

Othello Rd EAF

From: FVRD EOC OPERATIONS <EOC.OPERATIONS@fvr.ca>
To: preoc2.dir1@gov.bc.ca, EMBC SWE PREOC Director 1, EMBC <preoc2.dir1@gov.bc.ca>
Sent: November 29, 2021 11:47:41 AM PST
Attachments: 2021-11-24_OthelloRdErosionAssessment.pdf

[EXTERNAL] This email came from an external source. Only open attachments or links that you are expecting from a known sender.

Attn Ken Meeks:

Attached is the KWL assessment for Othello Road. Note their report is based on information they gathered November 24th and earlier. Understandably the situation has changed drastically since then, given the continued high water runoff from the Coquihalla River.

If you need additional information, please call Sterling Chan at ^{s.22}

Thanks.

Peter Lindenhoff (on behalf of the FVRD EOC)
FVRD EOC OPERATIONS
1-604-798-6943

Res-100358-667-112921 FVRD Coquihalla River dike EAF

From: EMBC PECC Operations 1 EMBC:EX <pecc.ops1@gov.bc.ca>
To: EMBC PECC Director 1 EMBC:EX <pecc.dir1@gov.bc.ca>
Cc: McStravick, Michael EMBC:EX </o=s.15
s.15 /cn=Recipients/cn=s.15 >, Ralfs, Brendan R EMBC:EX
</o=s.15
s.15 /cn=Recipients/cn=s.15 >, Brach, Pader W EMBC:EX
</o=s.15
s.15 cn=Recipients/cn=s.15 -Brach, Pader
W EM>
Sent: November 29, 2021 12:41:06 PM PST
Attachments: FVRD 2021-11-24_OthelloRdErosionAssessment (1).pdf, 2021 11 24 - EOC EAF 41 -
Hydrotechnical Works (Othello Road).docx, FVRD EAF Res-150336-733-112721.pdf
Please see the attached EAF for \$ 1.5 million for a dike for FVRD. This is the one for the Enbridge pipeline exposure.

Sonia

Operations Section Deputy Chief
Provincial Emergency Coordination Centre (PECC)
Emergency Management BC
PO Box 9201 Stn Prov Gov
Victoria, B.C. CANADA V8W 9J1

Ph: 778-698-8626 Fax: 250-952-4804
24 Hour Emergency Reporting 1-800-663-3456
Follow us on Twitter [@EmergencyInfoBC](#) and [@PreparedBC](#)

Resource Request

*Red Label: indicates a required field.

Priority

Orange--Priority

*Status

Purple--Pending Approval

EMBC Resource Request Number (Do not change)

Res-150336-733-112721

EMBC Task Number

223832

Requestor Number

EAf 041

Resource Identifier (PECC Use Only)

WHO IS MAKING THE REQUEST?

*Requesting Organization

Fraser Valley Regional District

*Requestor's Contact Info

Tareq Islam

s.22

eoc.finance@fvrd.ca

Related Event/Incident/Activity

I - Fraser Valley Regional District FVRD EOC Activation

Display All resource requests related to

I - Fraser Valley Regional District FVRD EOC Activation

WHAT IS BEING REQUESTED?

Resource Category

Expenditure Authorization

*Quantity

1

*Resource Type/Kind

General (See MISSION for details)

Qty Unit Of Measure

each

When Needed

11/28/2021 at 16:00 PST

Mission

A section of bank armouring has failed due to the atmospheric river. This armour protects critical infrastructure including an Enbridge pipeline, Othello Rd, and several properties on Othello Rd from the Coquihalla River. The resulting instability has led to an evacuation order of seven (7) properties at 21:30 November 16, 2021.

KWL Consulting Engineers attended the site on Nov 21, 2021. KWL's assessment of the site was that the critical infrastructure that would be affected if the bank armouring is not repaired would cause imminent threat to life and could destroy critical infrastructure such as the Enbridge pipeline and main road.

A breakdown of the cost is as follows:

Construction \$1,001,000

Engineering \$20,000

Environmental Monitoring \$28,000

Subtotal \$1,049,000

30% Contingency \$420,000

Other

Resource must come with

SPECIAL INSTRUCTIONS (E.G. SAFETY MESSAGE, INGRESS/EGRESS ROUTES, ETC.)

Special Instructions

FORWARD REQUEST TO:

- ☒ **Uncheck to send Targeted Alert ONLY to the individual selected. When checked a Targeted Alert is sent to all users whose Personal Profile matches the Org/Location and Position selected.**

Individual:**Organization/Location:**

PECC - Provincial Emergency Coordination Centre

Position:**Agency:**

Operations Section Chief

PECC - Provincial Emergency Coordination Centre

Vendor

Summary of actions taken

11/29/2021 at 12:21 PST swoolfor-PECC - Provincial Emergency Coordination Centre

Forwarded to PECC director for decision. Emailed Brendan, Pader, Mike McStravick. Would suggest engagement with FLNRO and DFO for emergency works being conducted along the river. May also need to engage Dike Management, Inspector of Dikes for discussion.

11/29/2021 at 12:16 PST swoolfor-PECC - Provincial Emergency Coordination Centre

Forwarded to PECC director for decision. Emailed attachments to Brendan Ralfs, Pader Brach, Mike McStravick, EMBC PECC director.

11/29/2021 at 12:01 PST tyhaley-SWE PREOC

Received report on recommendations. Sent to PECC OPS for consideration. Was advised that more damages have been caused by the continued high water run-off. The attached plan has a 40% contingency, but it should be noted that the estimate may be more than that depending on the degree of additional damages. The report shows CI that is at risk due to the river flows.

11/29/2021 at 11:33 PST tyhaley-SWE PREOC

Requested additional documentation from FVRD.

11/27/2021 at 15:22 PST hemacrae-SWE PREOC

Moved to Director due to the value being above Ops allowance for approval.

11/27/2021 at 15:08 PST dfenn-SWE PREOC

Entered in EMIS, to black, to Ops Chief.

Estimated Resource Cost

1469000.00

Request History

11/29/2021 at 11:34 PST - Tyler Haley at SWE PREOC as Director changed status to Purple--Pending Approval

11/27/2021 at 15:08 PST - Dean Fenn at SWE PREOC as Operational Area Coordinator - Bravo changed status to Black--New Request

NOTIFICATION

Send Notification N
Message

Individuals

Groups

Other Email Addresses

GEO LOCATION & MAPPING

Site Name	Site Type		
	Emergency Operations Centre (EOC)		
Street Address	Apt or Lot No.:		
1-45950 Cheam Avenue			
City	State	Zip	
Chilliwack	BC		
Intersection - Street 1	Intersection - Street 2		
*County/Municipality	Geographic Area		
	(Region, District, Campus, etc).		
Fraser Valley Regional District	SWE - South West PREOC Region		
Country			
Canada			
Additional Location Information			
Show on Map?	Geo Located By	Latitude	Longitude
Yes	StreetAddress	49.166459980963936	-121.95388997064619

[Display on Map](#)

ATTACHMENTS

2021-11-24_OthelloRdErosionAssessment.pdf

2021 11 24 - EOC EAF 41 - Hydrotechnical Works (Othello Road).docx

ACCESS CONTROL

You are not authorized to edit this section!!!

DATA SHARING

You are not authorized to edit this section!!!

Document Created by:s.15 on 11/27/2021 at 15:08 PST LastModified by:s.15 on 11/29/2021 at 12:24 PST
Copyright © 2016 by NC4 Public Sector LLC, All Rights Reserved.

RE: Othello Rd EAF

From: FVRD EOC DIRECTOR <EOC.DIRECTOR@fvrd.ca>
To: preoc2.dir1@gov.bc.ca, EMBC SWE PREOC Director 1, EMBC <preoc2.dir1@gov.bc.ca>
Cc: FVRD EOC OPERATIONS <EOC.OPERATIONS@fvrd.ca>
Sent: November 29, 2021 1:47:39 PM PST

[EXTERNAL] This email came from an external source. Only open attachments or links that you are expecting from a known sender.

Hi Ken,

Do you have a minute today to discuss Othello? We'd like to receive approval of our existing EAF so we can get started and hopefully avoid further losses. The scope of the work will have changed since we originally submitted our EAF, but the nature of the work is the same. We like to receive approval, get started, then revise our EAF based on further hydrotechnical assessment.

Thanks for considering.

Graham Daneluz

FVRD EOC Director

From: FVRD EOC OPERATIONS <EOC.OPERATIONS@fvrd.ca>

Sent: November 29, 2021 11:48 AM

To: 'preoc2.dir1@gov.bc.ca' <preoc2.dir1@gov.bc.ca>

Subject: Othello Rd EAF

Attn Ken Meeks:

Attached is the KWL assessment for Othello Road. Note their report is based on information they gathered November 24th and earlier. Understandably the situation has changed drastically since then, given the continued high water runoff from the Coquihalla River.

If you need additional information, please call Sterling Chan at ^{s.22}

Thanks.

Peter Lindenhoff (on behalf of the FVRD EOC)

FVRD EOC OPERATIONS

1-604-798-6943

EAFO41 Res-150336-733-112721 Approved Othello Road

From: preoc2.ops5@gov.bc.ca
To: FVRD EOC FINANCE <EOC.FINANCE@fvrd.ca>
Sent: November 30, 2021 10:31:33 AM PST
Attachments: EAF 041 Res-150336-733-112721 Approved.pdf
Approved

Dean Fenn
Operational Area Coordinator
Southwest Regional PREOC
Emergency Management British Columbia
14292 Green Timbers Way
Surrey, B.C. CANADA V3T 0J4

Primary SWE PREOC contact
Phone 778-572-3962
Email preoc2.ops1@gov.bc.ca

RE: EAF 41 - Hydrotechnical Work (Othello Rd)

From: Cunnings, Ian EMBC:EX <Ian.Cunnings@gov.bc.ca>
To: FVRD EOC FINANCE <EOC.FINANCE@fvrd.ca>, EMBC SWE PREOC Operations 1 EMBC:EX <preoc2.ops1@gov.bc.ca>
Sent: November 30, 2021 2:26:36 PM PST

Thanks, but I need the email we received. This email doesn't show when it was sent to us. Ian

From: FVRD EOC FINANCE <EOC.FINANCE@fvrd.ca>
Sent: November 27, 2021 8:34 AM
To: EMBC SWE PREOC Operations 1 EMBC:EX <preoc2.ops1@gov.bc.ca>
Subject: FW: EAF 41 - Hydrotechnical Work (Othello Rd)

[EXTERNAL] This email came from an external source. Only open attachments or links that you are expecting from a known sender.

Please find the attached EAF.

Beth

From: FVRD EOC DIRECTOR <EOC.DIRECTOR@fvrd.ca>
Sent: Friday, November 26, 2021 5:15 PM
To: FVRD EOC FINANCE <EOC.FINANCE@fvrd.ca>
Subject: FW: EAF 41 - Hydrotechnical Work (Othello Rd)

Approved for submittal to PREOC
Graham

From: FVRD EOC FINANCE <EOC.FINANCE@fvrd.ca>
Sent: November 25, 2021 7:54 PM
To: FVRD EOC DIRECTOR <EOC.DIRECTOR@fvrd.ca>
Subject: EAF 41 - Hydrotechnical Work (Othello Rd)

Hi Graham, attached is EAF 41.

Beth Klein

FW: EAF 41 - Hydrotechnical Work (Othello Rd)

From: EMBC SWE PREOC Operations 1 EMBC:EX <preoc2.ops1@gov.bc.ca>
To: Cunnings, Ian EMBC:EX <Ian.Cunnings@gov.bc.ca>
Sent: November 30, 2021 2:40:32 PM PST
Attachments: FW: EAF 41 - Hydrotechnical Work (Othello Rd)
Nov 27, 2021

- Received EAF from the Local Authority 0834 am
- Forwarded for action to our OAC at 1020 am

Heather MacRae
Operations Chief
Southwest Regional PREOC
Emergency Management British Columbia
14292 Green Timbers Way
Surrey, B.C. CANADA V3T 0J4
Primary SWE PREOC contact
Phone 778-572-3962
Email preoc2.ops1@gov.bc.ca

From: FVRD EOC FINANCE <EOC.FINANCE@fvrd.ca>
Sent: November 27, 2021 8:34 AM
To: EMBC SWE PREOC Operations 1 EMBC:EX <preoc2.ops1@gov.bc.ca>
Subject: FW: EAF 41 - Hydrotechnical Work (Othello Rd)

[EXTERNAL] This email came from an external source. Only open attachments or links that you are expecting from a known sender.

Please find the attached EAF.
Beth

From: FVRD EOC DIRECTOR <EOC.DIRECTOR@fvrd.ca>
Sent: Friday, November 26, 2021 5:15 PM
To: FVRD EOC FINANCE <EOC.FINANCE@fvrd.ca>
Subject: FW: EAF 41 - Hydrotechnical Work (Othello Rd)
Approved for submittal to PREOC
Graham

From: FVRD EOC FINANCE <EOC.FINANCE@fvrd.ca>
Sent: November 25, 2021 7:54 PM
To: FVRD EOC DIRECTOR <EOC.DIRECTOR@fvrd.ca>
Subject: EAF 41 - Hydrotechnical Work (Othello Rd)
Hi Graham, attached is EAF 41.
Beth Klein

FW: EAF 41 - Hydrotechnical Work (Othello Rd)

From: FVRD EOC FINANCE <EOC.FINANCE@fvrd.ca>
To: preoc2.ops1@gov.bc.ca, EMBC SWE PREOC Operations 1 EMBC:EX
<preoc2.ops1@gov.bc.ca>
Sent: November 27, 2021 8:33:42 AM PST
Attachments: 2021 11 24 - EOC EAF 41 - Hydrotechnical Works (Othello Road).docx

[EXTERNAL] This email came from an external source. Only open attachments or links that you are expecting from a known sender.

Please find the attached EAF.

Beth

From: FVRD EOC DIRECTOR <EOC.DIRECTOR@fvrd.ca>
Sent: Friday, November 26, 2021 5:15 PM
To: FVRD EOC FINANCE <EOC.FINANCE@fvrd.ca>
Subject: FW: EAF 41 - Hydrotechnical Work (Othello Rd)

Approved for submittal to PREOC
Graham

From: FVRD EOC FINANCE <EOC.FINANCE@fvrd.ca>
Sent: November 25, 2021 7:54 PM
To: FVRD EOC DIRECTOR <EOC.DIRECTOR@fvrd.ca>
Subject: EAF 41 - Hydrotechnical Work (Othello Rd)

Hi Graham, attached is EAF 41.

Beth Klein

EOC EXPENDITURE AUTHORIZATION FORM

Event: 2021 Atmospheric River and Rainfall	Date: November 24/2021	EAF#:041
EMBC Task #: 223832	Time: 14:30 hours	

Requesting Organization/Community: Fraser Valley Regional District

Authorized Representative:	Name: Tareq Islam	Location: FVRD Chilliwack, BC
Telephone: s.22	Fax:	Email: eoc.finance@fvrd.ca

Description of Expenditure: (include nature of goods and/or services being acquired/provided, desired outcome, location, date/time planned...)

An atmospheric river event and excessive rainfall have caused overland flooding and mudslides in several Electoral Areas within the Fraser Valley Regional District. The FVRD has issued a state of local emergency for all the Electoral Areas.

A section of bank armouring has failed due to the atmospheric river. This armour protects critical infrastructure including an Enbridge pipeline, Othello Rd, and several properties on Othello Rd from the Coquihalla River. The resulting instability has led to an evacuation order of seven (7) properties at 21:30 November 16, 2021.

KWL Consulting Engineers attended the site on Nov 21, 2021. KWL's assessment of the site was that the critical infrastructure that would be affected if the bank armouring is not repaired would cause imminent threat to life and could destroy critical infrastructure such as the Enbridge pipeline and main road.

A breakdown of the cost is as follows:

Construction \$1,001,000
 Engineering \$20,000
 Environmental Monitoring \$28,000
 Subtotal \$1,049,000

30% Contingency \$420,000

Amount Requested:	\$1,469,000	Expenditure Not to Exceed:	\$1,689,000
--------------------------	--------------------	-----------------------------------	--------------------

EOC Approvals	Approved for Processing by: Sterling Chan	Expenditure Request Approved by:
	Position: Operations Chief	Position:
	Date/Time:	Date/Time:

PREOC Approvals	Approved for Processing by: <input type="checkbox"/> Not Approved	Expenditure Authorized by:
	Position: Operations Section Chief	Position: PREOC Director (or designate)
	Date/Time:	Date/Time:

Distribution:

- ☐ EOC Director
- ☐ EOC Operations Section
- ☐ EOC Planning Section
- ☐ EOC Logistics Section
- ☐ EOC Finance & Admin Section
- ☐ Other: _____

- ☐ PREOC Director
- ☐ PREOC Operations Section
- ☐ PREOC Planning Section
- ☐ PREOC Logistics Section
- ☐ PREOC Finance & Admin Section
- ☐ Other: _____

Comments:

Re: PREOC Request for Information - Othello Tunnels Rd Evacuations

From: FVRD EOC COMMUNICATIONS <EOC.COMMUNICATIONS@fvr.ca>
To: EMBC SWE PREOC Operations 1 EMBC:EX <preoc2.ops1@gov.bc.ca>
Cc: Cunnings, Ian EMBC:EX <Ian.Cunnings@gov.bc.ca>, FVRD EOC DIRECTOR <EOC.DIRECTOR@fvr.ca>
Sent: November 30, 2021 3:10:32 PM PST

[EXTERNAL] This email came from an external source. Only open attachments or links that you are expecting from a known sender.

Hello,

Thank you for your email. I will do my best to get you the information in the next day.

Regards, Angelique

From: EMBC SWE PREOC Operations 1 EMBC:EX <preoc2.ops1@gov.bc.ca>
Sent: Tuesday, November 30, 2021 1:00 PM
To: FVRD EOC COMMUNICATIONS
Cc: Cunnings, Ian EMBC:EX
Subject: PREOC Request for Information - Othello Tunnels Rd Evacuations

Good Afternoon FVRD EOC Communications

We have had an urgent request to obtain some information for government officials, can you please provide some details on how the residents were notified of the following evacuation orders and alerts i.e. RCMP, Search and Rescue, self evacuation by residents, tactical evacuation etc.

- * Nov 15 21:15
- * Evacuation Order by FVRD – how did residents get notified?
- * 67905 & 67801 Fish Camp Rd
- * 67700, 67701, 67801, 67851, 67905, 68001, & 678201 Othello Rd
- * Nov 18 16:45
- * Evacuation Alert – how did residents get notified?
- * 67400 Tunnels Rd
- * 67600 Othello Rd
- * Continues bank erosion of the Coquihalla River has created a need to add the alert. Hydrotechnical assessment was required to comment on change in evac status
- * Nov 28 15:30 – how did residents get notified?
- * 2 homes on Alert from Nov 18, upgraded to Evac Order

Thank you for your attention to this email

Nicole Aeichele

Deputy Operations Chief – Area Ops

Southwest Regional PREOC

Emergency Management British Columbia

14292 Green Timbers Way

Surrey, B.C. CANADA V3T 0J4

Primary SWE PREOC contact

Phone 778-572-3961

Email preoc2.ops1@gov.bc.ca<mailto:preoc2.ops1@gov.bc.ca>

PREOC Fax 604.586.4083

24 Hour Emergency Reporting 1.800.663.3456

This transmission may contain confidential or privileged communication. Any unauthorized distribution, copying, or disclosure is strictly prohibited. Please notify the South West Region Office/sender of any transmission received in error by immediately replying to the sender, and destroy all copies.

Coquihalla River bank works (Othello Rd)

From: FVRD EOC DIRECTOR <EOC.DIRECTOR@fvrld.ca>
To: EMBC SWE PREOC Director 1, EMBC <preoc2.dir1@gov.bc.ca>
Cc: Sterling Chan <schan@fvrld.ca>, FVRD EOC OPERATIONS <EOC.OPERATIONS@fvrld.ca>, FVRD EOC FINANCE <EOC.FINANCE@fvrld.ca>, FVRD EOC PLANNING <EOC.PLANNING@fvrld.ca>
Sent: December 3, 2021 3:29:13 PM PST
Attachments: othello sketch.jpg

[EXTERNAL] This email came from an external source. Only open attachments or links that you are expecting from a known sender.

Hi Ken & Jeff,

Our intent is to provide you with regular updates regarding the emergency riprap works on the Coquihalla River at Othello Road & Tunnels Road in FVRD Area B.

Sterling Chan is the lead FVRD contact on this project. We'd like to form a project coordinating committee with representatives from FVRD, MoTI, EMBC, District of Hope and Enbridge. There are a lot of interests that require coordination in this area. We will follow up with you in this respect.

FVRD staff has a site meeting this morning with KWL (engineering consultant and project manager), Dent Construction & Jakes Contracting (contractors), District of Hope, and Enbridge to coordinate start-up of works.

Erosion has advanced since KWL prepared the original work plan and the EAF was submitted. A new work plan and costs prepared by KWL will be submitted as soon as possible. We expect the scope of work, and consequently the cost of the work, has increased. Anticipate a revised EAF.

Works will begin Sunday with our initial priority to protecting: 1) the bank in the area of 67400 Othello Road, 2) the area near the Tunnels/Othello intersection; and 3) the bank in the area of 68201 Othello. I have attached a map showing these approximate locations in pink. There are just our initial ideas coming from the site meeting this morning. It may change.

We spoke with Phu Bui (236 478-0807) Operations Manager for MoTI Chilliwack Area office to coordinate. Phu will serve as our MoTI contact, at least for now, and he will meet Sterling on site at 7 am Sunday morning when works will begin.

Best,

Graham Daneluz
FVRD EOC Director

Fw: EAF 084 - Structural Engineer for 67701 Othello Road

From: FVRD EOC FINANCE <EOC.FINANCE@fvrd.ca>
To: preoc2.ops1 <preoc2.ops1@gov.bc.ca>, EMBC SWE PREOC Operations 1
EMBC:EX <preoc2.ops1@gov.bc.ca>
Sent: December 4, 2021 1:53:12 PM PST
Attachments: EAF - 223832-084 - Structural Engineer for Othello Road property.docx

[EXTERNAL] This email came from an external source. Only open attachments or links that you are expecting from a known sender.

Please find attached.

Thank you!

Finance Section
Emergency Operations Centre

Fraser Valley Regional District
45950 Cheam Avenue, Chilliwack, BC V2P 1N6
fvrd.ca^{s.15}
s.15

From: FVRD EOC LOGISTICS
Sent: December 4, 2021 13:37
To: FVRD EOC FINANCE; FVRD EOC DIRECTOR
Subject: EAF 084 - Structural Engineer for 67701 Othello Road

Hello,

Please find attached the EAF for a structural engineer to attend property 67701 Othello Road. As soon as this has been approved by you we need to make PREOC aware so that it can be expedited to the top of the queue.

Regards,

Jamie Benton

Logistics

EOC EXPENDITURE AUTHORIZATION FORM

Event: 2021 Atmospheric River and Rainfall	Date: December 4, 2021	EAF#:084
EMBC Task #: 223832	Time: 13:30	

Requesting Organization/Community: Fraser Valley Regional District

Authorized Representative:	Name: Sterling Chan	Location: Chilliwack, BC
Telephone: s.22	Fax:	Email: eoc.director@fvrd.ca eoc.finance@fvrd.ca

Description of Expenditure: (include nature of goods and/or services being acquired/provided, desired outcome, location, date/time planned...)

Three atmospheric river events involving intense rainfall have caused overland flooding, debris transport in streams and mudslides in several Electoral Areas within the Fraser Valley Regional District. The FVRD has issued a state of local emergency for all of the Electoral Areas.

There has been significant rainfall between August and November, which resulted in saturated conditions throughout the Coquihalla River watershed. This extremely wet period concluded with a large rainfall event that saw between 175 mm and 220 mm of rainfall in less than 48 hours between Nov 13 and Nov 15. Two subsequent atmospheric river events also caused intense rainfall resulting in Hope receiving 730 mm for the whole of November. This high rainfall, coupled with saturated soil conditions resulted in substantial flows in the Coquihalla River and consequently led to the substantial flooding and elimination of the Fish Camp Road and parts of Othello Road

Photo of house 67701 Othello Road



The residents at 67701 Othello Road were part of an emergency evacuation by search and rescue and were forced to leave the site quickly with little opportunity to grab personal possessions. The house is currently precariously perched on the edge of the river and PREOC has advised that a structural engineer should assess safe access for the residents to return to the home so that they can remove

their belongings. The structural engineer we contacted has indicated that they want a geotech or hydrotechnical engineer involved in the assessment, given the house's interface with the river and bank.

The engineering assessment should be carried out as quickly as possible so that the residents have an opportunity to remove their belongings if it is determined safe to do so.

Depending on the engineer's findings, additional safety personnel may be needed on site if the residents are accessing the home.

Amount Requested:	\$4000.00	Expenditure Not to Exceed:	\$6500.00
--------------------------	------------------	-----------------------------------	------------------

EOC Approvals	Approved for Processing by: David Urban	Expenditure Request Approved by: Graham Daneluz
	Position: EOC Logistics Chief	Position: EOC Director (or designate)
	Date/Time: 04.12.2021 13:30	Date/Time: 04.12.2021

PREOC Approvals	Approved for Processing by: <input type="checkbox"/> Not Approved	Expenditure Authorized by:
	Position: Operations Section Chief	Position: PREOC Director (or designate)
	Date/Time:	Date/Time:

Distribution:

<input type="checkbox"/> EOC Director	<input type="checkbox"/> PREOC Director
<input type="checkbox"/> EOC Operations Section	<input type="checkbox"/> PREOC Operations Section
<input type="checkbox"/> EOC Planning Section	<input type="checkbox"/> PREOC Planning Section
<input type="checkbox"/> EOC Logistics Section	<input type="checkbox"/> PREOC Logistics Section
<input type="checkbox"/> EOC Finance & Admin Section	<input type="checkbox"/> PREOC Finance & Admin Section
<input type="checkbox"/> Other: _____	<input type="checkbox"/> Other: _____

Comments:

EOC EXPENDITURE AUTHORIZATION FORM

Event: 2021 Atmospheric River and Rainfall	Date: December 4, 2021	EAF#:084
EMBC Task #: 223832	Time: 15:00	

Requesting Organization/Community: Fraser Valley Regional District

Authorized Representative:	Name: Sterling Chan	Location: Chilliwack, BC
Telephone: s.22	Fax:	Email: eoc.director@fvrd.ca eoc.finance@fvrd.ca

Description of Expenditure: (include nature of goods and/or services being acquired/provided, desired outcome, location, date/time planned...)

Three atmospheric river events involving intense rainfall have caused overland flooding, debris transport in streams and mudslides in several Electoral Areas within the Fraser Valley Regional District. The FVRD has issued a state of local emergency for all of the Electoral Areas.

There has been significant rainfall between August and November, which resulted in saturated conditions throughout the Coquihalla River watershed. This extremely wet period concluded with a large rainfall event that saw between 175 mm and 220 mm of rainfall in less than 48 hours between Nov 13 and Nov 15. Two subsequent atmospheric river events also caused intense rainfall resulting in Hope receiving 730 mm for the whole of November. This high rainfall, coupled with saturated soil conditions resulted in substantial flows in the Coquihalla River and consequently led to the substantial flooding and elimination of the Fish Camp Road and parts of Othello Road

Photo of house 67701 Othello Road



The residents at 67701 Othello Road were part of an emergency evacuation by search and rescue and were forced to leave the site quickly with little opportunity to grab personal possessions. The house is currently precariously perched on the edge of the river and PREOC has advised that a structural engineer should assess safe access for the residents to return to the home so that they can remove their belongings. The structural engineer we contacted has indicated that they want a geotech or hydro-

technical engineer involved in the assessment, given the house's interface with the river and bank. A meeting was held between the FVRD, PREOC and a structural engineer to determine an immediate course of action to prevent the house from falling into the Coquihalla river.

The engineering assessment should be carried out as quickly as possible. A plan is being devised for shoring up this property to reinforce the structure and protect the property and downstream. This will protect the river from pollution and protect the gas pipeline immediately downstream from this property.

Costs will be incurred to bring a team in to shore up the property including: The following costs are estimates based on putting this together quickly.

Equipment (Excavator) \$10,000

Structural Engineer \$5,000

Materials \$5,000

Labour \$4,000

Environmental Monitoring \$9,400 (\$7,000 base + \$1,200 per day)

Amount Requested:	\$33000.00	Expenditure Not to Exceed:	\$42000.00
--------------------------	-------------------	-----------------------------------	-------------------

EOC Approvals	Approved for Processing by: David Urban	Expenditure Request Approved by: Graham Daneluz
	Position: EOC Logistics Chief	Position: EOC Director (or designate)
	Date/Time: 04.12.2021 15:00	Date/Time: 04.12.2021

PREOC Approvals	Approved for Processing by: <input type="checkbox"/> Not Approved	Expenditure Authorized by:
	Position: Operations Section Chief	Position: PREOC Director (or designate)
	Date/Time:	Date/Time:

Distribution:

- | | |
|--|--|
| <input type="checkbox"/> EOC Director | <input type="checkbox"/> PREOC Director |
| <input type="checkbox"/> EOC Operations Section | <input type="checkbox"/> PREOC Operations Section |
| <input type="checkbox"/> EOC Planning Section | <input type="checkbox"/> PREOC Planning Section |
| <input type="checkbox"/> EOC Logistics Section | <input type="checkbox"/> PREOC Logistics Section |
| <input type="checkbox"/> EOC Finance & Admin Section | <input type="checkbox"/> PREOC Finance & Admin Section |
| <input type="checkbox"/> Other: _____ | <input type="checkbox"/> Other: _____ |

Comments:

RE: EAF - 084 - 67701 Othello Road plan

From: EMBC SWE PREOC Operations 1 EMBC:EX <preoc2.ops1@gov.bc.ca>
To: FVRD EOC FINANCE <EOC.FINANCE@fvrld.ca>
Sent: December 4, 2021 3:39:36 PM PST

Hi FVRD,

Please provide additional information on EAF084 to include more details.

Tyler Haley
Deputy Operations Chief – Area Operations
Southwest Regional PREOC
Emergency Management British Columbia
14292 Green Timbers Way
Surrey, B.C. CANADA V3T 0J4

Primary SWE PREOC contact
Phone 778-572-3962
Email preoc2.ops1@gov.bc.ca

-----Original Message-----

From: FVRD EOC FINANCE <EOC.FINANCE@fvrld.ca>
Sent: December 4, 2021 3:16 PM
To: EMBC SWE PREOC Operations 1 EMBC:EX <preoc2.ops1@gov.bc.ca>
Subject: Fw: EAF - 084 - 67701 Othello Road plan

[EXTERNAL] This email came from an external source. Only open attachments or links that you are expecting from a known sender.

Hi Andrew,

This one they asked for priority.

Thank you!

Finance Section
Emergency Operations Centre

Fraser Valley Regional District
45950 Cheam Avenue, Chilliwack, BC V2P 1N6
fvrld.ca

s.15

From: FVRD EOC DIRECTOR
Sent: December 4, 2021 15:13
To: FVRD EOC LOGISTICS; FVRD EOC FINANCE

Subject: RE: EAF - 084 - 67701 Othello Road plan

Approved for submission to PREOC

Graham

From: FVRD EOC LOGISTICS <EOC.LOGISTICS@fvrd.ca>

Sent: December 4, 2021 3:06 PM

To: FVRD EOC DIRECTOR <EOC.DIRECTOR@fvrd.ca>; FVRD EOC FINANCE <EOC.FINANCE@fvrd.ca>

Subject: EAF - 084 - 67701 Othello Road plan

Hello,

Please find the re-worded EAF for property 67701 Othello Road taking into account the proposed plan to shore up the property to protect the downstream gas pipeline. Looking for approval and then expediting through PREOC.

Regards,

Jamie

Logistics

From: EMBC SWE PREOC Operations 4 EMBC:EX
To: EOC.FINANCE@fvrd.ca
Cc: gdaneluz@fvrd.ca
Subject: EAF 006 Approval
Date: November 18, 2021 8:18:00 AM
Attachments: [EAF 006 Geotech Othello Rd Area B 174242-832 -Approved.pdf](#)

Good Morning,

Please find attached EAF006 which is approved. Once the assessment report comes please forward a copy to preoc2.ops1@gov.bc.ca

If you have any other questions or concerns, please do not hesitate to contact me.

Thank you,

Jennifer Morgan
Operational Area Coordinator
Southwest Regional PREOC
Emergency Management British Columbia

14292 Green Timbers Way
Surrey, B.C. CANADA V3T 0J4
Phone 778.572.3962
Email preoc2.ops4@gov.bc.ca

PREOC Fax 604.586.4083

24 Hour Emergency Reporting 1.800.663.3456

This transmission may contain confidential or privileged communication. Any unauthorized distribution, copying, or disclosure is strictly prohibited. Please notify the South West Region Office/sender of any transmission received in error by immediately replying to the sender, and destroy all copies.

Resource Request

*Red Label: indicates a required field.

Priority

Red--
Emergency

*Status

Red--Approved Request

EMBC Resource Request Number (Do not change)

Res-174242-832-111721

EMBC Task Number

223832

Requestor Number

EAF 006

Resource Identifier (PECC Use Only)

WHO IS MAKING THE REQUEST?

*Requesting Organization

Fraser Valley Regional District

*Requestor's Contact Info

Graham Daneluz
604-702-5046
gdaneluz@fvrd.ca

Related Event/Incident/Activity

I - Fraser Valley Regional District EOC Activation

Display All resource requests related to

I - Fraser Valley Regional District EOC Activation

WHAT IS BEING REQUESTED?

Resource Category

Expenditure Authorization

*Quantity

1

*Resource Type/Kind

Consulting Services: Geotech/Civil Engineer

Qty Unit Of Measure

each

When Needed

Mission

An atmospheric river event and excessive rainfall have caused overland flooding and mudslides in several Electoral Areas within the Fraser Valley Regional District. The FVRD has issued a state of local emergency for all the Electoral Areas.

Incident: Othello Road, Area B

High volume Natural Gas Pipeline is exposed. Location is beside the Coquihalla Hwy near the Othello Tunnels is submerged. The Coquihalla River eroded the properties and the Othello Tunnels Campground & RV Park. This led to an evacuation order of seven (7) properties at 21:30 November 16, 2021.

Geotechnical Services are required to assess the imminent risk to life and safety on these properties and to evaluate the appropriate extent of the evacuation order. The works will include the following but not limited to:

- The erosion and any instabilities
- Active erosion and overland flooding risks
- The emergency landslide assessment will also evaluate rescinding the evacuation order at a future date.

The costs include several field visits.

Other

Resource must come with

SPECIAL INSTRUCTIONS (E.G. SAFETY MESSAGE, INGRESS/EGRESS ROUTES, ETC.)**Special Instructions**

Amount Requested: \$5,000

Amount not to Exceed;\$7,000

FORWARD REQUEST TO:

- ☒ **Uncheck to send Targeted Alert ONLY to the individual selected. When checked a Targeted Alert is sent to all users whose Personal Profile matches the Org/Location and Position selected.**

Individual:**Organization/Location:**

SWE PREOC

Position:**Agency:**

Operational Area Coordinator - Delta

SWE - South West PREOC

Vendor**Summary of actions taken**

11/17/2021 at 19:10 PST dalexand-SWE PREOC

Approved assessment for the purpose of public safety. Asking that Geotech report be shared with EMBC.

11/17/2021 at 17:46 PST jmorgan-SWE PREOC

Initiated EAF- set to black

Uploaded EAF to drive

Uploaded EAF to E Team

Tagged Director

Estimated Resource Cost

7000.00

Request History

11/17/2021 at 19:13 PST - Debbie Alexander at SWE PREOC as Director changed status to Red--Approved Request

11/17/2021 at 17:46 PST - Jennifer Morgan at SWE PREOC as Operational Area Coordinator - Delta changed status to Black--New Request

NOTIFICATION**Send Notification** N**Message****Individuals****Groups****Other Email Addresses**

GEO LOCATION & MAPPING

Site Name	Site Type	
Street Address	Apt or Lot No.:	
City	State	Zip
	BC	
Intersection - Street 1	Intersection - Street 2	
*County/Municipality	Geographic Area (Region, District, Campus, etc).	
Fraser Valley Regional District		
Country		
Canada		
Additional Location Information		

Show on Map?	Geo Located By	Latitude	Longitude
No			

ATTACHMENTS

EAF 006 geotech Othello Rd Area B
174242-832.docx

ACCESS CONTROL

You are not authorized to edit this section!!!

DATA SHARING

You are not authorized to edit this section!!!

Document Created by:s.15 on 11/17/2021 at 17:46 PST LastModified by:s.15 on 11/17/2021 at 19:13 PST
Copyright © 2016 by NC4 Public Sector LLC, All Rights Reserved.

From: [EMBC SWE PREOC Operations 3 EMBC:EX](#)
To: [eoc; finance@fvrd.ca](#)
Subject: EAF 084 - Approved
Date: December 4, 2021 16:55:00 PM
Attachments: [EAF - 223832-084 - 67701 Othello Road plan v1.docx](#)
[EAF - 223832-084 - 67701 Othello Road plan v2.docx](#)
[Septic Information 67701 Othello Rd..pdf](#)
[Building Permit Documents 67701 Othello Rd. -Point Loads, Slab, Site Plan, Slab, MH Info - 151923-556 - approved.pdf](#)
[Building Permit Documents 67701 Othello Rd. -Point Loads, Slab, Site Plan, Slab, MH Info.pdf](#)

Good evening,

The EAF has been approved, please find attached the backup for your records. Please let us know if you have any questions.

Regards,

Andrew Wallwork

Operations

Southwest Regional PREOC

Emergency Management British Columbia

14292 Green Timbers Way
Surrey, B.C. CANADA V3T 0J4

Primary SWE PREOC contact

Phone 778-572-3962

Email preoc2.ops1@gov.bc.ca

PREOC Fax 604.586.4083

24 Hour Emergency Reporting 1.800.663.3456

This transmission may contain confidential or privileged communication. Any unauthorized distribution, copying, or disclosure is strictly prohibited. Please notify the South West Region Office/sender of any transmission received in error by immediately replying to the sender, and destroy all copies.

EOC EXPENDITURE AUTHORIZATION FORM

Event: 2021 Atmospheric River and Rainfall	Date: December 4, 2021	EAF#:084
EMBC Task #: 223832	Time: 15:00	

Requesting Organization/Community: Fraser Valley Regional District

Authorized Representative:	Name: Sterling Chan	Location: Chilliwack, BC
Telephone: s.22	Fax:	Email: eoc.director@fvrld.ca eoc.finance@fvrld.ca

Description of Expenditure: (include nature of goods and/or services being acquired/provided, desired outcome, location, date/time planned...)

Three atmospheric river events involving intense rainfall have caused overland flooding, debris transport in streams and mudslides in several Electoral Areas within the Fraser Valley Regional District. The FVRD has issued a state of local emergency for all of the Electoral Areas.

There has been significant rainfall between August and November, which resulted in saturated conditions throughout the Coquihalla River watershed. This extremely wet period concluded with a large rainfall event that saw between 175 mm and 220 mm of rainfall in less than 48 hours between Nov 13 and Nov 15. Two subsequent atmospheric river events also caused intense rainfall resulting in Hope receiving 730 mm for the whole of November. This high rainfall, coupled with saturated soil conditions resulted in substantial flows in the Coquihalla River and consequently led to the substantial flooding and elimination of the Fish Camp Road and parts of Othello Road

Photo of house 67701 Othello Road



The residents at 67701 Othello Road were part of an emergency evacuation by search and rescue and were forced to leave the site quickly with little opportunity to grab personal possessions. The house is currently precariously perched on the edge of the river. A meeting was held between the FVRD, PREOC and a structural engineer to determine an immediate course of action to prevent the house from falling into the Coquihalla river.

A plan is in the process of being devised by the FVRD and structural engineer for shoring up this property to reinforce the structure, and protect the property. Although the shoring is a temporary fix, it will protect the river from pollution, and protect the gas pipeline immediately downstream from this property. It will also buy us time to determine a long term plan for the structure which could include relocation or demolition.

Costs will be incurred to bring a team in to temporarily shore up the property including: The following costs are estimates based on putting this together quickly.

Equipment (Excavator) \$10,000

Structural Engineer \$5,000

Materials \$5,000

Labour \$4,000

Environmental Monitoring \$9,400 (\$7,000 base + \$1,200 per day)

Amount Requested:	\$33000.00	Expenditure Not to Exceed:	\$42000.00
--------------------------	-------------------	-----------------------------------	-------------------

EOC Approvals	Approved for Processing by: David Urban	Expenditure Request Approved by: Graham Daneluz
	Position: EOC Logistics Chief	Position: EOC Director (or designate)
	Date/Time: 04.12.2021 15:00	Date/Time: 04.12.2021

PREOC Approvals	Approved for Processing by: <input type="checkbox"/> Not Approved	Expenditure Authorized by:
	Position: Operations Section Chief	Position: PREOC Director (or designate)
	Date/Time:	Date/Time:

Distribution:

<input type="checkbox"/> EOC Director	<input type="checkbox"/> PREOC Director
<input type="checkbox"/> EOC Operations Section	<input type="checkbox"/> PREOC Operations Section
<input type="checkbox"/> EOC Planning Section	<input type="checkbox"/> PREOC Planning Section
<input type="checkbox"/> EOC Logistics Section	<input type="checkbox"/> PREOC Logistics Section
<input type="checkbox"/> EOC Finance & Admin Section	<input type="checkbox"/> PREOC Finance & Admin Section
<input type="checkbox"/> Other: _____	<input type="checkbox"/> Other: _____

Comments:

62525 AIRPORT ROAD
HOPE, B.C. V0X1L2
CELL ^{s.22}

ATTENTION:- MR. JOHN CARVELHO

AS YOU REQUESTED I HAVE UNCOVERED AND INSPECTED ENOUGH OF THE SEPTIC SYSTEM AT 67701 DTHELO ROAD, HOPE B.C. TO SUPPLY YOU WITH THE FOLLOWING FINDINGS.

- A. THE 750 GAL. CONCRETE SEPTIC TANK IS IN EXCELLENT CONDITION. NO PUMPING IS NECESSARY AND WILL ACCOMADATE THE MOBILE HOME YOU PROPOSE.
- B. THE POSITIONING OF THE MOBILE HOME IS GOOD FOR CONNECTION TO THE SEPTIC TANK WITH PROPER SET BACK.
- C. DRAIN FIELD AND DISTRIBUTION BOX ARE IN GOOD WORKING ORDER WITH A GRASS AREA OVER THE DRAIN FIELD.
- D. TAKE NOTE THAT RISER SHOULD BE INSTALLED FOR BETTER ACCESS FROM GROUND SURFACE.

s.22

s.22



OWNER INFORMATION
 Correspondence to be sent to
☐ owner

FOLIO NUMBER
782.03047.000
 DATE OF APPLICATION (D/M/Y)
MAY 6/1998

☐ New Construction ☒ Repair ☐ Alteration

TELEPHONE NUMBER

s.22

APPLICANT INFORMATION
 Correspondence to be sent to
☐ applicant

NAME OF APPLICANT
SAME AS ABOVE
 Number and Street
 City
 Postal Code
 MAILING ADDRESS

LOT INFORMATION

LEGAL DESCRIPTION OF WHERE DISPOSAL SYSTEM IS TO BE CONSTRUCTED
SUB. 15 SEC. 7 TWS. 5 RAN. 25 W. 6TH MER.
Y.D. Y.D. PLAN A238
 STREET ADDRESS / GENERAL LOCATION
67701 Othello Rd. HOPE

PREMISE INFORMATION

SEWAGE DISPOSAL SYSTEM WILL SERVE:
☒ SINGLE FAMILY DWELLING ☐ DUPLEX
☐ OTHER (specify):
 ESTIMATED DAILY SEWAGE FLOW: **300 GAL**
 NUMBER OF BEDROOMS: **3**
 FINISHED BASEMENT
☐ Yes ☒ No
 DO YOU INTEND TO ADD A BASEMENT SUITE OR MORE BEDROOMS IN THE FUTURE?
☐ Yes ☒ No
 TOTAL LIVING AREA: **1550 SQ. FT.**
 LOT SIZE: **1 AC.**

SYSTEM INFORMATION

TYPE OF SEWAGE DISPOSAL SYSTEM:
☒ CONVENTIONAL
☐ ALTERNATE (E.G. ☐ PRIVY ☐ LAGOON, ☐ RAISED MOUNDS, ☐ SEEPAGE BED)
☐ DEEP TRENCH ☐ OTHER (specify):
 SEPTIC TANK MANUFACTURER
PRE CON
 MATERIAL OF SEPTIC TANK
CONCRETE
 LIQUID VOLUME OF TANK
750 GAL
 TOTAL LENGTH OF DRAINAGE PIPE
198
 TYPE OF DRAINAGE PIPE:
☒ PVC ☐ OTHER (specify):
 INSIDE DIAMETER OF PIPE
3"
 IF PACKAGE TREATMENT PLANT IS PROPOSED GIVE:
 MAKE: **N/A**
 MODEL:
 TREATMENT CAPACITY
 SEWAGE PUMP:
☐ YES
☒ NO
 FIELD DOSE VOLUME PUMPED PER CYCLE:
N/A

ALTERNATE INFORMATION

PRESSURE DISTRIBUTION PROPOSED
☐ YES ☒ NO
 LAGOON SIZE
N/A
 DEPTH OF CLAY SOIL
NONE
 GRABURATOR
☐ YES ☒ NO

SITE INFORMATION

SOIL DESCRIPTION
 DEPTH OF SOIL: ☒ over 1.2 m (4 ft.) ☐ under 1.2 m (4 ft.) If under 1.2m (4 ft.), due to ☐ rock or ☐ clay at _____ ft. from surface.
 DEPTH TO WATER TABLE: ☒ over 1.2 m (4 ft.) ☐ under 1.2 m (4 ft.) If under 1.2m (4 ft.) the depth is _____
 PERC TESTS
 SLOWEST RATE FROM test hole #1 **1:30** min./2.5 cm (1 inch) test hole #2 **1:42** min./2.5 cm (1 inch)
 AVERAGE OF SLOWEST RATE FROM EACH TEST HOLE **1:36** min./2.5 cm (1 inch)
 WATER INFORMATION
 SOURCES OF DOMESTIC WATER:
 DISTANCES OF PROPOSED DISPOSAL FIELD FROM: _____ source of domestic water _____ breakout point
100' own well **100'** neighbouring wells **100'** stream or lake **10'** water lines

RESTRICTIVE COVENANTS

ARE THERE ANY RESTRICTIVE COVENANTS WHICH WILL AFFECT THE DESIGN OR LOCATION OF THE SEWAGE DISPOSAL SYSTEM? ☐ Yes ☒ No
 If Yes, explain

APPLICANT SIGNATURE

The information on this application is accurate and true to the best of my knowledge:
☒ Owner or ☐ Agent
 Signature s.22
 Date
MAY 6/98

OFFICE USE ONLY
 PAID: \$ **100.00**
 DATE: **MAY 6/98**
 INITIALS: **MB**

PERMIT TO CONSTRUCT, INSTALL, ALTER OR REPAIR

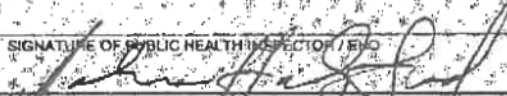
Pursuant to this application and the Sewage Disposal Regulations, permission is hereby granted to construct, install, alter, or repair the sewage disposal system on this property. This permit may be cancelled if variations are made to these plans and specifications.

Conditions of Permit:

DATE PERMIT VALID

8 May 98

SIGNATURE OF PUBLIC HEALTH INSPECTOR / EHO



FOR PUBLIC HEALTH INSPECTOR / EHO USE ONLY

COMMENTS

SITE EVALUATION

SITE INFORMATION

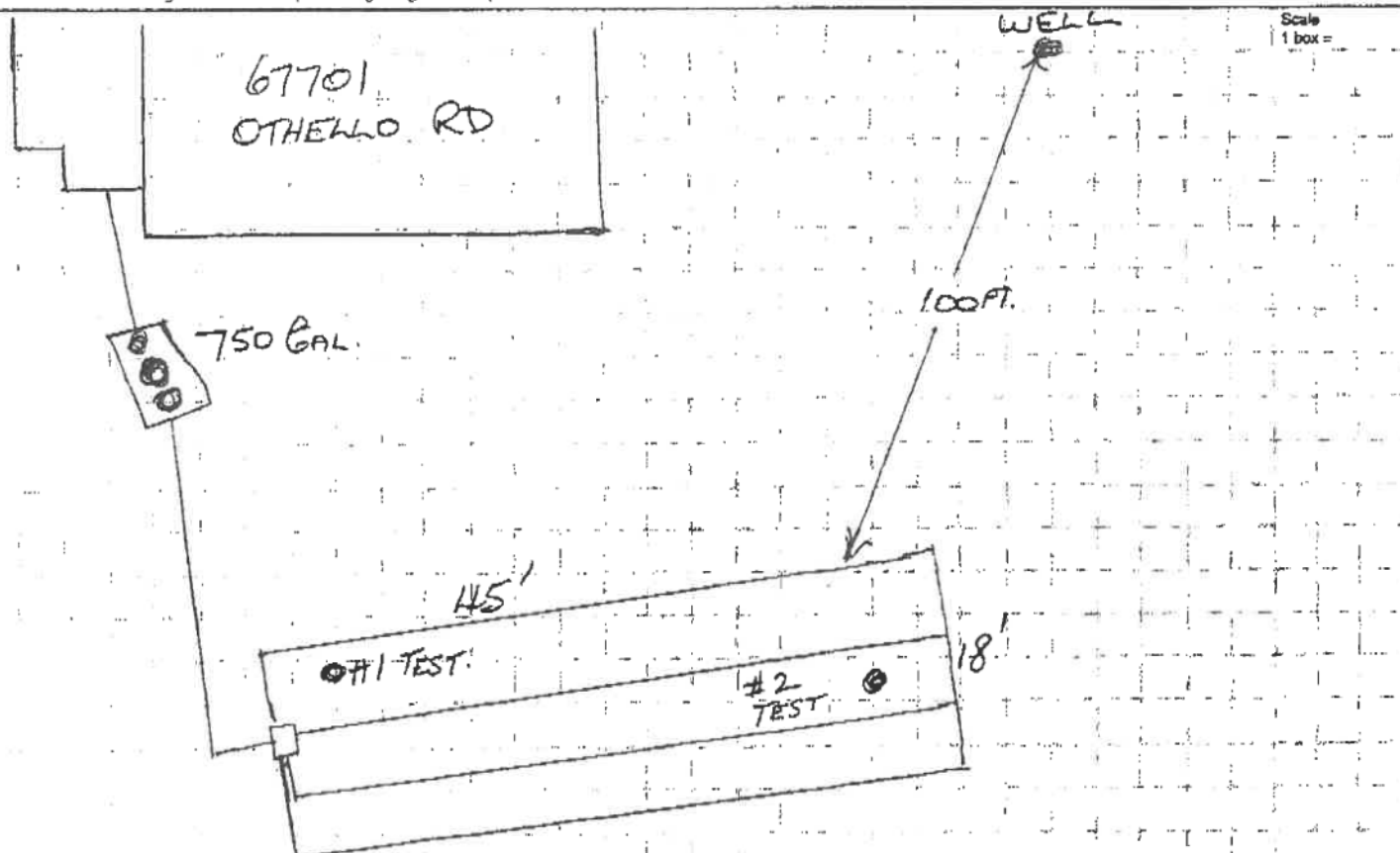
- ☒ file check
☒ application complete and consistent
☒ soil requirements met
☒ setback distances

- ☒ soil type Loam sand gravel
☒ soil depth 4.5'
☒ water table 4.5'
☒ slope NA

PLOT PLAN DRAWN TO SCALE (to be completed by the Applicant/Contractor)

PLOT PLAN CHECKLIST The following items should appear on the plot plan of the proposed system. Indicate which items have been included by checking the appropriate box

- | | | | | |
|---|--|--|---|--|
| <input type="checkbox"/> house (or house site) | <input type="checkbox"/> water lines | <input type="checkbox"/> roadways | Distance from septic tank: | Distance from disposal field (or lagoon/mound): |
| <input type="checkbox"/> other buildings | <input type="checkbox"/> percolation test holes (2) | <input type="checkbox"/> patio / deck | <input type="checkbox"/> to house | <input type="checkbox"/> to house |
| <input type="checkbox"/> septic tank | <input type="checkbox"/> observation test holes (2) | <input type="checkbox"/> paved areas | <input type="checkbox"/> to domestic water source | <input type="checkbox"/> to perimeter of lot |
| <input type="checkbox"/> pkg. treatment plant | <input type="checkbox"/> surface water (creeks, streams, lakes) | <input type="checkbox"/> parking areas | <input type="checkbox"/> to domestic water pipeline | <input type="checkbox"/> to own well |
| <input type="checkbox"/> disposal field | <input type="checkbox"/> retaining wall | <input type="checkbox"/> dimensions of lot | <input type="checkbox"/> to perimeter of lot | <input type="checkbox"/> to neighbouring wells |
| <input type="checkbox"/> drinking water sources | <input type="checkbox"/> "North" arrow | <input type="checkbox"/> property lines | | <input type="checkbox"/> to surface water (springs, streams, creeks, etc.) |
| <input type="checkbox"/> yours <input type="checkbox"/> adjacent neighbours | <input type="checkbox"/> direction of and percentage of ground slope | <input type="checkbox"/> swimming pool | | <input type="checkbox"/> to interceptor drains |



AUTHORIZATION TO OPERATE A SEWAGE DISPOSAL SYSTEM

FOLIO NUMBER DATE OF APPLICATION (Y/M/D) NAME OF OWNER

13205047-000 98/06/06

NAME OF CONTRACTOR

TRAYER EX. INC.

LEGAL DESCRIPTION OF LOT

SUB 15 SEC 7 TWN 5.5 RAN 25 W. 6TH MER.
 Y.D. Y.D. PLAN A238

STREET ADDRESS / GENERAL LOCATION

67701 OTHELLO ROAD
 HOPE, B.C.

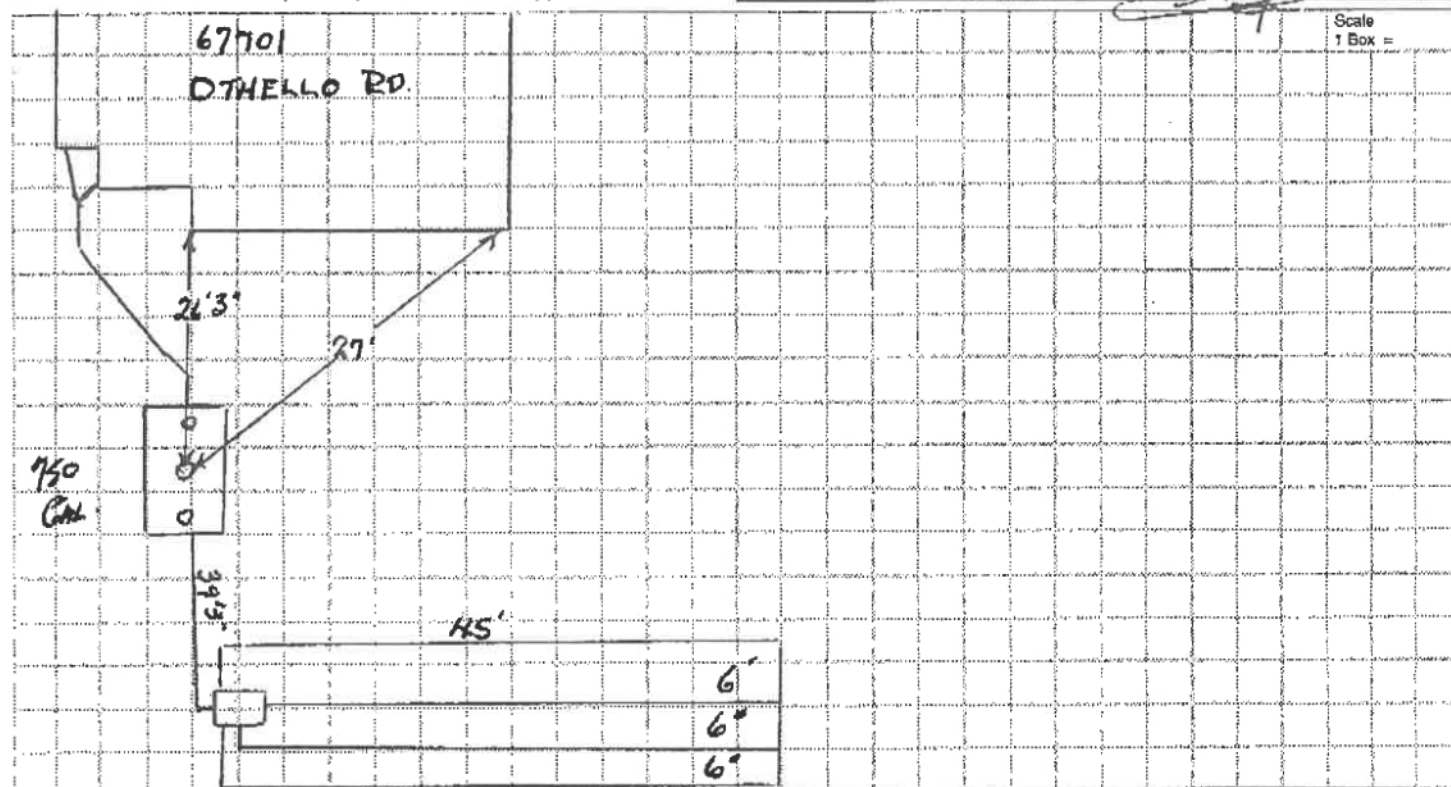
INSTALLED AS PER REGULATIONS

☒ Yes ☐ No

SIGNATURE OF OWNER / APPLICANT

[Signature]

AS BUILT DIAGRAM : to be completed by the contractor or applicant



The Ministry of Health does not guarantee the useable life of the sewage disposal system. The life of the system is affected by the use and maintenance it receives. Pump out the septic tank every 2-3 years. For servicing of package treatment plants, consult your local service agent. For service guarantees, consult your local sewage disposal contractor. If the system needs repair or modification, a new permit is required.

If the system is not authorized for backfilling and if corrections are required, a re-inspection fee of \$100 must be paid for each time the Public Health Inspector checks to see that the faults have been corrected.

DATE BACKFILL / USE
 AUTHORIZED

5/6/98

SUBJECT TO THE FOLLOWING CONDITIONS:

SIGNATURE PUBLIC HEALTH INSPECTOR / EHO:

FOR PUBLIC HEALTH INSPECTOR / EHO USE ONLY

	APPROVED	REJECTED	NOT APPLICABLE		APPROVED	REJECTED	NOT APPLICABLE
septic tank	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	curtain drain	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
package treatment plant	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	interceptor drains	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
other (e.g. lagoon, holding tank)	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	pump	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
field laterals	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	drain rock	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
distribution box	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	set back distances	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
siphon	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	fill	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

HLTH 136 Rev. 84/09

WHITE COPY - FILE

YELLOW COPY - TO OWNER

PINK COPY - TO BUILDING AUTHORITY

TOTAL P.16

04/23/2015 21:43

No.: R475

P.016/016

F.V.R.D.
BUILDING DEPT.
APR 07 2015

FISH CAMP RD.

APPROX 82 M OR 271'

J55517F

APPROX 51 M OR 167'

122' →
--- DRIVEWAY EXISTING --- W 14' ---

s.22

GARAGE
W 21' X 32'

APPROX 49 M OR 162'

s.22

EXISTING HOUSE FOUNDATION

EXISTING
SEPTIC FIELD

EXISTING
WATER
LINE

BARN
W 23' X 15'

WATER
PUMP SHED
W 4' 6" X L 8'

APPROX 80 M OR 264'

67701 OTHELLO RD.
HOPE, B.C. VOX 141

SCALE 1/4" = 10'



Resource Request

*Red Label: indicates a required field.

Priority

Red--
Emergency

*Status

Red--Approved Request

EMBC Resource Request Number (Do not change)

Res-151923-556-120421

EMBC Task Number

223832

Requestor Number

EAF 084

Resource Identifier (PECC Use Only)

WHO IS MAKING THE REQUEST?

*Requesting Organization

Fraser Valley Regional District

*Requestor's Contact Info

Sterling Chan // ^{s.22} // eoc.director@fvrd.ca eoc.finance@fvrd.ca

Related Event/Incident/Activity

I - Fraser Valley Regional District FVRD EOC Activation

Display All resource requests related to

I - Fraser Valley Regional District FVRD EOC Activation

WHAT IS BEING REQUESTED?

Resource Category

Expenditure Authorization

*Quantity

1

*Resource Type/Kind

Contracted Services: Construction

Qty Unit Of Measure

When Needed

Mission

Three atmospheric river events involving intense rainfall have caused overland flooding, debris transport in streams and mudslides in several Electoral Areas within the Fraser Valley Regional District. The FVRD has issued a state of local emergency for all of the Electoral Areas.

There has been significant rainfall between August and November, which resulted in saturated conditions throughout the Coquihalla River watershed. This extremely wet period concluded with a large rainfall event that saw between 175 mm and 220 mm of rainfall in less than 48 hours between Nov 13 and Nov 15. Two subsequent atmospheric river events also caused intense rainfall resulting in Hope receiving 730 mm for the whole of November. This high rainfall, coupled with saturated soil conditions resulted in substantial flows in the Coquihalla River and consequently led to the substantial flooding and elimination of the Fish Camp Road and parts of Othello Road

The residents at 67701 Othello Road were part of an emergency evacuation by search and rescue and were forced to leave the site quickly with little opportunity to grab personal possessions. The house is currently precariously perched on the edge of the river and PREOC has advised that a structural engineer should assess safe access for the residents to return to the home so that they can remove their belongings. The structural engineer we contacted has indicated that they want a geotech or hydro-technical engineer involved in the assessment, given the house's interface with the river and bank. A meeting was held between the FVRD, PREOC and a structural engineer to determine an immediate course of action to prevent the house from falling into the Coquihalla river.

...

see attachment for full info

Other

Resource must come with

SPECIAL INSTRUCTIONS (E.G. SAFETY MESSAGE, INGRESS/EGRESS ROUTES, ETC.)

Special Instructions

Costs will be incurred to bring a team in to shore up the property including: The following costs are estimates based on putting this together quickly.

Equipment (Excavator) \$10,000

Structural Engineer \$5,000

Materials \$5,000

Labour \$4,000

Environmental Monitoring \$9,400 (\$7,000 base + \$1,200 per day)

FORWARD REQUEST TO:

- ☒ **Uncheck to send Targeted Alert ONLY to the individual selected. When checked a Targeted Alert is sent to all users whose Personal Profile matches the Org/Location and Position selected.**

Individual:

Organization/Location:

SWE PREOC

Position:

Agency:

Operational Area Coordinator - Charlie

SWE - South West PREOC

Vendor

Summary of actions taken

12/04/2021 at 16:48 PST tyhaley-SWE PREOC

After consultation with Director Owens this EAF is approved and not to exceed \$42,000. The Emergency works is necessary for environmental protection to prevent the home from entering the river. The plan is to temporarily stabilize and assess the building to see if it can be moved or needs to be demolished. This is eligible under the EMBC financial guidelines.

12/04/2021 at 16:15 PST awallwor-SWE PREOC

Updated EAF attached, routing back to OPSC

12/04/2021 at 15:23 PST awallwor-SWE PREOC

Created, advised recv'd on phone, sent to ops chief

Estimated Resource Cost

42000.00

Request History

12/04/2021 at 16:53 PST - Tyler Haley at SWE PREOC as Operations Section Chief changed status to Red--Approved Request

12/04/2021 at 15:23 PST - Andrew Wallwork at SWE PREOC as Operational Area Coordinator - Charlie changed status to Black--New Request

NOTIFICATION

Send Notification N
Message

Individuals

Groups

Other Email Addresses

GEO LOCATION & MAPPING

Site Name	Site Type
Street Address	Apt or Lot No.:
City	State Zip
	BC
Intersection - Street 1	Intersection - Street 2
*County/Municipality	Geographic Area (Region, District, Campus, etc).
Fraser Valley Regional District	SWE - South West PREOC Region
Country	
Canada	
Additional Location Information	

Show on Map? Geo Located By Latitude Longitude
No

ATTACHMENTS

EA - 223832-084 - 67701 Othello
Road plan v2.docx
Septic Information 67701 Othello
Rd..pdf
Building Permit Documents 67701
Othello Rd. -Point Loads, Slab, Site
Plan, Slab, MH Info.pdf

ACCESS CONTROL

You are not authorized to edit this section!!!

DATA SHARING

You are not authorized to edit this section!!!

Document Created by:s.15 on 12/04/2021 at 15:23 PST LastModified by:s.15 on 12/04/2021 at 16:53 PST
Copyright © 2016 by NC4 Public Sector LLC, All Rights Reserved.



www.fvrd.bc.ca / building@fvrd.bc.ca

MANUFACTURED HOME CHECK LIST

Building Permit No. BP013359

Site Address: 67701 OTHELLO RD

(Please Print Clearly)

To be completed by owner/agent Building Inspector to initial & date

Manufactured by: MODULINE

Date of manufacture: 1980

Model: HIGH WOOD 2452-2406

Size: 24' X 48'

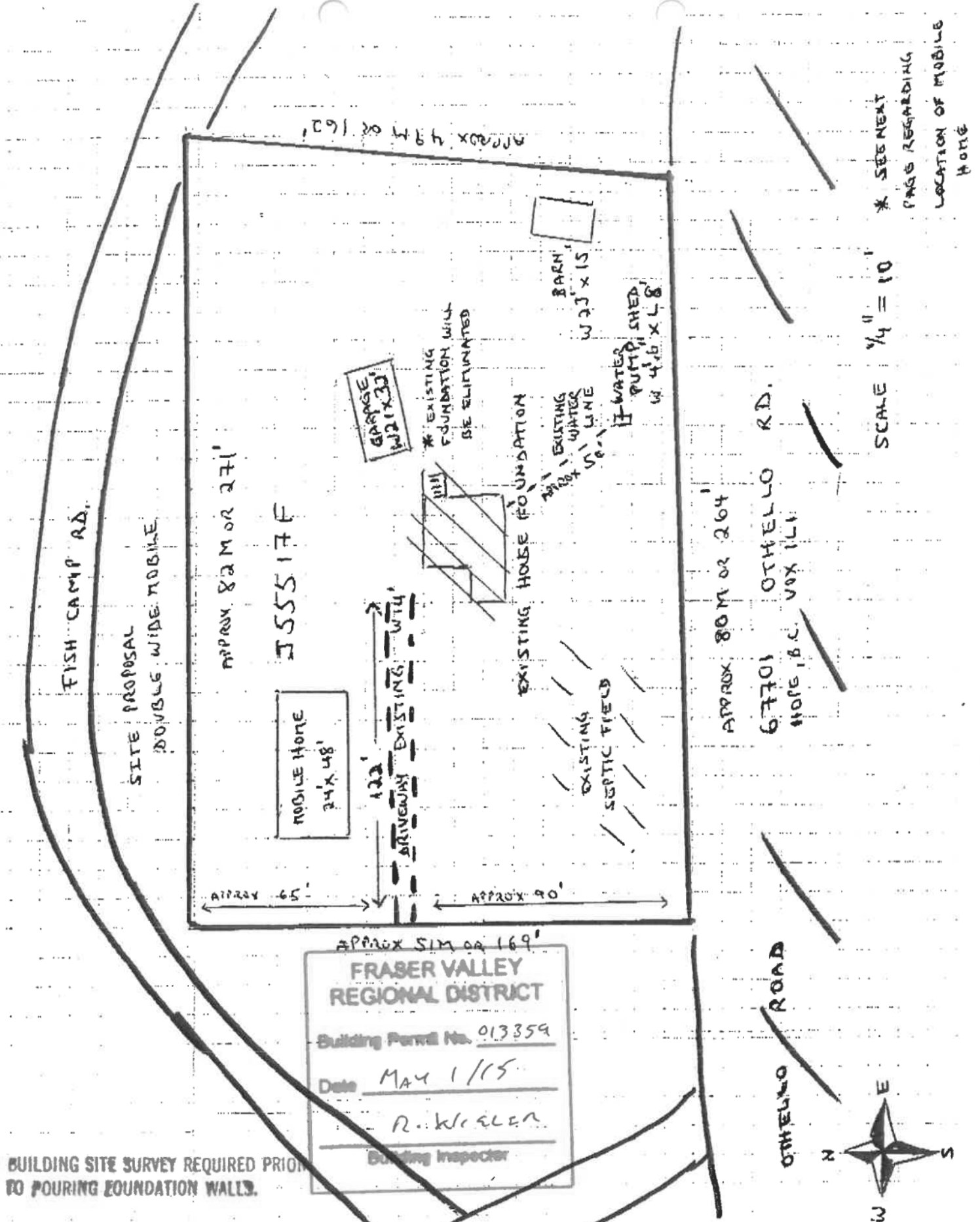
CSA / Z240 No: 21851

or

CSA / A277 No: _____

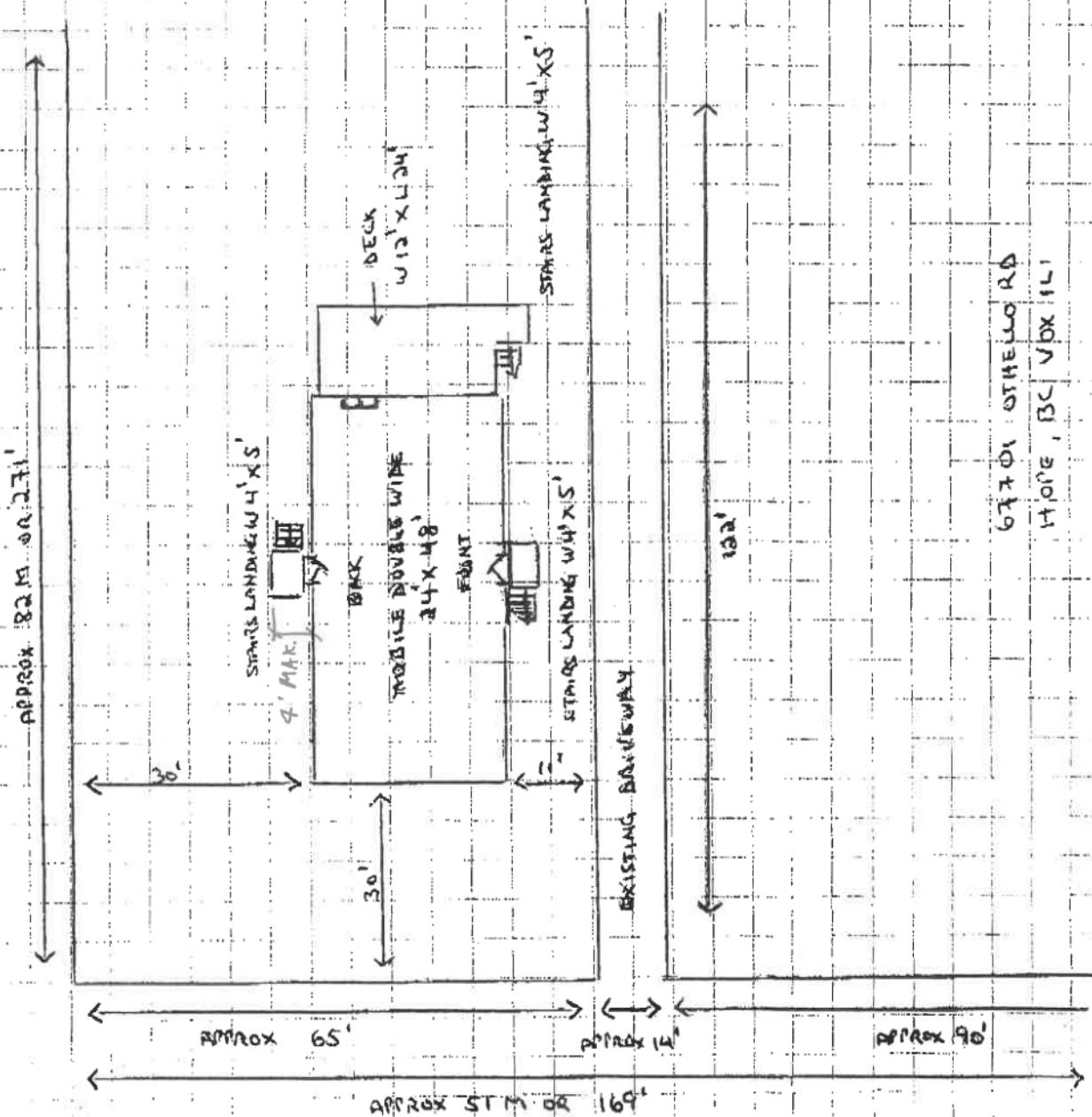
BC Manufactured

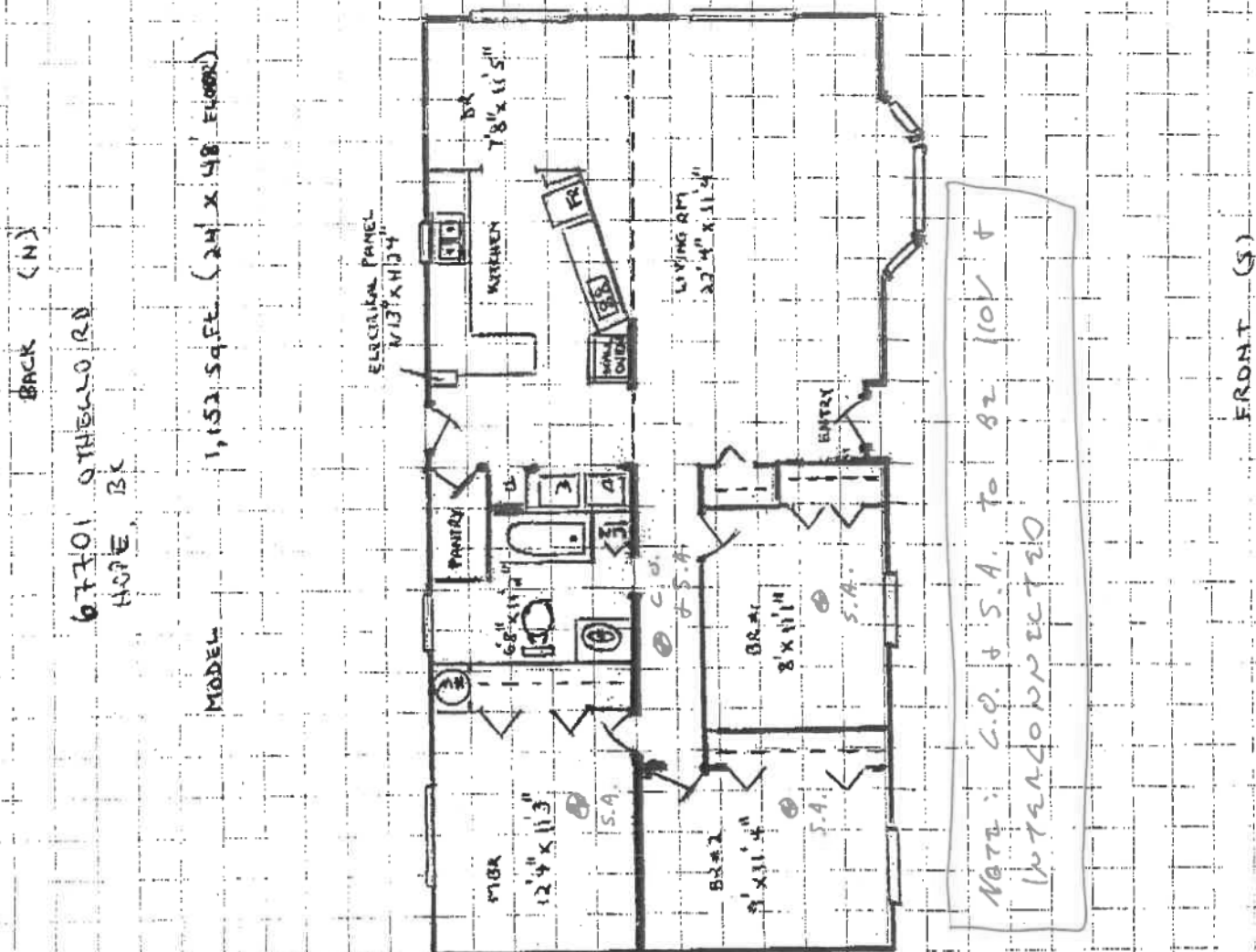
Home Registry No: 043192



BUILDING SITE SURVEY REQUIRED PRIOR TO POURING FOUNDATION WALLS.

FISHCAMP RD.



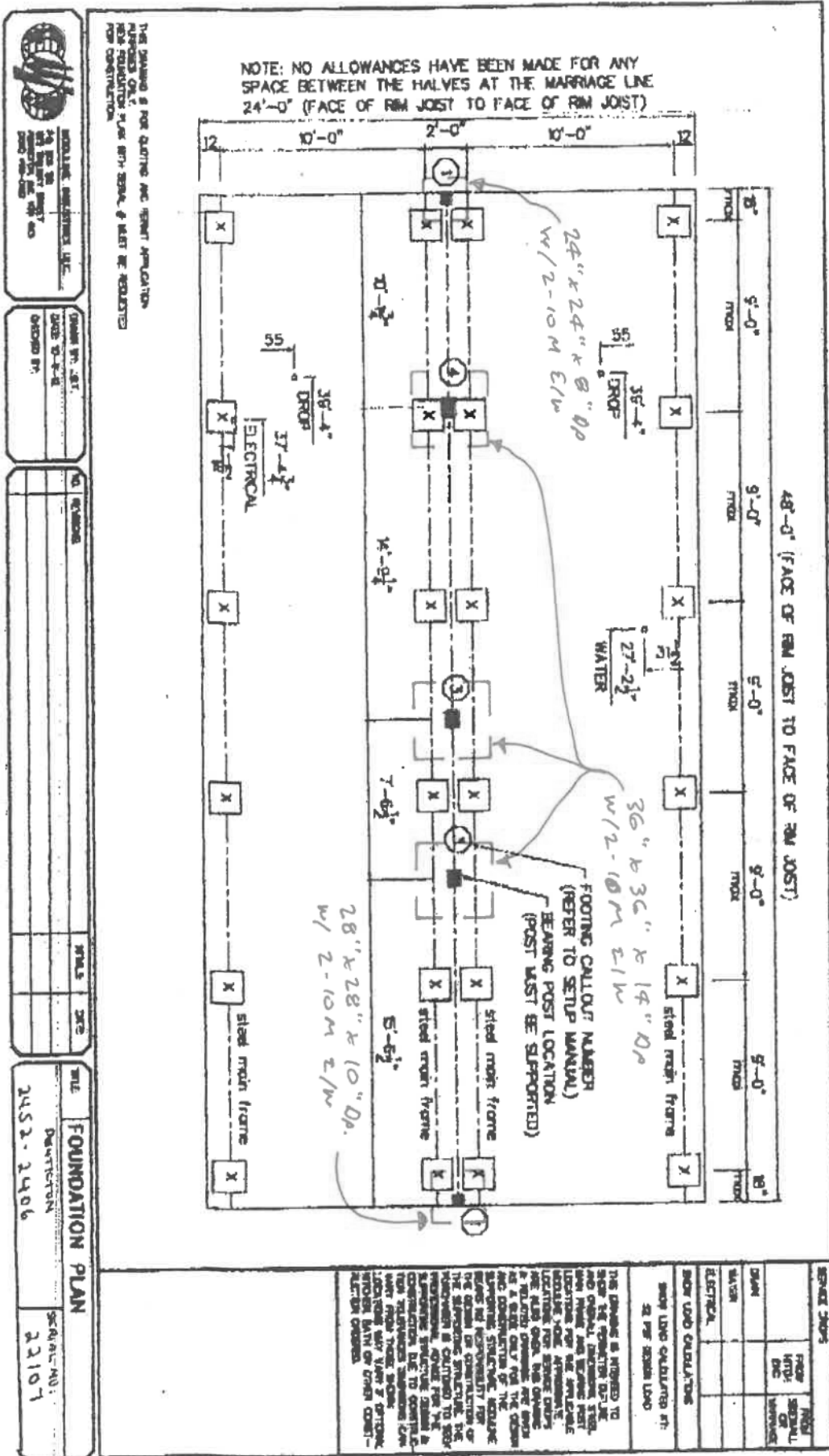


04/23/2015 21:39

No. : R475

P.012/016

67201 OTHERLO AD
4006, BC



67701-07450 RD

MAPS BC

MOBILE HOME FOUNDATION



SEE ATTACHED FOUNDATION PLAN FOR POINT LOAD FOOTINGS

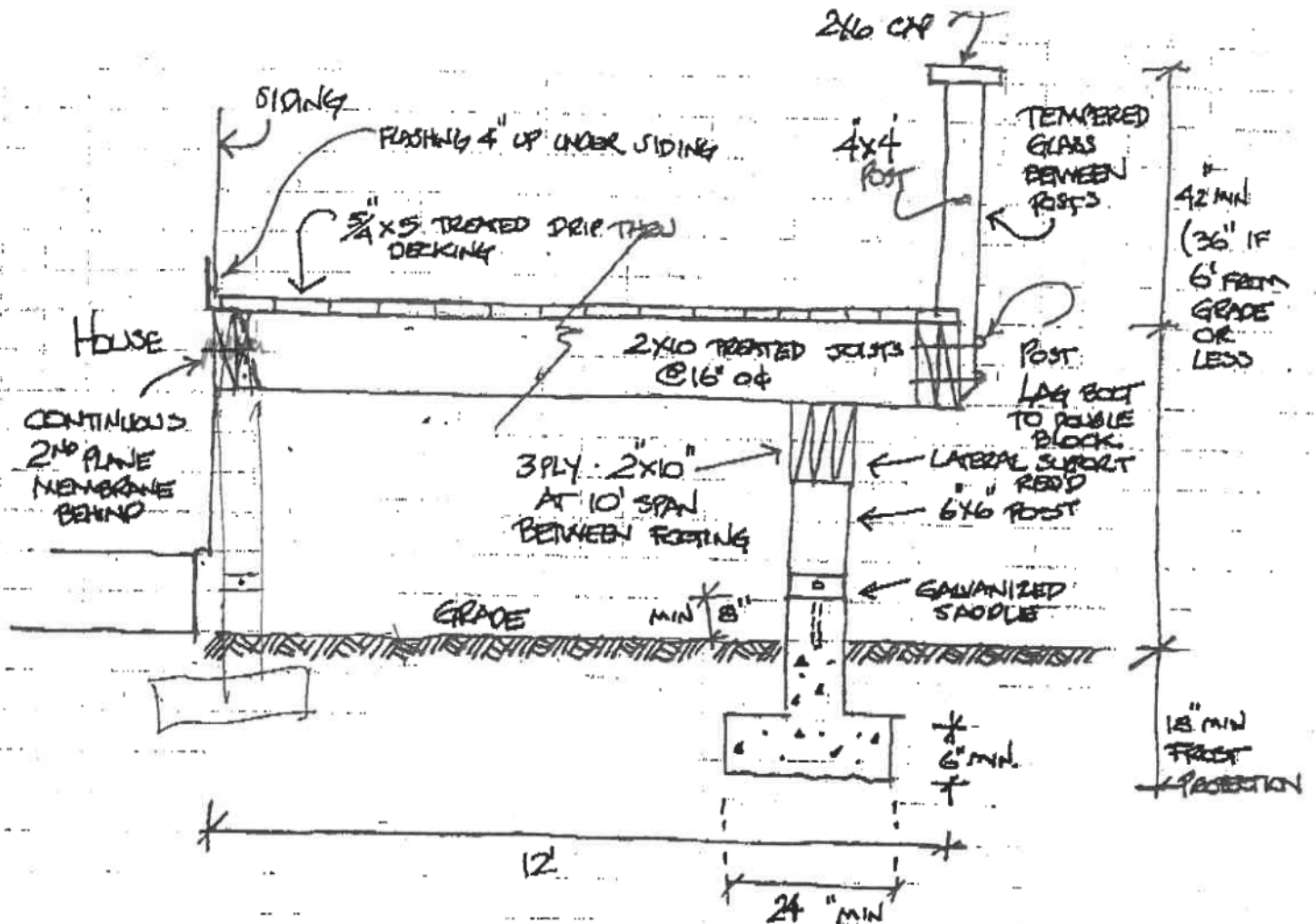
FOR 3 1/2" CONCRETE SLAB THICKENED TO 12" AT EDGES AND THICKENED TO 8" AT 8'-0" OR GREATER SPACING OF BARS

SEE ATTACHED GENERAL NOTES SHEET FOR TIE DOWN REQUIREMENTS

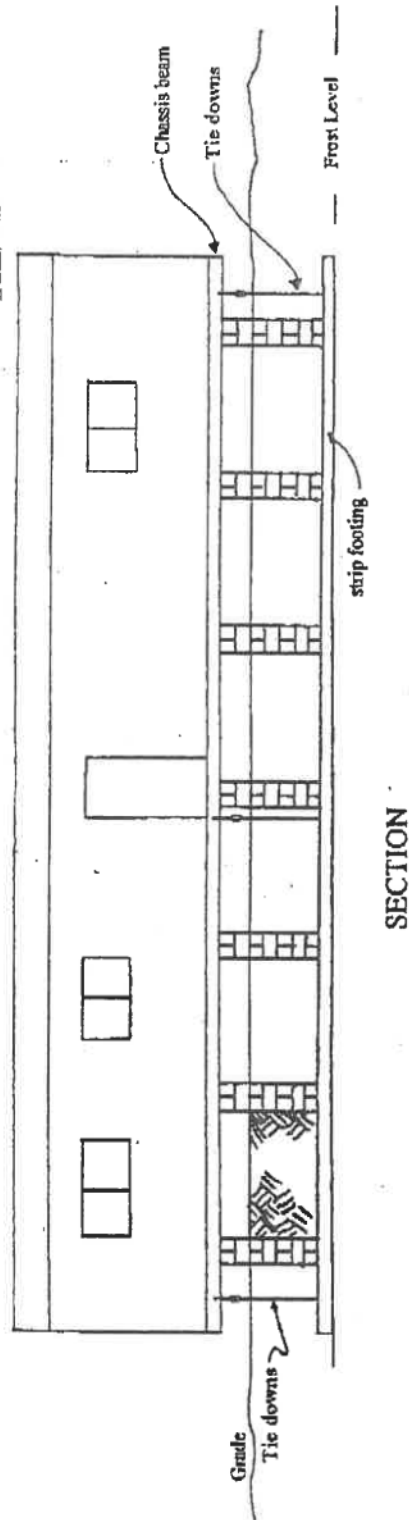
TIE DOWN @ 4 CORNERS, NOT MORE THAN 14" APART

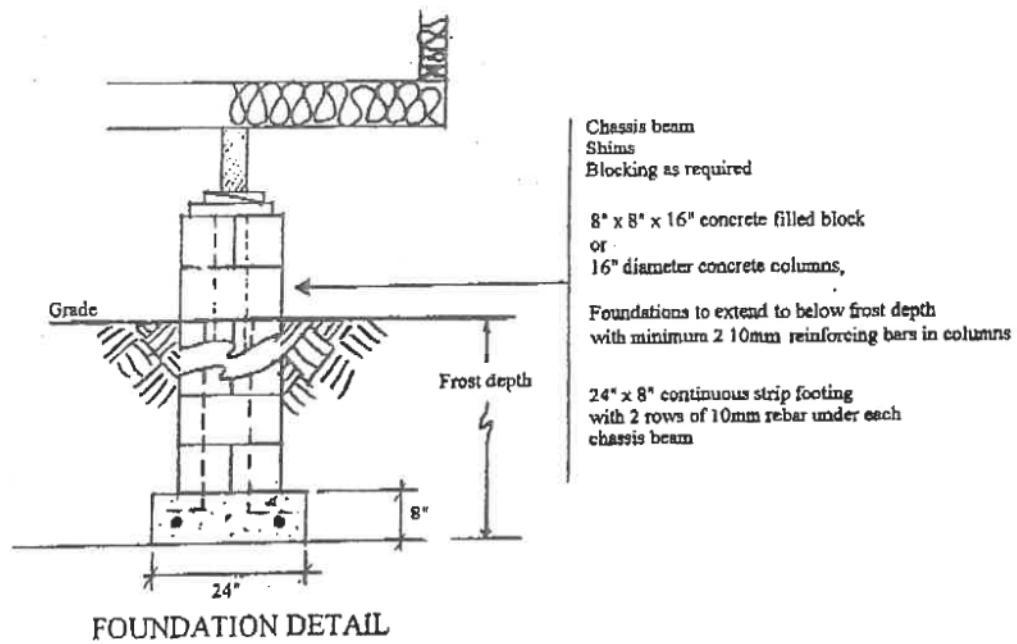


THE DECK WILL NOT BE SUPPORTED ON THE MOBILE, THE SUPPORT WILL BE PROVIDED INDEPENDENTLY OF THE MOBILE. A SECOND SET OF SUPPORT COLUMNS AND BEAMS WILL BE PROVIDED AT THE INSIDE FACE OF THE DECK ADJACENT TO THE MOBILE.



ALL WOOD WILL BE ACQ TREATED
ALL NAILS & LAG BOLTS HOT DIPPED GALVANIZED
WILL USE 3/8" STEEL GRID IN FLOORING & REB. ROD TO SADDLE





Feb 21/22 Community Meeting: Othello Road Recovery Work & DFA

From: Graham Daneluz <Gdaneluz@fvrd.ca>
To: Carey, Rachele EMBC:EX <Rachele.Carey@gov.bc.ca>
Cc: Hasib Nadvi <hnadvi@fvrd.ca>
Sent: February 2, 2022 2:48:50 PM PST

[EXTERNAL] This email came from an external source. Only open attachments or links that you are expecting from a known sender.

Hi Rachele,

Thanks very much for talking with me today and for agreeing to participate in our Feb 21/22 meeting with Othello Road residents. I appreciate all the help and assistance you have provided to us.

The email below contains details on the meeting with Othello Road residents which will be held via Zoom at 7 PM on Feb 21. The meeting has two purposes. The first is for Ministry of Transportation & Infrastructure (and their consultant, McElhanney) to discuss plans and timelines for Othello Road restoration. The second is to provide property owners an opportunity to learn more about DFA and ask questions of DFA staff.

As I mentioned, we intend to hold a similar community meeting with Chilliwack Lake Road residents. I will follow up with you to identify potential dates for that meeting.

If you have any questions or concerns, please call or email.

Best regards,

Graham Daneluz, RPP, MCIP

Director of Planning & Development

Fraser Valley Regional District

1-45950 Cheam Avenue, Chilliwack BC V2P 1N6

604-702-5046 | fvrd.ca

From: Hasib Nadvi <hnadvi@fvrd.ca>

Sent: February 1, 2022 8:36 AM

To: Ricardo Araya <RARaya@mcelhanney.com>

Cc: FVRD EOC DIRECTOR <EOC.DIRECTOR@fvrd.ca>; Graham Daneluz <Gdaneluz@fvrd.ca>

Subject: RE: Othello Road Recovery Work - meeting with property owners

Hello Ricardo,

Thank you for the update. It was great to meet with you and Morgan to discuss the February townhall meeting with Othello residents. As we mentioned during the meeting, the November atmospheric river events caused catastrophic devastation in Othello Road and surrounding areas along the Coquihalla River.

The events resulted in the complete loss of two properties (67600 and 67700 Othello Road) and partial loss of multiple properties. For example, the campsite lost multiple structures, pump house, and well site. FVRD staff met with several of the property owners to discuss their unmet needs and next steps. The property owners noted the meeting with the Ministry of Transportation was one of the top priorities. Knowing the permanent alignment of Othello would allow them to plan for the reconstruction of structures, and consider locations for their wells and septic systems. Without knowing the above, the Building Permit applications will be premature.

Towards the end of November, FVRD received provincial funding to undertake bank protection works in the Othello area. We immediately undertook some work around the bank of 67400 Tunnels Road. FVRD cannot undertake further work without fully understanding the alignment of Othello Road. As discussed during the meeting, our Engineering team will connect with you before proceeding with further work on Othello.

From our discussion, I understand that Phu Bui from MoTI will be attending the meeting as well. The details of the meeting are as follows:

Virtual meeting

Date: Monday, February 21, 2022

Time: 7pm to 9pm

Purpose: to discuss the permanent alignment and timeline of Othello Road. FVRD will also invite the Provincial Disaster Financial Assistance staff to the meeting).

Link to the meeting: s.15

(calendar invite to be sent)

Best regards,

Hasib Nadvi, RPP, BSc, BPL, MPlan

Manager of Planning

timeline for response project completion

From: FVRD EOC DIRECTOR <EOC.DIRECTOR@fvrld.ca>
To: preoc2.ops1@gov.bc.ca, EMBC SWE PREOC Operations 1 EMBC:EX <preoc2.ops1@gov.bc.ca>
Sent: February 2, 2022 4:40:19 PM PST

[EXTERNAL] This email came from an external source. Only open attachments or links that you are expecting from a known sender.

Hello. Tyler?

Would a PREOC representative please give me a call to discuss timelines for completing response projects? Many of our response projects are complete, or will be complete within a few days. However, we are seeing delays in project completion due to a number of factors, including:

- Personnel sick with COVID
- Shortage of critical materials, particularly large (i.e. 1000 kg) riprap
- FVRD capacity limitations
- Shortage of qualified available contractors or contractor delays (North Nicomen Dike project)
- Late EAF approval (Lorenzetta Creek project)
- Environmental permitting timelines (Frosst Creek project)
- Uncertainty associated with work in the same area by other agencies (Coquihalla River bank stabilization).

I am particularly concerned with timeline for completion of Frosst Creek works, Lorenzetta Creek, Coquihalla River bank stabilization (Othello Rd) and North Nicomen Dike repair (at Taylor Rd).

Please provide guidance about your expectations for completion timelines for response works and any issues that could arise with funding. These projects are supported by approved EAFs and are response projects.

Thank you.

Graham Daneluz

s.22

Resource Request

*Red Label: indicates a required field.

Priority

Orange--Priority

*Status

Blue--Report Closed

EMBC Resource Request Number (Do not change)

Res-150336-733-112721

EMBC Task Number

223832

Requestor Number

EAF 041

Resource Identifier (PECC Use Only)

WHO IS MAKING THE REQUEST?

*Requesting Organization

Fraser Valley Regional District

*Requestor's Contact Info

Tareq Islam

s.22

eoc.finance@fvrd.ca

Related Event/Incident/Activity

I - Fraser Valley Regional District FVRD EOC Activation

Display All resource requests related to

I - Fraser Valley Regional District FVRD EOC Activation

WHAT IS BEING REQUESTED?

Resource Category

Expenditure Authorization

*Quantity

1

*Resource Type/Kind

General (See MISSION for details)

Qty Unit Of Measure

each

When Needed

11/28/2021 at 16:00 PST

Mission

A section of bank armouring has failed due to the atmospheric river. This armour protects critical infrastructure including an Enbridge pipeline, Othello Rd, and several properties on Othello Rd from the Coquihalla River. The resulting instability has led to an evacuation order of seven (7) properties at 21:30 November 16, 2021.

KWL Consulting Engineers attended the site on Nov 21, 2021. KWL's assessment of the site was that the critical infrastructure that would be affected if the bank armouring is not repaired would cause imminent threat to life and could destroy critical infrastructure such as the Enbridge pipeline and main road.

A breakdown of the cost is as follows:

Construction \$1,001,000

Engineering \$20,000

Environmental Monitoring \$28,000

Subtotal \$1,049,000

30% Contingency \$420,000

Other

Resource must come with

SPECIAL INSTRUCTIONS (E.G. SAFETY MESSAGE, INGRESS/EGRESS ROUTES, ETC.)

Special Instructions

FORWARD REQUEST TO:

- ☒ **Uncheck to send Targeted Alert ONLY to the individual selected. When checked a Targeted Alert is sent to all users whose Personal Profile matches the Org/Location and Position selected.**

Individual:**Organization/Location:**

SWE PREOC

Position:**Agency:**

Finance/Administration Section Chief

SWE - South West PREOC

Vendor

Summary of actions taken

11/30/2021 at 18:25 PST rhockey-SWE PREOC

Set to blue. Tracked in finance.

11/30/2021 at 10:32 PST dfenn-SWE PREOC

Notified community, change to Teal.

11/30/2021 at 10:11 PST hemacrae-SWE PREOC

To track in the Ops tracker and send back to the local authority.

11/29/2021 at 20:09 PST swoolfor-PECC - Provincial Emergency Coordination Centre

Forwarded to SWE PREOC Ops Chief

11/29/2021 at 15:15 PST jawilson-PECC - Provincial Emergency Coordination Centre

Request approved under the direction of Director Brendon Ralfs.

11/29/2021 at 12:21 PST swoolfor-PECC - Provincial Emergency Coordination Centre

Forwarded to PECC director for decision. Emailed Brendan, Pader, Mike McStravick. Would suggest engagement with FLNRO and DFO for emergency works being conducted along the river. May also need to engage Dike Management, Inspector of Dikes for discussion.

11/29/2021 at 12:16 PST swoolfor-PECC - Provincial Emergency Coordination Centre

Forwarded to PECC director for decision. Emailed attachments to Brendan Ralfs, Pader Brach, Mike McStravick, EMBC PECC director.

11/29/2021 at 12:01 PST tyhaley-SWE PREOC

Received report on recommendations. Sent to PECC OPS for consideration. Was advised that more damages have been caused by the continued high water run-off. The attached plan has a 40% contingency, but it should be noted that the estimate may be more than that depending on the degree of additional damages. The report shows CI that is at risk due to the river flows.

11/29/2021 at 11:33 PST tyhaley-SWE PREOC

Requested additional documentation from FVRD.

11/27/2021 at 15:22 PST hemacrae-SWE PREOC

Moved to Director due to the value being above Ops allowance for approval.

11/27/2021 at 15:08 PST dfenn-SWE PREOC

Entered in EMIS, to black, to Ops Chief.

Estimated Resource Cost

1469000.00

Request History

11/30/2021 at 18:25 PST - Robyn Hockey at NEA PREOC as Finance/Administration Section Chief changed status to Blue--Report Closed

11/30/2021 at 10:32 PST - Dean Fenn at VIR PREOC as Operational Area Coordinator - Alpha changed status to Teal--Financial Tracking

11/29/2021 at 15:24 PST - Jane O'Higgins-Wilson at PECC - Provincial Emergency Coordination Centre as Logistics Section Chief changed status to Red--Approved Request

11/29/2021 at 11:34 PST - Tyler Haley at SWE PREOC as Operations Section Chief changed status to Purple--Pending Approval

11/27/2021 at 15:08 PST - Dean Fenn at VIR PREOC as Operational Area Coordinator - Alpha changed status to Black--New Request

NOTIFICATION

Send Notification N

Message

Individuals

Groups

Other Email Addresses

GEO LOCATION & MAPPING

Site Name	Site Type	
	Emergency Operations Centre (EOC)	
Street Address	Apt or Lot No.:	
1-45950 Cheam Avenue		
City	State	Zip
Chilliwack	BC	
Intersection - Street 1	Intersection - Street 2	
*County/Municipality	Geographic Area	
	(Region, District, Campus, etc).	
Fraser Valley Regional District	SWE - South West PREOC Region	
Country		
Canada		
Additional Location Information		

Show on Map?	Geo Located By	Latitude	Longitude
Yes	StreetAddress	49.166459980963936	-121.95388997064619

[Display on Map](#)

ATTACHMENTS

2021-11-24_OthelloRdErosionAssessment.pdf

2021 11 24 - EOC EAF 41 - Hydrotechnical Works (Othello Road).docx

ACCESS CONTROL

You are not authorized to edit this section!!!

DATA SHARING

You are not authorized to edit this section!!!

Document Created by:s.15 on 11/27/2021 at 15:08 PST LastModified by:s.15 on 11/30/2021 at 18:25 PST
Copyright © 2016 by NC4 Public Sector LLC, All Rights Reserved.



Leila Darwish

Recovery Operations Specialist – SWE Region

Community Recovery Branch

Emergency Management British Columbia

M: 250-886-4968

O: 236-478-0804

24 Hour Emergency Reporting: 1-800-663-3456



Leila Darwish

Recovery Operations Specialist – SWE Region

Community Recovery Branch

Emergency Management British Columbia

M: 250-886-4968

O: 236-478-0804

24 Hour Emergency Reporting: 1-800-663-3456