

**From:** [TRAN SIR FOI Requests TRAN:EX](#)  
**To:** [TRAN SIR FOI Requests TRAN:EX](#)  
**Subject:** Response : TRA-2021-11108  
**Date:** April 21, 2021 8:25:26 AM  
**Attachments:** [Culvert Location Report - Princeton Summerland Road.pdf](#)

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**From:** Keir, Chris TRAN:EX  
**Sent:** April 20, 2021 1:51 PM  
**To:** TRAN Sir Ok Admin TRAN:EX  
**Cc:** Wiseman, Jeff TRAN:EX ; Lachmuth, Erik TRAN:EX  
**Subject:** FW: Proposed Response : TRA-2021-11108

Leah,

I have pared down submission to the bare response based on request:

MoTI Response:

*Formal request for the following details to a specific portion of the Princeton Summerland Road, which is 10km radius from Latitude 49-36-59-69N and Latitude 119-48-43-16W:*

- ***Location of the nearest culvert (and other drainage provisions) prior to the failure on April 16, 2018 and subsequent repairs;***
- ***Attached printout from CHRIS***
  - *the road standards that were in place around the time period for when the road was constructed, and the standards that would cover the time of repairs; details on the repairs and modifications to the roadway (changes in base material, etc.);*
  - *Princeton Summerland Road has been maintained as a public road, most likely an old wagon road at one time. No official dates in our records. Road has been upgraded many times and at different times, different road standards would have been in effect. Design Standards at time of repairs in response to the washout would be: BC Supplement to TAC 2007 (Design Standard) and Standard Specifications for Highway Construction 2016 (Construction Specifications). As repairs only involved a single site, Design Specifications would not apply.*
  - *engineering reports/inspection documentation by the province or their representatives during the road repairs;*
  - *Attached information submitted by Argo Road Maintenance (South Okanagan) Inc. No engineering reports/inspections were completed during the road repairs. Culvert installation and road repair was managed and supervised by Argo Road Maintenance (South Okanagan) Inc.*
  - *and drainage modifications during repairs including information on additional culverts installed.*
  - *Two culverts installed by Argo Road Maintenance (South Okanagan) Inc. and road reconstructed. Two 600mm culverts were installed in the location of the washout.*

*(Date Range for Record Search: From **1/1/2008 To 3/11/2021**)*

Argo Road Maintenance (South Okanagan) Inc. response (Bernie Corbach, Assistant General Manager, Argo Road Maintenance (South Peace) Inc. :

- **Location of the nearest culvert (and other drainage provisions) prior to the failure on April 16, 2018 and subsequent repairs;**

Using the Ministry of Transportation & Infrastructure IMAP&RFI data the following are the drainage appliances located in the field on April 16, 2018 ( Km stations are as per the RFI )

**Existing culvert at 16.935 KM CULV X ROADWAY | GALVANIZED | 600 ( 315 metres to the west )**

**Incident 17.250 km**

**Existing culvert at 17.41 KM CULV X ROADWAY | GALVANIZED | 600 ( 160 metres to the east )**

- *the road standards that were in place around the time period for when the road was constructed, and the standards that would cover the time of repairs; details on the repairs and modifications to the roadway (changes in base material, etc.);*

**SCHEDULE "21" Maintenance Specifications 2003-2004 HIGHWAY MAINTENANCE CONTRACTS Maintenance Standards engineering**

**[https://www2.gov.bc.ca/assets/gov/driving-and-transportation/transportation-infrastructure/highway-bridge-maintenance/highway-maintenance/maintenance-agreements/schedule\\_21\\_maintenance\\_specifications.pdf](https://www2.gov.bc.ca/assets/gov/driving-and-transportation/transportation-infrastructure/highway-bridge-maintenance/highway-maintenance/maintenance-agreements/schedule_21_maintenance_specifications.pdf)**

- *engineering reports/inspection documentation by the province or their representatives during the road repairs;* **No engineering reports/inspections were completed during the road repairs.**
- *and drainage modifications during repairs including information on additional culverts installed* **2 - 600mm Diameter culverts were added at Km station 17.250km during the 2018 Summer season under the flood repairs.**

chris

# Inventory Item Location Report

Sorted by Highway Number

**Service Area:** South Okanagan SA

**AMA:** 08-A - Penticton

**Sub Area:** 08-A-@

**RFI Highway:** 08-A-@-00040 Princeton-Summerland Road

**RFI Length:** 23.582

**RFI Direction:** E

<u>Inventory Item</u>	<u>Primary Key</u>	<u>XSP</u>	<u>Attributes</u>	<u>Chainage</u>		<u>Length</u>	<u>Modification Date</u>
				<u>Start</u>	<u>End</u>		
HRP	2001212		Intersection   10960   TURNAROUND	0.000			2021-04-14
CULV	2001349	X	Roadway   500   Galvanized   No     Unknown   Unknown   No   No	0.075	0.075		2021-04-14
CULV	2001348	X	Roadway   500   Galvanized   No     Unknown   Unknown   No   No	0.207	0.207		2021-04-14
CULV	2001346	X	Roadway   500   Galvanized   No     Unknown   Unknown   No   No	0.285	0.285		2021-04-14
CULV	2001345	X	Roadway   500   Galvanized   No     Unknown   Unknown   No   No	0.763	0.763		2021-04-14
CULV	2001352	X	Roadway   500   Galvanized   No     Unknown   Unknown   No   No	1.577	1.577		2021-04-14
CULV	2001351	X	Roadway   500   Galvanized   No     Unknown   Unknown   No   No	2.611	2.611		2021-04-14
CULV	2001347	X	Roadway   500   Galvanized   No     Unknown   Unknown   No   No	3.211	3.211		2021-04-14
CULV	2001350	X	Roadway   300   Galvanized   No     Unknown   Unknown   No   No	3.966	3.966		2021-04-14
HRP	2001211		Bridge Abutment   10979   W.END 2ND BRIDGE	4.711	4.711		2021-04-14
HRP	2001210		Bridge Abutment   10980   W. END TROUT CRK BRG	6.821	6.821		2021-04-14
CULV	3787534	X	Roadway   600   Galvanized   No	8.507	8.507		2021-04-14
CULV	3787535	X	Roadway   600   Galvanized   No	8.978	8.978		2021-04-14

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				<u>Start</u>	<u>End</u>		
CULV	2001339	X	Roadway   600   Galvanized   No     Unknown   Unknown   No   No	9.770	9.770		2021-04-14
CULV	3787536	X	Roadway   600   Galvanized   No	9.952	9.952		2021-04-14
CULV	3787537	X	Roadway   500   Galvanized   No	10.563	10.563		2021-04-14
CULV	2001340	X	Roadway   500   Galvanized   No     Unknown   Unknown   No   No	11.077	11.077		2021-04-14
CULV	2001341	LRW	Roadway   500   Galvanized   No     No   Unknown   No   No	11.371	11.371		2021-04-14
CULV	2001342	X	Roadway   500   Galvanized   No     Unknown   Unknown   No   No	11.550	11.550		2021-04-14
CULV	3787539	X	Roadway   600   Galvanized   No	11.729	11.729		2021-04-14
CULV	2001338	X	Roadway   600   Galvanized   No     Unknown   Unknown   No   No	11.731	11.731		2021-04-14
CULV	2001328	X	Roadway   600   Galvanized   No     Unknown   Unknown   No   No	11.733	11.733		2021-04-14
CULV	2001327	RRW	Flume   0   Galvanized   No     No   Unknown   No   No	12.356	12.356		2021-04-14
CULV	2001329	X	Roadway   500   Galvanized   No     Unknown   Unknown   No   No	12.356	12.356		2021-04-14
CULV	2001326	X	Roadway   500   Galvanized   No     Unknown   Unknown   No   No	12.410	12.410		2021-04-14
CULV	3787542	RS	Down Drain   150   Plastic   No	12.473	12.473		2021-04-14

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Inventory Item	Primary Key	XSP	Attributes	Chainage		Length	Modification
				Start	End		
CULV	2001330	X	Roadway   600   Galvanized   No     Unknown   Unknown   No   No   OUTLET CULVERT EXTENTSION	12.483	12.483		2021-04-14
CULV	3787543	RS	Down Drain   150   Plastic   No	12.498	12.498		2021-04-14
CULV	3787544	RS	Down Drain   150   Plastic   No	12.514	12.514		2021-04-14
CULV	2001343	X	Roadway   600   Galvanized   No     Unknown   Unknown   No   No   OUTLET EXTENTSION 600MM	13.094	13.094		2021-04-14
CULV	3787556	X	Roadway   600   Galvanized   No	13.754	13.754		2021-04-14
CULV	2001325	X	Roadway   600   Galvanized   No     Unknown   Unknown   No   No 	14.098	14.098		2021-04-14
CULV	2001324	X	Roadway   500   Galvanized   No     Unknown   Unknown   No   No 	14.900	14.900		2021-04-14
CULV	2001332	X	Roadway   600   Galvanized   No     Unknown   Unknown   No   No 	15.167	15.167		2021-04-14
CULV	2001331	X	Roadway   400   Galvanized   No     Unknown   Unknown   No   No 	15.538	15.538		2021-04-14
CULV	2001333	X	Roadway   500   Galvanized   No     Unknown   Unknown   No   No 	15.777	15.777		2021-04-14
CULV	2001323	X	Roadway   500   Galvanized   No     Unknown   Unknown   No   No 	15.968	15.968		2021-04-14
CULV	2001334	X	Roadway   600   Galvanized   No     Unknown   Unknown   No   No 	16.142	16.142		2021-04-14
CULV	2001335	X	Roadway   600   Galvanized   No     Unknown   Unknown   No   No	16.393	16.393		2021-04-14

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CULV	2001336	X	Roadway   600   Galvanized   No     Unknown   Unknown   No   No	16.935	16.935		2021-04-14
CULV	2001320	X	Roadway   600   Galvanized   No     Unknown   Unknown   No   No	17.410	17.410		2021-04-14
CULV	2001319	X	Roadway   450   Galvanized   No     Unknown   Unknown   No   No	17.411	17.411		2021-04-14
CULV	2001318	X	Roadway   600   Galvanized   No     Unknown   Unknown   No   No	17.790	17.790		2021-04-14
CULV	2001344	X	Roadway   600   Galvanized   No     Unknown   Unknown   No   No	17.957	17.957		2021-04-14
CULV	2001322	X	Roadway   300   Galvanized   No     Unknown   Unknown   No   No	18.535	18.535		2021-04-14
CULV	2001321	LRW	Entrance   500   Galvanized   No     No   Unknown   No   No	18.756	18.756		2021-04-14
HRP	2762649		Intersection   10985   MOUNTAIN VIEW ROAD	18.886	18.886		2021-04-14
CULV	2001337	X	Other   0   Galvanized   No     Unknown   Unknown   No   No   BOTTOMLESS ARCH 2740MM X 1440MM	20.438	20.438		2021-04-14
HRP	2001213		Intersection   10990   FISH LK RD	20.450	20.450		2021-04-14
HRP	2013400		Intersection   16460   DEANS ROAD	22.539	22.539		2021-04-14
HRP	3782871		Jurisdictional Boundary   16465   SUMMERLAND MUNICIPAL BDRY	23.582	23.582		2021-04-14

## Inventory Item Location Report

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2021-04-14 10:25 AM

LEGEND

Type	Feature Description
CULV	Culvert Type   Culvert Diameter   Culvert Material   Confined Space   Installation Date   Fish Sensitive   Fish Passage Type   Grate   Flap Grate   Comments
HRP	Landmark Type   Landmark Number   Landmark Description