



Regional District of Central Kootenay

Marblehead Transfer Station Upgrades

Reference: PRJ#26008

**MASTER MUNICIPAL CONSTRUCTION DOCUMENTS
UNIT PRICE CONTRACT**

MASTER MUNICIPAL CONSTRUCTION DOCUMENTS - UNIT PRICE CONTRACT
Regional District of Central Kootenay
Marblehead Transfer Station Upgrades
Reference: PRJ#26008

CONTENTS

The complete Regional District of Central Kootenay **Unit Price Contract Documents** are based on the Master Municipal Construction Documents and consist of the following parts:

1. Documents provided herein:

- Invitation to Tenderers
- Instructions to Tenderers, Part I
- Form of Tender
 - Appendix 1 - Schedule of Quantities and Prices
 - Appendix 2 - Preliminary Construction Schedule
 - Appendix 3 - Experience of Superintendent
 - Appendix 4 - Comparable Work Experience
 - Appendix 5 - Subcontractors
- Form of Agreement
 - Schedule 1 - Schedule of Contract Documents
 - Schedule 2 - List of Drawings
 - Schedule 3 - Maintenance Period Requirements
- Supplementary General Conditions
- Supplementary Specifications
- Contract Drawings

2. Documents that must be obtained by the Tenderer / Contractor:

- **Master Municipal Construction Documents (MMCD), Volume II, 2019**
(Available at MMCDA website mmcd.net)
 - Instructions to Tenderers - Part II
 - General Conditions
 - Standard Specifications
 - Standard Detail Drawings
- **MMCD 2019 Edition Supplemental Updates**
(document corrections prepared by MMCDA)
(Available at MMCDA website mmcd.net)

INVITATION TO TENDERERS

Owner: *Regional District of Central Kootenay*
(NAME OF OWNER)

Contract: *Marblehead Transfer Station Upgrades*
(TITLE OF CONTRACT)

Reference No. PRJ#26008
(OWNER'S CONTRACT REFERENCE NO.)

The Owner invites tenders for: Construction of transfer station upgrades at the Marblehead Transfer Station facility, including:

- Remove existing lock block wall and salvage reusable blocks.
- Relocate owner-supplied lock blocks from Slocan Transfer Station.
- Clear and re-establish existing surface water ditch.
- Install new surface water ditching.
- Excavate, prepare, and compact subgrade and foundation ground.
- Supply and install 75 mm minus pit run gravel.
- Supply and install geotextile and pipe (perforated and solid) for drainage system.
- Supply, install, and compact 19 mm crushed gravel.
- Supply and install 25-75 mm drainage gravel.
- Supply and install 8oz non-woven geotextile.
- Install owner-supplied lock blocks for Z-wall.
- Supply, install, and tension uniaxial geogrid for Z-wall.
- Supply and install safety rails and gate system for Z-wall.
- Supply, place, and compact structural fill.
- Construct reinforced concrete pads, including base gravels
- Construct gravel pads.
- Finish exposed edges by means of chamfering.

Contract Documents are available during normal business hours at: Tender Documents, Tender Drawings and Reference Material for this project will be distributed electronically in digital (PDF) format through the RDCK website at www.rdck.ca and the BC Bid tendering website at <http://www.bcbid.gov.bc.ca/>.

For personal hard copies, it is the responsibility of the Tenderer to download the PDF and print as required. It is the Tenderer's sole responsibility to check for and obtain any addenda issued prior to the closure of the tender period.

Schedule:	Issue Date:	May 4, 2026
	Non-Mandatory Site Visit:	May 11, 2026 at 10:30am (PT)
	Deadline for Questions:	May 27, 2026
	Anticipated Last Day to Issue Addenda:	May 28, 2026
	Tender Closing Date & Time:	May 29, 2026 at 2:00pm (PT)
	Anticipated Notice of Award:	June 22, 2026

Tender Submission: Email submission to tenders@rdck.bc.ca

**NAME OF OWNER'S
REPRESENTATIVE**

For more information, please contact:

Scott Garthwaite
Sperling Hansen Associates
sgarthwaite@sperlinghansen.com
604-803-7120

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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: Regional District of Central Kootenay

Contract: Marblehead Transfer Station Upgrades

Reference No. PRJ#26008

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:

Construction of transfer station upgrades at the Marblehead Transfer Station facility, including:

- Remove existing lock block wall and salvage reusable blocks.
- Relocate owner-supplied lock blocks from Slocan Transfer Station.
- Clear and re-establish existing surface water ditch.
- Install new surface water ditching.
- Excavate, prepare, and compact subgrade and foundation ground.
- Supply and install 75 mm minus pit run gravel.
- Supply and install geotextile and pipe (perforated and solid) for drainage system.
- Supply, install, and compact 19 mm crushed gravel.
- Supply and install 25-75 mm drainage gravel.
- Supply and install 8oz non-woven geotextile.
- Install owner-supplied lock blocks for Z-wall.
- Supply, install, and tension uniaxial geogrid for Z-wall.
- Supply and install safety rails and gate system for Z-wall.
- Supply, place, and compact structural fill.
- Construct reinforced concrete pads, including base gravels
- Construct gravel pads.
- Finish exposed edges by means of chamfering.

1.2 Direct all inquiries regarding the *Contract* in writing to:

Sperling Hansen Scott Garthwaite

Associates: sgarthwaite@sperlinghansen.com

604-803-7120

Regional District Jeannine Bradley

of Central jbradley@rdck.bc.ca

Kootenay: 250-551-7367

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 through the BC Bid submission portal or by email to tenders@rdck.bc.ca, and must be received by:

Regional District of Central Kootenay

on or before:

Tender Closing Time: 2:00 pm local time (PT)

Tender Closing Date: May 29, 2026

- 3.2 Late tenders will not be accepted or considered, and will not be opened.
- 3.3 Tenders will be opened privately at 2:01 pm. Unofficial tender results will be made available on the RDCK website within 3 business days after opening.
- 3.4 Failure by the tenderer to acknowledge all addenda may be cause for their tender to be rejected.

4.0 Additional Instructions to Tenderers

3.5 Questions will not be accepted or answered 48 prior to the closing date and time.

4.1 IT 15.5 from the MMCD Supplemental Update 2022-04-07 is considered in full force and effect for this tender as follows:

IT 15.5 Adjustment When All Tenders Over Budget

Subject to any express provision of these Instructions to Tenderers, if the *Tender Prices* for all *Tenders* exceed the amount that the *Owner* has budgeted for the *Work*, then the *Owner* may, at its election and in its sole and absolute discretion:

(1) Seek approval for an increase in the budget; or
Terminate the process under this *Tender*, and enter into negotiations with the *Tenderer* that, but for its over-budget *Tender Price*, would have been recommended as the successful *Tenderer* under these Instructions to Tenderers for the purpose of identifying scope or other amendments to the Contract to achieve the budget.

4.2

Non-Mandatory Pre-Tender Meeting

A non-mandatory pre-tender site meeting will be held at 13825 Highway 31, Marblehead, V0G 1N0 on May 11th, 2026 at 10:30 AM (PT). Interested parties are asked to RSVP via email to jbradley@rdck.bc.ca. Attendees must wear appropriate personal protective equipment (PPE) including steel toe footwear and high visibility clothing.

4.3

Construction Schedule

Milestone Dates for the project are listed in the Form of Tender Appendix 2 - Preliminary Construction Schedule.

MILESTONE DATES:

Construction Commencement:	July 13, 2026
Substantial Performance:	September 4, 2026
Total Performance:	September 18, 2026

The Site is open to the public on Wednesdays and Saturdays from 10:00 a.m. to 2:00 p.m. The Contractor shall maintain safe public access during these hours and coordinate operations to minimize disruption.

Construction activities may occur on any day of the week and shall be between 07:00 and 19:00, including public hours. No Work shall be performed on statutory holidays unless prior written approval is obtained from the Contract Administrator.

4.4

Construction Site Surface Features

The existence and location of all surface features which may be encountered during construction are not guaranteed to be shown on the Drawings. Notwithstanding any other provisions of this Contract,

the *Contractor* shall be solely responsible for confirming the existence, extent and location of surface features either shown on the Drawings or not, and the effect they may have on the *Work*. Surface features to be confirmed shall include but not limited to retaining walls, trees, shrubbery, ornamental features, signs, fences, irrigation items and utility boxes. Unless specifically noted otherwise, no additional compensation will be made for protection, restoration or removal of surface features affected by the *Work*, or for the effect they may have upon the *Work* itself.

4.5 **Survey Layout and Digital Base Drawing**

Survey layout for all Work shall be the Contractor's responsibility. The Contract Administrator will provide a digital base plan in AutoCAD format, including survey control points and bench marks. The Contractor's surveyor shall locate, confirm and protect control points and preserve permanent reference points during construction, including property pins and survey monuments.

4.6 **Tender Process**

Addendums (if any) will be posted on BC Bid and the RDCK website. It is the tenderer's (Plan Taker's) sole responsibility to acknowledge all addenda.

No questions will be accepted or answered within 48 hours of tender closing date and time.

Prospective Tenderers will be provided with the Schedule of Quantities in Excel format with no formulae present. It will be the proponent's responsibility to insert formulae and ensure spreadsheet is complete and accurate.

4.7 **Freedom of Information and Protection of Privacy Act**

Contractor acknowledges that the Owner is subject to the Freedom of Information and Protection of Privacy Act (British Columbia) and that this contract (including its schedules) and any records provided to the Owner may be subject to public disclosure under that Act.

4.8 **Limited Liability**

The Owner's total liability to any Tenderer for any and all breaches by the Owner as a result of the Contract 'A' formed between the Owner and the Tenderer, upon the submission of a tender, shall be limited to the lesser of \$1,000.00 and the Tenderer's reasonable costs of preparing the tender and, without limiting the foregoing, the Owner shall have no liability whatsoever to compensate the Tenderer for any profits it might have earned had the Owner not breached the contract. This clause forms a term of every such Contract 'A'.

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: Regional District of Central Kootenay
Contract: Marblehead Transfer Station Upgrades
Reference No. PRJ#26008

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 September 4, 2026; and

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.

FORM OF TENDER

- 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 45 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)



**APPENDIX 1
REGIONAL DISTRICT OF CENTRAL KOOTENAY - MARBLEHEAD TRANSFER STATION UPGRADES**



SCHEDULE OF QUANTITIES AND UNIT PRICES
(See paragraph 5.3.1 of the Instructions to Tender - Part II)
(All prices and Quotations including the contract Price shall include all Taxes, except GST)

Summary Sheet

Division	Title	Amount
01	General Requirements	
03	Concrete	
05	Metals	
31	Earthworks	
32	Roads and Site Improvements	
33	Utilities	
	Total, excluding GST	
	GST 5%	
	Total including GST	

**APPENDIX 1
REGIONAL DISTRICT OF CENTRAL KOOTENAY - MARBLEHEAD TRANSFER STATION UPGRADES**

SCHEDULE OF QUANTITIES AND UNIT PRICES
(See paragraph 5.3.1 of the Instructions to Tender - Part II)
(All prices and Quotations including the contract Price shall include all Taxes, except GST)

Item #	Payment Section Paragraph		Item Description	Unit	Quantity	Unit Price \$	Amount \$
Division 01 - General Requirements							
01.01	01 53 01	SSpec	Mobilization / Demobilization	LS	1		
01.02	01 53 01	SSpec	Performance, Labour and Material Bonds	LS	1		
01.03	01 53 01	SSpec	Insurance	LS	1		
01.04	01 57 01S	SSpec	Health and Safety	LS	1		
01.05	01 33 01	SSpec	Permitting, Survey, Materials Testing, Submittals and Record Drawings	LS	1		
Sub-Total Division 01							
Division 03 - Concrete							
03.01	03 30 20	1.4.1, 1.4.5	Construct Lower Reinforced Concrete Slab c/w Granular Bases, Reinforcement and Expansion Joints	m ²	24		
03.02	03 30 20	1.4.1, 1.4.5	Construct Upper Reinforced Concrete Slab c/w Granular Bases, Reinforcement and Expansion Joints	m ²	17		
03.03	03 40 01S	1.4.3	Relocate Owner-Supplied Lock Blocks from Slocan Transfer Station to Project Site				
			a) 1.22m x 0.61m x 0.61m	each	47		
			b) 0.61m x 0.61m x 0.61m	each	4		
3.04	03 40 01S	1.4.3	Place Owner Supplied Lock Blocks for Transfer Station Z-Wall c/w 450 mm Thick Granular Foundation				
			a) 1.22m x 0.61m x 0.61m	each	69		
			b) 0.61m x 0.61m x 0.61m	each	6		
Sub-Total Division 03							
Division 05 - Metals							
05.01	05 50 00	SSpec	Supply and Install Railings and Gates (Stainless Steel or Hot-Dip Galvanized)	LS	1		
Sub-Total Division 05							

**APPENDIX 1
REGIONAL DISTRICT OF CENTRAL KOOTENAY - MARBLEHEAD TRANSFER STATION UPGRADES**

SCHEDULE OF QUANTITIES AND UNIT PRICES

(See paragraph 5.3.1 of the Instructions to Tender - Part II)

(All prices and Quotations including the contract Price shall include all Taxes, except GST)

Item #	Payment Section Paragraph	Item Description	Unit	Quantity	Unit Price \$	Amount \$
Division 31 - Earthworks						
31.01	31 11 01	SSpec General Site Clean Up - Includes Removal of Existing Lock Blocks and Stockpiling Onsite for Re-Use	LS	1		
31.02	31 23 01	1.10.8 Surface Water Ditch				
		a) Clear and re-establish existing surface water ditch	m	50		
		b) Install new surface water ditch	m	40		
31.03	31 23 02	SSpec Supply and Install Minimum 250mm Thick 25-75 mm Drain Rock Behind Z-Wall for Pore Pressure Relief - Includes 100 mm Perforated SCH80 PVC Z-Wall Drainpipe c/w Cleanouts	m	17		
31.04	31 24 13	1.8.6s Common Excavation to Subgrade - Stockpile Onsite for Re-Use and Prepare and Compact Subgrade				
		a) Transfer Station Z-Wall	m ³	440		
31.05	31 24 13	1.8.7s Supply, Place, and Compact Clean Structural Fill				
		a) Transfer Station Z-Wall	m ³	300		
31.06	31 32 19	1.6.1 Supply and Install Uniaxial Geogrid for Z-Wall - Geogrid to be Post-Tensioned as per Contract Drawings	m ²	260		
Sub-Total Division 31						

**APPENDIX 1
REGIONAL DISTRICT OF CENTRAL KOOTENAY - MARBLEHEAD TRANSFER STATION UPGRADES**

SCHEDULE OF QUANTITIES AND UNIT PRICES
(See paragraph 5.3.1 of the Instructions to Tender - Part II)
(All prices and Quotations including the contract Price shall include all Taxes, except GST)

Item #	Payment Section Paragraph		Item Description	Unit	Quantity	Unit Price \$	Amount \$
	Division 32 - Roads and Site Improvements						
32.02	32 11 16.1	1.4.3	Granular Sub-Base - 75 mm Minus Pit Run Gravel, 300 mm Average Thickness				
			a) Transfer Station Access System	m ³	80		
32.03	32 11 23	1.4.2	Granular Base - 19 mm Minus Crush Gravel, 100 mm Thickness				
			a) Transfer Station Access System	m ²	480		
						Sub-Total Division 32	
	Division 33 - Utilities						
33.01	33 42 13	1.5.1, 1.5.2	Supply and Install 100mm Solid SCH80 PVC Drain Pipe	m	17		
						Sub-Total Division 33	
						Grand Total	

Marblehead Transfer Station Upgrades

(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 _____

(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: Marblehead Transfer Station Upgrades

Reference No. PRJ#26008

BETWEEN:

The Regional District of Central Kootenay

(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 September 4, 2026 subject to 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 email, or by pre-paid registered mail to the addresses as set out below:

The *Owner*:

Regional District of Central Kootenay

202 Lakeside Drive

Nelson, BC V1L 6B9

Attention: Jeannine Bradley

Email: jbradley@rdck.bc.ca

The *Contractor*:

Attention: _____

Email: _____

The Contract Administrator:

Sperling Hansen Associates

1332 McGill Rd

Kamloops BC, V2C 6N6

Attention: Mr. Scott Garthwaite

Email: sgarthwaite@sperlinghansen.com

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:

Regional District of Central Kootenay

(FULL LEGAL NAME OF CORPORATION, PARTNERSHIP OR INDIVIDUAL)

(AUTHORIZED SIGNATORY)

(AUTHORIZED SIGNATORY)

(COMPLETE LISTING OF ALL DRAWINGS, PLANS AND SKETCHES WHICH ARE TO FORM A PART OF THE CONTRACT,
OTHER THAN STANDARD DETAIL DRAWINGS AND SUPPLEMENTARY STANDARD DETAIL DRAWINGS.)

Schedule 2 List of Contract Drawings

TITLE	DRAWING NO.	DATE	REVISION NO.
COVER SHEET AND LIST OF DRAWINGS	26022-000	5/01/2026	C
EXISTING TOPOGRAPHY JAN 15, 2026 & SITE FEATURES	26022-001	5/01/2026	C
TRANSFER STATION EXCAVATION SUBGRADE	26022-100	5/01/2026	C
TRANSFER STATION EXCAVATION SUBGRADE EARTHWORKS	26022-101	5/01/2026	C
TRANSFER STATION STRUCTURAL BACKFILL EARTHWORKS	26022-102	5/01/2026	C
SECTION A-A', B-B' & DETAILS	26022-103	5/01/2026	C
LOCK BLOCK WALL PLAN VIEW AND SPECIFICATION	26022-104	5/01/2026	C
RAILINGS AND BI-FOLD GATE DETAIL	26022-105	5/01/2026	C
TRANSFER STATION DESIGN FINAL GRADE	26022-106	5/01/2026	C

Schedule 3 Maintenance Period Requirements

1. The *Contractor* shall not be responsible for the repair of any third-party damage to the works provided the *Contractor* has complied with all terms and conditions of the contract that may have prevented the subject damage.
2. The *Contractor* must, within 10 working days after the date of written notification, repair any defects or deficiencies that appear prior to the expiration of the *Maintenance Period*.
3. The *Contractor* shall employ only bondable *Contractors* to carry out and complete work within statutory rights of way.
4. The *Contract Administrator* shall schedule with the *Contractor* a site visit prior to the expiry date of the *Maintenance Period* to inspect the works and determine what defects and deficiencies, if any, exist. Upon completion of the site visit the *Contract Administrator* will notify the *Contractor*, in writing, prior to the expiry date of the *Maintenance Period* what defects and deficiencies, if any, exist.
5. The *Contractor* shall repair all defects and deficiencies identified during the site visit no later than seven days prior to the expiry date of the *Maintenance Period*.
6. Any costs incurred by the *Owner* to complete the repairs, including administration costs, or any penalties in accordance with the Contract Documents, shall be deducted from the security held by the *Owner*. The balance of the security will be returned to the *Contractor* within 10 days of the date of expiration of the *Maintenance Period*. If there is insufficient money on deposit with the *Owner* by reason of the security deposit, then the *Contractor* will pay such *deficiency to the Owner immediately upon receipt of an invoice from the Owner*.

SUPPLEMENTARY GENERAL CONDITIONS

The General Conditions for this project are contained in the Master Municipal Construction Documents (MMCD) 2019 Edition, except as specified in the following Supplementary General Conditions and MMCD Supplemental Updates (as specified in Schedule 1 of the Form of Agreement). These Supplementary Conditions take precedence over the applicable MMCD General Conditions.

Owner: Regional District of Central Kootenay
Contract: Marblehead Transfer Station Upgrades
Reference No.: PRJ#26008

SGC 27. DEFINITIONS

SGC 27.1 Variance Threshold Percentage

- 1) GC 1.76.1 is revised to read as follows:

Variance Threshold Percentage means a **variance of 25%** between the quantity of a unit price item actually constructed or provided by the time of Total Performance and the quantity shown on the tendered Schedule of Quantities and Prices for that item.

SGC 28. BONDING AND INSURANCE REQUIREMENTS

SGC 28.1 Bonding

- 1) The Contractor may provide, in lieu of the specified Performance and Labour and Materials Bonds, security for performance of the Contract in the form of a certified cheque or bank draft for 10% of the Contract Price and:
 - a) The certified cheque or bank draft shall be in favour of the Regional District of Central Kootenay;
 - b) The certified cheque or bank draft will be deposited and the monies will not be returned to the Contractor, in whole or in part, until satisfactory performance of all of the Contractor's obligations under the Contract; and
 - c) Provided the Contractor has satisfactorily fulfilled all of its obligations under the Contract, the Owner will return to the Contractor 75% of the monies provided as Contract Security without interest, no later than 30 days after Substantial Performance of the Work. The remaining 25% will be returned to the Contractor one year after Substantial Performance of the Work subject to no deficiencies being identified at the One Year Warranty Inspection.
- 2) OR The Contractor may provide, in lieu of the specified Bonds or the specified certified cheque or bank draft, security for the performance of the Contract in the form of an irrevocable bank letter of credit for 10% of the Contract Price; and:
 - a) The letter of credit shall be in favour of the Regional District of Central Kootenay;

- b) The letter of credit shall have an expiry date no earlier than 24 months from the date of the tender close;
- c) The letter of credit will not be returned to the Contractor until satisfactory performance of all of the Contractor’s obligations under the Contract; and
- d) Provided the Contractor has satisfactorily fulfilled all of its obligations under the Contract, the Owner will return the letter of credit to the Contractor one year after Substantial Performance of the Work subject to no deficiencies being identified at the One Year Warranty Inspection.

SGC 28.2 Required Insurance

Remove GC 24.1 INSURANCE and replace entirely with sections SGC 28.2 and SGC 28.3:

- 1) Without restricting the generality of the indemnification provisions of this Agreement, insurance and coverage will be arranged and paid for as under-noted:
- 2) The Contractor must take out and maintain the insurance coverages detailed in sections SGC 28.2 and SGC 28.3 and shall provide the Owner evidence of coverage upon execution of this Agreement in the following format:
 - a) an ICBC form APV 47; and
 - b) the Owner’s Standard Certificate of Insurance form completed by the Contractor’s broker.

COVERAGE TYPE	MINIMUM AMOUNT	MINIMUM AGGREGATE	DEDUCTIBLE MAXIMUM
Automobile Liability (third party) Insurance for vehicles used to complete the Services.	\$5,000,000 per occurrence	N/A	N/A
Commercial General Liability	\$5,000,000 per occurrence	N/A	\$5,000
Course of Construction/Builder’s Risk	Not less than the sum of 1.1 times the Maximum Contract Price	N/A	N/A
Contractor’s Equipment Coverage	Equivalent to the replacement cost of all owned, rented and/or leased equipment of the contractor.	N/A	N/A

- 3) The Contractor shall maintain **Commercial General Liability** coverage for the Term of this Agreement and a minimum of one (1) year after the completion of the Services with Products and Completed Operations coverage extended for an additional year (2 years in total). To achieve the desired limit, umbrella or excess liability insurance may be used. Such insurance will include but is not limited to the following:

- a) Broad Form bodily injury, death, property damage, and personal injury coverage, on an occurrence basis;
 - b) Non-Owned Automobile Liability with a limit not less than \$2,000,000 per occurrence (including contractual non-owned automobile liability endorsement SEF 96);
 - c) Blanket Contractual Liability;
 - d) Cross Liability and/or Severability of Interests;
 - e) A Waiver of Subrogation in favour of the Regional District of Central Kootenay;
 - f) Name "Regional District of Central Kootenay, its elected officials, officers, employees, servants, and agents", as an Additional Insureds;
 - g) Name the RDCK's Consultant, "Sperling Hansen Associates, its officers, employees, servants, and agents", as an Additional Insureds;
 - h) Require the insurer to provide the Owner with 30 days written notice of any material change or cancellation;
 - i) Premises and Operations;
 - j) Products and Completed Operations;
 - k) Attached Machinery, where, and only to the extent that, the performance of the Work involves the use or operation of equipment or machinery that is attached to, mounted on, or forms part of a licensed motor vehicle insured under the Insurance Corporation of British Columbia ("ICBC") automobile insurance program
 - l) Coverage that is Primary and Non-Contributory to any other sources of insurance available to the Contractor or the Owner.
- 4) The Contractor shall maintain Course of Construction coverage from the date of commencement of the Services until 60 days after the RDCK has certified or verified the Substantial Completion.
 - 5) The Contractor shall maintain Contractor's Equipment coverage for the Term of this Agreement, which shall cover, on a replacement cost basis, all property, of every description, to be used in the construction of the Work, against "All Risks" of physical loss or damage, including earthquake and flood, while such property is being transported to the site, and thereafter throughout erection, installation and testing.

SGC 28.3 Additional Insurance Terms and Conditions

- 1) Subject to satisfactory proof of financial capability by the Contractor, the Owner may agree to increase the deductible amounts.

- 2) The Contractor is solely responsible for determining what additional insurance coverage, if any, is necessary or advisable for the protection of the Contractor or that is required by the Contractor to fulfill its obligations under this Agreement, with such additional insurance maintained and provided at the sole expense of the Contractor and with the Contractor being responsible for obtaining whatever additional insurance it deems necessary.
- 3) The Contractor shall pay the deductible amounts in the event of a claim which the above policies are required to pay.
- 4) The Contractor shall ensure that all insurance required to be maintained by the Contractor under this Agreement is underwritten by a responsible insurance company or companies licensed to do business in the province of British Columbia.
- 5) As may be applicable, the Contractor must cause all subcontractors to comply with the insurance requirements outlined in section SGC 28.2 and SGC 28.3 of this Agreement.
- 6) The Owner may, at its discretion, notify the Contractor that the terms, amounts and types of insurance required to be obtained by the Contractor hereunder be changed. The Contractor shall, upon request, obtain a written quote from its insurer for the incremental cost of such additional or amended coverage and submit that quote to the Owner for review. The Owner may, in its sole discretion, approve or decline the proposed increase. Where the Owner approves the increase in writing, the Owner will pay the approved incremental cost increase, and the parties shall record the change and payment terms in an Agreement Amendment. The Contractor shall not bind or purchase the increased or amended coverage until Owner's written approval is provided.
- 7) If the Contractor's insurance policies expire prior to the coverage periods identified in section SGC 28.2 of this Agreement, the Contractor shall renew its insurance policies prior to the expiry date and provide the Owner with an updated evidence of insurance in the format identified in section SGC 28.2, confirming such renewal to the Owner within 14 days of its current policy's expiry.
- 8) In the event the Contractor shall fail to take out and maintain such insurance at all times during the coverage periods identified in section SGC 28.2 the Owner shall be entitled to take out and maintain equivalent insurance at the cost of the Contractor and the Contractor will pay to the Owner, on demand, the Owner's cost of so doing, or at the option of the Owner, the Owner shall be entitled to terminate this Agreement.

SGC 29. DOCUMENTS

SGC 29.1 Copies of Contract Documents

- 1) Delete GC 2.4.1 and replace with the following:

The Owner shall provide the Contractor without charge with three (3) copies of the Contract Documents and electronic copies of the Contract Drawings in PDF format, except that the Contractor shall at the Contractor's cost obtain the "Master Municipal Construction Documents – General Conditions, Specifications and Standard Detail Drawings" containing the General Conditions, Specifications and Standard Detail Drawings.

SGC 30. CONTRACTOR

SGC 30.1 General Safety Provisions

- 1) The Contractor shall exercise caution during all work below the ground surface. In particular, asbestos, landfill gas, and large-sized waste may be encountered in some excavation areas and must be dealt with safely by the Contractor. Large-sized waste must be excavated carefully by the Contractor so that nearby utilities are not disturbed. The Contractor shall be responsible for damage caused to utilities during the excavation process.
- 2) The Contractor shall be solely and completely responsible for conditions of the jobsite, including safety of all persons (including employees) and property during the performance of the Work. This requirement shall apply continuously and not be limited to normal working hours. Safety provisions shall conform to Provincial Standards, and all other applicable federal, provincial, and local laws, ordinances, codes, and regulations. Where any of these are in conflict, the more stringent shall be followed. The Contractor's failure to thoroughly familiarize himself/herself with the aforementioned safety provisions shall not relieve him/her from compliance with the obligations and penalties set forth therein.
- 3) The Contractor shall develop and maintain for the duration of this Contract, a safety program that will effectively incorporate and implement all required safety provisions. The Contractor shall appoint an employee who is qualified and authorized to supervise and enforce compliance with the safety program.
- 4) The duty of the Owner does not include review or approval of the adequacy of the Contractor's safety program, safety supervisor, or any safety measures taken in, on, or near the Project site.
- 5) The Contractor, as part of his safety program, shall maintain at his office or other well-known place at the Project site, safety equipment and instruments applicable to the work as prescribed by the aforementioned authorities, all articles necessary for giving first aid to the injured, and shall establish the procedure for the immediate removal to a hospital or a doctor's care of persons (including employees) who may be injured on the Project site.
- 6) If death or serious injuries or serious damages are caused, the accident shall be reported immediately by telephone or messenger to both the Contract Administrator and the Owner. In addition, the Contractor must promptly report in writing to the Owner all accidents whatsoever arising out of, or in connection with, the performance of the Work whether on, or adjacent to, the Project site, giving full details and statements of witnesses.

- 7) If a claim is made by anyone against the Contractor or any subcontractor on account of any accident, the Contractor shall promptly report the facts in writing to the Contract Administrator and the Owner, giving full details of such claim.
- 8) The Contractor shall make provisions for other contractors to safely transit through the designated work area for this contract on an as needed basis. The Contractor for this contract will be designated prime contractor on site.

SGC 30.2 Site-Specific Health and Safety Plan

- 1) The Contractor shall develop and maintain for the duration of this Contract, a Site-Specific Health and Safety Plan that will effectively incorporate and implement all required Municipal, Provincial (Workers' Compensation Board Occupational Health and Safety Regulation), and Federal safety provisions. The Contractor shall provide a written Site-Specific Health and Safety Plan for the construction within 7 days of Notice to Proceed and maintain at least one copy at the work site at all times.
- 2) Preparation of the Site-Specific Health and Safety Plan is solely the Contractor's responsibility and no statement made in these provisions shall relieve Contractor of sole responsibility for information included and implementation of the Site-Specific Health and Safety Plan.
- 3) Submission of the Site-Specific Health and Safety Plan is solely for evidence of compliance with the Contract Documents, and for reference and general information. Submission and subsequent review by Contract Administrator or Owner shall not relieve Contractor from sole responsibility as to the adequacy of its Site-Specific Health and Safety Plan.
- 4) The Contract Administrator's or Owner's review of the Contractor's performance is not intended to include a review or approval of the adequacy of the Contractor's safety supervisor, safety program or any safety measures taken in, on, or near the Site.
- 5) The Contractor's Site-Specific Health and Safety Plan should include, but not be limited to, the following:
 - a) A list of chemical and physical hazards (such as exposure to methane (and landfill gas) and/or, asbestos contaminated material, electrical shock, etc.), allowable exposure levels, threshold limit values, other regulatory exposure levels, fall hazard, and the management/emergency response should an exposure or injury occur.
 - b) A procedure to deal on-site with medical emergencies requiring first aid initially, including: identifying Contractor personnel with formal first aid training and certification, Owner operational personnel with similar training, on-Site facilities and the availability of supplies and equipment, if needed.

- c) An emergency evacuation plan for immediate removal to a hospital or a doctor's care any person who may be injured on the job site including an evacuation plan route to medical treatment, and emergency telephone numbers including hospital, ambulance, fire, sheriff and/or police, poison control, the Owner, and others as deemed necessary.
- d) Procedures to ensure substance abuse is not an issue by preventing the use of substances that impair a worker's judgement (e.g. alcohol, medical drugs, marijuana, etc.) in moving around the Site carrying out their responsibilities and especially when operating heavy equipment.
- e) Communication protocols for reporting to the Contract Administrator and WorkSafe BC Site safety issues or concerns, first aid incidents, emergencies, damage claims, and the like.
- f) Identification of each subcontractor's safety officer.
- g) A system or process to ensure effective Site orientation and hazards communication with all persons entering the Site. The Contractor shall maintain at the Site office a list of personnel on-Site at the start of each working day and a contact person in the event of a Site evacuation.
- h) A list of safety equipment and monitoring instruments at the job site and locations where equipment and instruments are stored or expected to be maintained, as applicable.
- i) Monitoring instrument action levels, frequency of testing, and recommended responses, as applicable.
- j) A procedure to carry out inspections, pre-job and Site safety meetings, the assembly of a toolbox safety committee, incident review, and other related meetings.
- k) Documentation of the initial Site safety meeting, safety committee meetings, reviews of subcontractors' safety systems, inspection and incident investigations, first aid records, orientation and training.
- l) Communication protocols for reporting to the Contract Administrator documentation of monthly first aid, medical aid, and lost time statistics, Site formal inspections, incident reports, safety meeting minutes, confined space entry permits, and hot work permits.
- m) Procedures for entering confined spaces.

- 6) The Contractor shall inform all workers and the public visiting the site of the potential for the presence of methane and other landfill gases emanating from the natural decomposition of refuse buried at or near the job site, and the importance of safety precautions to ensure the safety of all workers and the public. The Contractor shall also instruct all workers and maintain strict control of construction activity to protect and maintain the integrity of the landfill. The Contractor, as a part of his/her safety program, shall maintain at the job site, safety equipment applicable to the work as prescribed by the governing safety authorities and all articles necessary for giving first aid to the injured.
- 7) The Contractor shall inform all workers and the public visiting the area of work of the potential for exposure to asbestos contaminated material from drill cuttings, excavations, and trenches and the importance of safety precautions to ensure the safety of all workers and the public.
- 8) The Contractor shall submit one (1) digital copy of the Site-Specific Health and Safety Plan to the Owner. Failure on the part of the Contractor to follow the plan or to continue any work in an unsafe manner may result in suspension of the work by the Owner. The Contractor shall not be entitled to extra compensation for health and safety related suspensions, nor shall the contract completion date be extended.
 - a) The Contractor shall perform whatever work is necessary for safety and be solely and completely responsible for conditions of the Site, including safety of all persons (including employees of the District, Contract Administrator, any Site visitors, and Contractor) and property during the Contract period. This requirement applies continuously and is not limited to normal working hours.
 - a) No Work can commence on Site until the Contractor has submitted their Site-Specific Health and Safety Plan to the Contract Administrator and the Owner and received written confirmation of receipt.

SGC 30.3 Site Health and Safety Officer

- 1) The Contractor shall assign an individual serving as a Site Health and Safety Officer at the job site at all times during work. The Site Health and Safety Officer shall be responsible and authorized to supervise and enforce compliance with the Site-Specific Health and Safety Plan.
- 2) The Site Safety and Health Officer will act as the Qualified Coordinator as defined by Workers' Compensation Board.
- 3) The Site Health and Safety Officer shall be thoroughly trained in rescue procedures, and the use of safety equipment and monitoring instruments. This person shall be present at all times during working hours and shall implement the safety plan and shall conduct monitoring.

- 4) The Site Health and Safety Officer shall have the delegated authority to order any person or worker on the project site to follow the safety plan. Failure to observe the safety plan shall be sufficient cause for removal of the person or worker(s) from this Project or from the project site.
- 5) The Site Health and Safety Officer shall be responsible for determining the extent to which any safety equipment and instruments must be utilized, depending upon conditions encountered at the Site.

SGC 30.4 Safety Provisions Related to Operations at Waste Facilities

- 1) The Contractor shall be responsible for informing their employees and subcontractors and their employees of the potential danger in working on and near landfills and other waste facilities.
- 2) It is recommended the Contractor is familiar with the following document: **“A Compilation of Landfill Gas Field Practices and Procedures, Health and Safety Section”** prepared by the SWANA Landfill Gas Division Health and Safety Task Force August 1991 (revised August 2010). Copies may be obtained from SWANA at 1100 Wayne Avenue – Suite 700, Silver Springs, Maryland 20910, telephone number (301) 589 7068.
- 3) The Contractor is advised that some areas of construction for this project are potentially being performed in and adjacent to buried wastes and refuse. During construction activity, the potential exists to puncture containers that could become explosive, release pockets of landfill gas under pressure, release fluids that could be contaminated, create surface subsidence by shifting refuse, and other types of hazards. Exposure to decaying wastes is possible during this work. Exposure may also include possible contact with leachate, asbestos, inhalation of landfill gas, explosion, pathogenic bacteria, and others.
- 4) As buried materials decompose, they will generate gas, which typically consists of carbon dioxide, methane, and trace amounts of other gases, including but not limited to, hydrogen sulfide, dependent upon the composition of the buried materials. These gases normally vent to the atmosphere through the cover soils but can migrate laterally to adjacent areas depending on site and weather conditions.
- 5) Landfill gases have the potential to create hazardous conditions if not controlled or recognized. Some of the hazards include:
 - a) Fires which may start spontaneously from exposed and/or decomposing refuse.
 - b) Fires and explosions which may occur from the presence of methane gas.
 - c) Landfill gases which may cause an oxygen deficiency in underground trenches, manholes/catch basins, and other structures.
 - d) Hydrogen sulfide, a highly toxic and flammable gas, which may be present.
 - e) Possible caving of trenches and excavations when working over or in refuse fills.

- f) Possible exposure to asbestos contaminated material brought to the surface of the landfill as a result of drilling for landfill gas extraction wells and similar processes.
- 6) At the end of each workday, any exposed waste shall be covered with a minimum of 150 mm of inert fill and in no case shall waste be left uncovered overnight.

SGC 30.5 Contractor Safety Equipment and Monitoring Instruments If Waste Encountered

- 1) If waste is encountered during the Works, the Contractor shall provide and maintain safety equipment and monitoring instruments at the site. Safety equipment shall be applicable to the work as prescribed by the governing safety authorities and all articles necessary for giving first aid to the injured. Monitoring instruments should include, but not be limited to, the following:
 - a) Oxygen meter
 - b) Combustible gas meter
 - c) Hydrogen sulfide meter
- 2) Monitoring instruments may also include, but do not require, either a HNu or similar photo ionizing detector or an Organic Vapor Analyzer for monitoring volatile organic constituents in the air.
- 3) All personnel shall be trained in the use of appropriate safety equipment and monitoring instruments that would be utilized during the course of the work. It is the responsibility of the Site Health and Safety Officer, or person(s) in authority, to ascertain that all safety equipment is being used when appropriate.

SGC 30.6 Additional Safety Requirements

- 1) In addition to conforming to the safety rules and regulations of Governmental authorities having jurisdiction, the Contractor shall conform to the following precautionary measures:
 - a) Smoking is not permitted at the site. The Contractor is responsible to ensure that the Contractor's workers and subcontractor's workers do not smoke at the site.
 - b) Any refuse exposed during the construction shall be covered as soon as possible after exposure with at least a 300 mm layer of earth. In no event shall refuse remain exposed overnight.
 - c) No arc or gas welding shall be permitted in trenches, enclosed areas, or over refuse unless performed in specially ventilated and secured areas of the site tested and approved by the Site Health and Safety Officer.
 - d) Construction equipment used in excavating activities and/or refuse removal operations shall be equipped with vertical exhaust and spark arrestors.
 - e) Electric motors utilized in excavation areas and below ground shall be explosion proof.

- f) Worksafe BC Regulations shall be strictly followed including guidance of meeting and fall protection.

SGC 30.7 Protection of Work, Property and the Public

- 1) Add the following paragraph to GC 4.3:

Expose all connection points and crossing locations for proposed utilities at least one week prior to construction at each site and notify the Contract Administrator of the exact location and elevation of the connection points and crossing utilities for design confirmation. If this confirmation is not completed as specified, then the Contractor will not be eligible for any delay claims or extra costs incurred by conflicts or changes necessary to complete the related operations. Payment for pre-exposing of utilities will be incidental to payment for utility work unless shown otherwise in the Schedule of Quantities and Prices.

SGC 30.8 Site Access and Delineation of Work Areas

- 1) During operational hours (10:00 a.m. to 2:00 p.m. on Wednesdays and Saturdays), the Contractor shall maintain safe public access to the Site and provide traffic control as required to ensure continued use of the Owner's facilities with minimum disruption.
- 2) The Contractor shall delineate all construction areas by erecting signage, fencing, and/or visible cones, maintaining a minimum buffer distance of 10 meters from active work zones and adjacent operational areas. Delineation shall clearly indicate the limits of the Work and prevent unauthorized entry by the public or other site users.

SGC 30.9 Superintendent

- 1) Revise GC 4.7.3 as follows:

If the competence or performance of the Superintendent is not satisfactory to the Contract Administrator, then on written request from the Owner, the Contractor shall provide a satisfactory replacement. **The Contractor shall not change the Superintendent without the consent of the Contract Administrator.**

SGC 30.10 As-Constructed Drawings

- 1) The Contractor shall provide to the Owner, at the lump sum bid, all information in electronic format complete with Red Line mark-up drawings that is necessary for the Contract Administrator to produce as-constructed drawings. This information shall be provided within 30 days after construction is complete. It is the Contractor's responsibility to contact the Contract Administrator to determine which electronic format shall be used when submitting such information. This information shall include, but is not limited to:
- a) location of all system components, such as maintenance hatches, cleanouts, PVC bends, inspection chambers and valves;
 - b) inverts of pipes at PVC bends, manholes, cleanouts and tie ins;
 - c) depth of inspection chambers; and

- d) rim elevations for manholes, cleanouts, catch basins, curb stops and valves.

SGC 30.11 Materials Testing

- 1) Add the following to GC 4.12.6:

In all cases, the Contractor is responsible to facilitate and provide access to all Works for the purpose of inspection and testing.

- 2) The Contractor shall hire a third-party materials tester at their own cost to perform all materials testing, inspections, and approvals of the Work necessary for Quality Assurance and Quality Control to ensure materials, products, and workmanship are in strict conformance with the Contract Documents. The Contractor shall provide the results of such tests, inspections, and approvals to the Contract Administrator upon request.

SGC 31. OTHER CONTRACTORS

SGC 31.1 Shallow Utility Work By Others

- 1) Utility removal, relocation, adjustment or upgrading work may be required to be completed by others within the work area during the project. The Owner reserves the right to make changes in the design and scope of work as a result of conflicting utilities if required. Standard Contract clauses for Changes will apply.
- 2) The Contractor shall coordinate work with Electrical Companies as required for any conflicts, adjustments or protective measures. The Contractor shall permit and accommodate other contractors or companies working within the site on shallow utility work or other utility improvements. The Contractor shall remain the Prime Contractor.

SGC 32. DELAYS

SGC 32.1 Liquidated Damages for Late Completion

- 1) Revise GC 13.9.1 as follows: Delete the words "an amount of \$500.00 per day" and replace with the words "an amount of \$1,000.00 per day".

SGC 33. PAYMENT

SGC 33.1 Supporting Documentation

- 1) The Contractor shall be responsible to accurately record, and prove, by use of accepted survey records and measurements, that all claimed quantities have been complete, and conform with all contractual requirements.
- 2) With every monthly application for payment, the Contractor shall submit all relevant survey records for the current Progress Claim and a master survey record summary for all completed Work, in a form acceptable to the Contract Administrator. Failing to provide such records could invalidate the Progress Claim and payment may not be considered.

SGC 33.2 Holdbacks

- 1) Add the following paragraph to GC 18.4.2:

The Contractor will repair any defects or deficiencies within 10 working days after the date of written notification by the Contract Administrator. If the defects or deficiencies, or any part thereof, are not repaired within 10 working days of written notification from the Owner, the Owner may draw funds from the deficiency holdback and the Owner may complete the work at the expense of the Contractor. All costs pertaining to the repair, including the Owner's administration costs, shall be deducted from the deficiency holdback. It is understood and agreed that the Owner may do such work either by itself, or by contractors employed by the Owner.

SGC 33.3 Payment

- 1) Revise GC 18.5.1 as follows: The net amount for payment on a *Payment Certificate* shall be due and payable to the Contractor on or before the **30th Day** after the issuance of the Payment Certificate."

SGC 33.4 Substantial Performance

- 1) Add the following to GC 18.5.1:

The Contract Administrator shall prepare a Payment Certificate for release of the lien holdback and the amount shall be due and payable in accordance with GC 18.5.1.

- 2) Revise GC 18.6.1 as follows: Delete the words "written application" and replace with the words "written application, in accordance with the provision of GC 18.6.3,"
- 3) Delete GC 18.6.4 and replace with the following:

The Contract Administrator shall include the date of Substantial Performance in the Certificate of Substantial Performance. The date for Total Performance shall be **10 calendar days** after the date of Substantial Performance unless otherwise agreed by the Contract Administrator.

SGC 33.5 Total Performance

- 1) GC 18.7.4 – add the following paragraph:

If Total Performance is not achieved on the date as outlined in SGC 18.6.4, upon written notification, the Owner may complete or cause to be complete any and all outstanding deficiencies. All resulting costs incurred by the Owner in completing the Work, including administration and inspection costs, will be deducted from the amounts owing by the Owner to the Contractor.

SGC 33.6 Quantity Variations

- 1) The unit rates set out in the Schedule of Quantities and Prices shall be considered fixed unless the "Variance Threshold Percentage" is exceeded.

SGC 34. WORKERS COMPENSATION REGULATIONS

SGC 34.1 Contractor is “Prime Contractor”

- 1) GC 21.2.1 - Delete “the effective date of the Notice to Proceed” and replace with “date of execution of the Contract as specified in the Contract”.

SGC 35. BUDGET CONSTRAINTS

- 1) The Owner has a capital budget for this project and intends to remain within the budget. As such, the Owner reserves the right to reduce or extend the scope of work as required at the unit rates tendered and without penalty. The Owner in its sole discretion will decide on additions or deletions to the Scope of Work.

SGC 36. MAINTENANCE PERIOD

SGC 36.1 Correction of Defects

- 1) Delete GC 25.1.1 and replace with the following:

The Contractor shall, at the Contractor’s own expense, promptly correct defects or deficiencies in the Work that appear prior to and during the period of eighteen (18) months from the date of Substantial Performance, or such longer periods as may be specified in the Contract Documents for certain products or Work (the “Maintenance Period”).
- 2) The Contractor shall schedule with the Contractor Administrator a final maintenance inspection prior to the expiry date of the Maintenance Period to inspect the works and determine what defects and deficiencies exist.
- 3) The Contractor agrees that if the required repairs, or any part thereof, are not completed in accordance with the provisions of the Contract Documents, the Owner may complete the repairs at the expense of the Contractor. It is understood and agreed that the Owner may do such work either by itself, or by other contractors engaged by the Owner.
- 4) Notwithstanding the above, the Owner reserves the right to not complete the repairs and may, after 20 working days of written notification impose liquidated damages of up to \$1,000.00 per day until such time as the repairs have been completed.
- 5) Any costs incurred by the Owner to complete the repairs, including administration costs, or any damages in accordance with the Contract Documents, shall be deducted from the security held by the Owner. The balance of the security will be returned to the Contractor within 10 days of the date of expiration of the Maintenance Period. If there is insufficient money in the security to cover the costs incurred by the Owner, then the Contractor will pay such deficiency to the Owner immediately upon receipt of an invoice from the Owner.

SGC 37. EARLY USE OF THE WORK

SGC 37.1 Effect on Maintenance Period

- 1) Delete GC 26.3.1 and replace with the following:

There will be no effect on the Maintenance Period if the Owner takes over and begins to use a portion of the Work before Substantial Performance is achieved. The Maintenance Period for all Work shall commence from the date of Substantial Performance of the Contract.



Certificate of Insurance Form

Construction, Trades and Operations

This certifies that policies of insurance as described below have been issued to the Insured named below and are in full force and effect at this time.

NOTE: PROOF OF INSURANCE WILL BE ACCEPTED ON THIS FORM ONLY. INSURANCE COMPANIES MUST BE LICENSED TO OPERATE IN CANADA AND HAVE A MINIMUM AM BEST RATING OF A- OR HIGHER.

This Certificate is issued to the Regional District of Central Kootenay.

Named Insured Name: _____

Address: _____

Broker Name: _____ Agent's Name: _____

Address: _____

Phone: _____ Email: _____

Contract number and title this Certificate applies to:

Type of Insurance	Insurer Name and Policy Number	Policy Term dd-mmm-yyyy	Limits of Liability/Amounts
Section 1 Automobile Liability (third party, owned and leased vehicles) *If insured by ICBC, attach a copy of the ICBC form APV-47		From: To:	\$ _____ Limit
Section 2 Commercial General Liability		From: To:	\$ _____ Per Occurrence Limit \$ _____ Aggregate \$ _____ Deductible

<p>Section 3</p> <p>Umbrella Liability</p> <p>Excess Liability</p>		<p>From:</p> <p>To:</p>	<p>\$ _____ Umbrella Limit</p> <p>\$ _____ Excess Gen. Limit</p>
<p>Section 4</p> <p>Wrap-Up Liability</p> <p>Per Occurrence</p> <p>Per Claim</p>		<p>From:</p> <p>To:</p>	<p>\$ _____ Limit</p> <p>\$ _____ Aggregate</p> <p>\$ _____ Deductible</p>
<p>Section 5</p> <p>Pollution/Environmental Impairment Liability</p> <p>Per Occurrence</p> <p>Per Claim</p>		<p>From:</p> <p>To:</p>	<p>\$ _____ Limit</p> <p>\$ _____ Aggregate</p> <p>\$ _____ Deductible</p>
<p>Section 6</p> <p>Course of Construction (Builders Risk)</p>		<p>From:</p> <p>To:</p>	<p>\$ _____ Limit</p> <p>\$ _____ Aggregate</p> <p>\$ _____ Deductible</p>
<p>Section 7</p> <p>Equipment Breakdown (Boiler and Machinery)</p>		<p>From:</p> <p>To:</p>	<p>\$ _____ Limit</p> <p>\$ _____ Aggregate</p> <p>\$ _____ Deductible</p>
<p>Section 8</p> <p>All Risk Property</p>		<p>From:</p> <p>To:</p>	<p>\$ _____ Limit</p> <p>\$ _____ Aggregate</p> <p>\$ _____ Deductible</p>

Section 9 Contractor's Equipment		From: To:	\$ _____ Limit \$ _____ Aggregate \$ _____ Deductible
Section 10 Professional Liability (Errors and Omissions)		From: To:	\$ _____ Per Claim Limit \$ _____ Aggregate \$ _____ Deductible
Section 11 Other (Specify) Per Occurrence Per Claim		From: To:	\$ _____ Limit \$ _____ Aggregate \$ _____ Deductible

Details of Coverage of Comprehensive Commercial General Liability and, if included in the table above, Umbrella and Excess Liability (Sections 2 & 3): indicates that the coverage is included.

Broad Form bodily injury, death, property damage and personal injury coverage, on an occurrence basis

Non-Owned Automobile (including SEF 96)

\$ _____ Limit

Blanket Contractual Liability

Contractual Liability

Cross Liability and/or Severability of Interests

Waiver of Subrogation in favor of the Regional District of Central Kootenay

Regional District of Central Kootenay, its elected officials, officers, employees, servants and agents as Additional Insured

Sperling Hansen Associates, its officers, employees, servants, and agents as Additional Insured

30 days notice of cancellation

Premises and Operations

Products and Completed Operations

Personal and Advertising Injury

Attached Machinery

Firefighting Expenses

{CGL Continued on page 4}

**Hot Work Warranty/
Protocol**

**Sudden & Accidental
Pollution Liability**

**Elevator and Hoist
Liability**

**Contingent
Employers Liability**

**Coverage is Primary
and not Contributory**

Details of Wrap-Up Liability (Section 4) indicates that the coverage is included.

**Broad Form bodily
injury, death, property
damage and personal
injury coverage, on an
occurrence basis**

**Regional District of
Central Kootenay, its
elected officials,
officers, employees,
servants and agents as
Additional Insured**

**Products and
Completed Operations**

Coverage is **Primary and
not Contributory**

**Non-Owned Automobile
(including SEF 96)**

\$_____ Limit

**His Majesty the King in
Right of the Province of
British Columbia and
Ministry of
Transportation and
Transit as Additional
Insured**

**Contingent Employers
Liability**

**Sudden & Accidental
Pollution Liability**

**Blanket Contractual
Liability**

Attached Machinery

Contractual Liability

**30 days notice of
cancellation**

**Cross Liability and/or
Severability of Interests**

**Waiver of Subrogation
in favor of the Regional
District of Central
Kootenay**

Details of Pollution/Environmental Impairment Liability (Section 5) ☒ indicates that the coverage is included

Broad Form bodily injury, death, property damage	Cross Liability and/or Severability of Interests	30 days notice of cancellation
Clean-up, Monitoring and Remediation	Waiver of Subrogation in favor of the Regional District of Central Kootenay	Coverage is Primary and not Contributory
Sudden and Accidental, and Gradual Pollution Events for Third Party Liability	Regional District of Central Kootenay, its elected officials, officers, employees, servants and agents as Additional Insured	
Ongoing and Completed Operations		
Blanket Contractual Liability	His Majesty the King in Right of the Province of British Columbia and Ministry of Transportation and Transit as Additional Insured	
Contractual Liability		

Details of All Risk Course of Construction (Builder's Risk) (Section 6) ☒ indicates that the coverage is included.

Waiver of Subrogation in favor of the Regional District of Central Kootenay	His Majesty the King in Right of the Province of British Columbia and Ministry of Transportation and Transit as Additional Insured	Equipment Breakdown
Regional District of Central Kootenay, its elected officials, officers, employees, servants and agents as Additional Insured	Cross Liability and/or Severability of Interests	Testing & Commissioning

Details of Equipment Breakdown (Boiler and Machinery) (Section 7) indicates that the coverage is included.

Waiver of Subrogation in favor of the Regional District of Central Kootenay

Regional District of Central Kootenay, its elected officials, officers, employees, servants and agents as Additional Insured

His Majesty the King in Right of the Province of British Columbia and Ministry of Transportation and Transit as Additional Insured

Cross Liability and/or Severability of Interests

Details of All Risk Property coverage (Section 8) indicates that the coverage is included.

Installation Floater

Waiver of Subrogation in favor of the Regional District of Central Kootenay

Details of Contractor's Equipment coverage (Section 9) indicates that the coverage is included.

Waiver of Subrogation in favor of the Regional District of Central Kootenay

These policies comply with the insurance requirements of the governing contract of the Regional District of Central Kootenay. It is understood and agreed any deductible or reimbursement clause contained in the policy shall be the sole responsibility of the Named Insured.

Signature and Broker's Stamp
Authorized to Sign on Behalf of Insurers

Title

Date Signed

Broker Comments

REGIONAL DISTRICT OF EAST KOOTENAY

**MARBLEHEAD TRANSFER STATION UPGRADES
PRJ26008**

SUPPLEMENTARY SPECIFICATIONS

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1.1 DISPOSAL SITES

- .1 Contractors shall locate their own site for disposal of all soil, rock or other unsuitable or excess material that results from the performance of the contract as per General Conditions, Clause 20.

1.2 MEASUREMENT AND PAYMENT

- .1 This section includes all measured quantities and conditions of the related payments for the elements of Work as listed in the Schedule of Quantities and Prices.
- .2 Measurement for payment will be performed by the Contractor according to standard measurement procedures and based on actual units of work performed or installed. The method of measurement is described under each bid item.
- .3 The Contractor shall make all interim measurements including all preparation work required for measurement purposes and determine all interim quantities and amounts of complete Work done under the Contract. At the time measurements are made for quantity determinations the Contract Administrator or their representative will be present to verify such measurements.
- .4 The Contractor shall provide a minimum of 48 hours advance notice from the date and time of measurements and allow the Contract Administrator the opportunity to observe measurements and/or conduct independent measurements for establishing quantities for progress payments.
- .5 Description of Methods for Measurement of Quantities
 - a. For items specified to be measured by a length unit (e.g., lineal or vertical metre), pay length will be measured along the center line of the item involved as actually placed and accepted.
 - b. When items are specified to be measured by an area unit (e.g., square metre, hectare, etc.), the Contract Administrator will use one of the following methods for measurement:
 - i. For those items to be measured by the in-place area, measurement shall be determined by verified and accepted topographic survey methods or by the most practical means as otherwise determined by the Contract Administrator.
 - ii. For those items measured by the in-place area with a neat line measurement for width, the area will be determined by the in-place horizontal measure for length multiplied by the fixed plan dimension for width as shown on the Contract Documents. (i.e., Roads).
 - c. For items specified to be measured by a volume unit (e.g., cubic metres), the Contract Administrator will use one of the following methods for measurement:
 - i. For those items to be measured by the in-place volume, measurement shall be determined by verified and accepted topographic survey methods. The quantity for payment shall be calculated as a difference between the

- original ground surface (prior to construction) and the final ground surface (after construction is completed). The volume shall be calculated by a cut and fill analysis using AutoCAD Civil 3D software. For volumes of excavation or embankment which are small or otherwise, impractical to measure quantities by a cut and fill analysis, an average-end-area method shall be used as specified by the Contract Administrator.
- ii. For those items measured by the in-place area with a neat line measurement for depth, the volume will be determined by the in-place horizontal measure for area multiplied by the fixed plan dimension for depth as shown on the Contract Documents.
 - iii. For supply only items, the volume will be determined as the minimum quantity needed to complete the corresponding installation item (where applicable). No additional allowances or payments will be made for installation, transportation, stockpiling, or any loss.
 - iv. For those items measured by load counts of the hauling vehicle, the volume will be determined by the dimensions of each hauling vehicle. Each hauling vehicle will be measured by the Contractor to the Contract Administrator's satisfaction to establish the number of cubic metres carried by that vehicle when full. All hauling vehicles shall be numbered or otherwise uniquely marked for identification purposes.
 - v. For each load delivered to the Site, the Contractor shall provide to the Contract Administrator at the time of delivery, a ticket indicating the vehicle number or other identification, material type, date, time of delivery, reference to source location, and intended use of material such as subgrade, embankment, backfill, top soil, select fill, cover soil, drainage aggregate, drain rock, and embedment.
 - vi. In addition to vehicle tickets, the Contractor shall provide the Contract Administrator daily with a summary of vehicle loads delivered that day listing the number of loads, type of material carried by each vehicle, source of material, and intended use of each type of material.
 - vii. Subsequent loads can be randomly checked as instructed by the Contract Administrator, and adjustments will be made for partial loads. Where a discrepancy in the initial vehicle capacity is encountered, the Contract Administrator may elect to adjust all previous load records received to date.
- d. For items specified to be measured by weight, the Contract Administrator will use the following methods for measurement:
- i. Weight will be determined using commercially available truck scales or as otherwise, approved by the Contract Administrator.
 - ii. Scales must meet the requirements of the Weights and Measures Act.
- e. Where lump sum is the specified pay unit, the payment will be made without further measurement for complete and accepted Work as described in the Contract Documents.

.6 Formal Payment Approval

- a. No payment unless formally approved by the Contract Administrator will be made for:
 - i. Work performed or materials placed outside of limits indicated in the Drawings or established by the Contract Administrator. Includes all overlapping materials that should have been complementary to each other such as topsoil and road materials; and 8oz geotextile and ditch riprap.
 - ii. Materials wasted, used, or disposed of in a manner not called for under the Contract.
 - iii. Rejected materials, including material rejected after it has been placed, if the rejection is due to the Contractor's failure to comply with the provisions of the Contract. When defects or non-compliance are discovered, the work shall be rejected regardless of any prior approval or payment. The Contractor shall be fully responsible for all repairs and remediations needed to complete the work as originally intended or to the satisfaction of the Contract Administrator.
 - iv. Hauling and placement of materials from, or to, interim stockpiles. Stockpiles are to be located in designated locations as approved by the Owner as best suited to the Owner's needs, and the Contractor will not be entitled to any additional compensation regardless of the stockpile locations or changes to such locations during the contract.
 - v. Hauling and disposing of rejected materials. Unless otherwise specified, the Contractor shall include such costs into the most appropriate pay item.
 - vi. Material on hand after completion of Work.
 - vii. Any other Work or material when payment is contrary to any provision of the Contract.
 - viii. Work that has been buried and/or concealed without inspection and approval immediately prior to, and during burying and/or concealment from the Contract Administrator.
 - ix. Work that has not received the required documentation and approval required through the submittal process.
 - x. Work that has only been done partially, is not functioning as intended, and without being surveyed, inspected, tested, commissioned, or documented for as-built records.
 - xi. All schedule delays, costs and all other impacts related to repairs and replacements requested by the Contract Administrator, due to damage to the existing infrastructure caused by the Contractor. The Contract Administrator is emphasizing to the Contractor that caution must be taken to avoid damaging all anticipated infrastructure, regardless of the actual location, which may vary due in part to the nature of settlement within the landfill, the questionable accuracy of the as-built drawings, and the

imprecise instructions of the Contract Administrator or Owners Representative. It is required that a non-mechanized form of excavation be used when working within 1.0 metre of existing infrastructure.

.7 Instructions Regarding Schedule of Quantities and Prices

- a. Work completed under this Contract will be paid for at the unit prices set out in the Schedule of Quantities and Prices.
- b. Include all costs associated with finding, procuring, and supplying all materials, and performing all Work specified in the prices set out in the Schedule of Quantities and Prices, and allowing for Contractor's overhead and profit except for Optional Items which shall be priced according to the Contract Documents.
- c. Any claim by the Contractor for extra payment on the grounds that Work performed or materials supplied in accordance with the Drawings and/or Specifications could not be properly charged to items listed in the Schedule of Quantities and Prices will not be considered by the Contract Administrator.
- d. If the Schedule of Quantities and Prices does not include an item that is referenced in the Drawings and/or Specifications by either direct mention and/or implication, the Contractor shall include all costs associated with such item in the most appropriate pay item.
- e. Prorate costs of a general nature that do not pertain to any one item among all items except for Optional or Provisional Items.
- f. Payment will only be made for actual quantities supplied and installed during the Contract.

.8 Progress Payments

- a. The Contractor shall apply for payment monthly in accordance with the General Conditions of the Contract and in a format acceptable to the Contract Administrator.

.9 Force Account Work

- a. Force Account Work may be required, which is not Work covered by the Contract.
- b. All Force Account Work shall be carried out in accordance with the General Conditions of the Contract.

.10 Description of Payment Items

Division 01 – General Requirements

Item 1.01 — Mobilization & Demobilization

Measurement: Lump Sum

Payment: Mobilization / demobilization is limited to 5% of the project cost and will be paid by lump sum for all equipment and personnel necessary to complete the work, as follows:

- 50% of the lump sum price shall be paid with the first Progress Payment;

- 25% of the lump sum price shall be paid upon Substantial Performance; and
- 25% of the lump sum price shall be upon Total Performance.

Includes: The pay item includes all activities and associated costs for transportation of the Contractor's personnel, equipment and operating supplies to and from the Site, establishing and maintaining of offices, buildings, and other necessary general facilities for the Contractor's operations at the Site.

Item 1.02 — Performance, Labour and Material Bonds

Measurement: Lump Sum

Payment: Based on actual cost to the contractor. Payment will be made at the lump sum value quoted in the Schedule of Quantities and Prices, prorated for the duration of the Contract as per the Contract Administrator's estimate. Contract Administrator may require documentation for proof of payment to bonding company.

Includes: Cost to obtain all required bonding for Work associated with this Contract. The Bonding shall cover the entire duration of the Contract.

Item 1.03 — Insurance

Measurement: Lump Sum

Payment: Based on actual cost to the contractor. Payment will be made at the lump sum value quoted in the Schedule of Quantities and Prices, prorated for the duration of the Contract as per the Contract Administrator's estimate. Contract Administrator may require documentation for proof of payment to insurance company.

Includes: Cost to obtain all required insurance for Work associated with this Contract. The Insurance shall cover the entire duration of the Contract.

Item 1.04 — Health and Safety

Measurement: Lump Sum

Payment: Will be made at the lump sum price quoted in the Schedule of Quantities and Prices, prorated for the duration of the Contract as per the Contract Administrator's estimate.

Includes: Costs for labour, equipment and materials to prepare and implement the health and safety requirements including the on-site safety officer and safety equipment for the duration of the Work for all areas that it applies to. The pay

item also includes the costs associated with the Prime Contractor responsibilities for the Work Site area, which involves coordination of safety issues with all applicable parties conducting on-Site Works per WorkSafeBC requirements.

Item 1.05 — Permitting, Survey, Materials Testing, Submittals and Record Drawings

Measurement:	Lump Sum
Payment:	Payment will be made as a lump sum value. Seventy percent (70%) will be prorated for the duration of the Contract as per the Contract Administrator's estimate. Thirty percent (30%) balance of the value will be paid at the completion of the Contract after all records and as-built information has been received and accepted by the Contract Administrator.
Includes:	All surveys, measurements, and computations required by the Contract. Verification of survey control points prior to starting Work is required. Provide field engineering services and close out procedures. Establish locations, elevations, lines, grades and levels necessary for construction of structures and systems, including up to three (3) different layouts and revisions for each construction item as deemed necessary by the Contract Administrator. Locate and mark (stake) in the field all existing utilities. Periodically verify layouts. All deep utilities must be recorded in three (3) dimensions as work progresses for Record Drawing purposes and data submitted to Contract Administrator on a monthly basis. The construction survey records shall be available at all times during the progress of the Work for examination and use by the Contract Administrator. Complete survey records and supporting data for progress payments shall be submitted to the Contract Administrator with each Payment Certificate. This item shall also include preparation and submission of record drawings as per the Contract Documents.

Division 03 – Concrete

Item 3.01 — Construct Lower Reinforced Concrete Slab c/w Granular Bases, Reinforcement and Expansion Joints

Measurement:	Calculated quantities based on topographic survey of the limits of the completed work, conducted by the Contractor and verified by the Contract Administrator.
Payment:	Per Square Metre (m ²)
Includes:	All labour, equipment, materials, and incidental work required to construct the lower reinforced concrete pad as

per the Contract. Includes supply and installation of the granular base and sub-base, rebar reinforcements, and concrete slab.

Item 3.02 — Construct Upper Reinforced Concrete Slab c/w Granular Bases, Reinforcement and Expansion Joints

Measurement: Calculated quantities based on topographic survey of the limits of the completed work, conducted by the Contractor and verified by the Contract Administrator.

Payment: Per Square Metre (m²)

Includes: All labour, equipment, materials, and incidental work required to construct the upper reinforced concrete pad as per the Contract. Includes supply and installation of the granular base and sub-base, rebar reinforcements, and concrete slab.

Item 3.03 — Relocate Owner-Supplied Lock Blocks from Slocan Transfer Station to Project Site

Measurement: Per Unit

Payment: Per Each Unit Relocated

Includes: All labour, equipment, materials, and incidental work required to complete loading, hauling, unloading, and placement of the lock blocks at the designated location within the Project Site. Lock blocks to be imported shall be hauled from the Slocan Transfer Station at 8875 Slocan South Road to the project site. The Contractor shall inspect all lock blocks prior to relocation and report any damage or defects to the Contract Administrator.

The number of lock blocks to be relocated has been estimated based on the assumed quantity of reusable existing lock blocks at the Project Site. The actual quantity of lock blocks to be imported may therefore be less.

Item 3.04 — Place Owner Supplied Lock Blocks for Transfer Station Z-Wall c/w 450 mm Thick Granular Foundation

a) 1.22m x 0.61m x 0.61m

b) 0.61m x 0.61m x 0.61m

Measurement: Per Count of Installation

Payment: Per Each Unit Installed

Includes: All labour, equipment, materials, and incidental work required to install the Owner-supplied lock blocks and construct the transfer station Z-wall as per the Contract.

Includes supply and installation of the foundation base aggregate.

Owner Supplied Lock Blocks will be stockpiled onsite prior to construction commencement.

Division 05 – Metals

Item 5.01 — Supply and Install Railings and Gates (Stainless Steel or Hot-Dip Galvanized)

Measurement: Lump Sum

Payment: Will be made at the lump sum price quoted in the Schedule of Quantities and Prices.

Includes: All labour, equipment, materials, and incidental work required to supply and install safety railing system on top of the concrete / lock block Z-wall, as included in the Contract Documents. Includes one (1) Bi-Fold Gate and railing system on the remainder of the Z-wall.

Division 31 – Earthworks

Item 31.01 — General Site Clean Up - Includes Removal of Existing Lock Blocks and Stockpiling Onsite for Re-Use

Measurement: Lump Sum

Payment: Will be made at the lump sum price quoted in the Schedule of Quantities and Prices.

Includes: All labour, equipment, materials, and incidental work required to complete general site cleanup in preparation for the Works, including removal of debris, vegetation and other obstructions. Existing lock blocks to be removed and stockpiled onsite for potential reuse in the Z-wall construction. The Contractor shall inspect existing lock blocks for damage, chipping, or other defects. Lock blocks suitable for reuse (none to minimal damage) shall be set aside and inspected by the Contract Administrator for approval prior to incorporation into the Works. The Contractor shall ensure that interlock points are intact and free of debris to permit proper fit and alignment during reuse.

Item 31.02 — Surface Water Ditch

- a) Clear and re-establish existing surface water ditch
- b) Construct new surface water ditch

Measurement: Calculated quantities based on topographic survey of the limits of the completed work, conducted by the Contractor

and verified by the Contract Administrator.

Payment: Per Linear Metre (LM)

Includes: All labour, equipment, materials, and incidental work required to construct the new surface water and clearing and re-establishment of the existing ditch, as per Contract Documents.

Item 31.03 — Supply and Install Minimum 250mm Thick 25-75 mm Drain Rock Behind Z-Wall for Pore Pressure Relief - Includes 100 mm Perforated SCH80 PVC Z-Wall Drainpipe c/w Cleanouts

Measurement: Calculated quantities based on topographic survey of the limits of the completed work, conducted by the Contractor and verified by the Contract Administrator.

Payment: Per Linear Metre (LM)

Includes: All labour, equipment, materials, and incidental work required to supply and install the 100 mm dia. SCH80 PVC perforated pipe, 25-75 mm drainage gravel, and cleanouts (2) for the pore pressure relief system as per the Contract Documents.

Item 31.04 — Common Excavation to Subgrade - Stockpile Onsite for Re-Use Prepare and Compact Subgrade

a) Transfer Station Z-Wall

Measurement: Calculated quantities based on topographic survey of the limits of the completed work, conducted by the Contractor and verified by the Contract Administrator.

Payment: Per Cubic Metre (m³)

Includes: All labour, equipment, materials, and incidental work required to excavate to design subgrade and stockpile clean fill material onsite at designated stockpiling area(s). Subgrade shall be compacted per the Contract Drawings.

In the event historic landfilled waste is encountered, Contract must over-excavate by 300mm (beyond subgrade surface), and replace with 300mm of suitable material.

Any material excavated or placed beyond the design lines or stockpile area is considered Unauthorized Work and the Contractor will not be entitled to any additional compensation. At the end of each day, any exposed waste must be covered with a minimum of 150 mm of inert fill and in no case shall waste be left uncovered overnight.

Item 31.05 — Supply, Place, and Compact Clean Structural Fill

a) Transfer Station Z-Wall

Measurement:	Calculated quantities based on topographic survey of the limits of the completed work, conducted by the Contractor and verified by the Contract Administrator.
Payment:	Per Cubic Metre (m ³)
Includes:	All labour, equipment, materials, and incidental work required to supply, place, and compact clean structural fill shall be provided by the Contractor in accordance with the Contract. Clean fill stockpiled onsite from excavation works may be used as backfill, subject to approval by the Contract Administrator. The Contractor is responsible for supplying any additional fill volumes required to complete the Works.

Item 31.06 — Supply and Install Uniaxial Geogrid for Z-Wall - Geogrid to be Post-Tensioned as per Contract Drawings

Measurement:	Calculated quantities based on topographic survey of the limits of the completed work, conducted by the Contractor and verified by the Contract Administrator.
Payment:	Per Square Metre (m ²)
Includes:	All labour, equipment, materials, and incidental work required to supply and install the Z-wall uniaxial geogrid shall be provided by the Contractor. The Contractor shall ensure the geogrid is post-tensioned as specified in the Contract Drawings. Post-tensioning shall be performed using approved methods and equipment, with tensioning levels verified to meet the project's design requirements.

Division 32 – Roads and Site Improvements

Item 32.01 — Granular Sub-Base - 75 mm Minus Pit Run Gravel, 300 mm Average Thickness

a) Transfer Station Access System

Measurement:	Calculated quantities based on topographic survey of the limits of the completed work, conducted by the Contractor and verified by the Contract Administrator.
Payment:	Per Cubic Metre (m ³)
Includes:	All labour, equipment, materials, and incidental work required to supply and install an average of 300 mm of 75 mm Minus Pit Run Gravel for the construction of gravel sub-base for the transfer station access system, as detailed in the Contract Drawings.

Item 32.01 — Granular Base - 19 mm Minus Crush Gravel, 100 mm Thickness

a) Transfer Station Access System

Measurement:	Calculated quantities based on topographic survey of the limits of the completed work, conducted by the Contractor and verified by the Contract Administrator.
Payment:	Per Square Metre (m ²)
Includes:	All labour, equipment, materials, and incidental work required to supply and install 100 mm of 19 mm Minus Crush Gravel for the construction of gravel base for the transfer station access system, as detailed in the Contract Drawings.

Division 33 – Utilities

Item 33.01 — Supply and Install 100mm Solid SCH80 PVC Drainpipe

Measurement:	Calculated quantities based on topographic survey of the limits of the completed work, conducted by the Contractor and verified by the Contract Administrator.
Payment:	Per Linear Metre (LM)
Includes:	All labour, equipment, materials, and incidental work required to supply and install a 100mm solid PVC SCH80 Drainpipe, as detailed in the Contract Drawings.

1.3 EXCAVATING, TRENCHING AND BACKFILLING

Section 31 23 01

1. Section 3.3 Excavation - Subsection 3.3.9 add the following paragraph:
“The Contractor must identify all disposal sites to the Contract Administrator prior to disposal of surplus excavated soil to the identified disposal sites”.
2. Section 3.5 Backfill and Compaction – Subsection 3.5.4 delete the words “place backfill” and replace with the words “place backfill, or approved native backfill”.
3. Add the following to Cl. 3.5.4 – Backfill and Compaction:
It is intended to use native materials for backfill wherever suitable. Only materials deemed unsuitable in the opinion of the C.A. will be approved for disposal off-site and replaced with imported granulars. Native material approved for reuse must be handled, stockpiled and suitably compacted and all costs incidental thereto are deemed to be included in the unit rates tendered.”

1.4 RAILING AND GATE METAL FABRICATIONS

- .1 Submit the following shop drawings for review: shop drawings showing dimensions, details, and necessary accessory items. Detailing work shall conform to CISC Detailing for Steel Construction.
- .2 Fabricated metal shall be delivered on long-bed trucks or trailers adequately supported to prevent bending and other damage. Adequate preparations shall be made for unloading and handling prior to delivery of materials. Materials shall be unloaded by hand, by appropriate slings, or other means that will prevent damage. Materials shall be stored above ground in such a manner as to prevent rusting and bending, and shall be protected with waterproof covers and allow for inspection.
- .3 Materials for miscellaneous metalwork shall be as follows:

Material	Specification
Steel shapes, plates, bars, clips and similar items	ASTM A 36
Steel pipe	ASTM A 53, Type S, Grade B
Steel tubing	ASTM A 500, Grade B
Stainless steel	ASTM A 320, Type 304
Aluminum	ASTM B 241, Alloy 6061-T6

- .4 Hot-Dip Galvanized After Fabrication: Channels Hot-Dipped Galvanized After Fabrication shall be made from steel meeting the minimum requirements of ASTM A570, Grade 33. Eighteen gauge (1.2-mm) and lighter channel shall be ASTM A611, Grade C steel. Channels shall be Hot-Dip Galvanized After Fabrication in accordance with ASTM A123. All ¼ (6.3) fittings shall be formed from ASTM A635 steel and Hot-Dip Galvanized After Fabrication in accordance with ASTM A123.

Stainless Steel: Stainless Steel Channel and accessories shall be of AISI Type 304 or Type 316 Stainless Steel.

Dimensions: Metal Framing Channel shall be cold formed 12 Ga. (2.6), 14 Ga. (1.9), or 16 Ga. (1.5) steel. All channels shall have a nominal overall width of 1 5/8 inch (41.3) and have a 7/8 inch (22.2) slot face opening. All testing and tolerances shall be in accordance with the latest MFMA-1 Standard.

- .5 Field Repair of Galvanizing: Field repair of galvanizing shall be done using Z.R.C. Cold Galvanizing Compound.
- .6 Bolts shall physically conform to ASTM A 193, Grade B8M. Bolt and nut dimensions shall conform to ANSI B18.2. Washer dimension shall conform to ANSI B27.2.

Above ground nuts and bolts shall conform to ASTM A 307 unless noted as stainless steel. Carbon steel bolts, nuts and washers shall be hot-dip galvanized after fabrication.

All below ground bolts shall be stainless steel. Stainless steel bolts and accessories shall be Type 304 material.
- .7 Expansion bolts shall be wedge-type bolts, and shall be Molly Parabol Concrete Anchors. Expansion bolts shall be stainless steel. Components of stainless steel expansion bolts,

- including nuts, washers and wedges, shall be stainless steel. Minimum embedment lengths and edge distances shall be as recommended by the manufacturer, unless otherwise shown on the Drawings.
- .8 Measurements shall be verified at the Project site. Holes shall be punched 1.6mm (1/16-inch) larger than the nominal size of the bolt, unless otherwise specified. No drifting of bolts or enlargement of holes will be allowed to correct misalignment.
- Dissimilar metals shall be protected from galvanic corrosion by means of pressure tapes, coatings or isolators.
- Metalwork to be embedded in concrete shall be placed accurately and held in position while the concrete is placed.
- Structural steel that is completely encased in concrete shall not be galvanized or painted and shall have a clean surface for bonding to concrete.
- .9 Fabrication and workmanship shall be performed in accordance with the CISC. Fabrication, including cutting, drilling, punching, threading, and tapping required for miscellaneous metal or adjacent work shall be performed prior to hot-dip galvanizing.
- .10 Welded Connections: Welding shall be done by operators who have been qualified by tests as prescribed by the Canadian Welding Bureau (CWB) in Standard Procedure to perform the type of work required. The quality of welding shall conform to CWB Structural Welding Code.
- Bolted Connections: Bolts for structural and miscellaneous steel connections shall extend no further than twice the bolt diameter past the nut. Washers shall be installed at the nut on bolt assemblies. Stacking of nuts or washers on bolts will not be permitted. Bolted connection shall conform to CISC and shall be as shown on the Drawings.
- .11 Damaged areas of galvanizing shall be cleaned with mineral spirits followed by wire brushing. After wire brushing, areas shall be cleaned with Z.R.C. metal conditioner and coated with Z.R.C. Cold Galvanizing Compound in accordance with the manufacturer's printed instructions and recommendations.

1.5 CONTRACTOR-SUPPLIED AGGREGATES

- .1 All aggregates specified within the Contract shall be provided by the Contractor.
- .2 Contractor-supplied aggregates shall include the following:
- a. 25-75 mm Drainage Gravel
 - b. 19 mm Minus Crushed Gravel
 - c. 75 mm Minus Pit Run Gravel
- .3 For all Contractor-Supplied Aggregates, the Contractor shall submit the following to the Contract Administrator within five (5) days of commencing the Work. The information provided shall demonstrate that the product meets the required specifications as defined in the Supplementary and MMCD Specifications.
- a. A grain size curve with the appropriate sieve sizes as shown.

- b. A 20 L sample of the material.

.4 Handling and Stockpiling

- a. Handle and transport material to avoid segregation, contamination, and degradation.
- b. Stockpile material on Site in locations identified by the Contract Administrator.
- c. Stockpile material in sufficient quantities to meet project schedules.
- d. Stockpiling Areas to be level, well drained, and of adequate bearing capacity and stability to support stockpiled materials and handling equipment.
- e. Except where stockpiled on acceptably stabilized areas, provide compacted sand base not less than 300 mm in depth to prevent contamination of material. Alternatively, the Contractor can stockpile material on ground but do not incorporate bottom 300 mm of pile into Work.
- f. Separate different materials by strong, full depth bulkheads, or stockpile far enough apart to prevent intermixing.
- g. Do not use intermixed or contaminated materials. Remove and dispose of rejected materials as directed by Contract Administrator within 48 hours of rejection.

1.6 25-75 MM DRAINAGE GRAVEL OR APPROVED ALTERNATE

- .1 The aggregates shall be composed of inert, clean, tough and durable particles capable of withstanding the deleterious effects of exposure to water, freeze-thaw, handling and spreading.
- .2 Ninety percent (90%) of the material passing each sieve must have more than one fractured face.
- .3 The aggregate particles shall be uniform in quality and free from excess of flat and elongated particles. The particles shall have a gradation falling within the limits specified below.

25 to 75 mm Drainage Gravel

Sieve Size Opening (mm)	Percent Passing (by weight)
100	100
75	80–100
50	40–80
40	20–50
25	0–20
20	0

1.7 GRANULAR SUBBASE OR APPROVED ALTERNATE

Section 32 11 16.1

.1 Section 2.1 Specified Materials – Delete contents of 2.1.1 and replace with:

“Materials for road subbase to be:

.1 75 mm granular subbase”

1.8 GRANULAR BASE OR APPROVED ALTERNATE

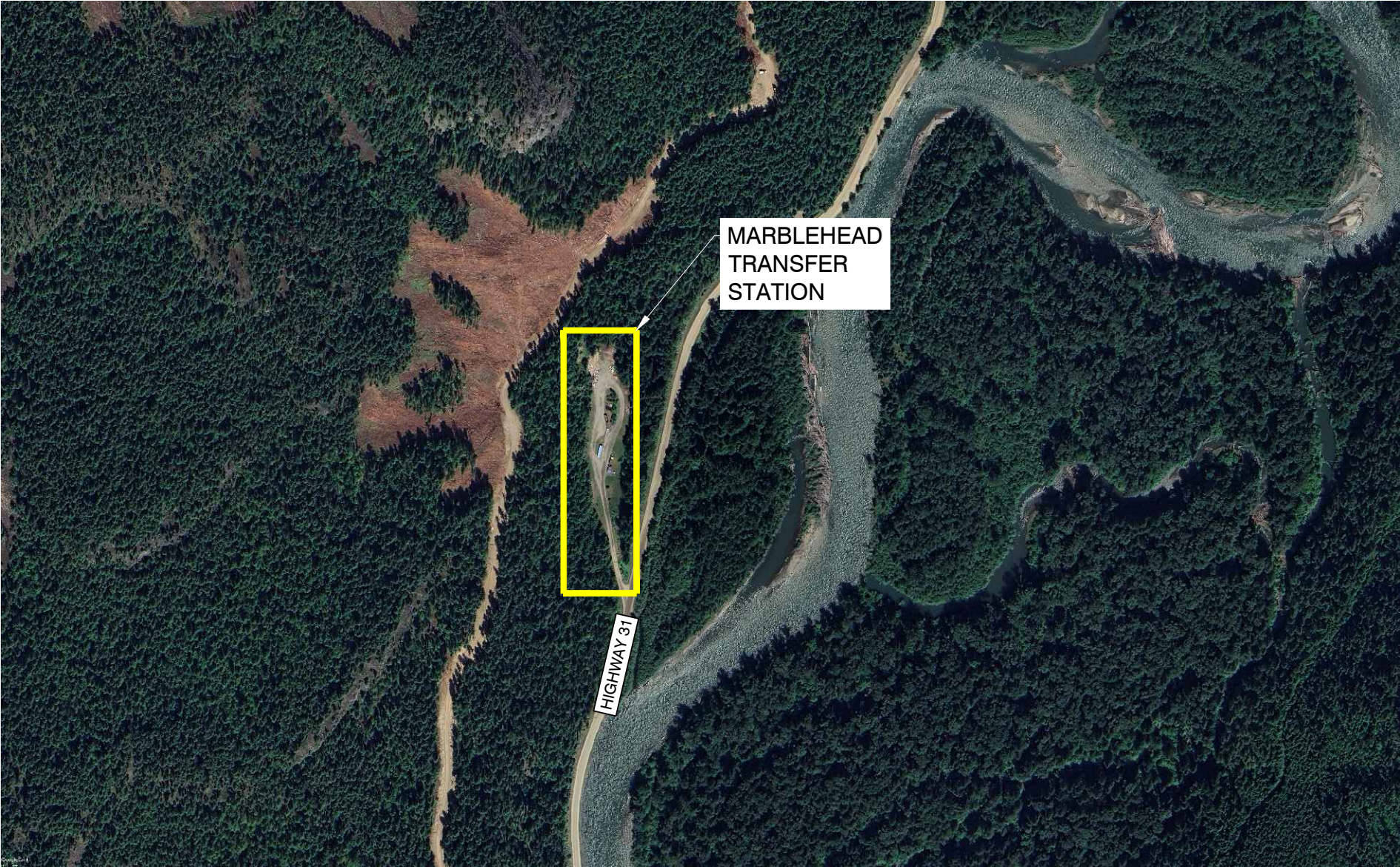
Section 32 11 23

.1 Section 2.1 Granular Base – Delete contents of 2.1.1 and replace with:

“Materials for road base to be:

.1 19 mm crushed granular base”

MARBLEHEAD TRANSFER STATION DESIGN



DRAWING LIST			
SHEET No.	DWG. No.	REV.	TITLE
000	26022-000	C	COVER SHEET AND LIST OF DRAWINGS
001	26022-001	C	EXISTING TOPOGRAPHY JAN 15, 2026 & SITE FEATURES
100	26022-100	C	TRANSFER STATION EXCAVATION SUBGRADE
101	26022-101	C	TRANSFER STATION EXCAVATION SUBGRADE EARTHWORKS
102	26022-102	C	TRANSFER STATION STRUCTURAL BACKFILL EARTHWORKS
103	26022-103	C	SECTION A-A', B-B' & DETAILS
104	26022-104	C	LOCK BLOCK WALL PLAN VIEW AND SPECIFICATION
105	26022-105	C	RAILING AND BI-FOLD GATE DETAILS
106	26022-106	C	TRANSFER STATION DESIGN FINAL GRADE

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B	2026/04/25	ISSUED FOR 90% REVIEW - REV 1	AT	SG	--
A	2026/04/09	ISSUED FOR 90% REVIEW	AT	SG	--

REUSE OF DOCUMENTS

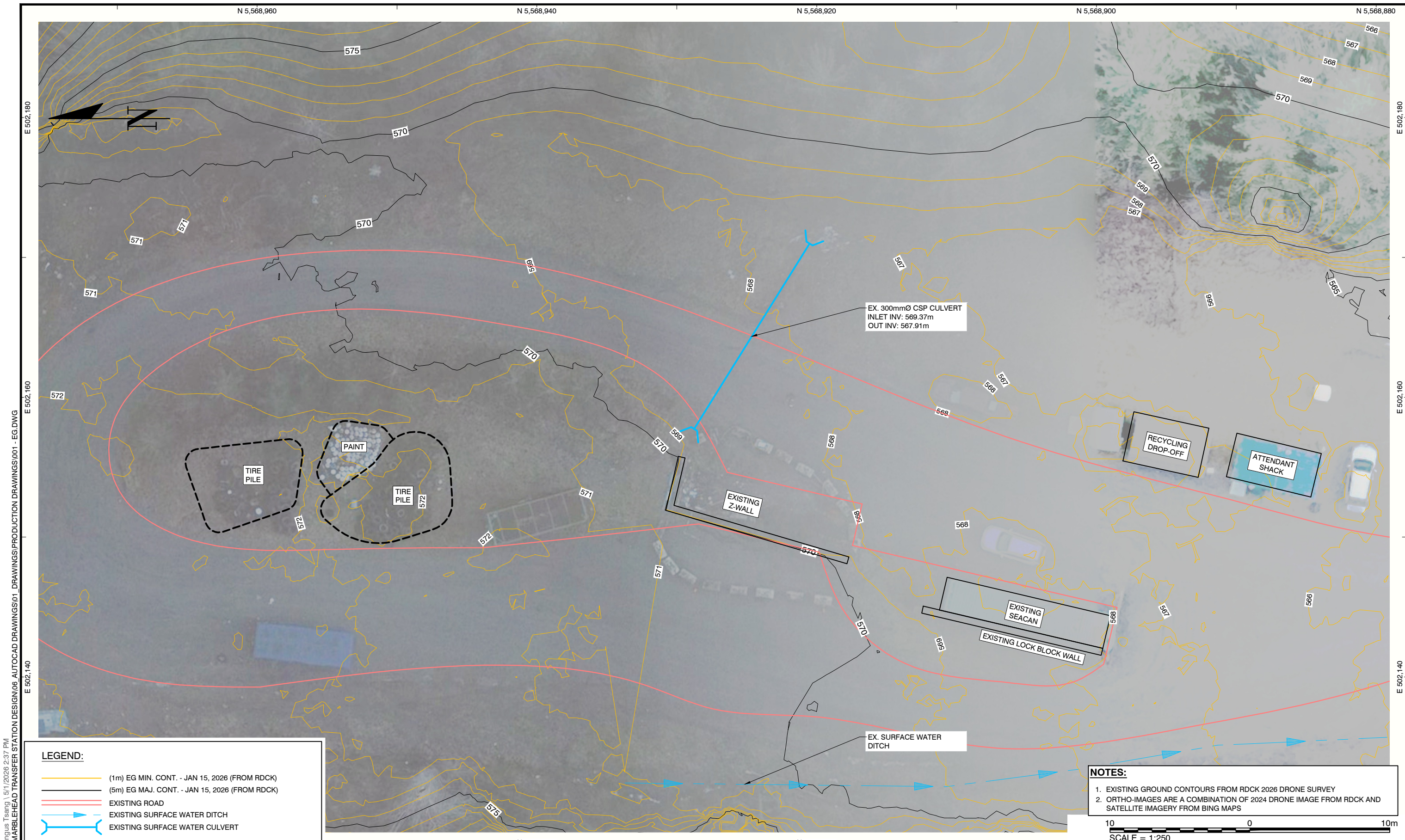
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DRAWN BY: AT	DATE CREATED: 2026/05/01	COVER SHEET AND LIST OF DRAWINGS		
CHECKED BY: SG	HORIZONTAL SCALE: NA			
APPROVED BY: MC	VERTICAL SCALE: NA	DRAWING NO:	REV	SHEET
ADJUST SCALE 50% FOR 34"x22" SHEET		26022-000	C	000



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A	2026/04/09	ISSUED FOR 90% REVIEW	AT	SG	--

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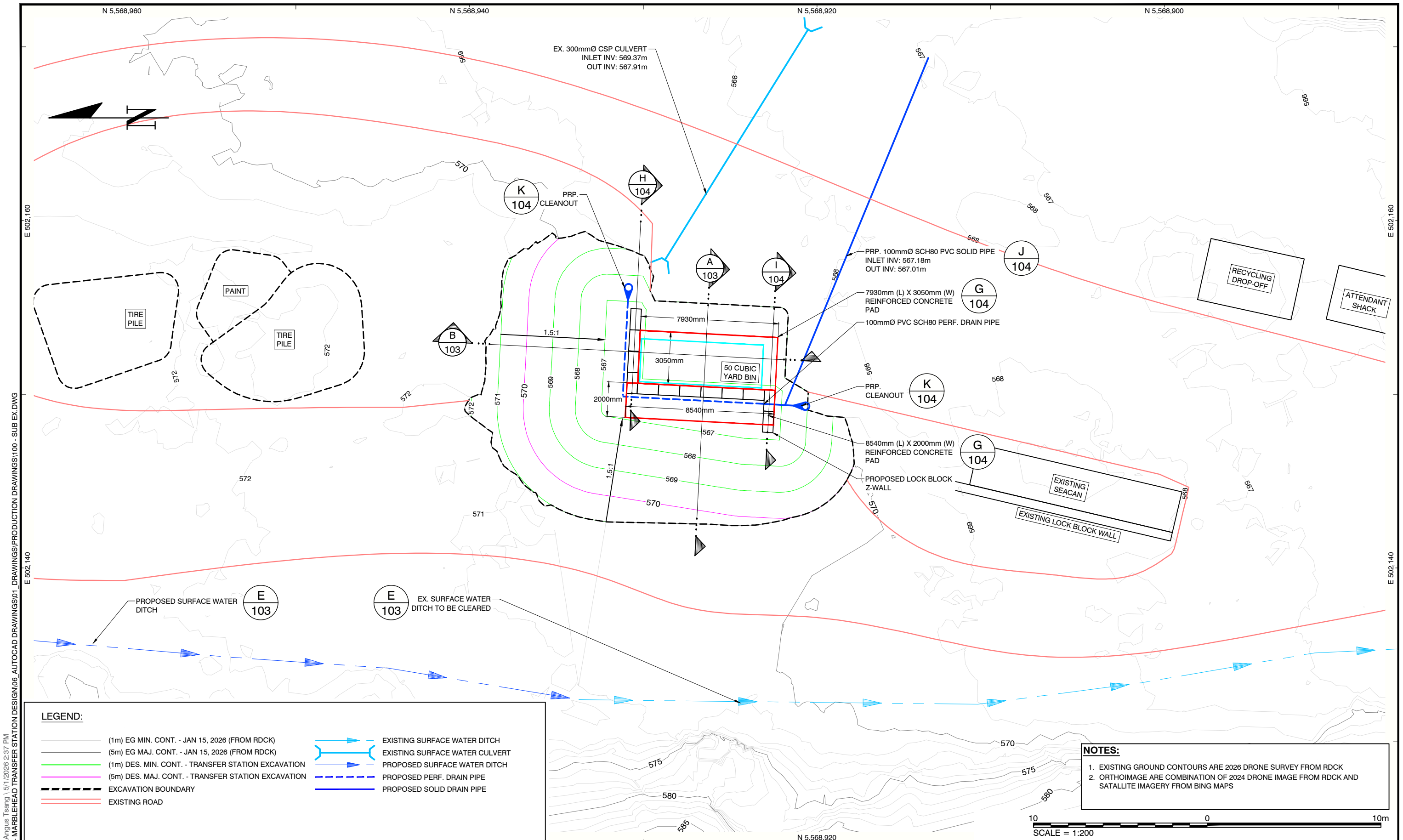


CLIENT:

DESIGN BY: SG	SHA PROJECT # PRJ26022	MARBLEHEAD TRANSFER STATION DESIGN
DRAWN BY: AT	DATE CREATED: 2026/05/01	EXISTING TOPOGRAPHY JAN 15, 2026 & SITE FEATURES
CHECKED BY: SG	HORIZONTAL SCALE: 1:250	
APPROVED BY: MC	VERTICAL SCALE: 1:250	DRAWING NO: 26022-001

ADJUST SCALE 50% FOR 34"x22" SHEET

REV	SHEET
C	001

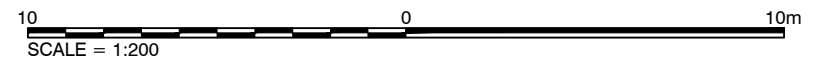


LEGEND:

	(1m) EG MIN. CONT. - JAN 15, 2026 (FROM RDCK)		EXISTING SURFACE WATER DITCH
	(5m) EG MAJ. CONT. - JAN 15, 2026 (FROM RDCK)		PROPOSED SURFACE WATER DITCH
	(1m) DES. MIN. CONT. - TRANSFER STATION EXCAVATION		PROPOSED PERF. DRAIN PIPE
	(5m) DES. MAJ. CONT. - TRANSFER STATION EXCAVATION		PROPOSED SOLID DRAIN PIPE
	EXCAVATION BOUNDARY		
	EXISTING ROAD		

NOTES:

- EXISTING GROUND CONTOURS ARE 2026 DRONE SURVEY FROM RDCK
- ORTHOIMAGE ARE COMBINATION OF 2024 DRONE IMAGE FROM RDCK AND SATALLITE IMAGERY FROM BING MAPS



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A	2026/04/09	ISSUED FOR 90% REVIEW	AT	SG	--

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DESIGN BY: SG	SHA PROJECT # PRJ26022	MARBLEHEAD TRANSFER STATION DESIGN
DRAWN BY: AT	DATE CREATED: 2026/05/01	TRANSFER STATION EXCAVATION SUBGRADE
CHECKED BY: SG	HORIZONTAL SCALE: 1:200	
APPROVED BY: MC	VERTICAL SCALE: 1:200	DRAWING NO: 26022-100

TRANSFER STATION EXCAVATION SUBGRADE		
DRAWING NO: 26022-100	REV: C	SHEET: 100

ADJUST SCALE 50% FOR 34"x22" SHEET

N 5,568,960

N 5,568,940

N 5,568,920

N 5,568,900

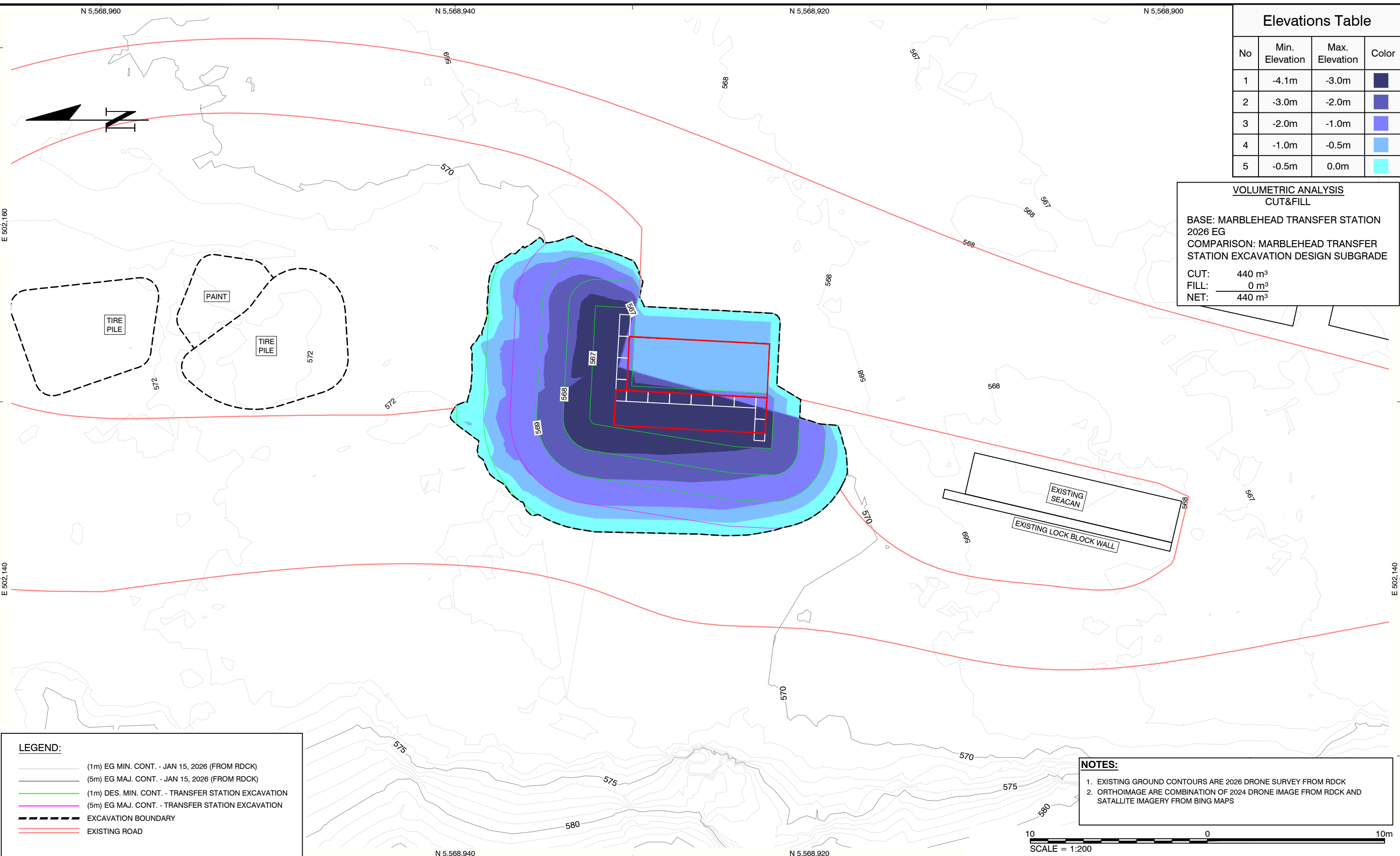
Elevations Table

No	Min. Elevation	Max. Elevation	Color
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2	-3.0m	-2.0m	Medium Blue
3	-2.0m	-1.0m	Light Blue
4	-1.0m	-0.5m	Very Light Blue
5	-0.5m	0.0m	Cyan

VOLUMETRIC ANALYSIS CUT&FILL

BASE: MARBLEHEAD TRANSFER STATION
2026 EG
COMPARISON: MARBLEHEAD TRANSFER
STATION EXCAVATION DESIGN SUBGRADE

CUT: 440 m³
FILL: 0 m³
NET: 440 m³

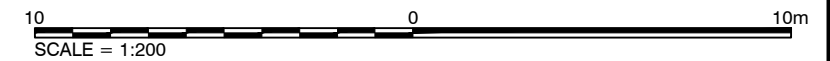


LEGEND:

- (1m) EG MIN. CONT. - JAN 15, 2026 (FROM RDCK)
- (5m) EG MAJ. CONT. - JAN 15, 2026 (FROM RDCK)
- (1m) DES. MIN. CONT. - TRANSFER STATION EXCAVATION
- (5m) EG MAJ. CONT. - TRANSFER STATION EXCAVATION
- EXCAVATION BOUNDARY
- EXISTING ROAD

NOTES:

1. EXISTING GROUND CONTOURS ARE 2026 DRONE SURVEY FROM RDCK
2. ORTHOIMAGE ARE COMBINATION OF 2024 DRONE IMAGE FROM RDCK AND SATALLITE IMAGERY FROM BING MAPS



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A	2026/04/09	ISSUED FOR 90% REVIEW	AT	SG	--

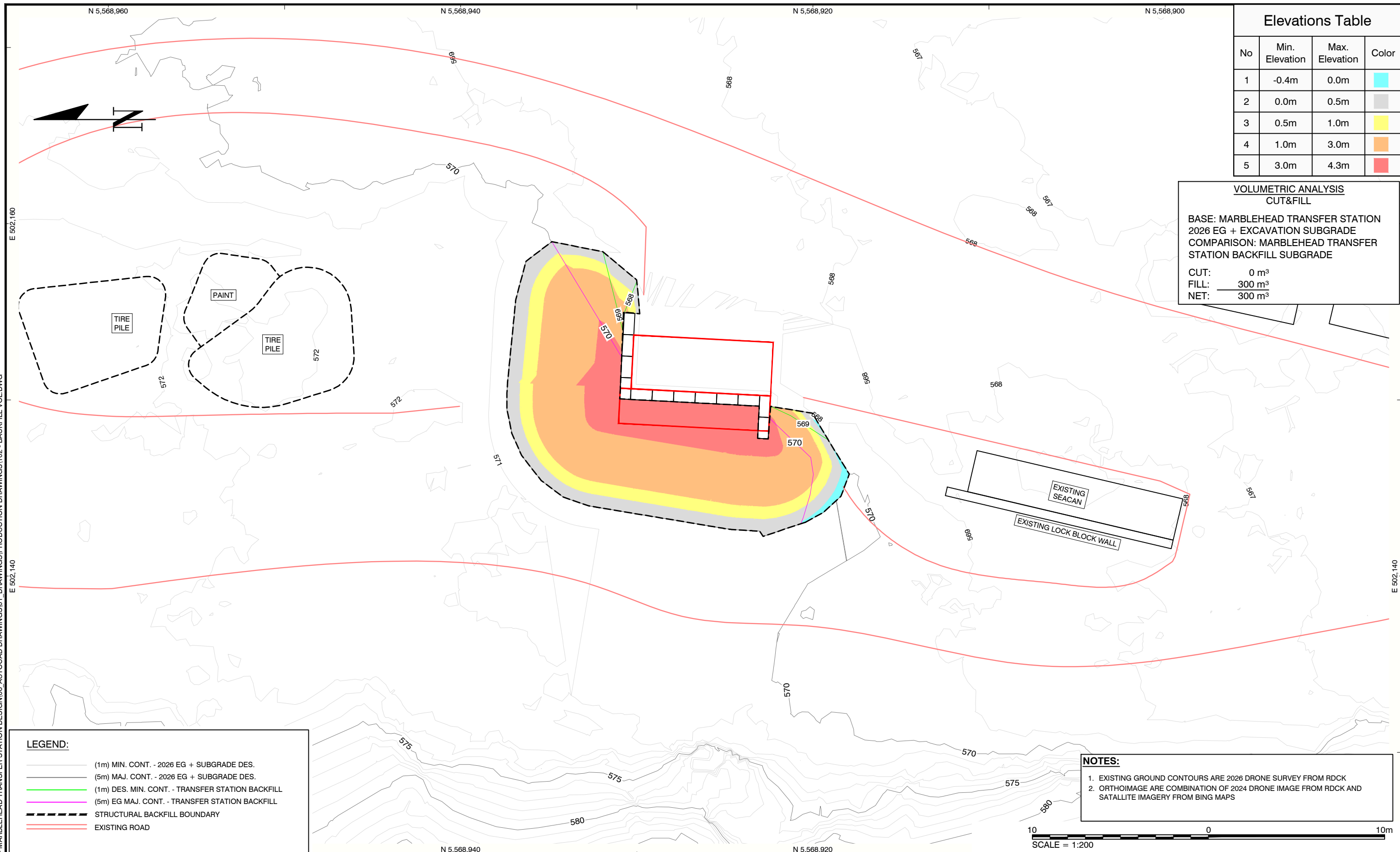
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DESIGN BY: SG	SHA PROJECT # PRJ26022	MARBLEHEAD TRANSFER STATION DESIGN	
DRAWN BY: AT	DATE CREATED: 2026/05/01	TRANSFER STATION EXCAVATION SUBGRADE EARTHWORKS	
CHECKED BY: SG	HORIZONTAL SCALE: 1:200	DRAWING NO:	REV
APPROVED BY: MC	VERTICAL SCALE: 1:200	26022-101	C
ADJUST SCALE 50% FOR 34"x22" SHEET		SHEET 101	



Elevations Table			
No	Min. Elevation	Max. Elevation	Color
1	-0.4m	0.0m	■
2	0.0m	0.5m	■
3	0.5m	1.0m	■
4	1.0m	3.0m	■
5	3.0m	4.3m	■

VOLUMETRIC ANALYSIS
CUT&FILL

BASE: MARBLEHEAD TRANSFER STATION
2026 EG + EXCAVATION SUBGRADE
COMPARISON: MARBLEHEAD TRANSFER STATION
BACKFILL SUBGRADE

CUT: 0 m³
FILL: 300 m³
NET: 300 m³

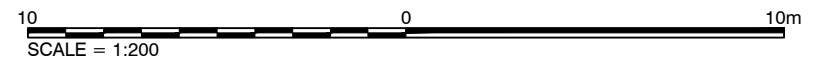
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LEGEND:

- (1m) MIN. CONT. - 2026 EG + SUBGRADE DES.
- (5m) MAJ. CONT. - 2026 EG + SUBGRADE DES.
- (1m) DES. MIN. CONT. - TRANSFER STATION BACKFILL
- (5m) EG MAJ. CONT. - TRANSFER STATION BACKFILL
- - - STRUCTURAL BACKFILL BOUNDARY
- EXISTING ROAD

NOTES:

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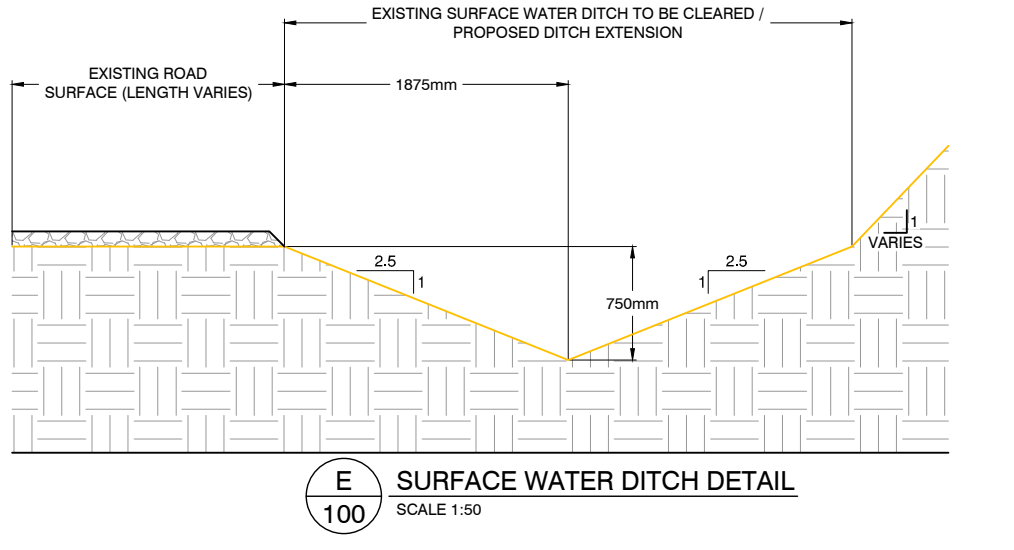
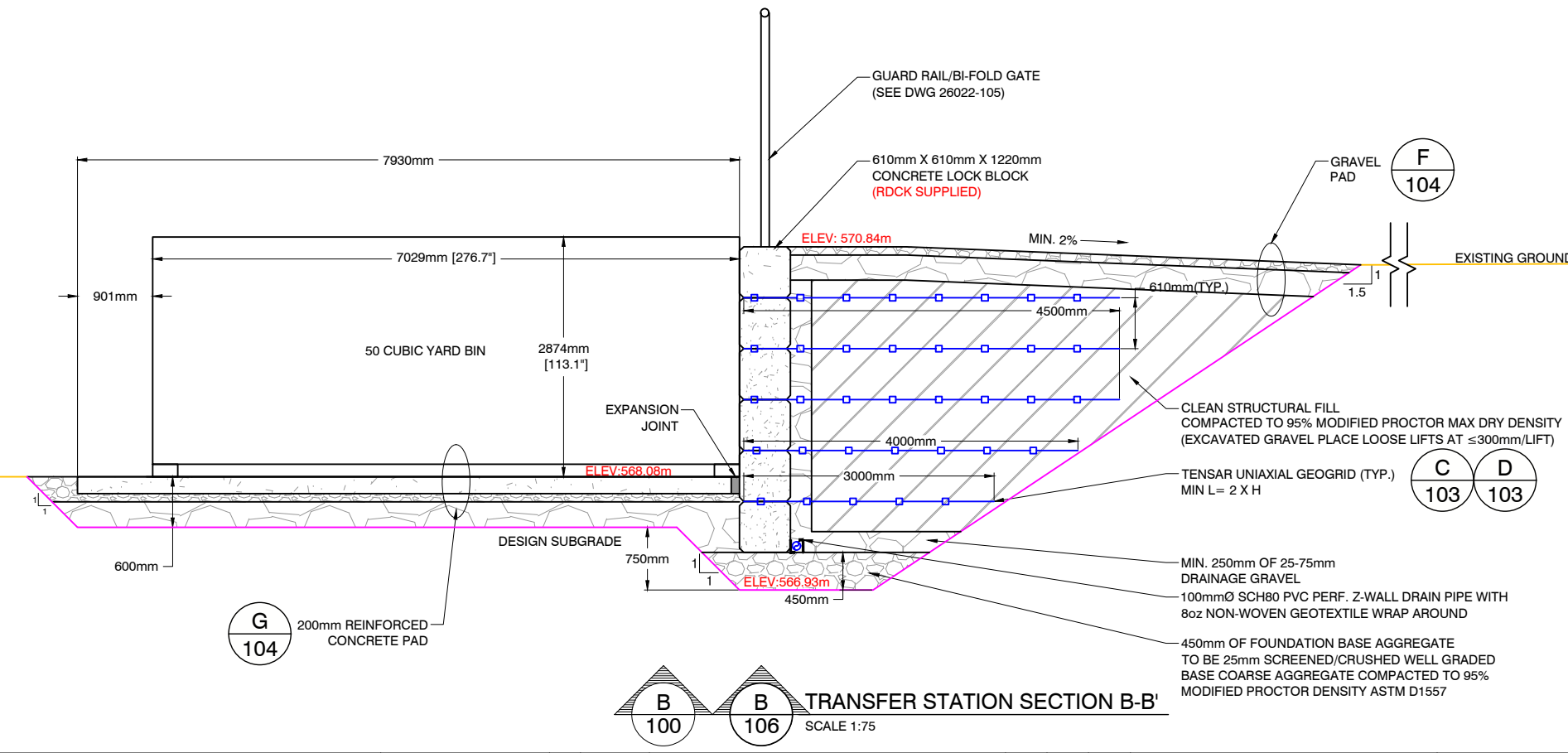
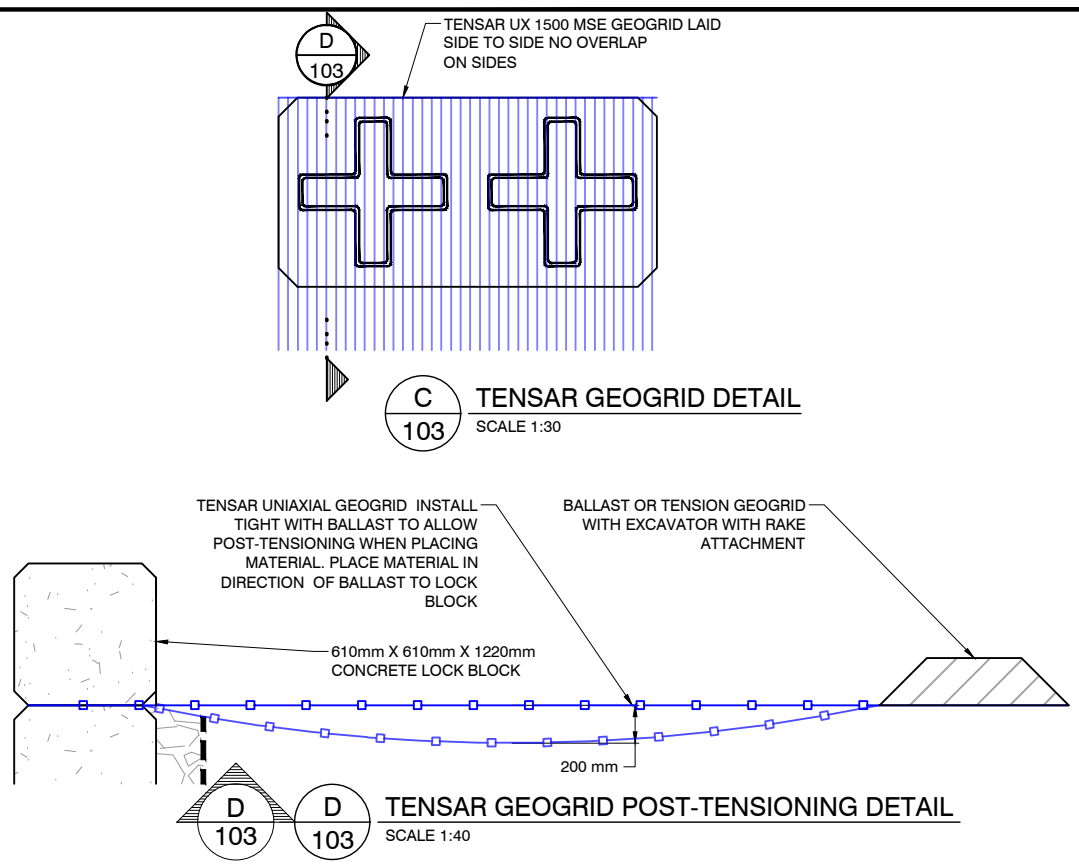
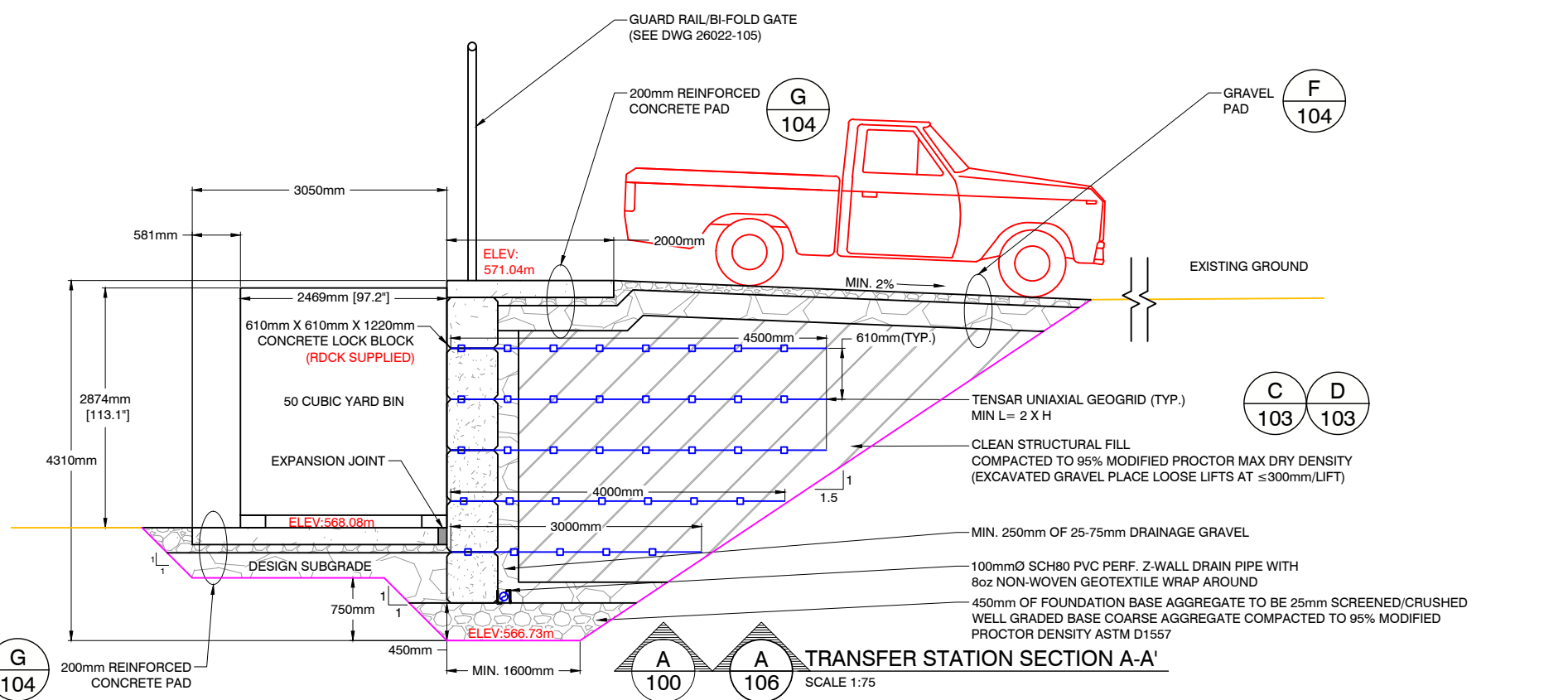
CLIENT:

DESIGN BY: SG	SHA PROJECT # PRJ26022	MARBLEHEAD TRANSFER STATION DESIGN
DRAWN BY: AT	DATE CREATED: 2026/05/01	TRANSFER STATION STRUCTURAL BACKFILL EARTHWORKS
CHECKED BY: SG	HORIZONTAL SCALE: 1:200	
APPROVED BY: MC	VERTICAL SCALE: 1:200	

DRAWING NO:	REV	SHEET
26022-102	C	102

ADJUST SCALE 50% FOR 34"x22" SHEET

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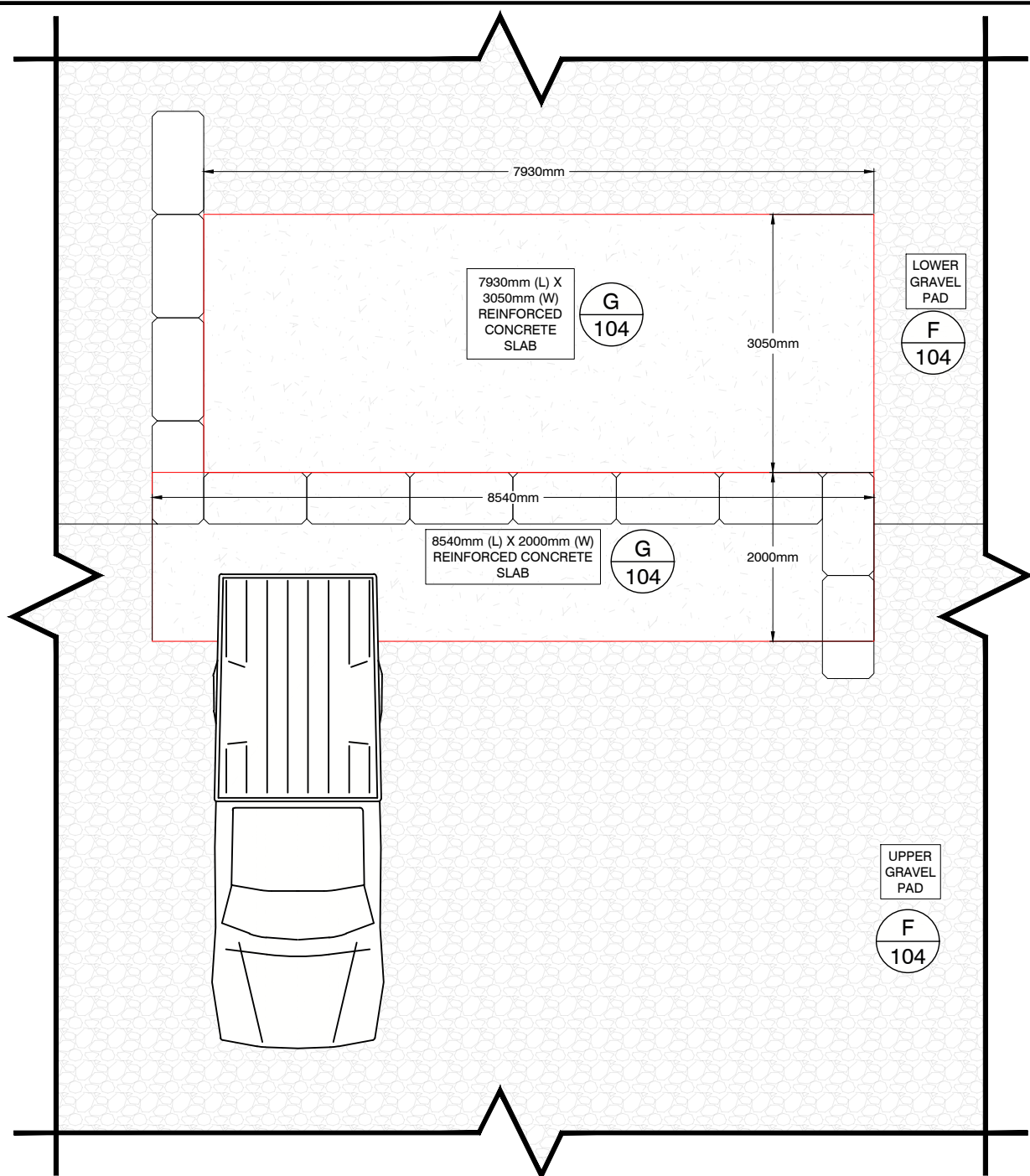
CLIENT:

DESIGN BY: SG	SHA PROJECT # PRJ26022	MARBLEHEAD TRANSFER STATION DESIGN
DRAWN BY: AT	DATE CREATED: 2026/05/01	SECTION A-A', B-B' & DETAILS
CHECKED BY: SG	HORIZONTAL SCALE: AS SHOWN	
APPROVED BY: MC	VERTICAL SCALE: AS SHOWN	

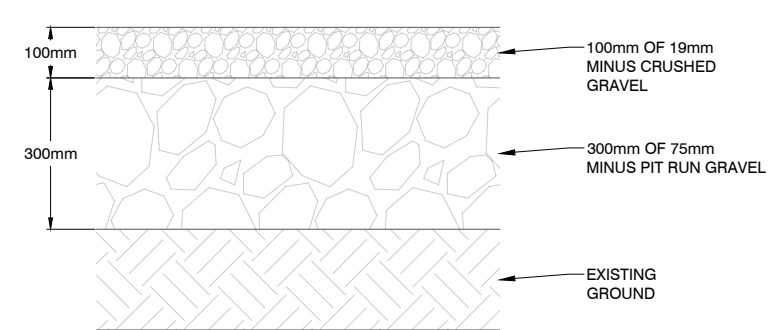
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26022-103	C	103

ADJUST SCALE 50% FOR 34"x22" SHEET

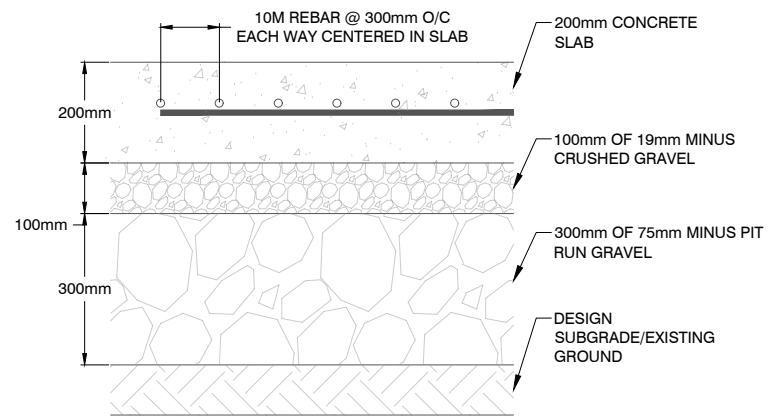
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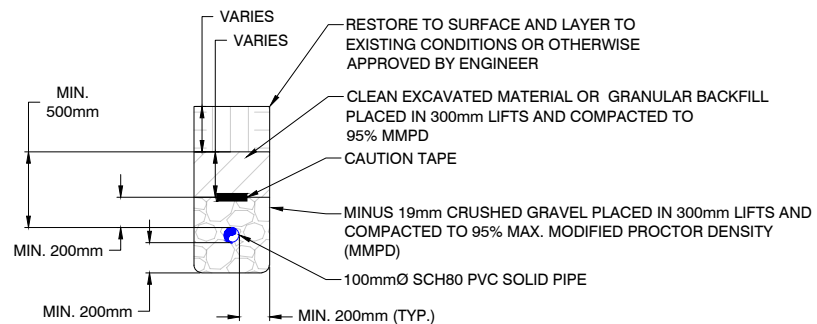
PLAN VIEW
SCALE 1:75



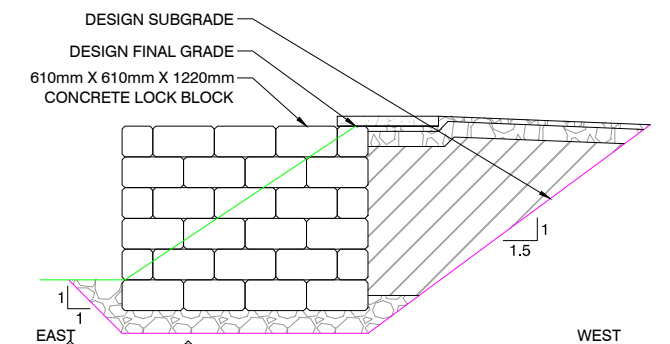
GRAVEL PAD DETAIL
SCALE 1:15



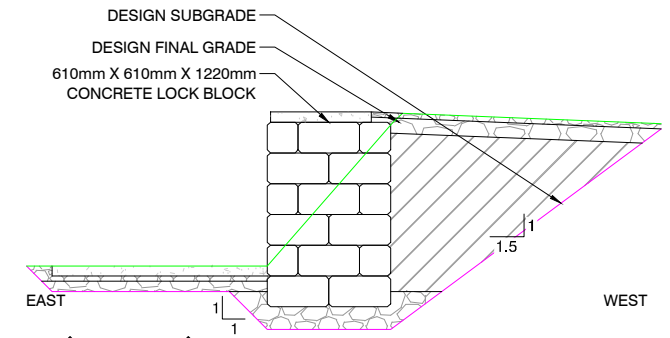
REINFORCED CONCRETE PAD DETAIL
SCALE 1:15



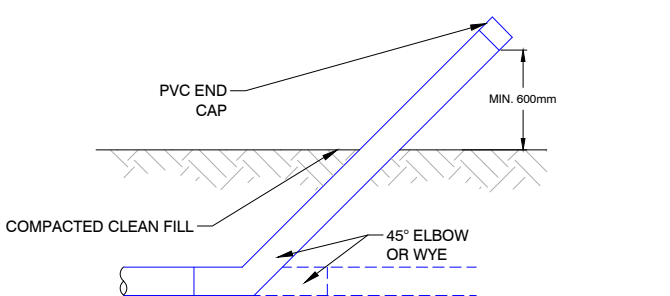
100mmØ SCH80 PVC PIPE TRENCHING DETAIL
SCALE NTS



LOCK BLOCK WALL SECTION H-H'
SCALE 1:150



LOCK BLOCK WALL SECTION I-I'
SCALE 1:150



CLEANOUT DETAIL
SCALE NTS

SPECIFICATIONS

- ALL WORKS SHALL BE IN ACCORDANCE WITH MMCD AND THE NATIONAL BUILDING CODE OF CANADA.
- FOUNDATION GROUND SHALL BE CAREFULLY EXCAVATED SO AS TO NOT DISTURB THE EXISTING AREA IN EXCESS OF 100mm BELOW GRANULAR BASE UNDER SLABS OR LOCK-BLOCK WALLS. FOUNDATION SUBGRADE TO BE COMPACTED TO AT LEAST 95% MODIFIED PROCTOR DENSITY.
- SUB BASE AND BASE COURSE TO BE COMPACTED TO 95% MODIFIED PROCTOR DENSITY.
- BACKFILL SHALL BE IMPORTED GRANULAR MATERIALS. DO NOT USE VIBRATORY COMPACTION WITHIN 500mm OF WALL.
- CONCRETE SLABS SHALL BE IN ACCORDANCE WITH C.S.A. CAN 3 A 23.1. CONCRETE SHALL BE AT LEAST 30MPa AT 28 DAYS. THE STRUCTURE SHALL NOT BE OPENED TO TRAFFIC UNTIL THE CONCRETE HAS ATTAINED A MINIMUM COMPRESSION STRENGTH OF 100% OF THE DESIGN STRENGTH.
- PLACING - DO NOT PLACE CONCRETE DURING RAIN OR ON PONDED WATER OR FROZEN BASE. DO NOT PLACE CONCRETE WHEN AIR TEMPERATURE APPEARS LIKELY TO FALL BELOW 5deg. C WITHIN 24H, UNLESS SPECIFIED PRECAUTIONS ARE TAKEN AND APPROVED BY CONTRACT ADMINISTRATOR. DISCONTINUE PLACEMENT AT EXPANSION, CONSTRUCTION OR ISOLATION JOINTS ONLY. CONCRETE SHALL BE THOROUGHLY AND UNIFORMLY COMPACTED BY MEANS OF INTERNAL MECHANICAL VIBRATION WITH INTERNAL VIBRATORS. FRESHLY PLACED CONCRETE SHALL BE PROTECTED FROM DRYING

FOR A PERIOD OF AT LEAST 3 DAYS BY THE USE OF ABSORBENT MATS WHICH SHALL BE WETTED DOWN AS REQUIRED.

- FINISHING - FINISH EXPOSED EDGES WITH 19MM CHAMFER OR 10mm EDGER. FINISH SURFACE OF CONCRETE WITH MAGNESIUM OR WOOD FLOAT AND BRUSH OR BROOM TO PROVIDE UNIFORM NON-SKID SURFACE. AFTER FINISHING, THE CONTRACTOR SHALL TEST THE SMOOTHNESS OF THE PAVEMENT SURFACE WITH A 3m METAL STRAIGHTEDGE. NOTICEABLE DEVIATIONS SHALL BE CORRECTED AT THIS TIME.
- EXPANSION JOINTS - SAW EXPANSION JOINTS AT A MAXIMUM SPACING OF 4m. JOINTS BE SAWN SHALL AS SOON AS THE CONCRETE SURFACE HAS HARDENED SUFFICIENTLY TO RESIST RAVELLING AS THE CUT IS MADE; NO LATER THAN 12H AFTER CONCRETE PLACEMENT. EXTEND THROUGH FULL DEPTH OF CONCRETE. FILL WITH EXPANSION JOINT MATERIAL.
- JOINT SEALANT - THE CONTRACTOR CAN USE PRE-MOULDED NEOPRENE SEALANT, IMPREGNATED EXPANDING FOAM INSERT OR EQUIVALENT APPROVED BY ENGINEER. ALTERNATIVELY THE CONTRACTOR CAN USE PERMANENT FLEXIBLE POLYURETHANE BASE ELASTOMERIC SEALANT. THE SEALANT SHALL EXTEND THE FULL WIDTH OF THE CONCRETE AND SHALL RETAIN ELASTICITY AND DURABILITY OVER A TEMPERATURE RANGE OF -40deg. C TO +65deg. C. DO NOT APPLY SEALANT UNTIL CONCRETE HAS AGED FOR MIN 7 DAYS. FLEXIBLE JOINT SEALANT SHALL BE INSTALLED IN ACCORDANCE WITH THE MANUFACTURER'S RECOMMENDATIONS
- TESTING
 - COMPRESSIVE STRENGTH TESTING - THE TEST CYLINDERS SHALL BE CAST BY THE CONTRACTOR IN STANDARD CSA APPROVED MOULDS MADE OF REPRESENTATIVE CONCRETE AS IT IS BEING INTRODUCED INTO THE FORMS. THE CONTRACTOR SHALL ENSURE THAT THE SPECIMENS ARE NOT DISTURBED DURING THE CURING PERIOD.

CONTRACTOR TO PREPARE 4 SAMPLES FOR EVERY 100cu.m. OF CONCRETE AND/OR FOR EACH DAY THE CONCRETE IS CAST-IN-PLACE. THE CONTRACTOR SHALL ALLOW THE ENGINEER TO INSPECT THE SAMPLES AND SHALL DELIVER THE TEST CYLINDERS TO AN INDEPENDENT CSA CERTIFIED TESTING LABORATORY. COMPRESSIVE STRENGTH TESTS TO BE CARRIED ON MINIMUM TWO SPECIMENS AT 7 AND 28 DAYS RESPECTIVELY. HANDLING AND TRANSPORTING OF THE CYLINDERS SHALL BE IN ACCORDANCE WITH CSA 23.2-3C.

- COMPACTION TESTING - STANDARD TEST METHOD FOR RAPID DETERMINATION OF PERCENT COMPACTION, ASTM D5080, AT LEAST 1 TEST PER 300 m³ OF COMPACTED FILL
- STEEL REINFORCING - ALL REINFORCING STEEL SHALL BE SECURED IN SUCH A MANNER SO THAT IT DOES NOT MOVE DURING CONCRETE PLACEMENT OPERATIONS. SPACERS SHALL BE INSTALLED AT NO MORE THAN 1m CENTERS. ALL STEEL REINFORCEMENT WILL BE INSPECTED BY ENGINEER PRIOR TO CONCRETE PLACEMENT.
- LOCK-BLOCKS SHALL BE 610x610x1220mm OR 610x610x610mm CONCRETE BLOCKS CAST FROM THE SAME FORM. BLOCKS SHALL HAVE A UNIFORM APPEARANCE AND ALL BLOCKS SHALL BE CAST IN A SINGLE POUR WITH NO COLD JOINTS IN THEM. BLOCKS SHALL BE LAID ON A PROPERLY PREPARED BASE, SCREENED LEVEL, SO AS TO ENSURE UNIFORM EVEN BEARING AND STABLE CONSTRUCTION.
- MINIMAL BURIAL DEPTH OF BOTTOM LOCK BLOCK TO BE 500mm

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North Vancouver, B.C. V7J 1J3
Phone: (604) 986-7723

- Landfill Siting
- Design & Operations Plans
- Landfill Closure
- Environmental Monitoring

No.	DATE	REVISIONS	DRAWN	CHKD	APPD
C	2026/05/01	ISSUED FOR TENDER	AT	SG	MC
B	2026/04/25	ISSUED FOR 90% REVIEW - REV 1	AT	SG	--
A	2026/04/09	ISSUED FOR 90% REVIEW	AT	SG	--

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CLIENT:

DESIGN BY: SG	SHA PROJECT # PRJ26022	MARBLEHEAD TRANSFER STATION DESIGN
DRAWN BY: AT	DATE CREATED: 2026/05/01	LOCK BLOCK WALL PLAN VIEW AND SPECIFICATION
CHECKED BY: SG	HORIZONTAL SCALE: AS SHOWN	
APPROVED BY: MC	VERTICAL SCALE: AS SHOWN	

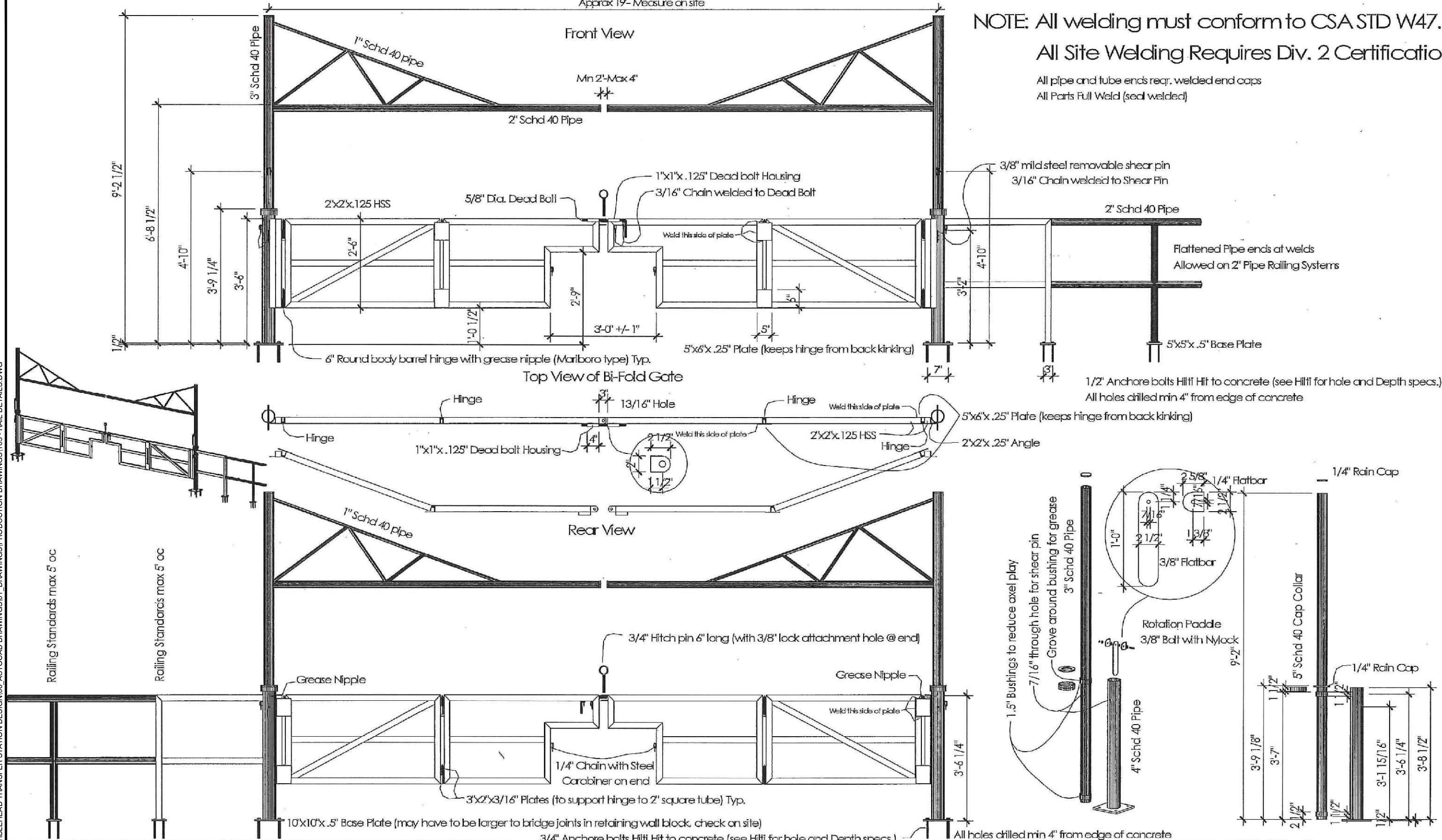
DRAWING NO:	REV	SHEET
26022-104	C	104

ADJUST SCALE 50% FOR 34"x22" SHEET

Approx 19'- Measure on site

NOTE: All welding must conform to CSA STD W47.1
All Site Welding Requires Div. 2 Certification

All pipe and tube ends req. welded end caps
 All Parts Full Weld (seal welded)



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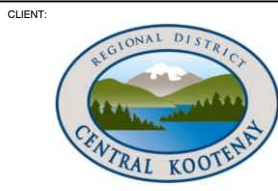


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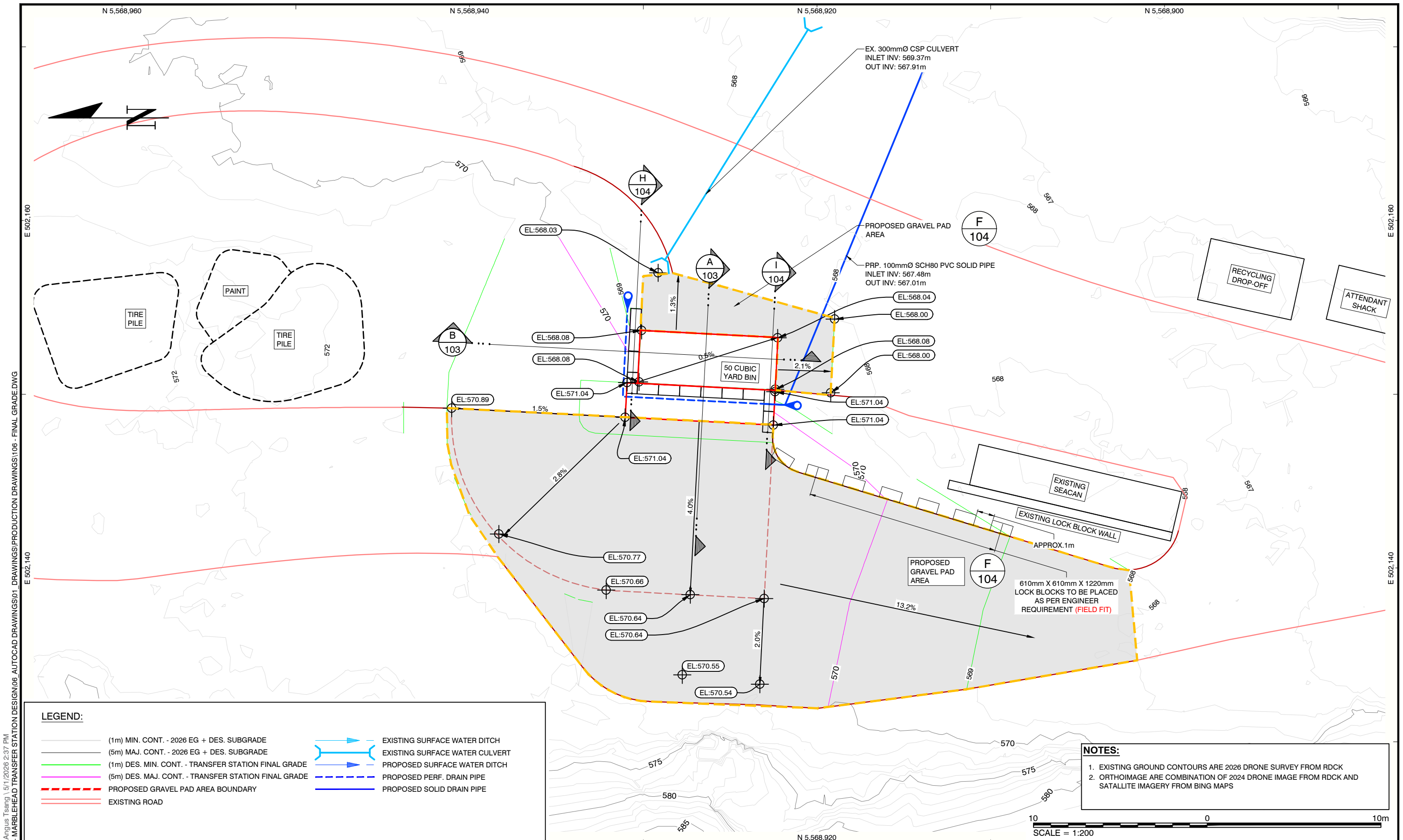
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No.	DATE	REVISIONS	DRAWN	CHKD	APPD
C	2026/05/01	ISSUED FOR TENDER	AT	SG	MC
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DESIGN BY: SG	SHA PROJECT # PRJ26022	MARBLEHEAD TRANSFER STATION DESIGN
DRAWN BY: AT	DATE CREATED: 2026/05/01	RAILING AND BI-FOLD GATE DETAIL
CHECKED BY: SG	HORIZONTAL SCALE: NA	
APPROVED BY: MC	VERTICAL SCALE: NA	DRAWING NO: 26022-105
ADJUST SCALE 50% FOR 34"x22" SHEET		REV: C
		SHEET: 105

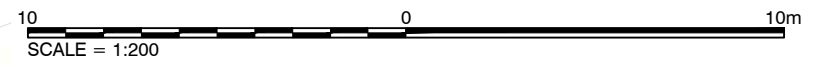


LEGEND:

- (1m) MIN. CONT. - 2026 EG + DES. SUBGRADE
- (5m) MAJ. CONT. - 2026 EG + DES. SUBGRADE
- (1m) DES. MIN. CONT. - TRANSFER STATION FINAL GRADE
- (5m) DES. MAJ. CONT. - TRANSFER STATION FINAL GRADE
- PROPOSED GRAVEL PAD AREA BOUNDARY
- EXISTING ROAD
- > EXISTING SURFACE WATER DITCH
- > EXISTING SURFACE WATER CULVERT
- > PROPOSED SURFACE WATER DITCH
- > PROPOSED PERF. DRAIN PIPE
- > PROPOSED SOLID DRAIN PIPE

NOTES:

1. EXISTING GROUND CONTOURS ARE 2026 DRONE SURVEY FROM RDCK
2. ORTHOIMAGE ARE COMBINATION OF 2024 DRONE IMAGE FROM RDCK AND SATALLITE IMAGERY FROM BING MAPS



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No.	DATE y/m/day	REVISIONS	DRAWN	CHKD	APPD
C	2026/05/01	ISSUED FOR TENDER	AT	SG	MC
B	2026/04/25	ISSUED FOR 90% REVIEW - REV 1	AT	SG	--
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CLIENT:

DESIGN BY: SG	SHA PROJECT # PRJ26022	MARBLEHEAD TRANSFER STATION DESIGN	
DRAWN BY: AT	DATE CREATED: 2026/05/01	TRANSFER STATION DESIGN FINAL GRADE	
CHECKED BY: SG	HORIZONTAL SCALE: 1:200	DRAWING NO:	REV
APPROVED BY: MC	VERTICAL SCALE: 1:200	26022-106	C
ADJUST SCALE 50% FOR 34"x22" SHEET		SHEET	106