

Owner: Town of Lake Cowichan
(NAME OF OWNER)

Contract: Sewage Treatment Plant Slope Repair
(TITLE OF CONTRACT)

Reference No. N/A
(OWNER'S CONTRACT REFERENCE NO.)

The Owner invites tenders

for: Tree removal, fence relocation, excavation and hydroseeding.
(BRIEF DESCRIPTION OF THE WORK)

**The Contract Documents
are available for viewing at:**

Enclosed in Invitation Email.

(ADDRESS WHERE CONTRACT DOCUMENTS CAN BE VIEWED)

**Tenders are scheduled to
close:**

Tender Closing Time: 2 : 00, p m local time

Tender Closing Date: February 24 , 20 20

Address: Tenders to be submitted by email to

jirving@mcelhanney.com

(ADDRESS WHERE TENDERS MUST BE SUBMITTED)

**NAME OF OWNER'S
REPRESENTATIVE**

Jon Irving, P.Eng., Project Manager, McElhanney Ltd.

(250)252-5192, jirving@mcelhanney.com

1.0 Introduction.....IT - 1

2.0 Tender DocumentsIT - 1

3.0 Submission of TendersIT - 2

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(FOR USE WHEN UNIT PRICES FORM THE BASIS OF PAYMENT TO BE USED ONLY WITH THE GENERAL CONDITIONS AND OTHER STANDARD DOCUMENTS OF THE UNIT PRICE MASTER MUNICIPAL CONSTRUCTION DOCUMENTS.)

(TO BE READ WITH “INSTRUCTIONS TO TENDERERS - PART II”
CONTAINED IN THE EDITION OF THE PUBLICATION
“MASTER MUNICIPAL CONSTRUCTION DOCUMENTS” SPECIFIED IN ARTICLE 2.2 BELOW)

Owner: Town of Lake Cowichan
(NAME OF OWNER)

Contract: Sewage Treatment Plant Slope Repair
(TITLE OF CONTRACT)

Reference No. N/A
(OWNER'S CONTRACT REFERENCE NO.)

1.0 Introduction

1.1 These Instructions apply to and govern the preparation of tenders for this *Contract*. The *Contract* is generally for the following work:
Tree removal, fence relocation, excavation and hydroseeding.

(BRIEF DESCRIPTION OF THE WORK)

1.2 Direct all inquiries regarding the *Contract*, to:

Jon Irving, P.Eng., Project Manager, McElhanney Ltd.

(NAME AND POSITION OF INDIVIDUAL WHO WILL ANSWER INQUIRIES)

Address: 202-5855 York Road
Duncan, BC V9L 3S3

Phone: 250 252 - 5192

2.0 Tender Documents

2.1 The tender documents which a tenderer should review to prepare a tender consist of all of the *Contract Documents* listed in Schedule 1 entitled “Schedule of Contract Documents”. Schedule 1 is attached to the Agreement which is included as part of the tender package. The *Contract Documents* include the drawings listed in Schedule 2 to the Agreement, entitled “List of *Contract Drawings*”.

2.2 A portion of the *Contract Documents* are included by reference. Copies of these documents have not been included with the tender package. These documents are the Instructions to Tenderers - Part II, General Conditions, Specifications and Standard Detail Drawings. They are those contained in the publication entitled "Master Municipal Construction Documents - General Conditions, Specifications and Standard Detail Drawings". Refer to Schedule 1 to the Agreement or, if not specified in Schedule 1, then the applicable edition shall be the most recent edition as of the date of the *Tender Closing Date*. All sections of this publication are by reference included in the *Contract Documents*.

2.3 Any additional information made available to tenderers prior to the *Tender Closing Time* by the *Owner* or representative of the *Owner*, such as geotechnical reports or as-built plans, which is not expressly included in Schedule 1 or Schedule 2 to the Agreement, is not included in the *Contract Documents*. Such additional information is made available only for the assistance of tenderers who must make their own judgment about its reliability, accuracy, completeness and relevance to the *Contract*, and neither the *Owner* nor any representative of the *Owner* gives any guarantee or representation that the additional information is reliable, accurate, complete or relevant.

3.0 Submission of Tenders

3.1 Tenders must be submitted in a sealed envelope, marked on the outside with the above *Contract* Title., and must be received by the office of:

Jon Irving, P.Eng., Project Manager, McElhanney Ltd.

(TITLE OF POSITION)

on or before:

Tender Closing Time: 2 : 00 , p m local time

Tender Closing Date: February 24 , 20 20

at

Email jirving@mcelhanney.com

Address: _____

3.2 Late tenders will not be accepted or considered, and will be returned unopened.

UNIT
PRICE
CONTRACT

INSTRUCTIONS TO TENDERERS PART I

IT – PART I
IT - 3
2009

FOR USE WHEN UNIT PRICES FORM THE BASIS OF PAYMENT - TO BE USED ONLY WITH THE GENERAL CONDITIONS AND OTHER STANDARD DOCUMENTS OF THE UNIT PRICE MASTER MUNICIPAL CONSTRUCTION DOCUMENTS.

Owner: Town of Lake Cowichan
(NAME OF OWNER)
Contract: Sewage Treatment Plant Slope Repairs
(TITLE OF CONTRACT)
Reference No. N/A
(OWNER'S CONTRACT REFERENCE NO.)

To Owner:

**WE, THE
UNDERSIGNED:**

1.1 have received and carefully reviewed all of the *Contract Documents*, including the Instructions to Tenderers, the specified edition of the "Master Municipal Construction Documents - General Conditions, Specifications and Standard Detail Drawings" and the following Addenda:

(ADDENDA, IF ANY)

**ACCORDINGLY WE
HEREBY OFFER**

1.2 have full knowledge of the *Place of the Work*, and the *Work* required; and

1.3 have complied with the Instructions to Tenderers; and

2.1 to perform and complete all of the *Work* and to provide all the labour, equipment and material all as set out in the *Contract Documents*, in strict compliance with the *Contract Documents*; and

2.2 to achieve Substantial Performance of the *Work* on or before _____; and
(WORK DURATION OR DATE)

2.3 to do the *Work* for the price, which is the sum of the products of the actual quantities incorporated into the *Work* and the appropriate unit prices set out in Appendix 1, the "*Schedule of Quantities and Prices*", plus any lump sums or specific prices and adjustment amounts as provided by the *Contract Documents*. For the purposes of tender comparison, our offer is to complete the *Work* for the "*Tender Price*" as set out on Appendix 1 of this Form of Tender. Our *Tender Price* is based on the estimated quantities listed in the *Schedule of Quantities and Prices*, and excludes *GST*.

WE CONFIRM:

3.1 that we understand and agree that the quantities as listed in the *Schedule of Quantities and Prices* are estimated, and that the actual quantities will vary.

- WE CONFIRM:**
- 4.1 that the following appendices are attached to and form a part of this tender:
- 4.1.1 the appendices as required by paragraph 5.3 of the Instructions to Tenderers – Part II; and
- 4.1.2 the *Bid Security* as required by paragraph 5.2 of the Instructions to Tenderers – Part II.
- WE AGREE:**
- 5.1 that this tender will be irrevocable and open for acceptance by the *Owner* for a period of _____ calendar days from the day following the *Tender Closing Date and Time*, even if the tender of another tenderer is accepted by the *Owner*. If within this period the *Owner* delivers a written notice ("*Notice of Award*") by which the *Owner* accepts our tender we will:
- 5.1.1 within 15 *Days* of receipt of the written *Notice of Award* deliver to the *Owner*:
- .1 a Performance Bond and a Labour and Material Payment Bond, each in the amount of 50% of the Contract Price, covering the performance of the Work including the Contractor's obligations during the Maintenance Period, issued by a surety licensed to carry on the business of suretyship in the province of British Columbia, and in a form acceptable to the *Owner*;
- .2 a Baseline Construction Schedule, as provided by GC 4.6.1;
- .3 a "clearance letter" indicating that the tenderer is in Worksafe BC compliance; and
- .4 a copy of the insurance policies as specified in GC 24 indicating that all such insurance coverage is in place and;
- 5.1.2 within 2 *Days* of receipt of written "*Notice to Proceed*", or such longer time as may be otherwise specified in the *Notice to Proceed*, commence the *Work*; and
- 5.1.3 sign the Contract Documents as required by GC 2.1.2.
- WE AGREE:**
- 6.1 that, if we receive written *Notice of Award* of this *Contract* and, contrary to paragraph 5 of this Form of Tender, we:
- 6.1.1 fail or refuse to deliver the documents as specified by paragraph 5.1.1 of this Form of Tender; or

6.1.2 fail or refuse to commence the *Work* as required by the *Notice to Proceed*,

then such failure or refusal will be deemed to be a refusal by us to enter into the *Contract* and the *Owner* may, on written notice to us, award the *Contract* to another party. We further agree that, as full compensation on account of damages suffered by the *Owner* because of such failure or refusal, the *Bid Security* shall be forfeited to the *Owner*, in an amount equal to the lesser of:

6.1.3 the face value of the *Bid Security*; and

6.1.4 the amount by which our *Tender Price* is less than the amount for which the *Owner* contracts with another party to perform the *Work*.

OUR ADDRESS IS AS FOLLOWS:

Phone: _____

Fax: _____

Attention: _____

This Tender is executed this _____ day of _____, 20 _____.

Contractor:

(FULL LEGAL NAME OF CORPORATION, PARTNERSHIP OR INDIVIDUAL)

(AUTHORIZED SIGNATORY)

(AUTHORIZED SIGNATORY)

(FOR USE WHEN UNIT PRICES FORM THE BASIS OF PAYMENT TO BE USED ONLY WITH THE GENERAL CONDITIONS AND OTHER STANDARD DOCUMENTS OF THE UNIT PRICE MASTER MUNICIPAL CONSTRUCTION DOCUMENTS.)

BETWEEN OWNER AND CONTRACTOR

This agreement made in duplicate this

_____ day of _____, 20____.

Contract:

(TITLE OF CONTRACT)

Reference No.

(OWNER'S CONTRACT REFERENCE NO.)

BETWEEN:

The

(NAME OF OWNER)

(the "Owner")

AND:

(NAME AND OFFICE ADDRESS OF CONTRACTOR)

(the "Contractor")

The Owner and the Contractor agree as follows:

**Article 1 The Work
Start /
Completion
Dates**

1.1 The *Contractor* will perform all *Work* and provide all labour, equipment and material and do all things strictly as required by the Contract Documents.

1.2 The *Contractor* will commence the *Work* in accordance with the Notice to Proceed. The *Contractor* will proceed with the *Work* diligently, will perform the *Work* generally in accordance with the construction schedules as required by the Contract Documents and will achieve Substantial Performance of the *Work* on or before _____ subject to
(INSERT DATE OF SUBSTANTIAL PERFORMANCE)

the provisions of the Contract Documents for adjustments to the Contract Time.

1.3 Time shall be of the essence of the *Contract*.

Article 2 Contract Documents

- 2.1 The "Contract Documents" consist of the documents listed or referred to in Schedule 1, entitled "Schedule of Contract Documents", which is attached and forms a part of this Agreement, and includes any and all additional and amending documents issued in accordance with the provisions of the Contract Documents. All of the Contract Documents shall constitute the entire *Contract* between the *Owner* and the *Contractor*.
- 2.2 The *Contract* supersedes all prior negotiations, representations or agreements, whether written or oral, and the *Contract* may be amended only in strict accordance with the provisions of the Contract Documents.

Article 3 Contract Price

- 3.1 The price for the *Work* ("Contract Price") shall be the sum in Canadian dollars of the following
- 1.1.1 the product of the actual quantities of the items of *Work* listed in the Schedule of Quantities and Prices which are incorporated into or made necessary by the *Work* and the unit prices listed in the Schedule of Quantities and Prices; plus
 - 1.1.2 all lump sums, if any, as listed in the Schedule of Quantities and Prices, for items relating to or incorporated into the *Work*; plus
 - 1.1.3 any adjustments, including any payments owing on account of *Changes* and agreed to Extra Work, approved in accordance with the provisions of the Contract Documents.
- 3.2 The Contract Price shall be the entire compensation owing to the *Contractor* for the *Work* and this compensation shall cover and include all profit and all costs of supervision, labour, material, equipment, overhead, financing, and all other costs and expenses whatsoever incurred in performing the *Work*.

Article 4 Payment

- 4.1 Subject to applicable legislation and the provisions of the Contract Documents, the *Owner* shall make payments to the *Contractor*.
- 4.2 If the *Owner* fails to make payments to the *Contractor* as they become due in accordance with the terms of the Contract Documents then interest calculated at 2% per annum over the prime commercial lending rate of the Royal Bank of Canada on such unpaid amounts shall also become due and payable until payment. Such interest shall be calculated and added to any unpaid amounts monthly.

Article 5 Rights and Remedies

- 5.1 The duties and obligations imposed by the Contract Documents and the rights and remedies available thereunder shall be in addition to and not a limitation of any duties, obligations, rights and remedies otherwise imposed or available by law.

5.2 Except as specifically set out in the Contract Documents, no action or failure to act by the *Owner*, Contract Administrator or *Contractor* shall constitute a waiver of any of the parties' rights or duties afforded under the *Contract*, nor shall any such action or failure to act constitute an approval of or acquiescence in any breach under the *Contract*.

Article 6 Notices

6.1 Communications among the *Owner*, the Contract Administrator and the *Contractor*, including all written notices required by the Contract Documents, may be delivered by hand, or by fax, or by pre-paid registered mail to the addresses as set out below:

The *Owner*:

Fax: _____

Attention: _____

The *Contractor*:

Fax: _____

Attention: _____

The Contract Administrator:

Fax: _____

Attention: _____

6.2 A communication or notice that is addressed as above shall be considered to have been received

1.1.4 immediately upon delivery, if delivered by hand; or

1.1.5 immediately upon transmission if sent by fax and received in hard copy; or

1.1.6 after 5 *Days* from date of posting if sent by registered mail.

6.3 The *Owner* or the *Contractor* may, at any time, change its address for notice by giving written notice to the other at the address then applicable. Similarly if the Contract Administrator changes its address for notice then the *Owner* will give or cause to be given written notice to the *Contractor*.

6.4 The sender of a notice by fax assumes all risk that the fax is received in hard copy.

Article 7 General

7.1 This *Contract* shall be construed according to the laws of British Columbia.

7.2 The *Contractor* shall not, without the express written consent of the *Owner*, assign this *Contract*, or any portion of this *Contract*.

7.3 The headings included in the Contract Documents are for convenience only and do not form part of this *Contract* and will not be used to interpret, define or limit the scope or intent of this *Contract* or any of the provisions of the Contract Documents.

7.4 A word in the Contract Documents in the singular includes the plural and, in each case, vice versa.

7.5 This agreement shall ensure to the benefit of and be binding upon the parties and their successors, executors, administrators and assigns.

IN WITNESS WHEREOF the parties hereto have executed this Agreement the day and year first written above.

Contractor:

(FULL LEGAL NAME OF CORPORATION, PARTNERSHIP OR INDIVIDUAL)

(AUTHORIZED SIGNATORY)

(AUTHORIZED SIGNATORY)

Owner:

(FULL LEGAL NAME OF CORPORATION, PARTNERSHIP OR INDIVIDUAL)

(AUTHORIZED SIGNATORY)

(AUTHORIZED SIGNATORY)

(INCLUDE IN LIST ALL DOCUMENTS INCLUDING, IF ANY, SUPPLEMENTARY GENERAL CONDITIONS, SUPPLEMENTARY SPECIFICATIONS, SUPPLEMENTARY STANDARD DETAIL DRAWINGS.)

Schedule 1 Schedule
of Contract
Documents

The following is an exact and complete list of the Contract Documents, as referred to in Article 2.1 of the Agreement.

NOTE: The documents noted with "*" are contained in the "Master Municipal Construction Documents - General Conditions, Specifications and Standard Detail Drawings", edition dated 20____. All sections of this publication are included in the Contract Documents.

- 8.1 Agreement, including all Schedules;
- 8.2 Supplementary General Conditions (if any, insert title and edition date);
- 8.3 General Conditions*;
- 8.4 Supplementary Specifications (if any, insert title and edition date);
- 8.5 Specifications*;
- 8.6 Supplementary Standard Detail Drawings (if any, insert title and edition date);
- 8.7 Standard Detail Drawings*;
- 8.8 Executed Form of Tender, including all Appendices;
- 8.9 Contract Documents listed in Schedule 2 to the Agreement. –"List of Contract Documents";
- 8.10 Instructions To Tenderers - Part I;
- 8.11 Instructions to Tenderers - Part II*;
- 8.12 The following Addenda:

(ADDENDA, IF ANY)

Sewage Treatment Plant Slope Repair

(TITLE OF CONTRACT)

See paragraph 5.3.3 of the Instructions to Tenderers – Part II.

Name: _____

Experience: _____

Dates: _____

Project Name: _____

Responsibility: _____

References: _____

Dates: _____

Project Name: _____

Responsibility: _____

References: _____

Dates: _____

Project Name: _____

Responsibility: _____

References: _____

Dates: _____

Project Name: _____

Responsibility: _____

References: _____

Tenderer's Initials _____

Sewage Treatment Plant Slope Repair

(TITLE OF CONTRACT)

See paragraph 5.3.4 of the Instructions to Tenderers – Part II.

PROJECT	OWNER / CONTACT NAME PHONE and FAX	WORK DESCRIPTION	VALUE (\$)
	Owner / Contract _____ Phone () _____ Fax () _____		
	Owner / Contract _____ Phone () _____ Fax () _____		
	Owner / Contract _____ Phone () _____ Fax () _____		
	Owner / Contract _____ Phone () _____ Fax () _____		
	Owner / Contract _____ Phone () _____ Fax () _____		
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	Owner / Contract _____ Phone () _____ Fax () _____		
	Owner / Contract _____ Phone () _____ Fax () _____		
	Owner / Contract _____ Phone () _____ Fax () _____		
	Owner / Contract _____ Phone () _____ Fax () _____		

Tenderer's Initials _____

**TOWN OF LAKE COWICHAN
SEWAGE TREATMENT PLANT SLOPE REPAIR
SCHEDULE OF QUANTITIES**

ITEM NO.	MMCD REF.	DESCRIPTION	UNIT	QUANTITY	UNIT PRICE	AMOUNT
1.0	SITE PREPARATION:					
1.1	01 1.1	Mobilization/Demobilization	Lump Sum	1	\$	\$
	01 57 01	ENVIRONMENTAL PROTECTION				
1.2	01 57 01 1.6.2/2.4.3	Erosion & Sediment Management, Storage Cell Protection	Lump Sum	1	\$	\$
		SITE PREPARATION SUBTOTAL				\$
2.0	EARTHWORKS:					
2.1	31 11 01 1.4.1/2	Clearing and grubbing (includes slopes and tree removal)	Square metre	950	\$	\$
2.2	31 22 01 1.4.2	Site Grading - Excavation And Haul To Onsite Stockpile	Cubic metre	1160	\$	\$
2.3	31 22 01 1.4.2	Site Grading - Ditch Realignment	Cubic metre	50	\$	\$
2.4	31 24 13 1.8.5.1	[Optional Work/As Required] Common excavation, import fill - Provide Rate Only	Cubic metre	0	\$	\$
		EARTHWORKS SUBTOTAL				\$
3.0	ROADWORKS:					
3.1	31 24 13 1.8.9	Access Road Restoration	Square metre	800	\$	\$
		ROADWORKS SUBTOTAL				\$
4.0	LANDSCAPING:					
4.1	32 91 21 1.4	Topsoil - 100mm depth (Ditch Only)	Square metre	165	\$	\$
4.2	32 92 19 1.8	Hydroseeding	Square metre	1520	\$	\$
		LANDSCAPING SUBTOTAL				\$
5.0	MISCELLANEOUS:					
		FENCE REMOVAL & INSTALLATION				
5.1	32 31 13 1.5.3	Chain Link Fence Removal and Relocation	Lineal metre	185	\$	\$
		MISCELLANEOUS SUBTOTAL				\$

SECTION 1:	SITE PREPARATION	\$
SECTION 2:	EARTHWORKS	\$
SECTION 3:	ROAD WORKS	\$
SECTION 4:	LANDSCAPING	\$
SECTION 5:	MISCELLANEOUS	\$
TOTAL CONSTRUCTION COST (EXCL. GST)		\$

TOWN OF LAKE COWICHAN

CLIENT

ADDRESS / CONTACT INFO. 39 SOUTH SHORE ROAD

PROJECT NAME SEWAGE PLANT SLOPE REPAIR

DESCRIPTION

McELHANNEY PROJECT 2233-02006-00

OTHER REFERENCE

STATUS ISSUED FOR TENDER (100%)

GENERAL NOTES

- IF A CONFLICT BETWEEN THE SPECIFICATIONS ARISES, THE MOST STRINGENT SPECIFICATION SHALL APPLY.
- CONTRACTOR TO ENSURE MINIMAL DISRUPTION TO LOCAL TRAFFIC IN ACCORDANCE WITH TOWN OF LAKE COWICHAN REQUIREMENTS.
- CONTRACTOR TO OBTAIN AND PAY FOR A HIGHWAY CONSTRUCTION PERMIT FROM TOWN OF LAKE COWICHAN PRIOR TO THE START OF ANY CONSTRUCTION.
- CONTRACTOR TO NOTIFY THE TOWN OF LAKE COWICHAN 2 WEEKS PRIOR TO CONSTRUCTION.
- CONTRACTOR TO MAINTAIN AN UP-TO-DATE SET OF REDLINE DRAWINGS FOR THE PREPARATION OF AS-CONSTRUCTED DRAWINGS. THE REDLINES ARE TO BE DELIVERED TO THE ENGINEER PRIOR TO SUBSTANTIAL PERFORMANCE. ALL DATA MUST BE SURVEYED AND PROVIDED BY A REGISTERED SURVEYOR AND MUST BE IN THE SAME COORDINATE SYSTEM AS THE ENGINEERING DRAWINGS IN ORDER FOR THE ENGINEER TO PREPARE THE AS-CONSTRUCTED DRAWINGS. MISSING OR INADEQUATE DATA TO BE PROVIDED BY THE CONTRACTOR OR BY AN INDEPENDENT SURVEYOR AT THE CONTRACTOR'S EXPENSE. ALL INFORMATION PROVIDED MUST BE TO THE SATISFACTION OF THE ENGINEER.
- CONTRACTOR TO ENSURE EXISTING MONUMENTS AND IRON PINS ARE NOT DISTURBED DURING CONSTRUCTION. ANY MONUMENTS OR IRON PINS IN DANGER OF DISTURBANCE ARE TO BE REFERENCED AND, IF DISTURBED, BE REPLACED BY A REGISTERED BC LAND SURVEYOR AT THE CONTRACTOR'S EXPENSE.
- THE CONTRACTOR SHALL BE SOLELY RESPONSIBLE FOR CONSTRUCTION LAYOUT, MEANS, METHODS, TECHNIQUES, SEQUENCES AND PROCEDURES FOR CO-ORDINATING THE VARIOUS PARTS OF THE WORK IN THESE DRAWINGS. McELHANNEY WILL PROVIDE DIGITAL FILES FOR LAYOUT PURPOSES UPON REQUEST.
- THE CONTRACTOR WILL BE CONSIDERED THE PRIME CONTRACTOR AND WILL ASSUME THE RESPONSIBILITIES AS SUCH AS OUTLINED IN THE WORKERS COMPENSATION ACT FOR THE DURATION OF THE PROJECT.
- NO CONSTRUCTION TO TAKE PLACE UNLESS DRAWINGS ARE ISSUED FOR CONSTRUCTION AND ALL APPROVALS ARE IN PLACE. CONTRACTOR TO CONFIRM WITH ENGINEER.
- CONTRACTOR TO ARRANGE A PRE-CONSTRUCTION MEETING WITH THE ENGINEER, UTILITY COMPANIES AND THE TOWN OF LAKE COWICHAN PRIOR TO CONSTRUCTION.
- CONTRACTOR TO PROVIDE CONSTRUCTION NOTICE TO ALL PROPERTIES 1 WEEK PRIOR TO CONSTRUCTION. CONSTRUCTION NOTICE SHALL BE APPROVED BY THE ENGINEER PRIOR TO DISTRIBUTION.
- ALL LOCATIONS AND ELEVATIONS OF EXISTING UTILITIES SHOWN ARE APPROXIMATE. ALL OR ANY STRUCTURES NOT NECESSARY SHOWN.
- ANY ALTERATIONS TO SPECIFIED MATERIALS OR APPURTENANCES TO BE APPROVED BY ENGINEER.
- CONTRACTOR TO SUBMIT WORK PLAN TO ENGINEER PRIOR TO CONSTRUCTION, INCLUDING EQUIPMENT TO BE UTILIZED, EXCAVATION METHODOLOGY, ETC.

TRENCHING, EXCAVATION AND BACKFILLING

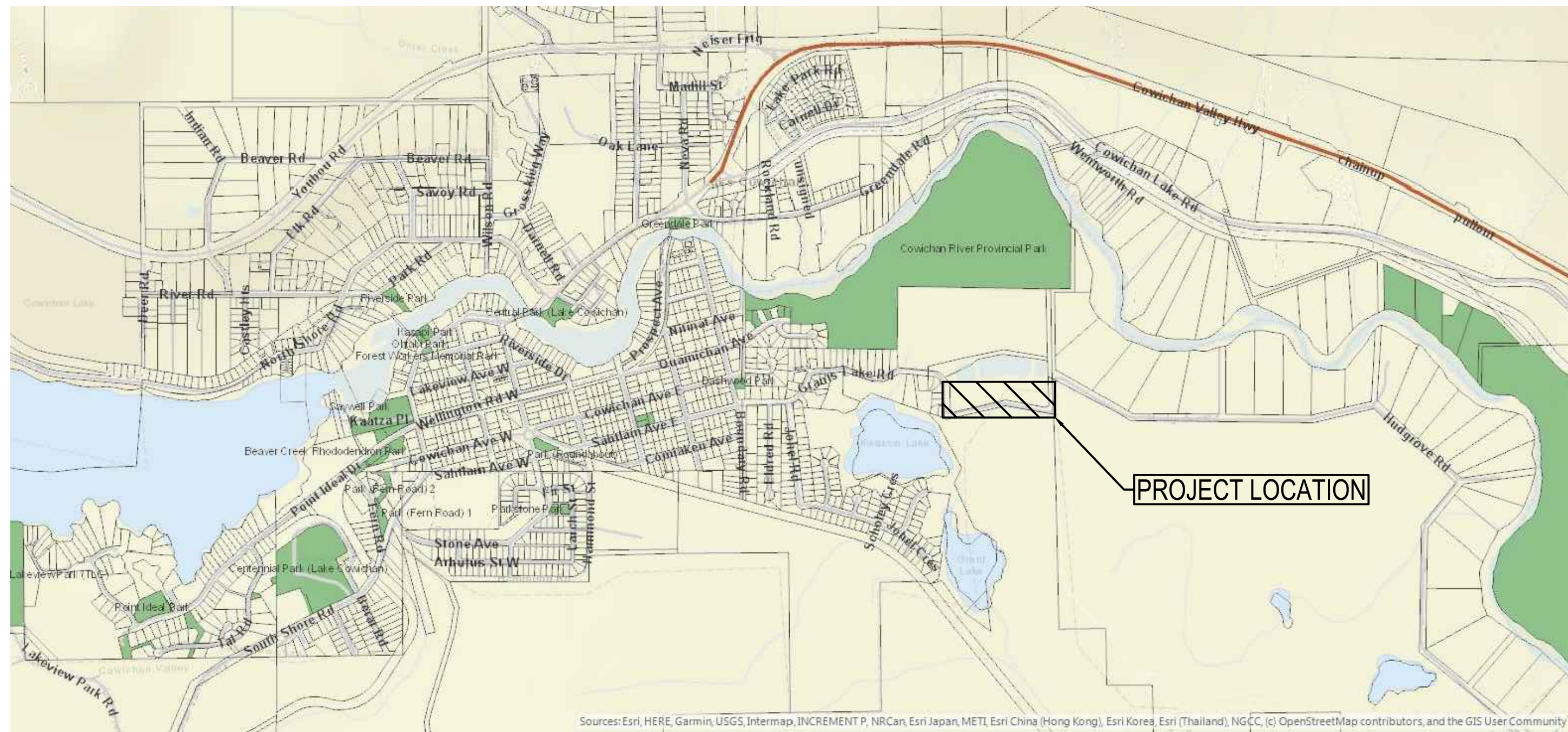
- CONTRACTOR TO SUBMIT A DEWATERING PLAN & PROCEDURE FOR APPROVAL BY THE AUTHORITY HAVING JURISDICTION PRIOR TO CONSTRUCTION.
- CONTRACTOR TO EXCAVATE TO CONFIRM LOCATION AND ELEVATION OF EXISTING UTILITIES AT ALL CROSSINGS AND CONNECTION POINTS AND CONFIRM ELEVATIONS WITH THE ENGINEER PRIOR TO CONSTRUCTION. LOCATION OF EXISTING UTILITIES SHOWN ARE APPROXIMATE ONLY AND ARE REQUIRED TO BE CONFIRMED IN THE FIELD. ANY DAMAGE OR REPAIR TO EXISTING UTILITIES SHALL BE THE FULL RESPONSIBILITY OF THE CONTRACTOR.
- AFTER CONSTRUCTION, RESTORE WORK AREAS AND ALL EXISTING FEATURES TO THEIR ORIGINAL CONDITION OR BETTER TO THE SATISFACTION OF THE TOWN OF LAKE COWICHAN (TOLC) AND PRIVATE PROPERTY OWNER.
- ALL EXCAVATION TO BE AS PER WORKSAFE BC REQUIREMENTS UNLESS OTHERWISE APPROVED IN WRITING BY A GEOTECHNICAL ENGINEER. SEE SECTIONS 20.78 - 20.95
- CONTRACTOR SHALL RETAIN AND PAY FOR THE SERVICES OF A QUALIFIED INDEPENDENT GEOTECHNICAL TESTING ENGINEER TO PROVIDE QUALITY CONTROL SERVICES DURING CONSTRUCTION AND SHALL PROVIDE THE FOLLOWING AT A MINIMUM UNLESS APPROVED IN WRITING BY A GEOTECHNICAL ENGINEER:
 - SIEVE ANALYSIS OF SANDS AND AGGREGATED SUPPLIED TO THE WORK.
 - STANDARD PROCTOR DENSITY CURVES FOR BACKFILL MATERIALS.
 - STANDARD PROCTOR DENSITY CURVES FOR APPROVED BORROW MATERIALS.
- SLOPE TO BE EXCAVATED TO FINAL GRADE WITHOUT OVER-EXCAVATION.

ENVIRONMENTAL AND TREE PROTECTION

- CONTRACTOR TO PROVIDE AN ENVIRONMENTAL PROTECTION & MANAGEMENT PLAN (TO BE APPROVED BY THE TOWN OF LAKE COWICHAN (TOLC) & McELHANNEY LTD.) PREPARED BY A QUALIFIED ENVIRONMENTAL CONSULTANT A MINIMUM OF 48 HOURS BEFORE COMMENCING CONSTRUCTION, WHICH WILL PROVIDE DETAILS AND PROCEDURES, AT A MINIMUM, OF THE FOLLOWING:
 - DISPOSAL OF WASTES.
 - DISCHARGING OF TRENCH WATER.
 - EROSION AND SEDIMENT CONTROL.
 - FUEL SPILL CONTROL INCLUDING SIZE AND TYPE OF SPILL KITS.
 - DRAINAGE, TREATMENT AND DISPOSAL OF DEWATERING, IN ACCORDANCE WITH REGULATORY AGENCY REQUIREMENTS.

LANDSCAPING

- HYDROSEED TO CONTAIN SEED, FERTILIZER AND MULCHIFIER; CONTRACTOR TO SUPPLY PROPOSED PRODUCT AND APPLICATION METHOD TO ENGINEER FOR APPROVAL.



Suite 202
5855 York Road
Duncan BC
Canada V9L 3S3
Tel 250 748 3335

DRAWING LIST

SHEET #	SHEET TITLE	REVISIONS					
		00	01	02			
	COVER SHEET/ KEYPLAN	X	X				
C00	GENERAL ARRANGEMENT PLAN		X				
C01	SITE PLAN & PROFILE	X	X				
C02	SECTIONS 0+020 TO 0+080	X	X				
C03	SECTIONS 0+100 TO 0+180	X	X				



THIS PLAN IS FOR CONSTRUCTION ONLY.
 CONTRACTOR TO SUBMIT GENERAL
 ARRANGEMENT PLAN TO ENGINEER AND
 TOLC FOR REVIEW AND APPROVAL

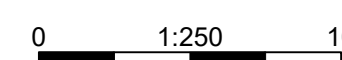
Rev	Date	Description	Drawn	Design	App'd
01	JAN 17, 2020	ISSUED FOR TENDER (100%)	CS	JJ	JJ

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INFORMATION ON EXISTING UNDERGROUND FACILITIES MAY NOT BE COMPLETE OR ACCURATE. McELHANNEY, 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 HAND DIGGING OR HYDROVAC AND ADVISE THE ENGINEER OF POTENTIAL CONFLICTS.

ORIGINAL DWG SIZE: ANSI D (22" x 34")



Suite 202
 5855 York Road
 Duncan BC
 Canada V9L 3S3
 Tel 250 748 3335

**PRELIMINARY
 NOT FOR
 CONSTRUCTION**

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 AND MAY CONTAIN ERRORS AND OMISSIONS

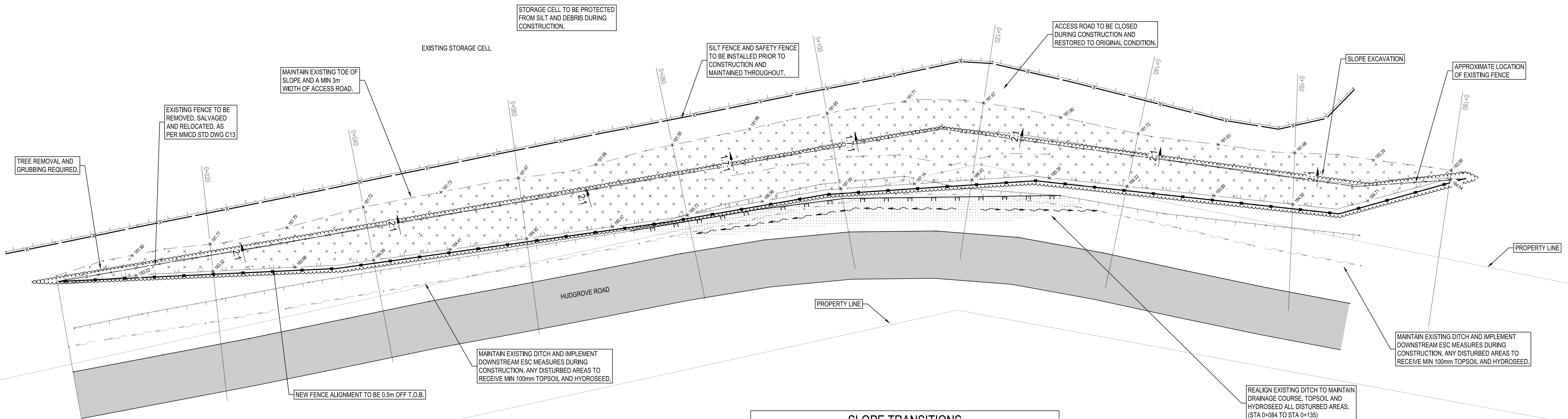
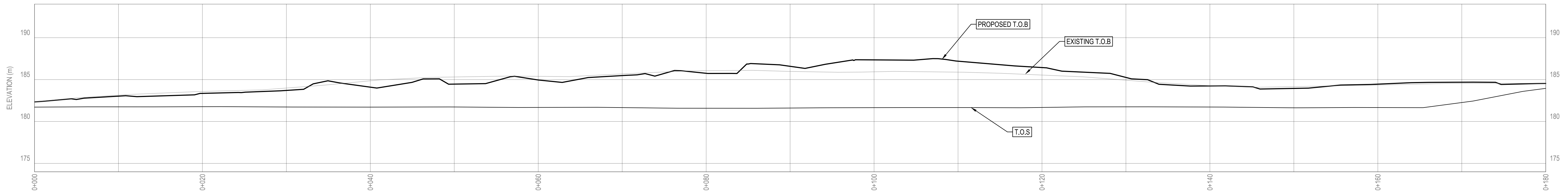
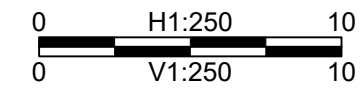
TOWN OF LAKE COWICHAN
 SEWAGE PLANT, LAKE COWICHAN, BC
**SEWAGE PLANT SLOPE REPAIR
 GENERAL ARRANGEMENT PLAN**

Town of Lake Cowichan

Drawing No.	C00
Project Number	2233-02006-00
Rev.	01

DATE: 2020-01-30 09:33 FILE: X:\23302006-00 Sewage Plant Slope Repair\103 Drawing\2020-DESIGN.dwg
 McElhanney ANS D - 2017-25-25

ELEVATION PROFILE



SLOPE TRANSITIONS	
STATION	SLOPE
0+000 TO 0+073	2:1
0+073 TO 0+083	TRANSITION FROM 2:1 TO 1.7:1
0+083 TO 0+105	1.7:1
0+105 TO 0+115	TRANSITION FROM 1.7:1 TO 2:1
0+115 TO 0+180	2:1

LEGEND

	EXISTING TOP OF BANK		PROPOSED TOP OF BANK
	EXISTING BOTTOM OF BANK		PROPOSED BOTTOM OF BANK
	EXISTING DITCH (CL)		PROPOSED DITCH (CL)
	EXISTING EDGE OF PAVEMENT		PROPOSED EDGE OF PAVEMENT
	MIN 100mm TOPSOIL & HYDROSEED		HYDROSEED
	TREE REMOVAL AREA		

Rev	Date	Description	Drawn	Design	App'd
01	JAN 17, 2020	ISSUED FOR TENDER (100%)	CS	JL	JL
00	DEC 19, 2019	PRELIMINARY (50%) SUBMISSION	CS	JL	JL

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ORIGINAL DWG SIZE: ANSI D (22" x 34")

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Tel 250 748 3335

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TOWN OF LAKE COWICHAN
SEWAGE PLANT, LAKE COWICHAN, BC

**SEWAGE PLANT SLOPE REPAIR
SITE PLAN & PROFILE**

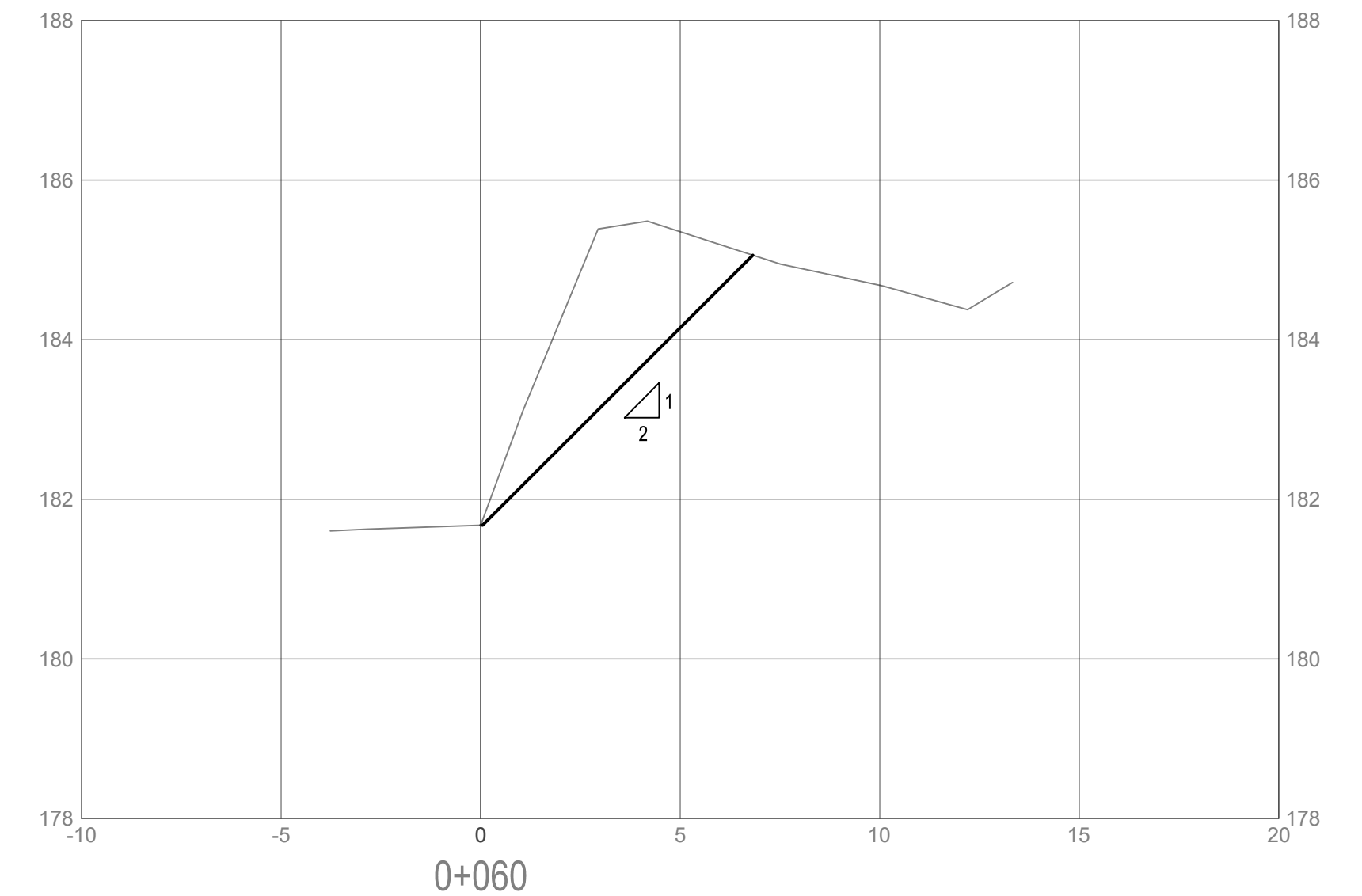
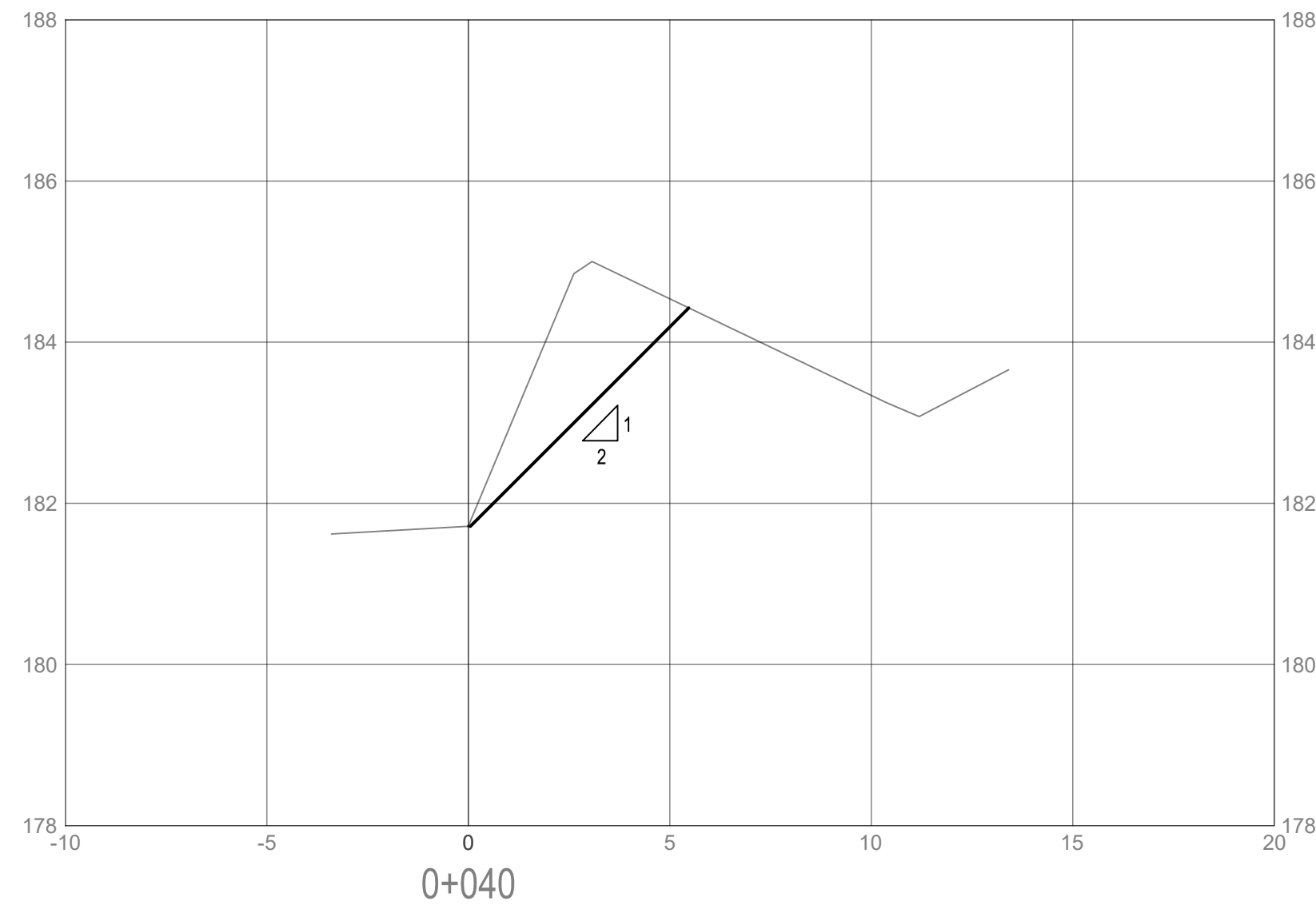
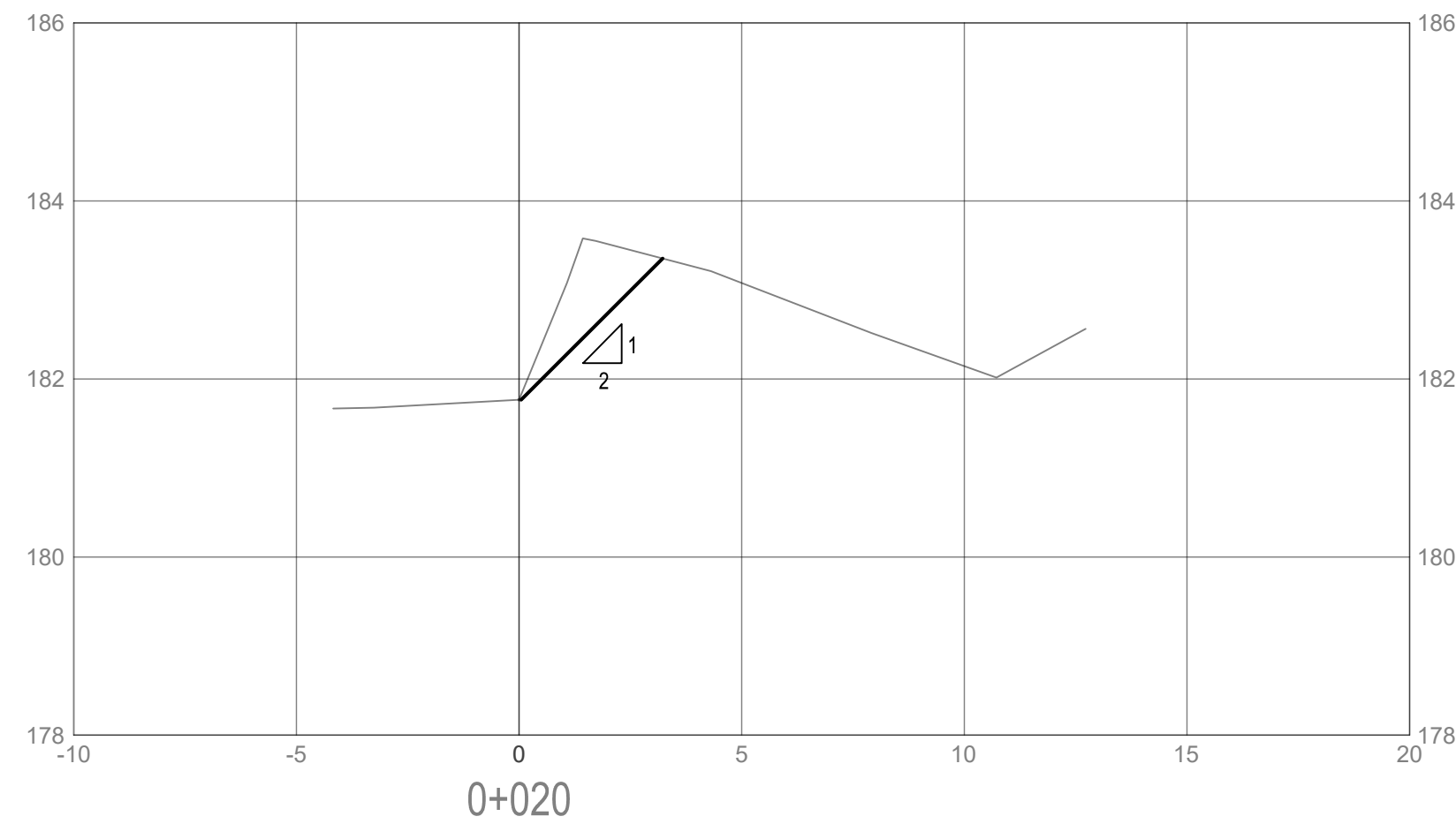
Town of Lake Cowichan

Drawing No. **C01**

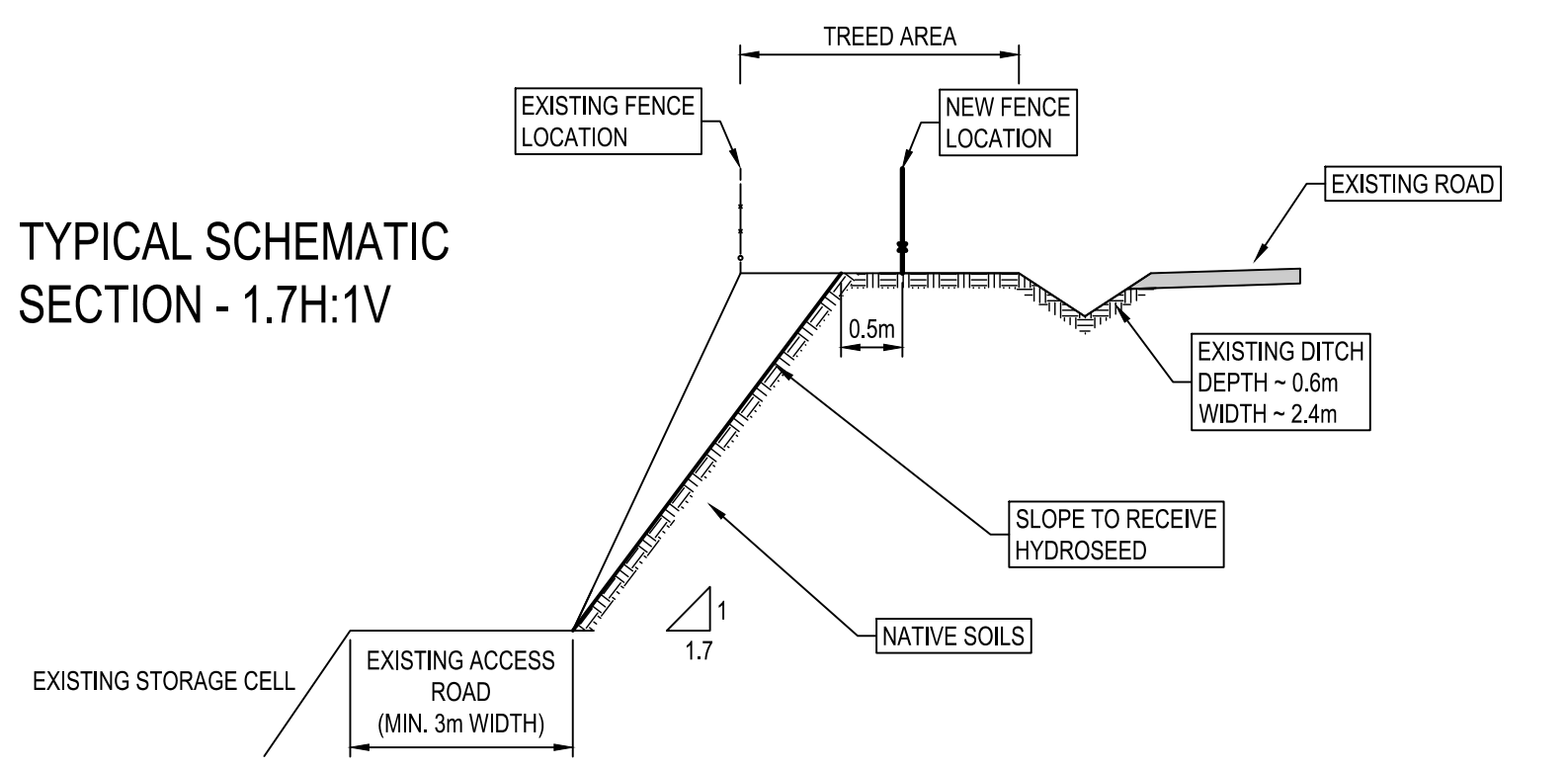
Project Number 2233-02006-00 Rev. 01

COPY ALL PRINTS BEARING PREVIOUS REVISIONS

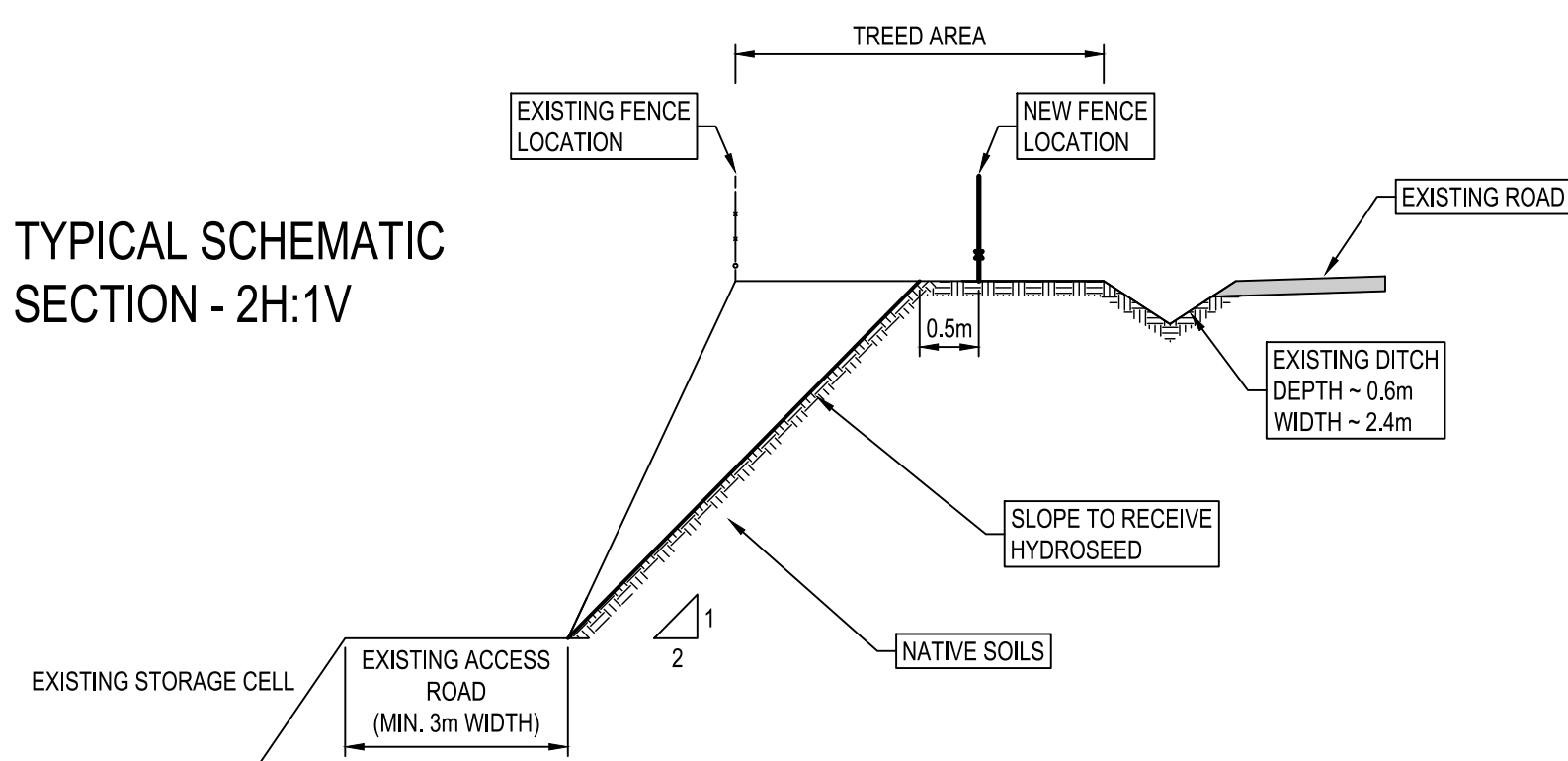
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TYPICAL SCHEMATIC SECTION - 1.7H:1V

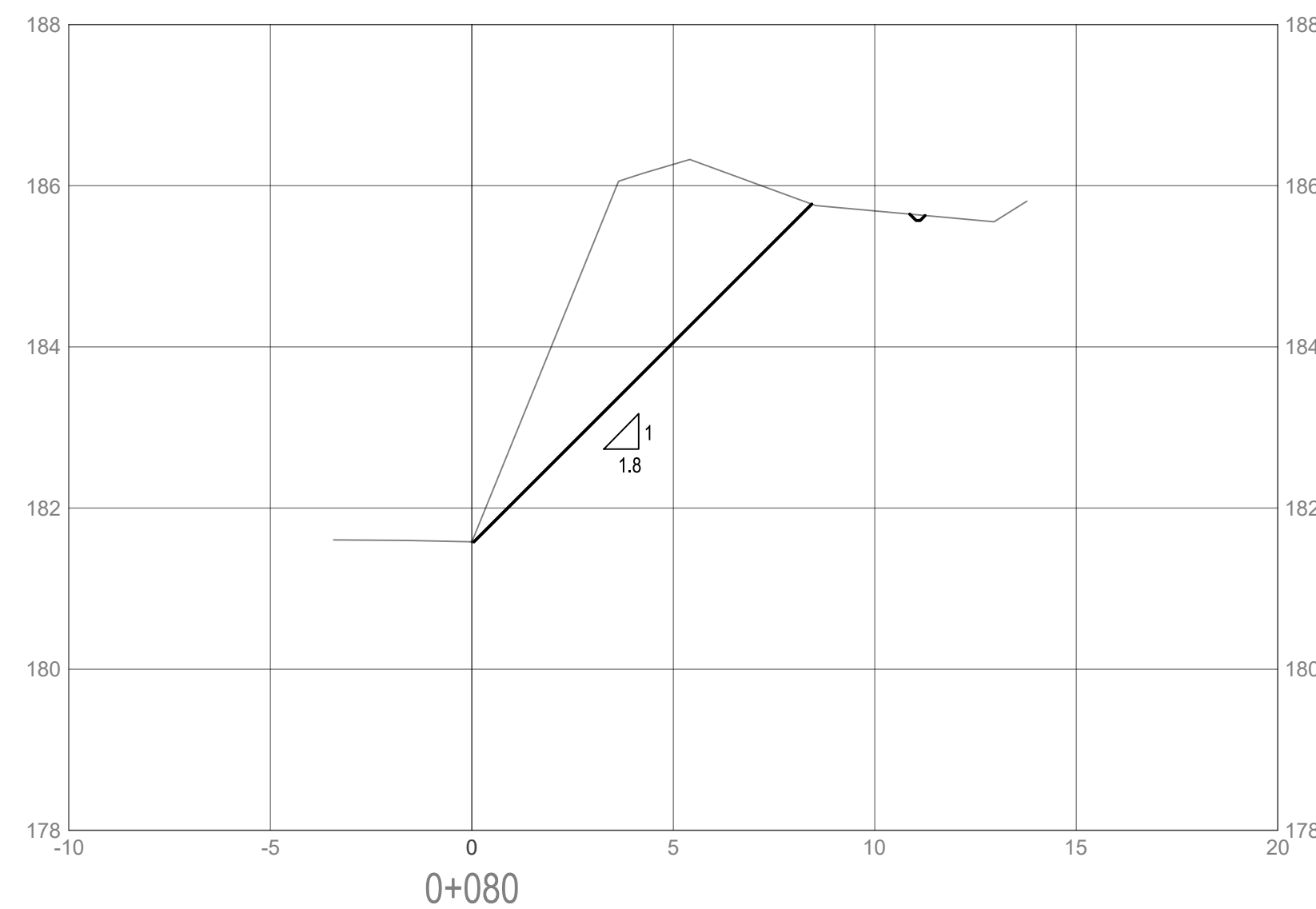


TYPICAL SCHEMATIC SECTION - 2H:1V



SLOPE TO BE EXCAVATED TO FINAL GRADE (NO OVER-EXCAVATION). ALL SLOPES STEEPER THAN 2:1 WILL NEED TO BE INSPECTED BY GEOTECHNICAL ENGINEER DURING EXCAVATION.

SIZE AND TYPE OF EQUIPMENT TO BE UTILIZED ON EXISTING ACCESS ROAD TO BE SUBMITTED TO THE ENGINEER BY THE CONTRACTOR FOR REVIEW AND APPROVAL PRIOR TO CONSTRUCTION.



LEGEND
 EXISTING (dashed line)
 PROPOSED (solid line)
 FINISHED GROUND (solid line with hatching)
 NATIVE SOILS (hatched area)

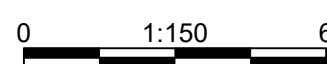
Rev	Date	Description	Drawn	Design	App'd
01	JAN 17, 2020	ISSUED FOR TENDER (100%)	CS	JJ	JJ
00	DEC 19, 2019	PRELIMINARY (50%) SUBMISSION	CS	JJ	JJ

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ORIGINAL DWG SIZE: ANSI D (22" x 34")



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TOWN OF LAKE COWICHAN
 SEWAGE PLANT, LAKE COWICHAN, BC
SEWAGE PLANT SLOPE REPAIR
SECTIONS 0+020 TO 0+080

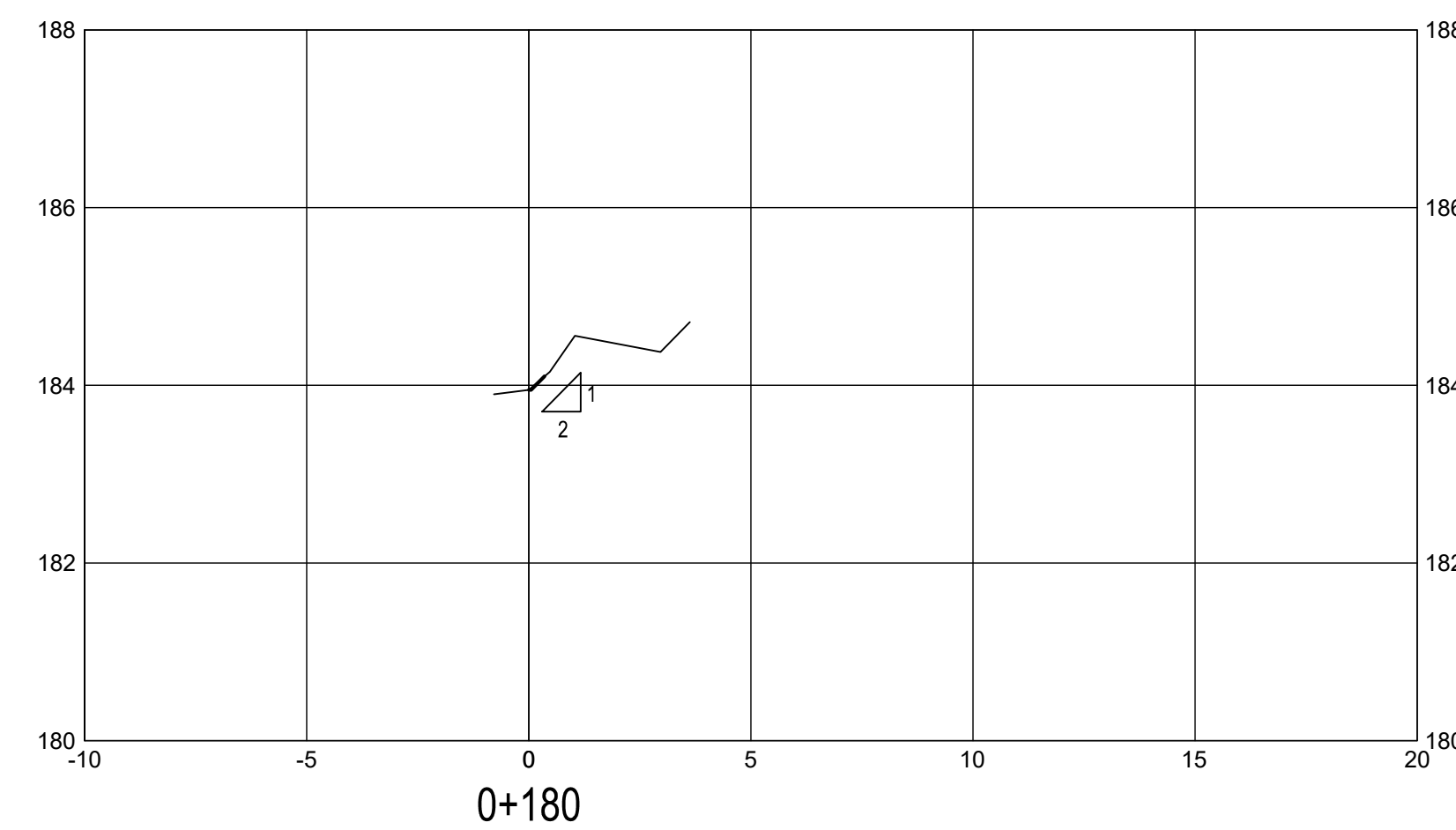
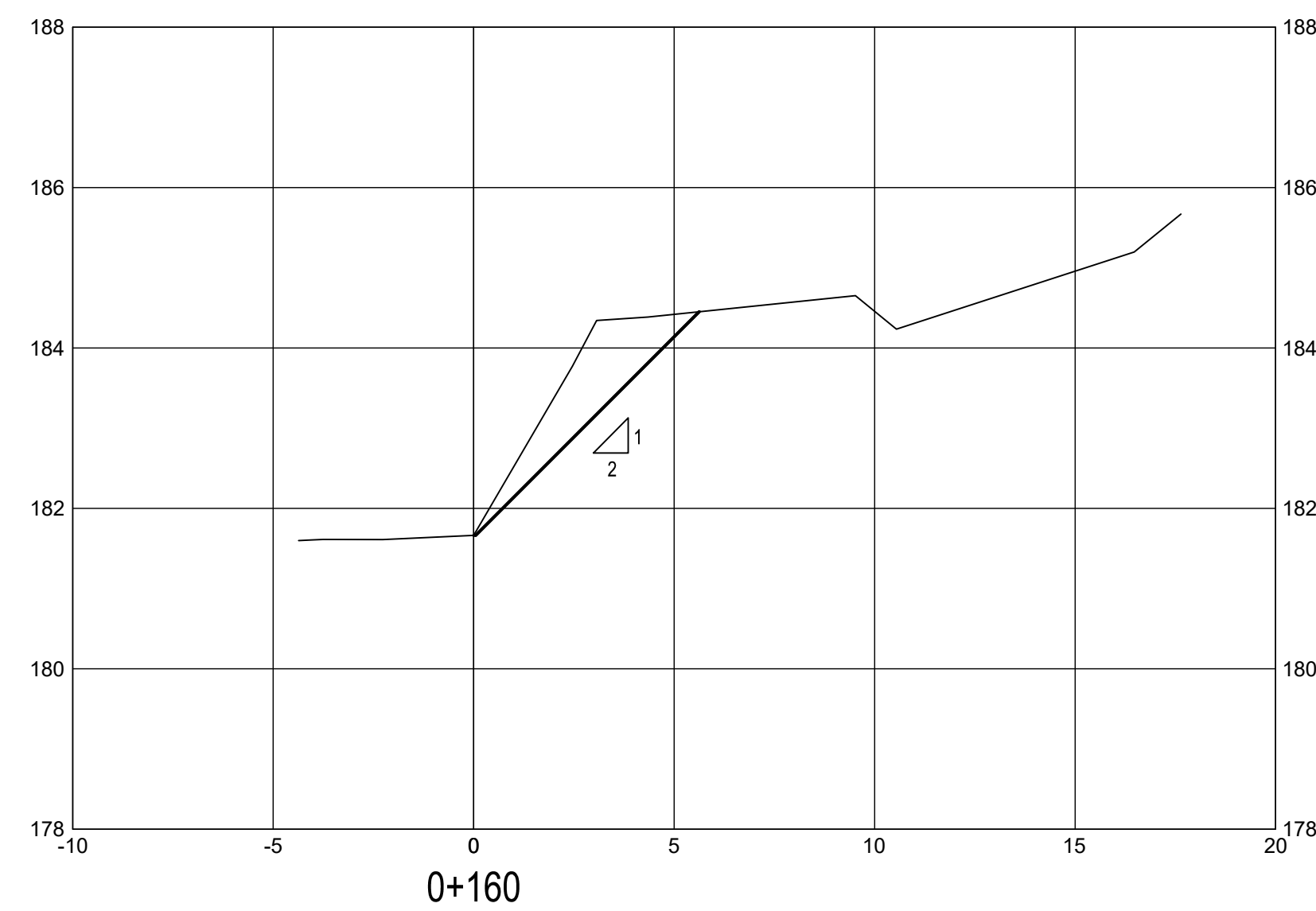
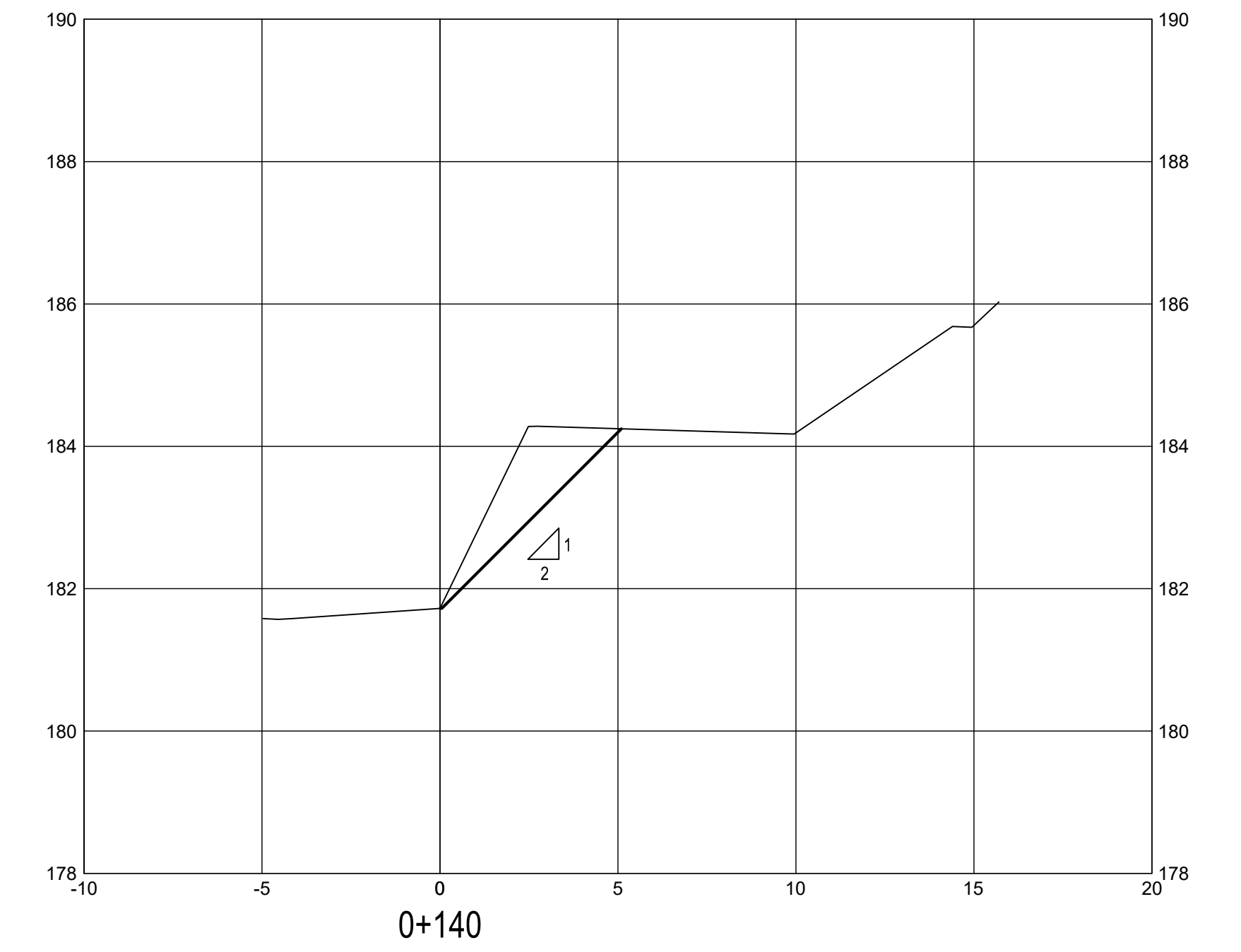
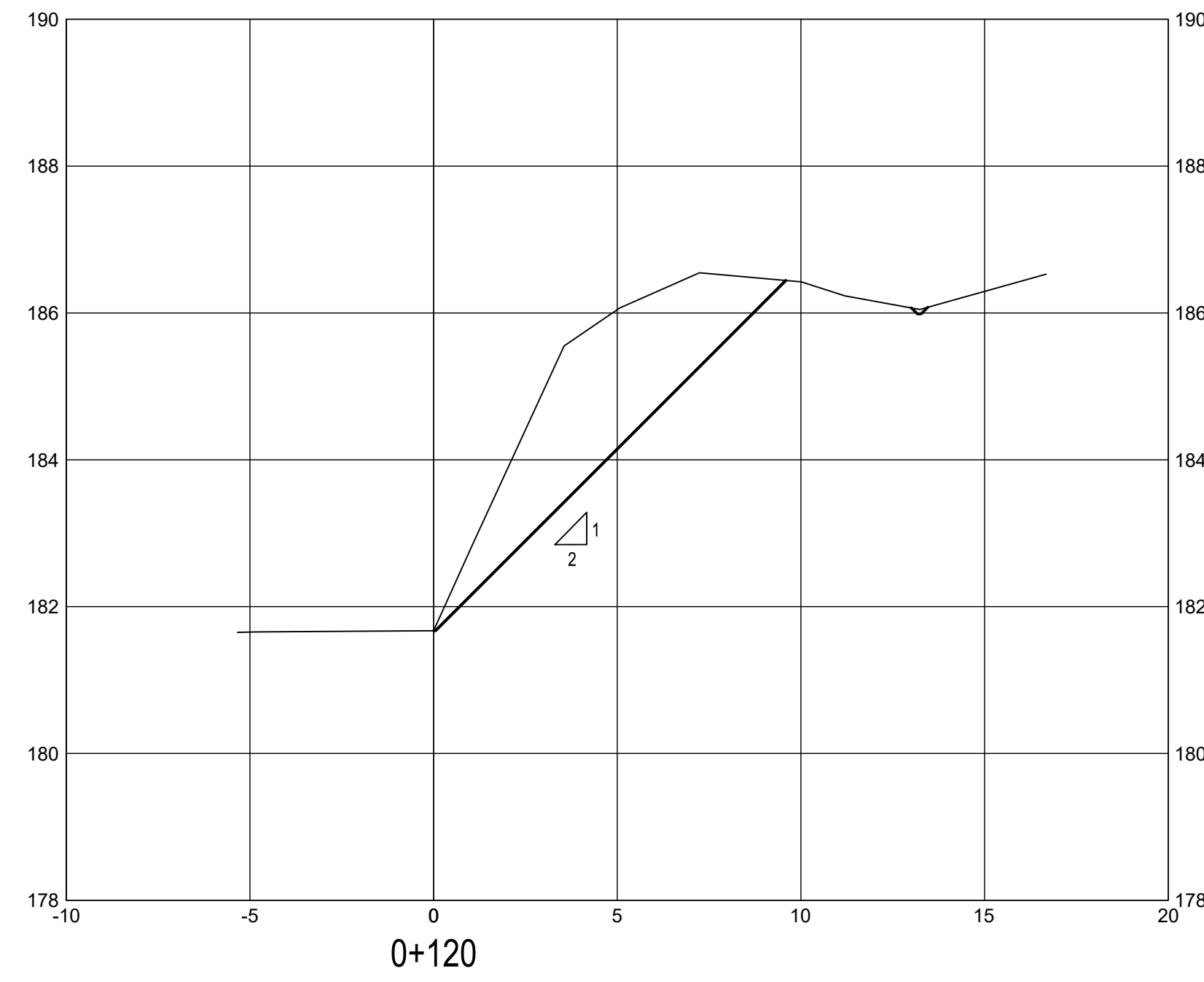
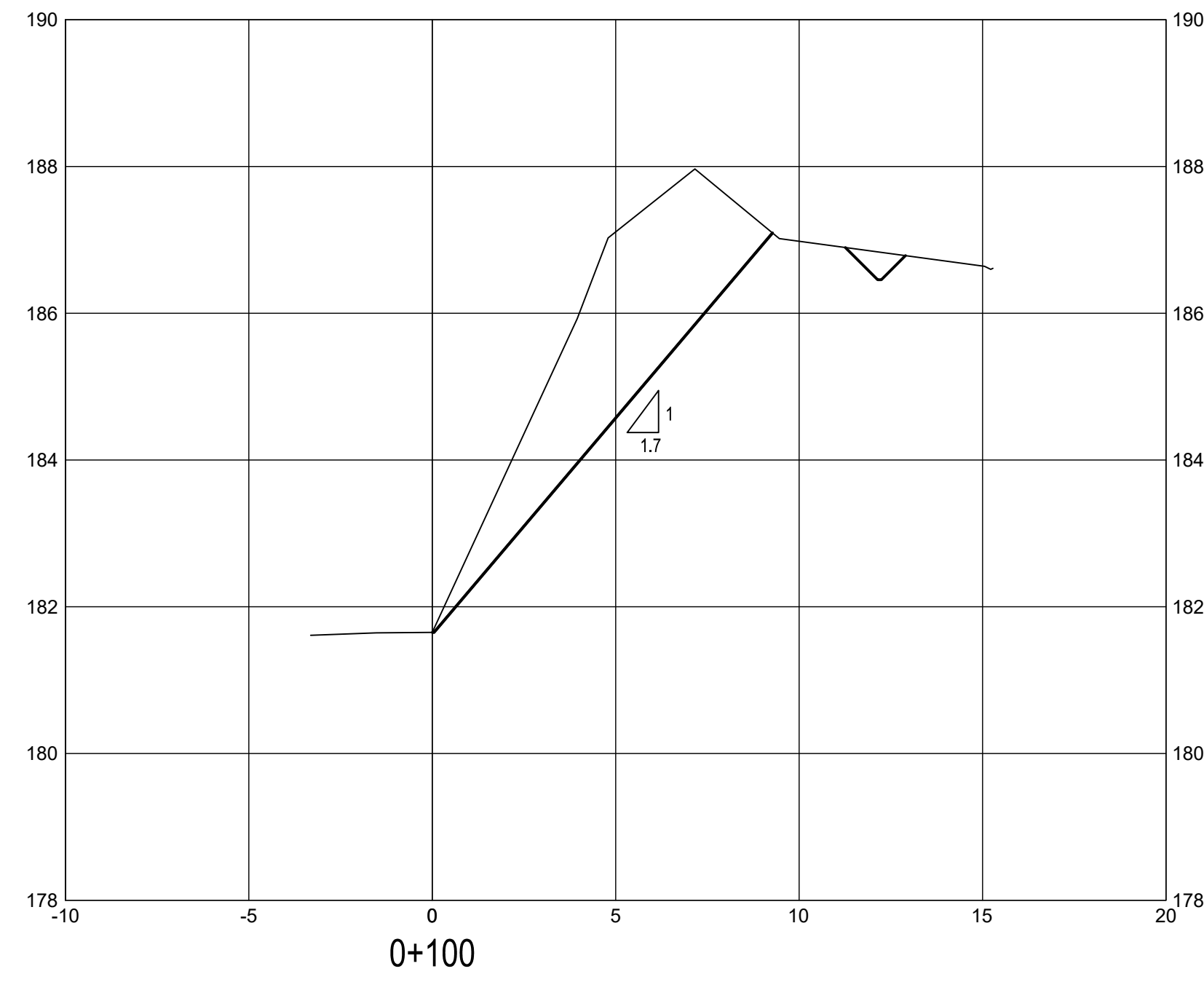
Town of Lake Cowichan

Drawing No.
C02

Project Number
 2233-02006-00

Rev.
 01

CHECKED BY ALL PRINTS BEARING PREVIOUS REVISION



LEGEND
 EXISTING PROPOSED FINISHED GROUND

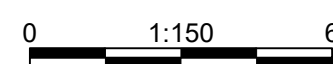
Rev	Date	Description	Drawn	Design	App'd
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TOWN OF LAKE COWICHAN
 SEWAGE PLANT, LAKE COWICHAN, BC
SEWAGE PLANT SLOPE REPAIR
SECTIONS 0+100 TO 0+180

Town of Lake Cowichan

Drawing No.	C03
Project Number	2233-02006-00
Rev.	01