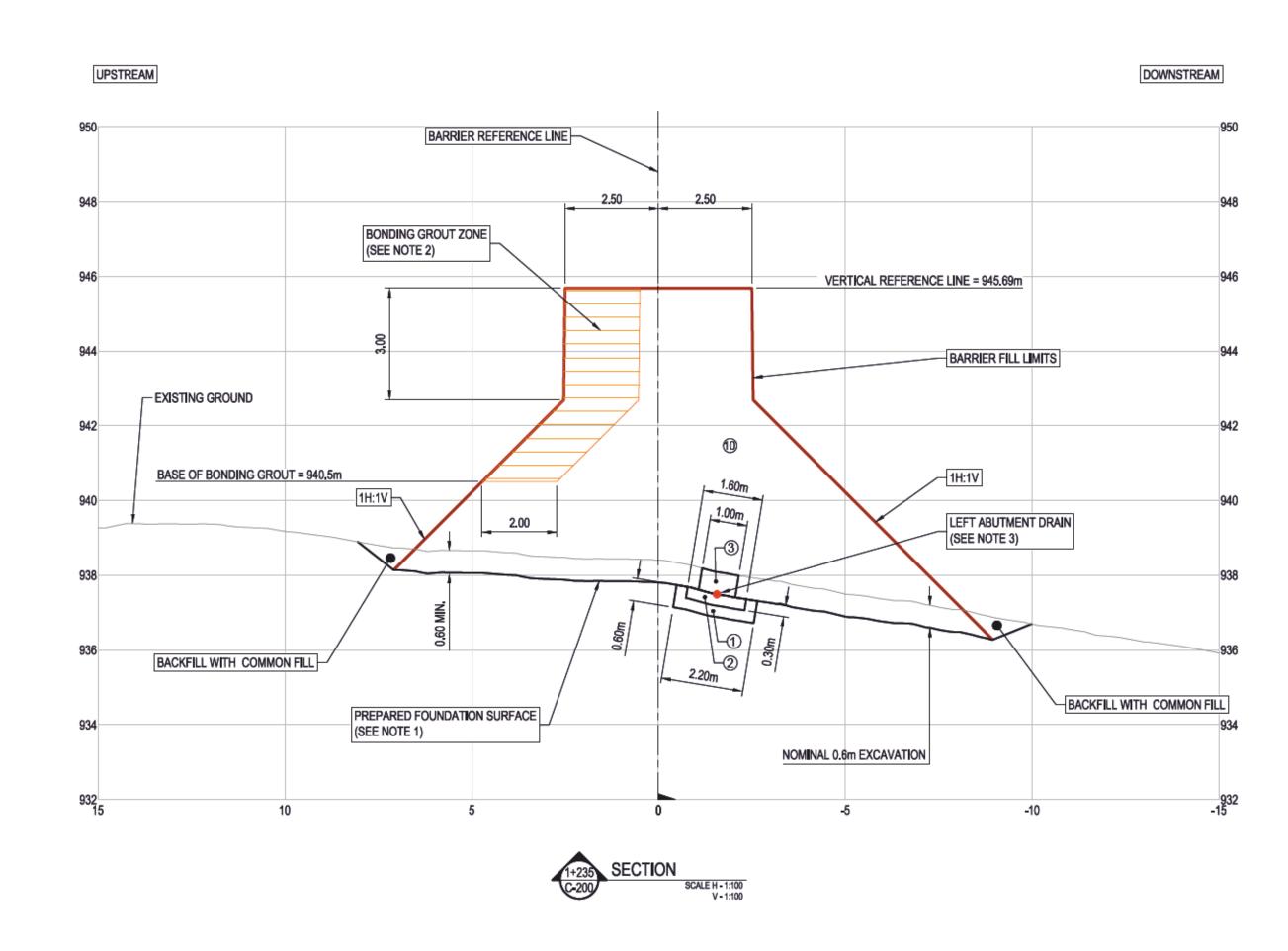
19 24TH AVENUE SOUTH, CRANBROOK BC V1C 2N5 COLD SPRING CREEK DEBRIS-FLOW MITIGATION - BARRIER TYPICAL SECTIONS (SHEET 2 OF 3)

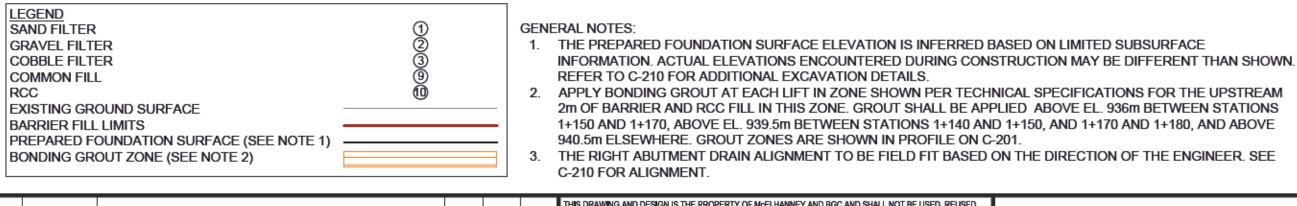
REGIONAL DISTRICT OF EAST KOOTENAY

C-231

Project Number 2441-01186







2023-07-25 ISSUED FOR CONSTRUCTION

Date Description

EMPLOYEES OR AGENTS, WITHOUT MCELHANNEY'S AND BGC'S PRIOR WRITTEN CONSENT.

HAND DIGGING OR HYDROVAC AND ADVISE THE ENGINEER OF POTENTIAL CONFLICTS.

OR REPRODUCED WITHOUT THE CONSENT OF MCELHANNEY AND BGC, MCELHANNEY AND BGC WILL NOT BE HELD RESPONSIBLE FOR THE IMPROPER OR UNAUTHORIZED USE OF THIS DRAWING AND DESIGN. THIS DRAWING AND DESIGN HAS BEEN PREPARED FOR THE CLIENT IDENTIFIED, TO MEET THE STANDARDS AND REQUIREMENTS OF THE APPLICABLE PUBLIC AGENCIES AT THE TIME OF PREPARATION. McELHANNEY AND CONSEQUENCES RESULTING FROM THE USE OR RELIANCE UPON, OR ANY CHANGES MADE TO, THIS DRAWING BY ANY THIRD PARTY, INCLUDING CONTRACTORS, SUPPLIERS, CONSULTANTS AND STAKEHOLDERS, OR THEIR INFORMATION ON EXISTING UNDERGROUND FACILITIES MAY NOT BE COMPLETE OR ACCURATE. McELHANNEY AND BGC, ITS EMPLOYEES AND DIRECTORS ARE NOT RESPONSIBLE NOR LIABLE FOR THE LOCATION OF ANY UNDERGROUND CONDUITS, PIPES, CABLES OR OTHER FACILITIES WHETHER SHOWN OR OMITTED FROM THIS PLAN, PRIOR TO CONSTRUCTION CONTRACTOR SHALL EXPOSE LOCATIONS OF ALL EXISTING FACILITIES BY

McElhanney

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PERMIT TO PRACTICE BGC ENGINEERING INC. PERMIT NUMBER: 1000944 ENGINEERS AND GEOSCIENTISTS BC

Approved Sealed

REGIONAL DISTRICT OF EAST KOOTENAY 19 24TH AVENUE SOUTH, CRANBROOK BC V1C 2N5 COLD SPRING CREEK DEBRIS-FLOW MITIGATION - BARRIER TYPICAL SECTIONS (SHEET 3 OF 3)

C-232

Project Number 2441-01186

