

File No. 1790-20

February 20, 2018

TO WHOM IT MAY CONCERN

Re: DISTRICT OF SOOKE

MURRAY ROAD STAIRCASE CONSTRUCTION INVITATION TO QUOTE FOR CONSTRUCTION

Quotation General Terms and Instructions:

The District of Sooke (the "District") is requesting a quote (the "Quotation") for construction for the Murray Road Staircase Construction project. The Quotation is to be submitted using the Quotation Form (Appendix 2). There will be no public opening of Quotations.

There will be no pre-bid meeting for this project. Any questions are to be directed to Paul Butterfield by email at pbutterfield@sooke.ca by phone at (250) 642-1634.

It is expected that any person that submits a Quotation (the "Contractor") will be satisfied with the extent of work required and that minor modifications will not add additional costs to the District. By delivering a Quotation, the Contractor irrevocably agrees that the Contractor has received, read, examined the site, and fully understood the scope of work and all terms of reference within this Request and all the attached appendices. The full scope of work is described in the Project Specifications (Appendix 1). It is the responsibility of the Contractor to regularly check for addendums at https://sooke.ca/municipal-hall/documents-forms/tenders-and-rfps/.

The District may, in its sole discretion, disqualify any or all Quotations, cancel this Request for Quotes, reject any or all Quotations, and to re-bid the same or similar Work at any time. The District reserves the right to reject any or all Quotations. The lowest Quotation will not necessarily be accepted. The District reserves the right to waive informalities and accept the Quotation deemed most favorable to the District of Sooke at their sole discretion. Any Quotation provided by the Contractor shall remain open for 30 days.

Please provide your fully completed Quotation Form, to the attention of the undersigned electronically at info@sooke.ca, or in person at 2205 Otter Point Road by 2:00pm on Friday, March 16, 2018.

Regards,

Paul Butterfield Engineering Technologist



Appendix 1- Project Specifications:

The Contractor is required to perform the various services and works shown in the attached figures and listed in the Project Specifications. All addendums issued by the District for this project are to be included as part of the Project Specifications listed hereunder:

1) Description of Work

The work involves construction of a staircase at the southern extent of Murray Road, following the approximate alignment of the previously existing staircase. The staircase will facilitate pedestrian traffic between Murray Road and the Boardwalk.

2) Scope of Work

The Contractor is responsible for the following:

- a) All site preparation and layout necessary for installation of footings and/or the staircase;
- b) Supply and install of all materials as required to construct the staircase to according to the specifications shown in the Reference Drawings.
- c) Remove and dispose of any organics, excess construction material, waste material, unused fill or other debris left over from excavation or construction;
- d) Provide all flagging, signage and traffic management as required to maintain a safe and controlled work site both during, and after working hours;
- e) Verify all property lines, elevations, grades, measurements, etc. as they relate to the design drawings;

3) General Conditions

- The Contractor shall be solely responsible for construction means, methods, techniques, sequences, and procedures for coordinating the various parts of the work in the Scope of Work;
- b) This is a "field-fit" project. There are no detailed design drawings. The Contractor is to construct the staircase along an alignment approved by the District, with structural members, fasteners, and connections conforming to the standards shown in the detailed construction specifications;
- c) Basic problem-solving and decision-making is expected as it relates to minor works, such as determining stair-tread rise/run, smoothly connecting railing sections, installing blocking, and notching wood to fit hangers/brackets, etc.;
- d) The Contractor is to construct the staircase to the approximate topographic layout and dimensions as shown in **Drawing #1- Staircase layout**;
- e) The detailed construction specifications are listed on Drawing Set #2- Specification
 Drawings (Page One). The Contractor is responsible for adhering to all listed
 specifications from "HEL-001" through "HEL-027" (including "HEL-041", which is listed
 out of chronological order);
- f) Material types/dimensions and connection details are shown on **Drawing Set #2- Specification Drawings (Page Two).** The Contractor is responsible for using grades



and dimensions of lumber, and constructing connections, stair, and platform sections in accordance with details "Detail 1" through "Detail 6" on the aforementioned drawing;

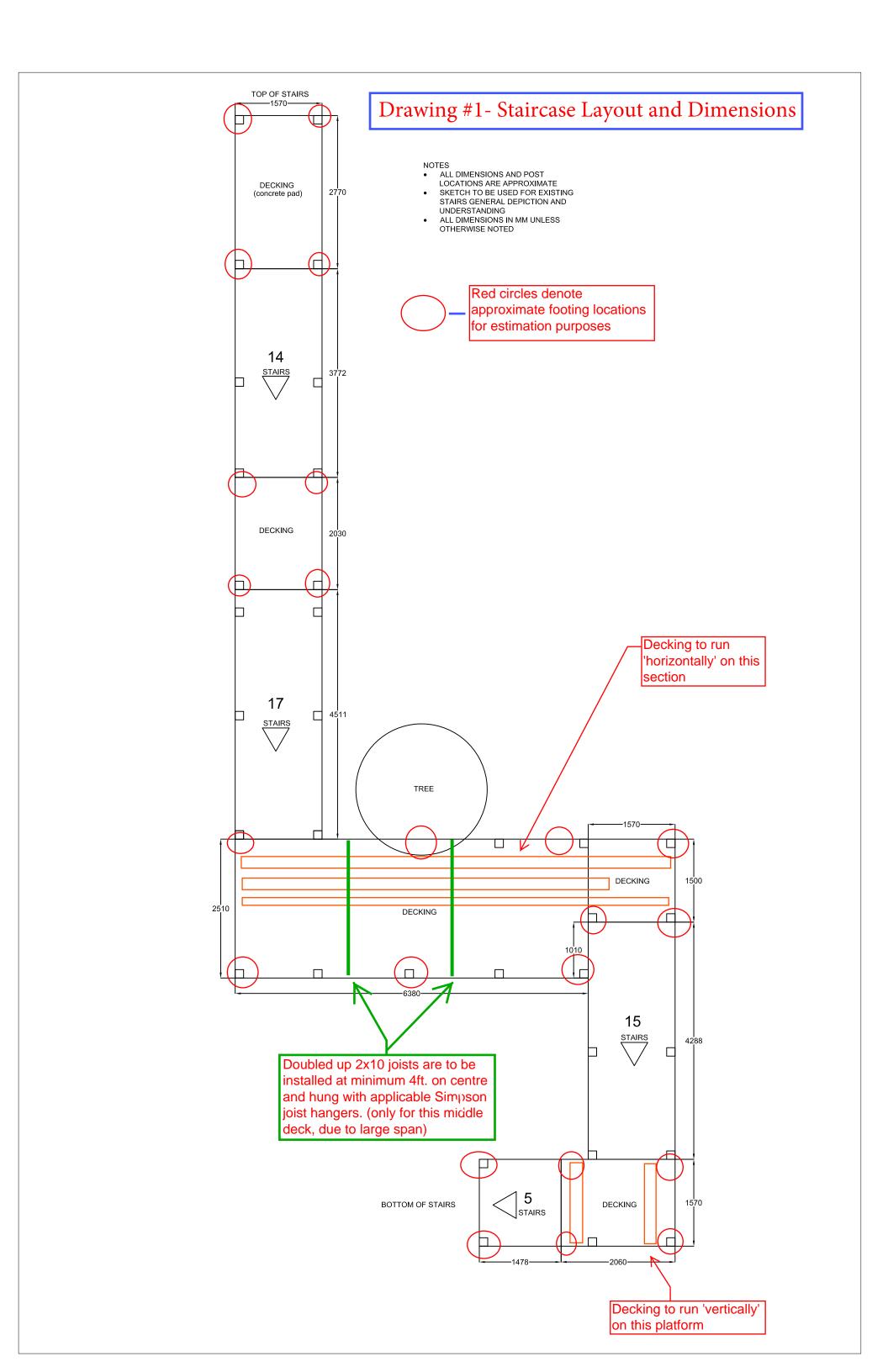
- g) The staircase is to be constructed in a way that all stringers, beams, and joists are to be at least 0.6m above finished grade.
- h) Large dimension lumber is to be incised and treated with ACZA. For smaller dimension lumber, such as 2x10 blocking or joist sections, the Contractor may use 'lumber-store' CCA or ACQ treated wood;
- Any changes to the general conditions, detailed specifications, materials, or alignment must be approved by a representative of the District's Department of Development Services.
- j) The Contractor is not responsible for works or details labelled "N.I.C" (Not In Contract) within the design drawings.

4) Reference Material

Attached are the drawings, showing general layout, as well as detailed specifications. Also included for reference are a site survey and a geotechnical report. It is the responsibility of the contractor to verify all measurements, quantities, materials, and processes required to complete the scope of work.

List of Contents:

- A) Drawing #1- Staircase Layout
- B) Drawing #2- Specification Drawings (two pages)
- C) Attachment #1- Site Survey Plan
- D) Attachment #2- Geotechnical Report (3 pages)



- 1. ALL DESIGN HAS BEEN COMPLETED IN ACCORDANCE WITH THE 2012 EDITION OF THE BRITISH COLUMBIA BUILDING CODE, INCLUDING ALL ADDENDA.
- 2. ALL CONSTRUCTION MUST BE IN ACCORDANCE WITH THE BRITISH COLUMBIA BUILDING CODE, INCLUDING ALL ADDENDA, ALL REFERENCED CODES AND ALL FEDERAL AND MUNICIPAL REGULATIONS AND BY-LAWS.
- 3. ALL REFERENCED CODES AND STANDARDS SHALL BE AS REFERENCED IN THE GOVERNING EDITION OF THE BRITISH COLUMBIA BUILDING CODE
- 4. DESIGN CRITERIA: kPa (psf)

SOOKE	<u> </u>										
SNOW	LOADS	SPEC	SPECTRAL ACCELERATION								
Ss	1.30 kPa (27.14psf)	Sa (0.2)	Sa (0.5)	Sa	(1.0)	Sa (2.0)	PGA			
Sr	0.30 kPa (6.26 psf)	1.1		0.75	0.3	36	0.18	0.53			
ls	ULS 1.0/SLS 0.90										
WIND	LOADS	SEISMIC LOADS				SITE CLASS					
q10	0.37kPa (7.73psf)	Rd	1.5			D	ASSUMED, GEOTECHNICAL REPO REQUIRED TO VERIFY				
q50	0.48kPa (10.02psf)	Ro	1.3								
lw	ULS 1.0/SLS 0.75	le	ULS 1.0								
SPECI	FIED LOADING	DEFLEC	DEFLECTION CRITERIA								
DEAD LOAD = 0.75kPa (15psf) LIVE LOAD = 4.80kPa (100psf) SNOW LOAD = 1.35kPa (30psf)				LIVE LOAD TOTAL LOAD			= L/360 = L/240				

- 5. THESE DRAWINGS INCLUDING DIMENSIONS SHALL BE READ IN CONJUNCTION WITH ALL OTHER PROJECT DRAWINGS AND SPECIFICATIONS. CONTRACTOR SHALL REPORT ANY DISCREPANCIES TO THE STRUCTURAL ENGINEER FOR CLARIFICATION PRIOR TO COMMENCING CONSTRUCTION. CONTRACTOR SHALL BE FAMILIAR WITH ALL PROJECT DRAWINGS INCLUDING THOSE OF OTHER DISCIPLINES AND SHALL MAKE ALLOWANCES FOR ALL ITEMS SHOWN ON OTHER DRAWINGS THAT AFFECT THIS CONTRACTOR'S WORK.
- 6. THESE DRAWINGS SHOW THE COMPLETED STRUCTURE ONLY. PROVIDE TEMPORARY BRACING AND SHORING FOR THE CONSTRUCTION LOADING CONDITIONS AND STABILITY OF THE STRUCTURE DURING CONSTRUCTION. CONSTRUCTION LOADS SHALL NOT EXCEED DESIGN LOADS.
- 7. THE CONTRACTOR SHALL RETAIN A PROFESSIONAL ENGINEER REGISTERED IN THE PROVINCE OF BRITISH COLUMBIA TO DESIGN AND TAKE RESPONSIBILITY FOR ANY TEMPORARY SHORING, BRACING OR OTHER DESIGNS REQUIRED TO COMPLETE CONSTRUCTION.
- 8. UNDER NO CIRCUMSTANCES SHALL DRAWINGS BE SCALED.
- 9. CONTRACTOR AND ALL SUB-TRADES SHALL VERIFY ALL DIMENSIONS ON SITE PRIOR TO COMMENCING FABRICATION.

<u>SUBMITTALS</u>

- WHERE SHOP DRAWINGS ARE REQUESTED IN THE GENERAL NOTES THE CONTRACTOR SHALL PROVIDE THEM IN EITHER HARD COPY OR DIGITAL FORMAT TO THE FOLLOWING REQUIREMENTS FOR THE ENGINEER'S REVIEW PRIOR TO FABRICATION. THE SHOP DRAWINGS SHALL INDICATE DETAILS, DIMENSIONS, MATERIALS AND DESIGN
- 2. DRAWINGS NOT SEALED BY THE SPECIALTY ENGINEER SHALL BE ACCOMPANIED BY A LETTER WITH A DRAWING LIST IDENTIFYING ALL DRAWING NUMBERS, TITLES, MOST RECENT REVISION NUMBERS AND DATES. THE LETTER AND DRAWING LIST ARE TO BE SIGNED AND SEALED BY THE SPECIALTY ENGINEER.
- 3. IF A DIGITAL SUBMISSION IS MADE THE FILES SHALL BE IN PDF FORMAT ON A DISC OR TRANSMITTED VIA E-MAIL. THE SUBMISSION SHALL CONTAIN A LETTER WITH A DRAWING LIST AS DESCRIBED ABOVE SIGNED AND SEALED BY THE SPECIALTY ENGINEER. THE FINAL SUBMISSION SHALL BE MADE AS A HARD COPY BEARING THE ORIGINAL SEAL AND SIGNATURE OF THE SPECIALTY ENGINEER REGISTERED IN THE PROVINCE OF BRITISH COLUMBIA.
- 4. THE FOLLOWING SUBMISSIONS ARE REQUIRED FOR THIS PROJECT:
 - CONCRETE MIX DESIGNS POST AND BEAM TIMBER FRAMING*
 - * INDICATES THE REQUIREMENT THAT SUBMISSION BE SEALED BY A SPECIALTY ENGINEER REGISTERED IN THE PROVINCE OF BRITISH COLUMBIA AND PROVIDE A SCHEDULE 'S' UPON COMPLETION OF THE WORK.
- 6. SHOP DRAWINGS WHICH ARE REQUIRED TO, BUT DO NOT HAVE THE APPROPRIATE ENGINEERS SEAL AND SIGNATURE WILL NOT BE REVIEWED.
- 7. SHOP DRAWINGS WILL BE REVIEWED ONLY FOR GENERAL CONFORMITY WITH THE PROJECT DRAWINGS AND SPECIFICATIONS. QUANTITIES AND DETAILED DIMENSIONS ARE THE CONTRACTORS RESPONSIBILITY. THE REVIEW SHALL NOT RELIEVE THE CONTRACTOR FROM COMPLYING WITH ALL THE REQUIREMENTS OF THE CONTRACT DOCUMENTS INCLUDING COORDINATION WITH OTHER TRADES AND DISCIPLINES. THE CONTRACTOR IS RESPONSIBLE FOR ERRORS AND OMISSIONS ON THE SHOP DRAWINGS.
- 8. SHOP DRAWING SUBMISSIONS FOR THE WORK OF SPECIALTY ENGINEERS SHALL BE AS SET OUT IN THIS
- 9. THE QUALITY ASSURANCE FOR MATERIALS, FABRICATION AND INSTALLATION IS THE RESPONSIBILITY OF THE CONTRACTOR AND HIS SPECIALTY ENGINEER.
- 10. THE SPECIALTY ENGINEER OR HIS REPRESENTATIVE SHALL VISIT THE SITE AND REVIEW THE COMPLETED WORK DESIGNED AND DETAILED ON HIS SHOP DRAWINGS TO SATISFY HIMSELF THAT THE FINISHED COMPONENTS AND ASSEMBLIES ARE IN COMPLIANCE WITH THE ENGINEERED DESIGN. THE SPECIALTY ENGINEER SHALL THEN PROVIDE THE PROJECT ENGINEER OF RECORD WITH A COMPLETED SCHEDULE 'S' FOR THIS WORK ALONG WITH ANY SKETCHES SHOWING FIELD MODIFICATIONS. THESE SKETCHES SHALL BEAR THE SEAL AND SIGNATURE OF THE SPECIALTY ENGINEER.

FIELD REVIEWS

- THE CONTRACTOR SHALL PROVIDE THE ENGINEER WITH A MINIMUM OF 24 HOURS (1 WORKING DAY) ADVANCE NOTICE FOR FIELD REVIEWS.
- THE FOLLOWING FIELD REVIEWS ARE CONSIDERED TO BE THE MINIMUM NUMBER OF STRUCTURAL FIELD REVIEWS REQUIRED FOR THE PROJECT:
 - CONCRETE: REINFORCING STEEL SHALL BE REVIEWED PRIOR TO PLACING CONCRETE. REINFORCING IN CONCRETE WALLS SHALL BE REVIEWED PRIOR TO "BUTTONING UP" WALL FORMS.
- FRAMING SHALL BE REVIEWED PRIOR TO COVERING ANY FRAMING AND BEFORE ADDITIONAL LOADS SUCH AS CONCRETE TOPPING AND MECHANICAL EQUIPMENT ARE APPLIED.
- 3. IF THE ENGINEER IS NOT PROVIDED WITH THE OPPORTUNITY TO PERFORM THE REQUIRED FIELD REVIEWS, FINAL CERTIFICATION OF THE PROJECT WILL NOT BE ISSUED.

FOUNDATIONS <u>HEL-005</u>

1. ASSUMED DESIGN VALUES: BEARING PRESSURE BEARING RESISTANCE FOR SETTLEMENT PAD FOOTINGS 100 kPa (2100 psf) 75 kPa (1570 psf)

- ALLOWABLE BEARING CAPACITY TO BE CONFIRMED BY GEOTECHNICAL ENGINEER PRIOR TO CONSTRUCTION.
- 2. CENTRE ALL FOOTINGS UNDER COLUMNS AND WALLS UNLESS NOTED OTHERWISE.

CONDITIONS THAT DIFFER FROM WHAT IS SHOWN ON DRAWINGS.

- 3. FOUNDATION BEARING MATERIAL SHALL BE PROTECTED FROM RAIN, FROST, SNOW AND WATER INFILTRATION.
- 4. FOOTING ELEVATIONS INDICATED ON THE DRAWINGS REPRESENT MINIMUM VALUES TO BE USED. VARIABLE SITE GRADES AND SOIL CONDITIONS, UNDERGROUND SERVICES AND EXISTING STRUCTURES MAY REQUIRE ADJUSTMENT OF FOOTING ELEVATIONS. THE CONTRACTOR SHALL MAKE ALLOWANCES FOR MINOR VARIATIONS IN FOOTING ELEVATIONS IN HIS BID. CONTACT STRUCTURAL ENGINEER FOR INSTRUCTIONS REGARDING SITE

REINFORCING STEEL

- 1. REINFORCING STEEL SHALL BE DEFORMED STEEL 400 GRADE AND SHALL CONFORM TO CAN/CSA-G30.18-09
- 3. UNLESS NOTED OTHERWISE ON PLANS, LAP LENGTHS FOR REINFORCING STEEL SHALL BE AS FOLLOWS:

2. ALL REINFORCING BARS SHALL BE TIED SECURELY TO PREVENT DISPLACEMENT.

	REINFORCING BAR LAP LENGTHS									
CONCRETE MPa	BAR	SIZE	NOTES;							
MPG	10M	15M	1. MULTIPLY VALUES BY 1.3 FOR HORIZONTAL REINFORCEMENT PLACED IN SUCH A WAY THAT MORE							
20	430 (17")	635 (25")	THAN 12" OF FRESH CONCRETE IS CAST IN THE MEMBER BELOW THE SPLICE.							
25	380 (15")	560 (22")	2. MULTIPLY VALUES BY 1.5 FOR EPOXY COATED							
30	355 (14")	510 (20")	REINFORCEMENT WITH CLEAR COVER LESS THAN 3 BAR DIAMETERS OR BAR SPACING LESS THAN 7 BAR							
35	330 (13")	480 (19")	DIAMETERS. 3. MUTLIPLY VALUES BY 1.2 FOR ALL EPOXY COATED							
			REINFORCEMENT OTHER THAN IN 2. ABOVE.							

- 4. NO SPLICES OTHER THAN THOSE NOTED ON THE DRAWINGS ARE PERMITTED WITHOUT WRITTEN PERMISSION FROM THE STRUCTURAL ENGINEER.
- 5. WHERE CONCRETE SURFACES ARE TO BE EXPOSED ONLY NON-CORROSIVE TYPE REINFORCING CHAIRS SHALL BE USED TO SUPPORT THE REINFORCING STEEL.
- 6. HOOKS ON ALL TIES SHALL BE BENT AT LEAST 135° AND HAVE A MINIMUM LEG OF 6 TIMES THE TIE BAR DIAMETER.

CAST-IN-PLACE CONCRETE

1. ALL CONCRETE WORK SHALL CONFORM TO THE REQUIREMENTS OF CAN/CSA A23.1-09 AND A23.2-09.

2. CONCRETE MIXES, AGGREGATES AND CEMENTITIOUS MATERIALS, INCLUDING PORTLAND CEMENT AND PORTLAND LIMESTONE CEMENT, SHALL CONFORM TO CAN/CSA A23.1-09 AND A23.2-09 AND CAN/CSA-A3000-08 AND SHALL HAVE THE FOLLOWING PROPERTIES BASED UPON PERFORMANCE CRITERIA PROPORTIONING:

CLASS	28 DAY STRENGTH	EXPOSURE	CEMENT TYPE
FOOTINGS	25MPa (3500 psi)	F-2	GU
FOUNDATION PIERS	25 MPa (3500 psi)	F-2	GU

- 3. PORTLAND LIMESTONE CEMENT (PLC) SHALL MEET THE REQUIREMENTS OF CSA A3000 FOR LIMESTONE CEMENTS.
- 4. CONCRETE TESTING SHALL BE CARRIED OUT BY THE CONTRACTOR AND PAID FOR BY THE OWNER AND SHALL BE IN ACCORDANCE WITH CAN/CSA A23.1-09 AND A23.2-09. THE MINIMUM NUMBER OF TESTS PERFORMED SHALL BE AS PER CSA A23.2-09. ADDITIONAL TESTING SHALL BE PERFORMED AT THE DIRECTION OF THE STRUCTURAL ENGINEER. CONTRACTOR SHALL PROVIDE TESTING AGENCY WITH ADEQUATE NOTICE TO PROVIDE TESTING AS REQUIRED.
- 5. ALL CONCRETE CURING SHALL BE IN ACCORDANCE WITH CAN/CSA A23.1-09. SPECIAL PRECAUTIONS SHALL BE TAKEN PER CSA A23.1 FOR PLACING AND CURING CONCRETE AT OR ABOVE 27 C AND AT OR BELOW 5 C.
- 6. UNLESS NOTED OTHERWISE, ALL REINFORCING STEEL SHALL HAVE THE FOLLOWING CLEAR COVER DISTANCES:

FIRE RESISTANCE RATING 0-1 HOUR

EXPOSED TO EARTH 75 mm (3") FORMED SURFACES EXPOSED TO

THE GROUND OR WEATHER 40 mm (1.5")

<u>MECHANICAL AND ADHESIVE ANCHORS</u>

CAST AGAINST AND PERMANENTLY

- 1. ALL ANCHORS ARE TO BE INSTALLED IN STRICT ACCORDANCE WITH THE MANUFACTURER'S WRITTEN INSTRUCTIONS.
- 2. ALL ANCHORS ARE TO BE THE ADHESIVE TYPE. MECHANICAL ANCHORS ARE ONLY TO BE USED WHEN SPECIFICALLY CALLED-UP ON THE DRAWINGS. SUBSTITUTIONS MUST BE APPROVED BY THE PROJECT ENGINEER
- 3. UNLESS NOTED OTHERWISE ADHESIVE ANCHORS SHALL BE HILTI 'HAS-E' OR 'HIT-Z' ROD. REFER TO DRAWINGS
- FOR ANCHOR LOCATIONS, SIZES, CENTRES AND EMBEDMENT LENGTH.

USE HILTI HY200 WHEN: A QUICK CURE IS REQUIRED,

CONDITIONS ARE DRY, HOLES ARE HAMMER DRILLED

HOLES ARE NOT OVER-SIZED, BASE MATERIAL TEMPERATURE IS ABOVE MINUS 10° CELCIUS.

USE HILTI HIT RE500-SD WHEN: EXTENDED WORKING TIME IS REQUIRED AND CURE TIME IS NOT CRITICAL. HOLES ARE DRILLED USING DIAMOND CORE, PNEUMATIC OR HAMMER DRILLS, DEEP EMBEDMENT IS SPECIFIED, THE APPLICATION IS UNDERWATER, OR HOLES ARE OVERSIZED.

- 4. REFER TO DRAWINGS FOR MECHANICAL ANCHOR LOCATIONS, SIZES, CENTRES AND EMBEDMENT LENGTH.
- 5. HOLES FOR MECHANICAL ANCHORS SHALL BE CLEANED OUT WITH HIGH PRESSURE AIR OR BRUSH PRIOR TO ANCHOR INSTALLATION.
- 6. INSTALLERS OF HILTI PRODUCTS SHALL HAVE RECEIVED TRAINING BY HILTI (CANADA) CORP. IN THE USE OF THE SPECIFIED PRODUCTS. THE GENERAL CONTRACTOR SHALL PROVIDE THE DESIGN ENGINEER WITH A LETTER STATING THAT THIS TRAINING HAS BEEN COMPLETED.

WOOD FRAME CONSTRUCTION

<u>HEL-014</u>

- 1. ALL WOOD FRAMING, INCLUDING BRIDGING, NAILING AND OTHER DETAILS SHALL BE AS INDICATED ON THE STRUCTURAL DRAWINGS AND COMPLY WITH CAN/CSA-086-09 AND THE CURRENT BRITISH COLUMBIA
- 2. ALL NAILS SHALL BE COMMON ROUND STEEL WIRE NAILS CONFORMING TO CSA B111-1974 (R2003).
- 3. WOOD SCREWS SHALL MEET THE REQUIREMENTS OF ASME B18.61-1981.
- 4. BOLTS SHALL HAVE PRE-DRILLED HOLES 1-2mm LARGER THAN THE BOLT DIAMETER.
- 5. LAG SCREWS SHALL CONFORM TO CSA B34-1967. PRE-DRILLED HOLES FOR LAG SCREWS MAY BE LUBRICATED WITH SOAP OR OTHER NON-PETROLEUM BASED LUBRICANT.
- 6. THE FOLLOWING MINIMUM SHANK DIAMETERS SHALL APPLY TO NAILS SPECIFIED ON THE STRUCTURAL

NAIL SIZE MINIMUM SHANK DIAMETER 75mm (3") 3.66 mm (0.144") 65mm (2½") 3.25 mm (0.128") 50mm (2") 2.84 mm (0.112")

- 7. NAILS SHALL BE FULL HEADED NAILS.
- 8. NAILS SHALL NOT BE LESS THAN 10mm $(rac{3}{6}")$ FROM THE EDGE OF THE FRAMING MEMBER.
- 9. ALL STRUCTURAL LUMBER SHALL COMPLY WITH CSA-0141-05 (R2009) AND SHALL BE KILN DRIED TO MAXIMUM 19% MOISTURE CONTENT PRIOR TO INSTALLATION.
- 10. ALL WOOD FRAMING TO BE DFIR#1 OR BETTER UNLESS NOTED OTHERWISE, BEARING THE GRADE STAMP OF AN AGENCY CERTIFIED BY THE CANADIAN LUMBER STANDARDS ACCREDITATION BOARD.
- 11. ALL TIMBER TO BE 'ACQ' (AMINE COPPER QUAT) PRESSURE TREATED WOOD. CUT SURFACES OF TREATED TIMBER ARE TO RECEIVE A BRUSH APPLIED COAT OF COLOURED PRESERVATIVE. WORK SHALL BE IN ACCORDANCE WITH CSA-080 SERIES-08. 'CCA' (CHROMATED COPPER ARSENATE) IS NOT TO BE USED. TREATED WOOD PRODUCTS SHALL BEAR THE STAMP OF THE CANADIAN WOOD PRESERVERS BUREAU (CWPB).
- 12. ALL FASTENERS FOR USE IN ACQ TREATED TIMBER SHALL BE HOT DIP GALVANIZED OR STAINLESS STEEL IN ACCORDANCE WITH ASTM A653, CONNECTORS SHALL HAVE A G185 GALVANIZED DESIGNATION OR MEET ASTM A123. ALTERNATIVELY ALL METAL CONNECTORS INCLUDING NAILS, BOLTS, HANGERS, HOLD-DOWNS, STEEL STRAPS, POST BASES, ETC. SHALL BE STAINLESS STEEL TYPES 304 OR 316. REFER ALSO TO THE PRESERVATIVE MANUFACTURER'S WRITTEN RECOMMENDATIONS.
- 13. ALL BOLTS USED IN WOOD FRAME CONSTRUCTION SHALL CONFORM TO ASTM A307 OR SAE J429 GRADE 2. THREADED ROD SHALL BE TO ASTM F1554 GRADE 36 (36 ksi YIELD STRENGTH). USE OF OTHER BOLTS MUST BE PRE-APPROVED BY THE ENGINEER OF RECORD.
- 14. ALL FRAMING ANCHORS SPECIFIED ON THE DRAWINGS ARE BY SIMPSON STRONG-TIE. ALTERNATES MUST BE PRE-APPROVED BY THE ENGINEER OF RECORD.

Drawing Set #2- Specification Drawings (page one)

LIST OF	ABBR	EVIATIONS		
ALT		ALTERNATE	LVL	 LAMINATED VENEER LUMBER
B/S		BOTH SIDES	MAX	 MAXIMUM
C/W		COMPLETE WITH	MIN	 MINIMUM
Ģ´		CENTRE LINE	No	 NUMBER
ČLR		CLEAR	NTS	 NOT TO SCALE
CIP		CAST IN PLACE	o/c	 ON CENTRE
CONC		CONCRETE	OPP	 OPPOSITE
COL		COLUMN	PL	 PLATE
CONT		CONTINUOUS	PT	 PRESSURE TREATED (LUMBER)
DP		DEEP	REINF	 REINFORCE(MENT)
DL		DEAD LOAD	R/W	 REINFORCE WITH
DWG		DRAWING	SSDL	 SUPERIMPOSED DEAD LOAD
E/S		EACH SIDE	STIR	 STIRRUP
EĹEV		ELEVATION	SIM	 SIMILAR
E/W		EACH WAY	THK	 THICK
EXT		EXTERIOR	T.O.	 TOP OF
(E)		EXISTING	TYP	 TYPICAL
GALV		GALVANIZED	UNO	 UNLESS NOTED OTHERWISE
GT.		GIRDER TRUSS	VERT	 VERTICAL

VIF

VERIFY IN FIELD

WORK POINT

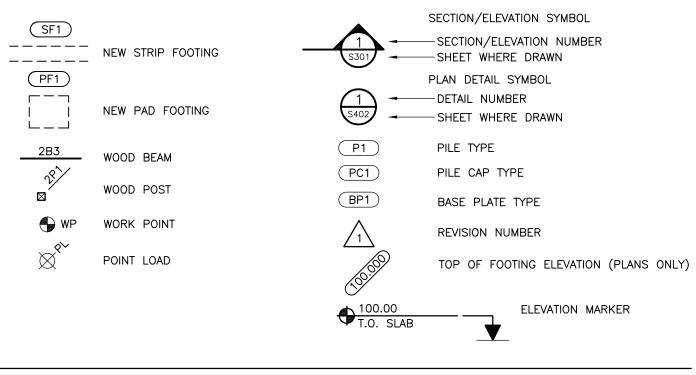
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SYMBOLS LEGEND

GIRDER TRUSS

HORIZONTAL

LIVE LOAD

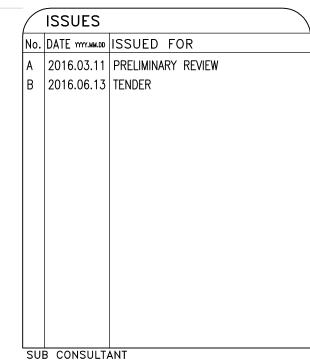


STRUCTURAL DRAWING LIST

GENERAL NOTES PHILLIPS ROAD SUN RIVER TRAIL AND STAIR DESIGN PLAN AND PROFILE S03 TYPICAL DETAILS

STRUCTURAL DRAWING ISSUE RECORD

							D	RAW	ING	NU	MBE	R.			
ISSUE No.	ISSUE DATE (YYYY.MM.DD)	ISSUED FOR	S01	S02	S03										
Α	2016.03.11	PRELIMINARY DISCUSSION	0	•	0										



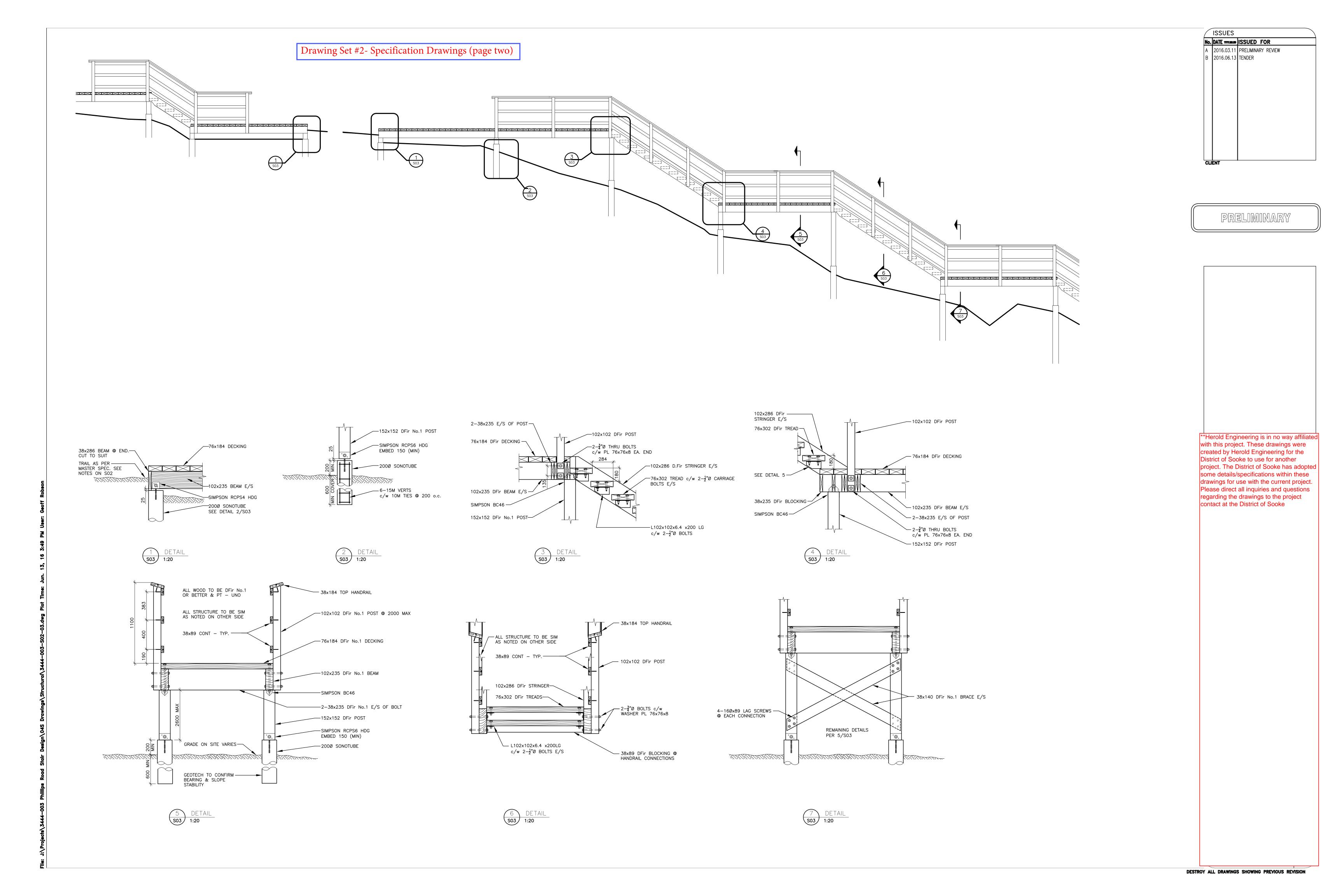
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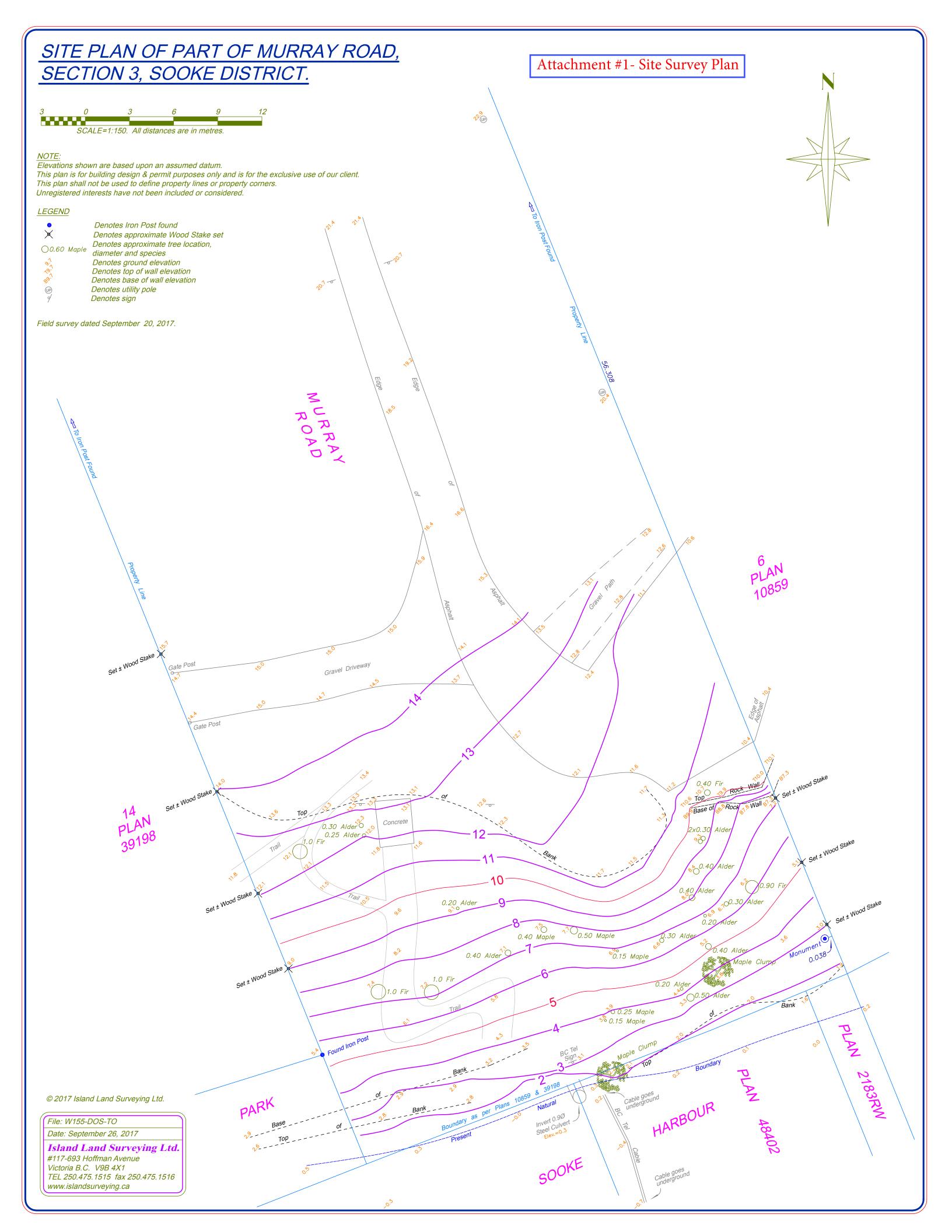
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*Herold Engineering is in no way affiliated with this project. These drawings were created by Herold Engineering for the District of Sooke to use for another project. The District of Sooke has adopted some details/specifications within these drawings for use with the current project. Please direct all inquiries and questions regarding the drawings to the project contact at the District of Sooke

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Attachment #2- Geotechnical Report (three pages)

RYZUK GEOTECHNICAL

Engineering & Materials Testing

28 Crease Avenue, Victoria, BC, V8Z 1S3 Tel: 250-475-3131 Fax: 250-475-3611 www.ryzuk.com

October 12, 2017 File No: 4472-10

District of Sooke 2205 Otter Point Road Sooke, BC V9Z 1J2

Attn: Laura Hooper

(By email: lhooper@sooke.ca)

Re: Proposed Staircase Replacement

1906 Murray Road - Sooke, BC

As requested, we have intermittently attended the referenced site, most recently on September 25, 2017, to assess the existing geotechnical conditions as such relate to the proposed replacement of the staircase from the end of the road down to the foreshore area and boardwalk. In this regard, our investigation involved a review of survey plans, aerial imagery, as well as visual inspection during the noted site reconnaissance. Our observations and comments pertaining to potential geotechnical challenges at the site are contained herein. Our work has been undertaken in accordance with, and is subject to, the attached Terms of Engagement.

The attached Site Plan (dwg. 8-4472-10-1) indicates the layout of the site. Murray Road slopes moderately south-southeast, leading into the site location at Murray Road Park, along the shoreline of the Sooke Harbour. The site is densely vegetated, and the overall slope increases to a maximum of approximately 40° - 45° . Towards the west side of the site, a concrete landing sits at the crest of the slope. At the time of our attendance in early July, a wooden staircase descended from this landing to a point partway down the slope, crossed the slope to the east, and continued down the slope towards the shoreline. It had been partially removed at that time, and the remaining portions showed distortion due to downslope movement of some of the posts and piers. By September 15 it had been fully removed, and surficial soils were exposed in that area. Tidal action at the toe of the slope has eroded a 1.5 m – 2 m face along the present natural boundary.

Four test/auger holes were hand-excavated along the alignment of the staircase. Organic soil cover was found to be inconsistent, varying from not present to thicknesses of up to 0.5 m. Underlying the organic topsoil material is a native dense brown silty sand/sandy silt. Test hole locations are indicated on the Site Plan.

Consistent with previous observations, there were no indications of large scale slope instability. However, we are aware of the apparent past stability on private properties immediately to the west, although no geotechnical reports regarding such have been located. Minor surficial movement or creep is likely, especially within the organic topsoil layer, as evidenced by our observations in July. Provided further clearing of vegetation on the slope is minimized, risks of long term erosion can be minimized.

While specific designs have not yet been provided, we expect that the proposed staircase will likely follow the previous alignment, and will consist of relatively light loads. We consider the native silty sand/sandy silt to be suitable subgrade, and further recommend that any foundation elements are embedded a minimum of 0.5 m to mitigate sliding, subject to a geotechnical review at the time of construction. Narrow rectangular piers aligned down the slope can minimize the impact of surficial creep by allowing the surficial material to slide past while not pushing supports over, provided that the footings are set on/in stable ground.

Given the above, and provided our recommendations are followed, we consider that the proposed development can likely be completed without causing slope instability or being adversely impacted by shallow slope creep. However, there remains a possibility of larger-scale deepseated natural slope instability unrelated to the proposes works that could impact the system. In this regard, we recommend inspection of the storm drain off the end of Murray Road just to the east, to ensure that it is still functioning as designed and is not contributing to erosion or slope instability. Subject to the above, it is our assessment that the site may be safely used for the use intended as an access trail/staircase.

We trust the preceding is suitable for your purposes at present, however if you have any questions with respect to the above, please contact us.

Yours truly,

Ryzuk Geotechnical

Frank Hung, EIT

Junior Engineer

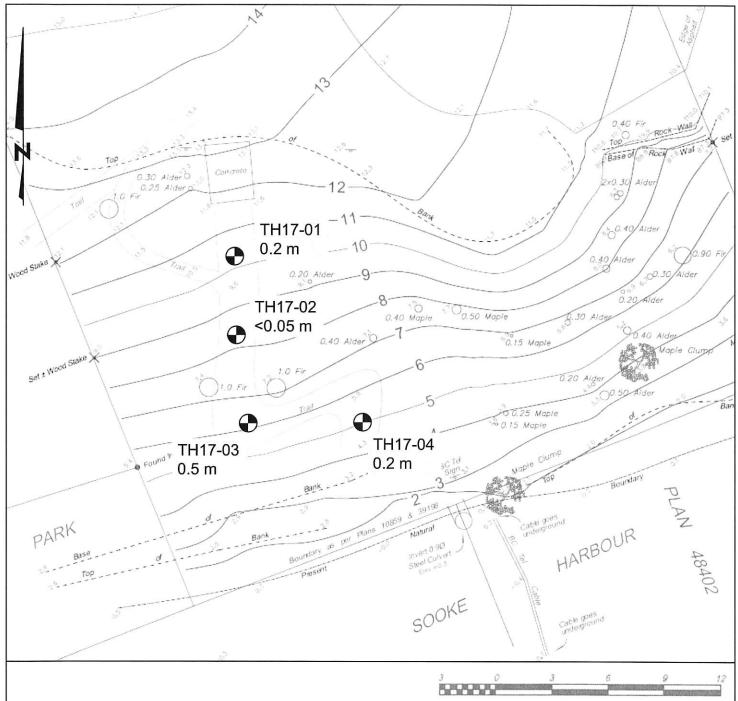
Bruce Dagg, M.Sc., P.Eng Review Engineer

To To The Linguist

Attachment -

Terms of Engagement Site Plan – dwg. 8-4472-10-1

Ryzuk Geotechnical Page 2



Notes:

- Site Location Plan taken from 'Site Plan of Part of Murray Road' by Island Land Surveying Ltd., dated September 27, 2017.
- 2. Test Hole locations located based on site features, and are accurate to within +/- 2 m.
- 3. Test holes are labelled with approximate depth to competent subgrade.

The Distri	DRAWN FKFH						
TEST HOLE LOCATION PLAN							
Proposed Stairca	APPROVED						
Murray Road Park	Sooke, B.C.	SCALE 1:200					
RYZUK GEOTECHNICAL	Engineering & Materials Testing	DRAWING No. 8-4472-10-1					



Appendix 2- Quotation Form

The Quotation Form is to be completed in full. (Attached)

QUOTATION FORM

District of Sooke Murray Road Staircase RFQ

Quotation Submission:

Project: Project No.:	Murray Road Staircase RFQ 2018-P1
Date:	
Company Name:	
Address:	
Email:	Telephone: ()
Name of Bidder:	
Signature*:	
* must be an official sign	iatory of the company
Certification:	
•	read and examined the RFQ and all included appendices, and have er investigations as were prudent and reasonable in preparing this response.
and prices as quoted	e statements made in this response are true and complete. These statements direpresent our response to the District of Sooke. I/We agree to be bound by resentations made in this response and to any agreement resulting from this
Addendum #	eceipt of all addenda up to and including the most recent, , Dated: of the work and are included in this quotation.
	or the work and are moladed in this quotation.
Contract Price:	
items specified belo labour and materials profit, and represen	t provide Lump Sum Rates and Unit Rates (where applicable) for each of the w. The Price is in Canadian funds which include the supply of all products, s, supervision, services, construction machinery and equipment, overhead and t the entire cost to the Owner for the completion of the Work. All applicable ial taxes and duties, <i>excluding</i> Goods and Services Tax (GST), are included in
	t also provide labour rates for Extra Work, should the need for it arise. Extra Work will be based on the 2017/18 Blue Book Equipment Rental Rate
	Initials of Contractor:

QUOTATION FORM

District of Sooke Murray Road Staircase Construction

	Price		
	(Excluding GST)		
Please provide a LUMP SUM	\$		
cost			
	Excluding GST		
Fotos Wards is about a data a la		.	
Extra Work is charged at an h	ourly rate of:	Foreman- Labourer-	\$ \$
Addition	al positions:		\$
7 10.0.11.0			
(optiona	l)		\$
(optiona			\$ \$
	e: e if awarded this cor	ntract:	\$ \$
(optional continuation schedule construction schedule construction start date	e: e if awarded this cor tion date:	ntract:	\$ \$
roposed Construction Schedul State your intended start date Estimated substantial comple	e: e if awarded this cor tion date: ::		\$ \$
roposed Construction Schedul State your intended start date Estimated substantial comple ontractor Numbers and Status	e: e if awarded this cor tion date: ::		\$ \$
roposed Construction Schedul State your intended start date Estimated substantial comple ontractor Numbers and Status District of Sooke (or Intermur	e: e if awarded this cor tion date: :: hicipal) Business Lice	nse Number:	\$ \$ ration Date:

Ν

RFQ closing date, we whall:

- a. Provide, prior to commencing work, certified copies of the Contractor's insurance;
- b. Provide a current Worker's Compensation Clearance Letter;
- c. Enter into and execute a General Services Agreement for the Work.

Initials	: of	Contractor:	
HILLIAIS		COHLIACIOI.	



Appendix 3- Insurance Requirements

Insurance requirements are described within the District's Risk Management and Contract Services Policy.

(Attached)



Policy 5.4 File No. 2510-00 October 25, 2004 Amended March 25, 2013

Risk Management-Contract Services Policy

- 1. Any person or organization that contracts with the District of Sooke to provide services to or on behalf of the District must provide proof to the District that the following *minimum* requirements have been met:
 - a) proof of liability insurance coverage with a minimum value of \$5,000,000;
 - certificate indicating that the individual or organization has an active WCB account that covers any and all persons who will be providing contracted services to or for the District of Sooke; and
 - c) proof of applicable credentials.
- 2. Copies of the above documentation must be received prior to the commencement of services.
- 3. The document submitted for insurance coverage must indicate the type of coverage and expiry date.
- 4. Preference is for the District of Sooke to be named as an additional insured in the liability insurance document.

Note: An individual contracted to provide coverage for the following positions is not covered by the District's errors and omissions policy:

Chief Administrative Officer Corporate Officer Director of Finance Municipal Engineer Municipal Planner Building Official