

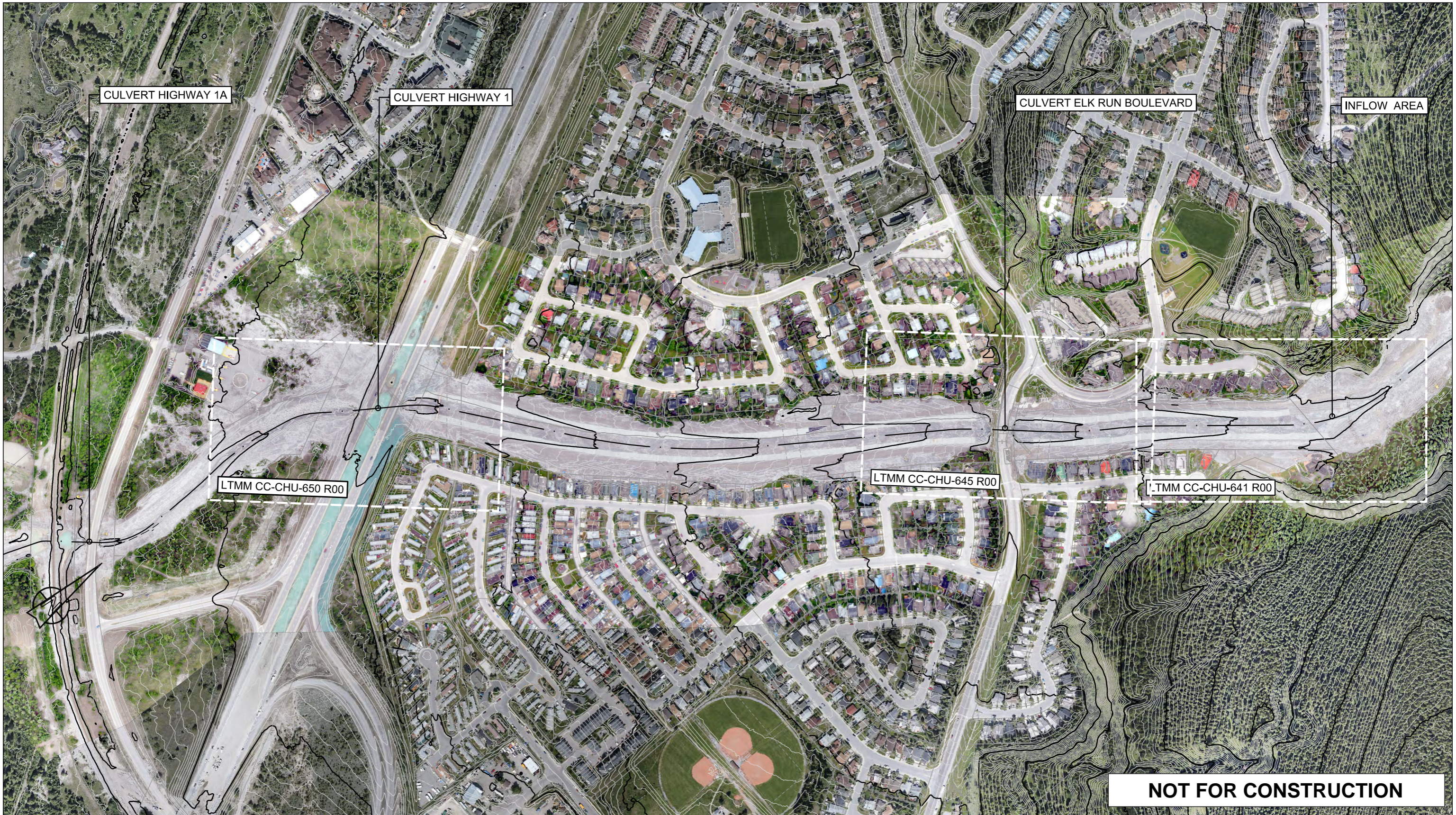


## GENERAL:

1. THIS SET of DRAWINGS SHOWS THE CONCEPTUAL DESIGN OF CHANNEL IMPROVEMENT AT EXISTING CULVERTS AND KEY SECTIONS OF THE COUGAR CREEK CHANNEL.
2. THE SET OF DRAWINGS INCLUDES DRAWINGS LTMM CC-CHU-640 TO LTMM CC-CHU-658.
3. SLOPE STABILITY AND STRUCTURAL REQUIREMENTS CONCERNING NEW OR EXISTING STRUCTURAL ELEMENTS HAVE NOT BEEN EVALUATED IN THIS PACKAGE AND WILL BE INCLUDED IN THE TENDER SUBMISSION.
4. THE DRAWINGS SHOW THE PRELIMINARY SHAPE OF THE UPGRADE OF EROSION PROTECTION. THE CONSTRUCTION SEQUENCE NECESSARY FOR STABLE INTERMEDIATE STAGES IS NOT SHOWN IN THE DRAWINGS.

U:\6000_CHT\16494\07_DETAIL_ENG\07_DESIGN\GRADE_CONTROL\FF\DWG\16494_CC_IFP_20160413.dwg						SCALE:	PROFESSIONAL SEAL:	CLIENT:	PROJECT:	
						DATE: 2016/04/13			UPDATE GRADE CONTROL COUGAR CREEK CHANNEL ISSUED FOR PERMIT	
					DRAWING: ALe	ENGINEERING:			CONTENT:	
					DESIGN: MSc/ALe	<b>CANADIAN HYDROTECH CORPORATION</b>		<b>NOTES</b>		
					REVIEW: MSc					
					APPROVED: EIs					
REV.	DATE	REVISION NOTES	DRAWN	REVIEW	APPROVED			PROJECT No.: 16494	DRAWING No.: LTMM CC-CHU-639 R00	REV: 00






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REV.	DATE	REVISION NOTES	DRAWN	REVIEW	APPROVED

SCALE: 1:5,000  
 DATE: 2016/04/13  
 DRAWING: ALe  
 DESIGN: MSc/ALe  
 REVIEW: MSc  
 APPROVED: EIs



CLIENT:   
 ENGINEERING: **CANADIAN HYDROTECH CORPORATION**

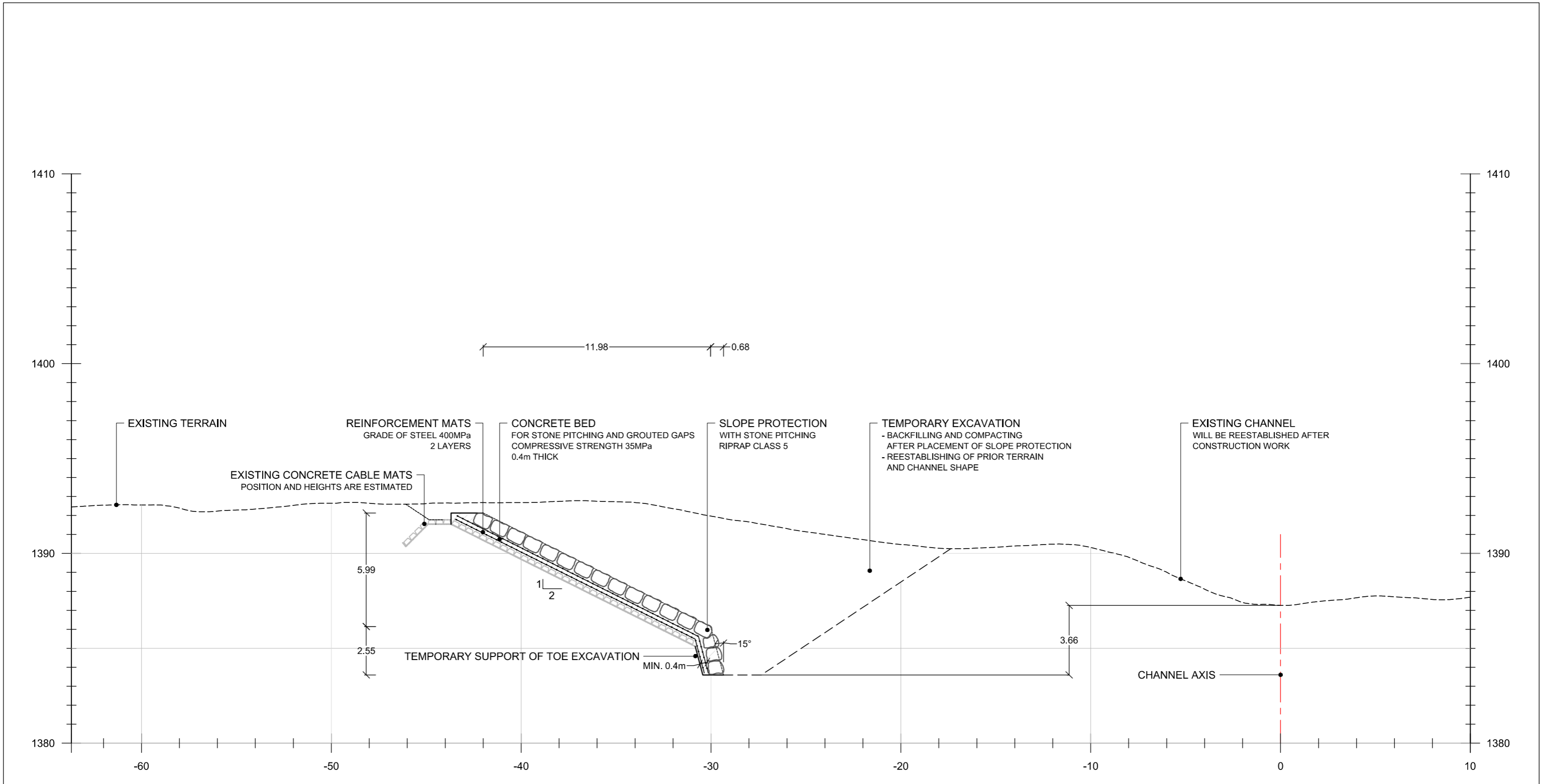
PROJECT:	UPDATE GRADE CONTROL COUGAR CREEK CHANNEL ISSUED FOR PERMIT	
CONTENT:	PLAN VIEW <b>OVERVIEW MAP, DRAWING KEY PLAN</b>	
PROJECT No.:	16494	DRAWING No.:
		LTMM CC-CHU-640 R00
REV:	00	







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CS1 CROSS SECTION EMBANKMENT PROTECTION  
 CH KM 2+268.39 0m 5m 1:200

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REV.	DATE	REVISION NOTES	DRAWN	REVIEW	APPROVED

SCALE: 1:200  
 DATE: 2016/04/13  
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 DESIGN: MSc/ALe  
 REVIEW: MSc  
 APPROVED: EIs

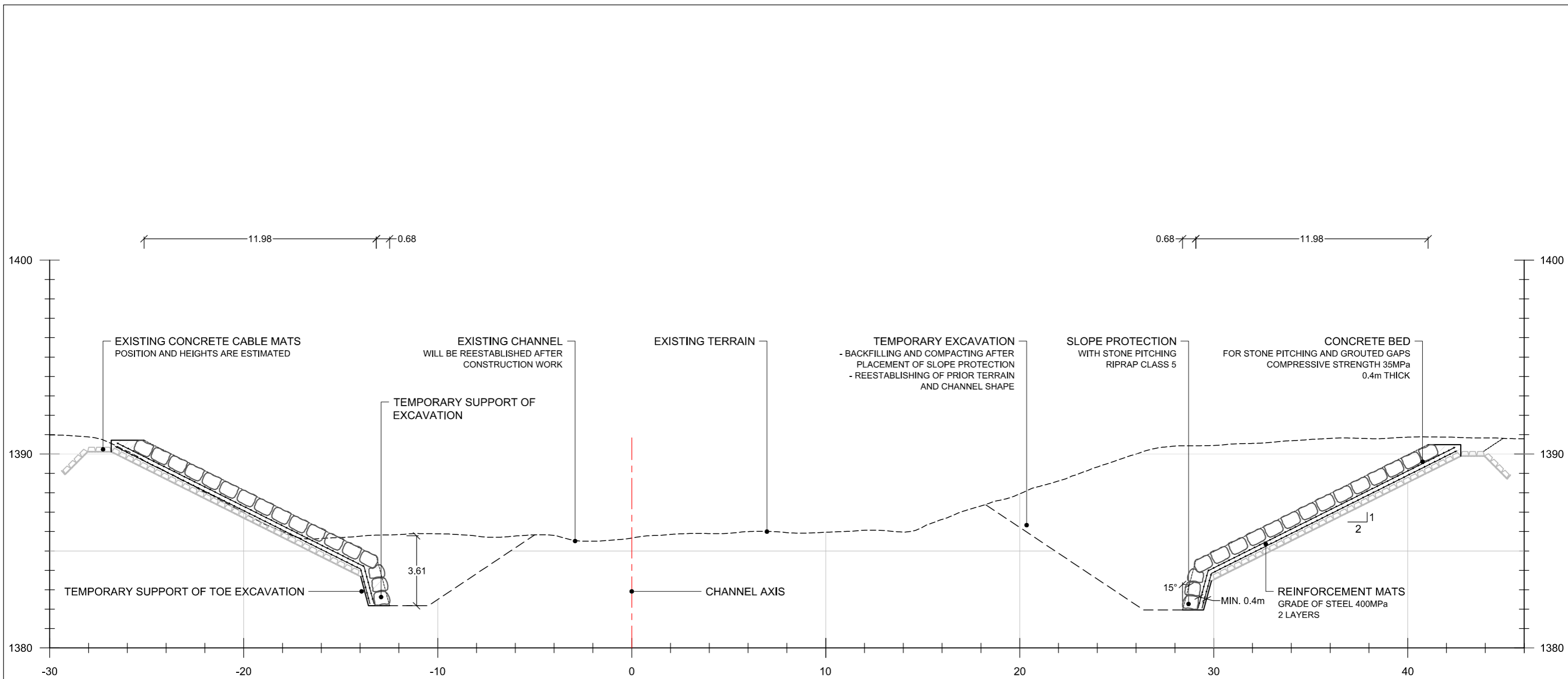


CLIENT: **Town of CANMORE**

ENGINEERING: **CANADIAN HYDROTECH CORPORATION**

PROJECT: UPDATE GRADE CONTROL COUGAR CREEK CHANNEL ISSUED FOR PERMIT		
CONTENT: CROSS SECTION <b>CROSS SECTION - CS1 CHAINAGE 2+268.39</b>		
PROJECT No.: 16494	DRAWING No.: LTMM CC-CHU-642 R00	REV: 00





CS2 CROSS SECTION EMBANKMENT PROTECTION  
CH KM 2+220.08 0m 5m 1:200

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REV.	DATE	REVISION NOTES	DRAWN	REVIEW	APPROVED

SCALE:	1:200
DATE:	2016/04/13
DRAWING:	ALe
DESIGN:	MSc/ALe
REVIEW:	MSc
APPROVED:	EIs

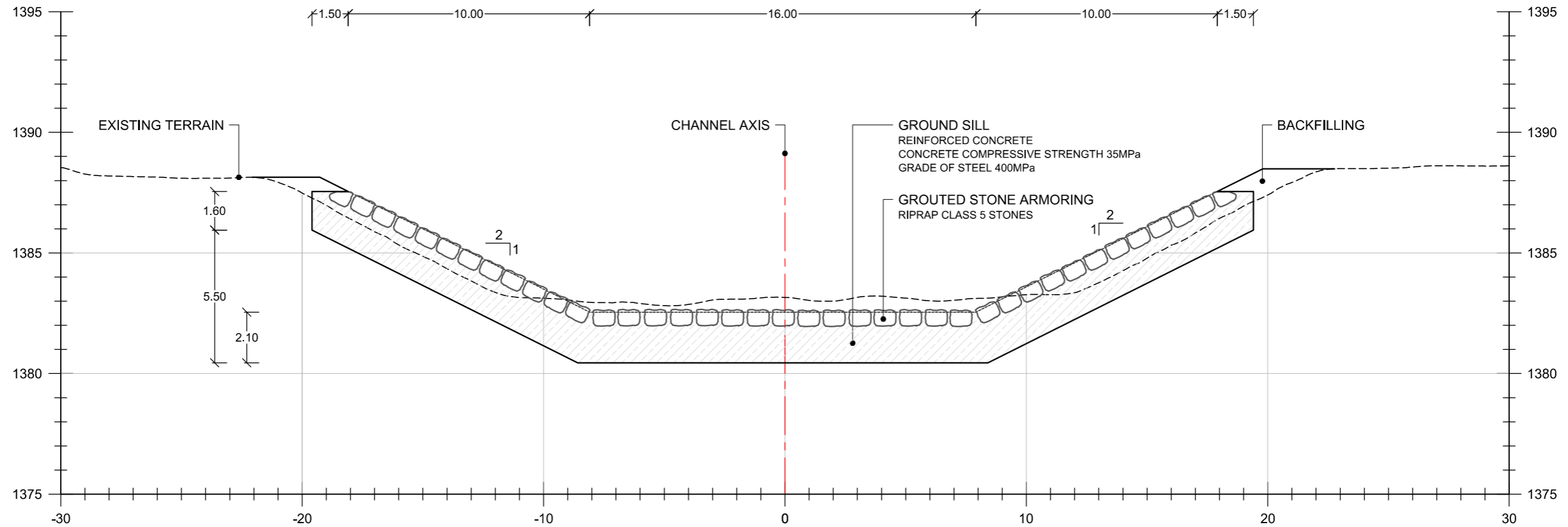


CLIENT: **Town of CANMORE**

ENGINEERING: **CANADIAN HYDROTECH CORPORATION**

PROJECT: UPDATE GRADE CONTROL COUGAR CREEK CHANNEL ISSUED FOR PERMIT		
CONTENT: CROSS SECTION <b>CROSS SECTION - CS2</b> <b>CHAINAGE 2+220.08</b>		
PROJECT No.: 16494	DRAWING No.: LTMM CC-CHU-643 R00	REV: 00





CS3 CROSS SECTION GROUND SILL  
 CH KM 2+154.95 0m 5m 1:200

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REV.	DATE	REVISION NOTES	DRAWN	REVIEW	APPROVED

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APPROVED:	EIs

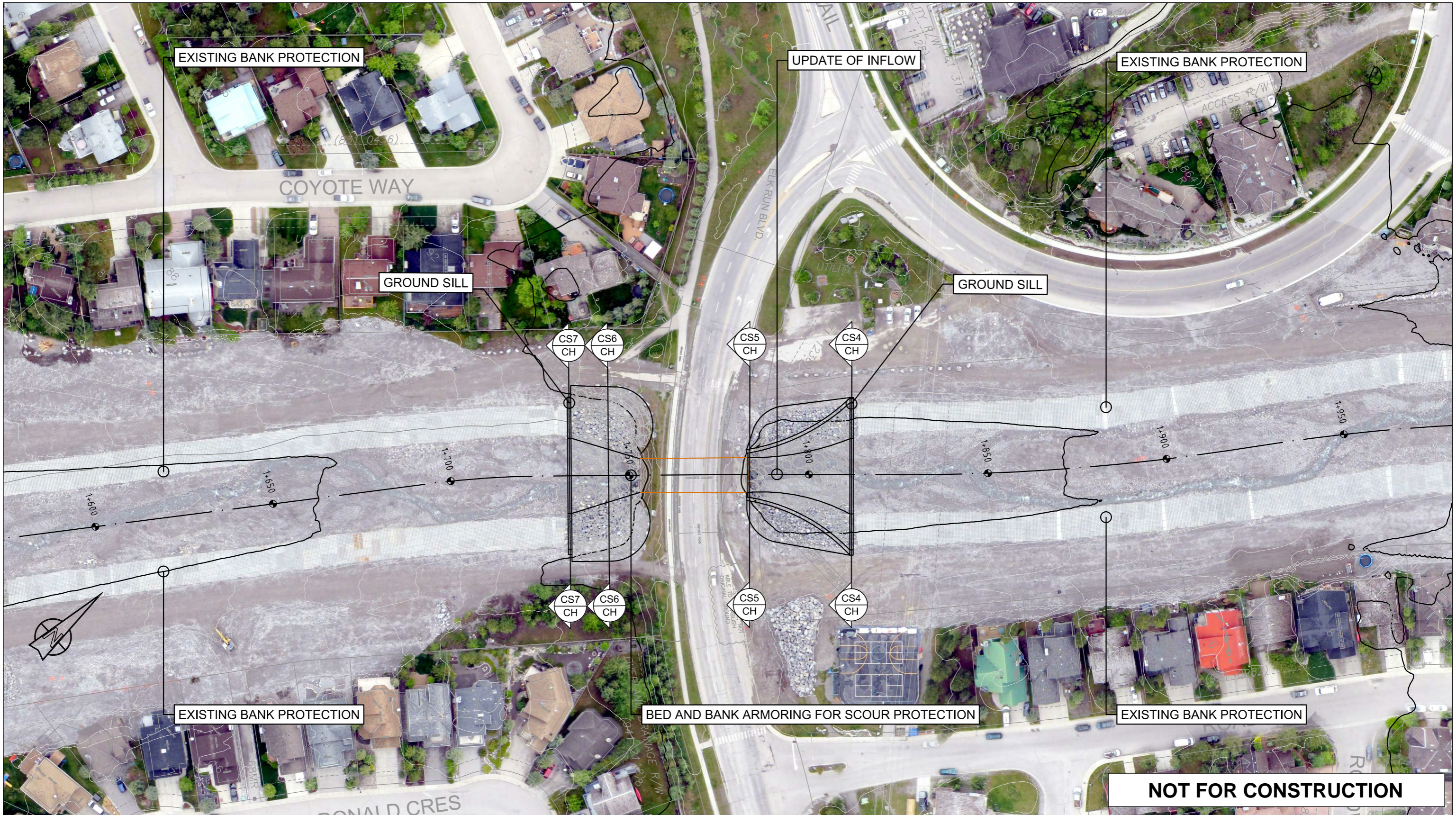


CLIENT: **Town of CANMORE**

ENGINEERING: **CANADIAN HYDROTECH CORPORATION**

PROJECT: UPDATE GRADE CONTROL COUGAR CREEK CHANNEL ISSUED FOR PERMIT		
CONTENT: CROSS SECTION <b>CROSS SECTION - CS3</b> <b>CHAINAGE 2+154.95</b>		
PROJECT No.: 16494	DRAWING No.: LTMM CC-CHU-644 R00	REV: 00





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REV.	DATE	REVISION NOTES	DRAWN	REVIEW	APPROVED	SCALE:	1:1,000
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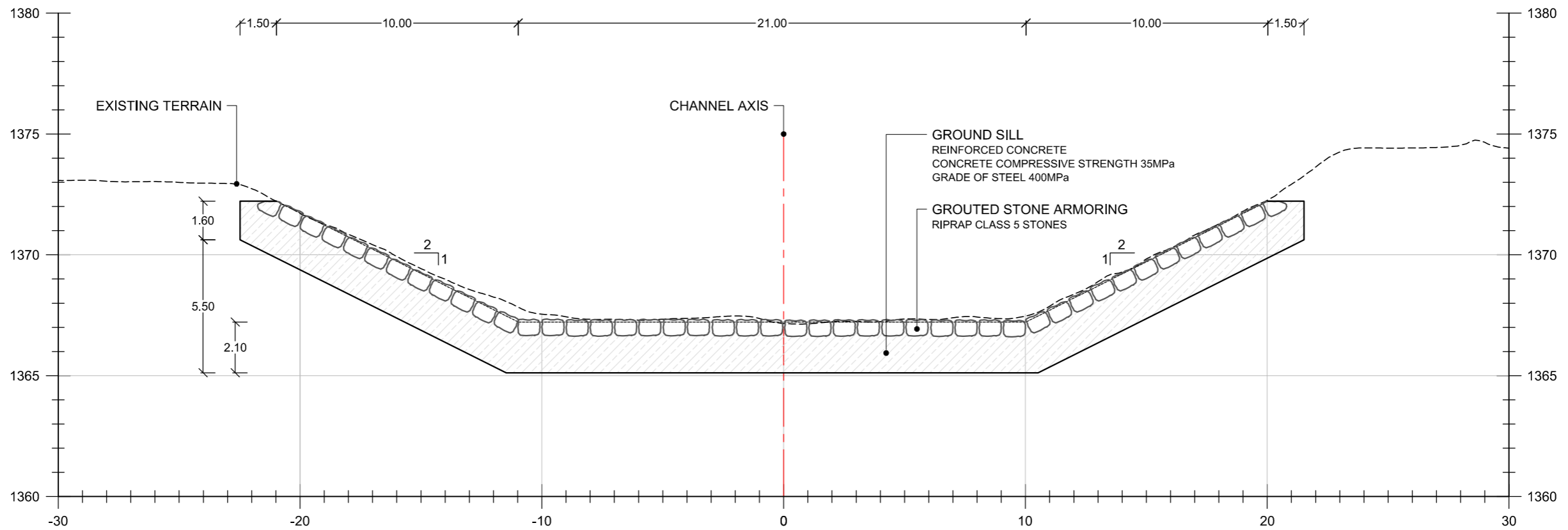
PROFESSIONAL SEAL:  
  
 Emad Iskander

CLIENT:  
  
 CANADIAN HYDROTECH CORPORATION

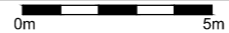
ENGINEERING:

PROJECT:	UPDATE GRADE CONTROL COUGAR CREEK CHANNEL ISSUED FOR PERMIT	
CONTENT:	SITE PLAN - ELK RUN BOULEVARD FROM CHAINAGE 1+600 TO 1+950	
PROJECT No.:	16494	DRAWING No.:
		LTMM CC-CHU-645 R00
REV:	00	





CS4 CROSS SECTION GROUND SILL - IMPROVEMENT OF INFLOW SITUATION AT ELK RUN BOULEVARD  
 CH KM 1+811.93



1:200

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REVIEW:	MSc
APPROVED:	EIs

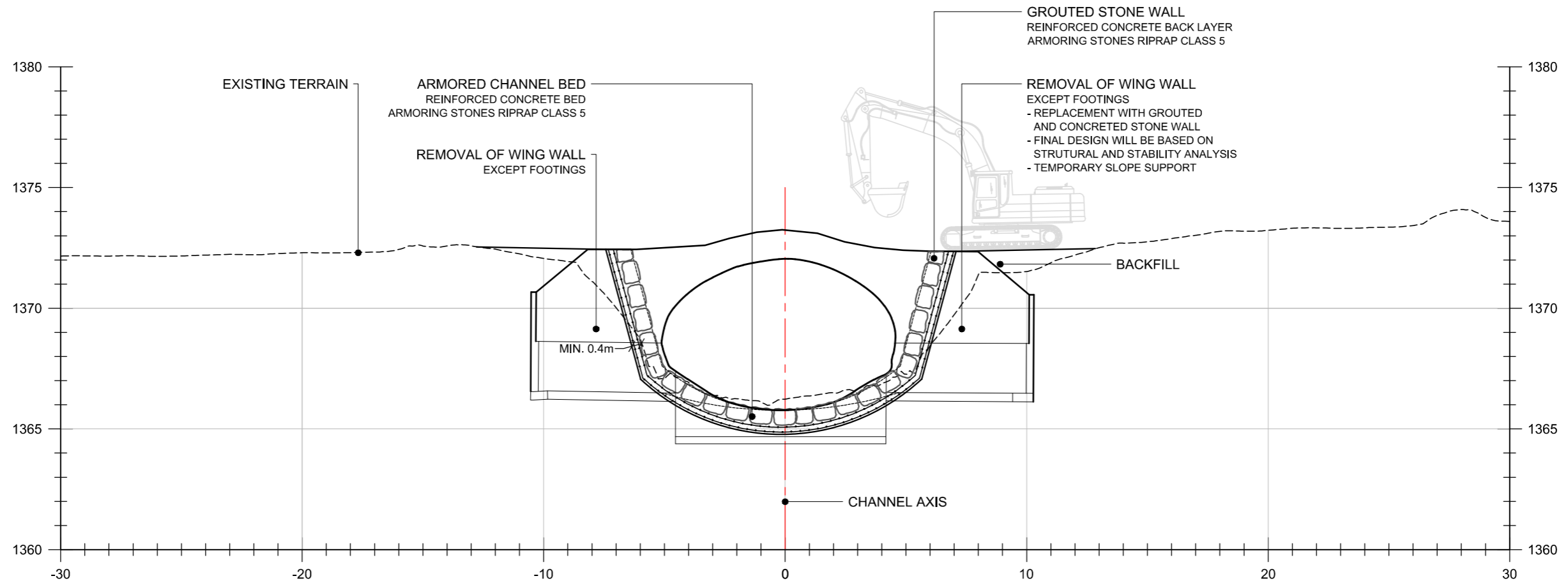


CLIENT:  **Town of CANMORE**

ENGINEERING: **CANADIAN HYDROTECH CORPORATION**

PROJECT: UPDATE GRADE CONTROL COUGAR CREEK CHANNEL ISSUED FOR PERMIT		
CONTENT: CROSS SECTION <b>CROSS SECTION - CS4 CHAINAGE 1+811.93</b>		
PROJECT No.: 16494	DRAWING No.: LTMM CC-CHU-646 R00	REV: 00





CS5 CROSS SECTION DIVERTING STRUCTURE - IMPROVEMENT OF INFLOW SITUATION AT ELK RUN BOULEVARD  
 CH KM 1+783.48 0m 5m 1:200

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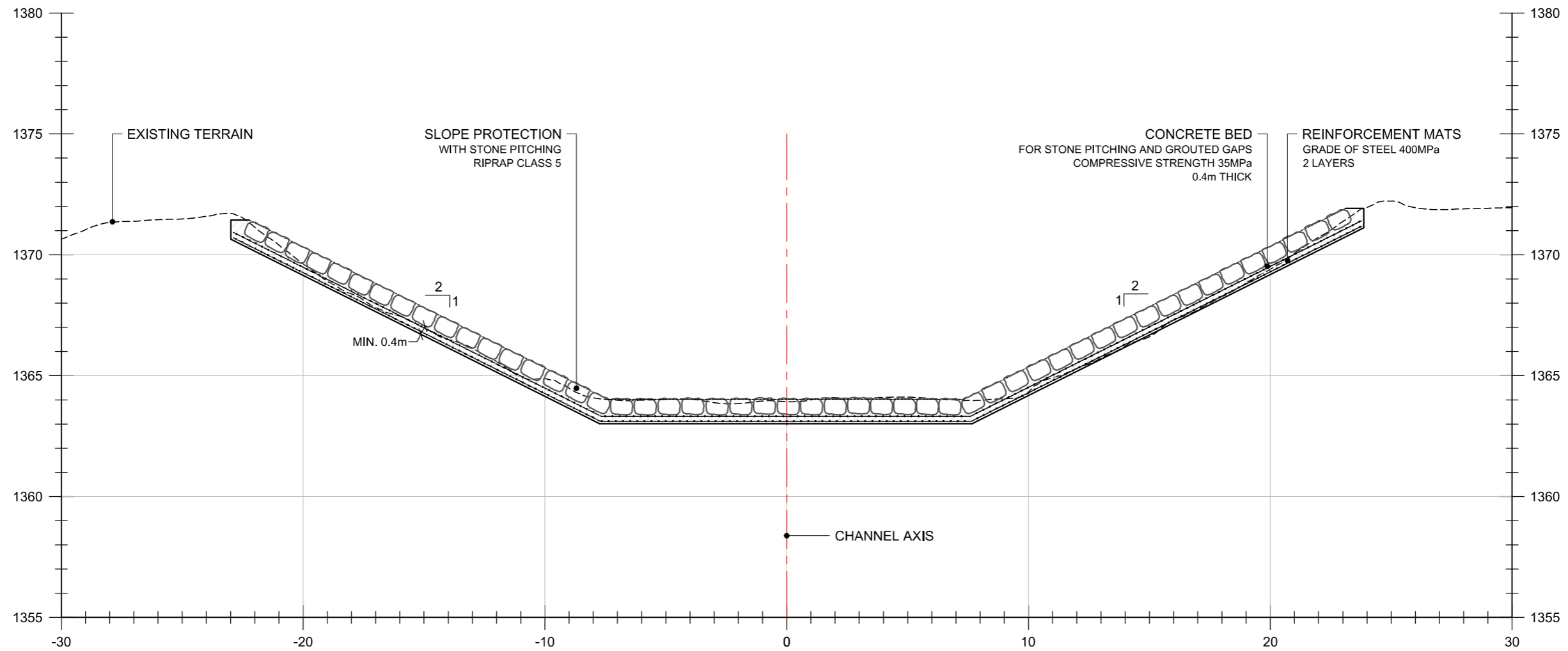
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						REVIEW:	MSc
						APPROVED:	EIs

PROFESSIONAL SEAL:  
  
 EMAD ISKANDER  
 04/13/2016  
 13446  
 Emad Iskander

CLIENT:  
  
 CANADIAN HYDROTECH CORPORATION

PROJECT:	UPDATE GRADE CONTROL COUGAR CREEK CHANNEL ISSUED FOR PERMIT	
CONTENT:	CROSS SECTION <b>CROSS SECTION - CS5</b> <b>CHAINAGE 1+783.48</b>	
PROJECT No.:	16494	DRAWING No.:
		LTMM CC-CHU-647 R00
REV:	00	





CS6 CROSS SECTION EMBANKMENT PROTECTION  
 CH KM 1+744.09 0m 5m 1:200

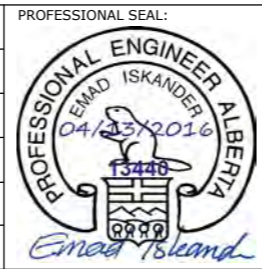
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REV.	DATE	REVISION NOTES	DRAWN	REVIEW	APPROVED

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DATE:	2016/04/13
DRAWING:	ALe
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APPROVED:	EIs

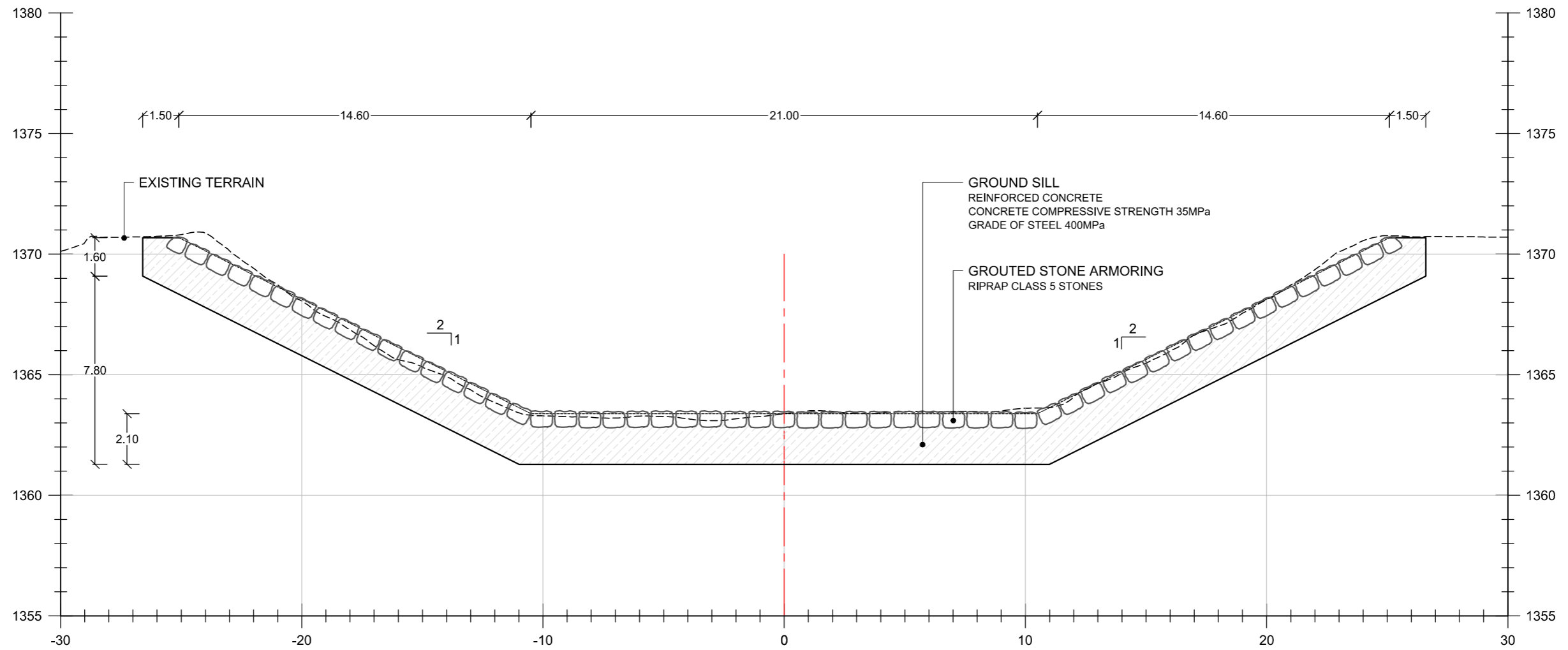


CLIENT:  CANMORE

ENGINEERING: **CANADIAN HYDROTECH CORPORATION**

PROJECT: UPDATE GRADE CONTROL COUGAR CREEK CHANNEL ISSUED FOR PERMIT		
CONTENT: CROSS SECTION <b>CROSS SECTION - CS6</b> <b>CHAINAGE 1+744.09</b>		
PROJECT No.: 16494	DRAWING No.: LTMM CC-CHU-648 R00	REV: 00





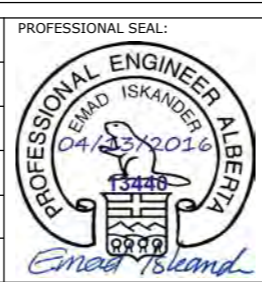
CS7 CROSS SECTION GROUND SILL  
 CH KM 1+733.21 0m 5m 1:200

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REV.	DATE	REVISION NOTES	DRAWN	REVIEW	APPROVED

SCALE:	1:200
DATE:	2016/04/13
DRAWING:	ALe
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REVIEW:	MSc
APPROVED:	EIs

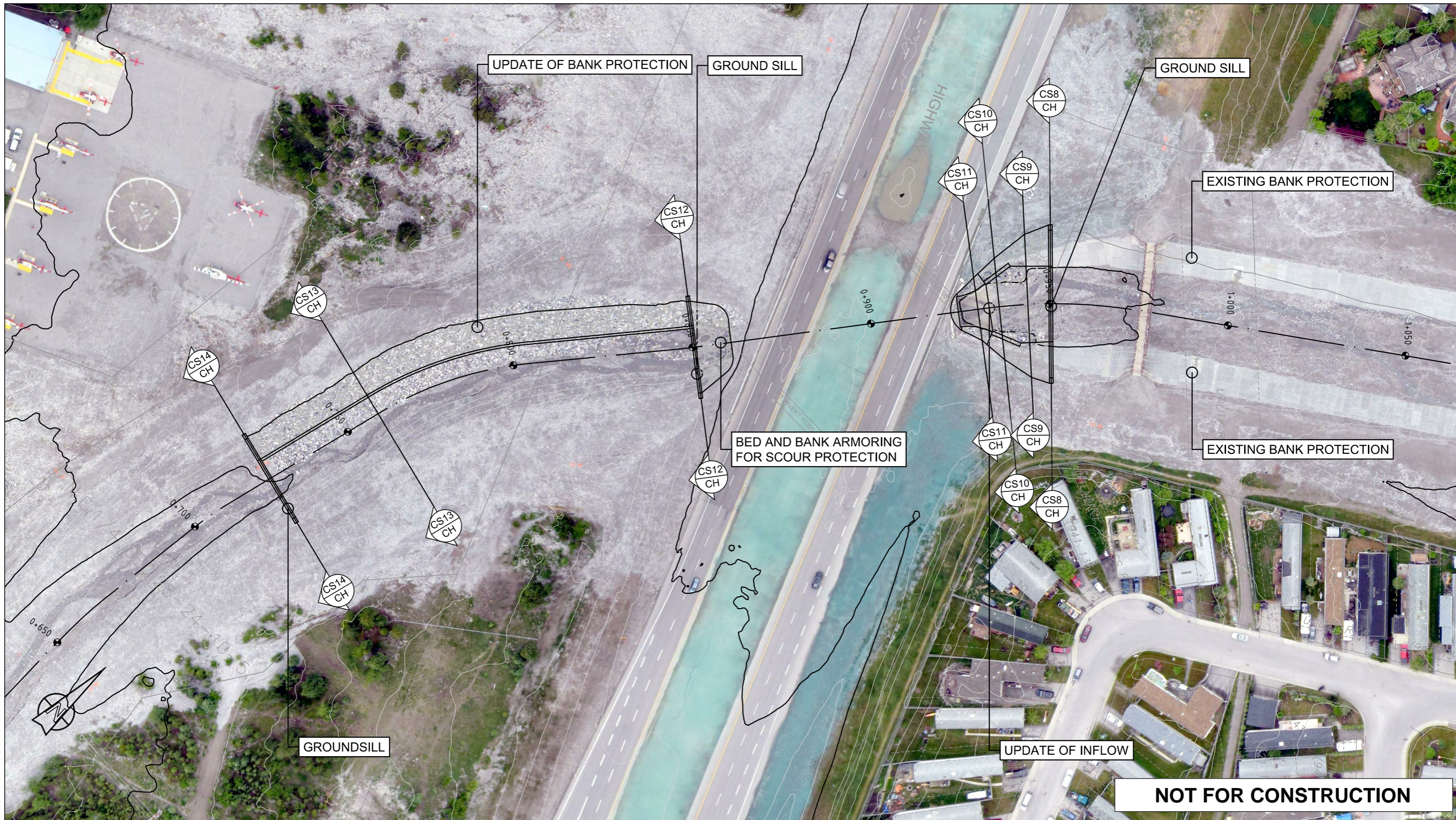


CLIENT: **Town of CANMORE**

ENGINEERING: **CANADIAN HYDROTECH CORPORATION**

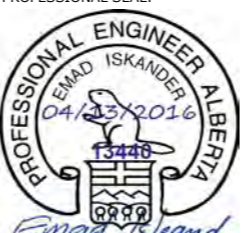

PROJECT: UPDATE GRADE CONTROL COUGAR CREEK CHANNEL ISSUED FOR PERMIT		
CONTENT: CROSS SECTION <b>CROSS SECTION - CS7 CHAINAGE 1+733.21</b>		
PROJECT No.: 16494	DRAWING No.: LTMM CC-CHU-649 R00	REV: 00



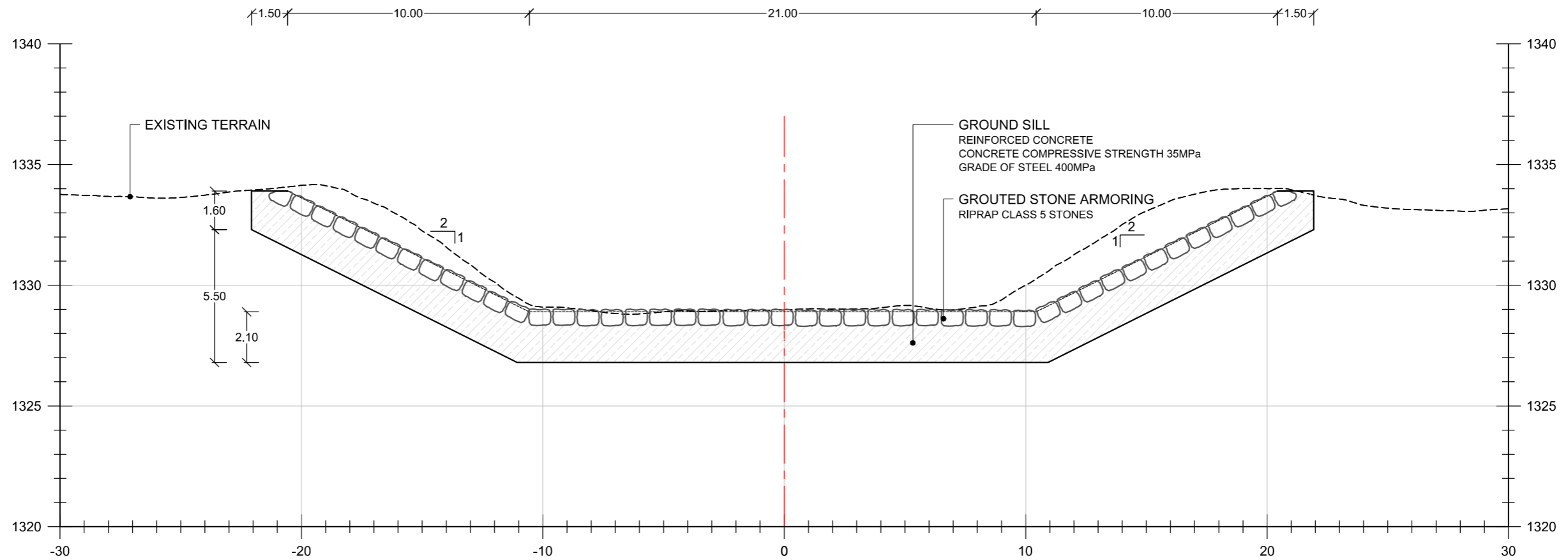


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SCALE: 1:1,000 DATE: 2016/04/13 DRAWING: ALe DESIGN: MSc/ALe REVIEW: MSc APPROVED: EIs					PROFESSIONAL SEAL: 		CLIENT:  <b>Town of CANMORE</b>		PROJECT: UPDATE GRADE CONTROL COUGAR CREEK CHANNEL ISSUED FOR PERMIT		
CANADIAN HYDROTECH CORPORATION					ENGINEERING: <b>CANADIAN HYDROTECH CORPORATION</b>		CONTENT: PLAN VIEW <b>SITE PLAN - HIGHWAY1          FROM CHAINAGE 0+650 TO 1+050</b>		PROJECT No.: 16494 DRAWING No.: LTMM CC-CHU-650 R00 REV: 00		
REV.	DATE	REVISION NOTES	DRAWN	REVIEW	APPROVED						





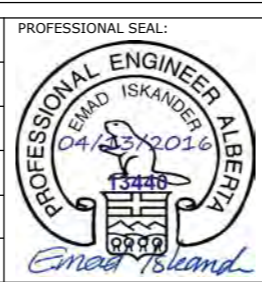
CS8 CROSS SECTION GROUND SILL  
 CH KM 0+950.00 0m 5m 1:200

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REV.	DATE	REVISION NOTES	DRAWN	REVIEW	APPROVED

SCALE:	1:200
DATE:	2016/04/13
DRAWING:	ALe
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REVIEW:	MSc
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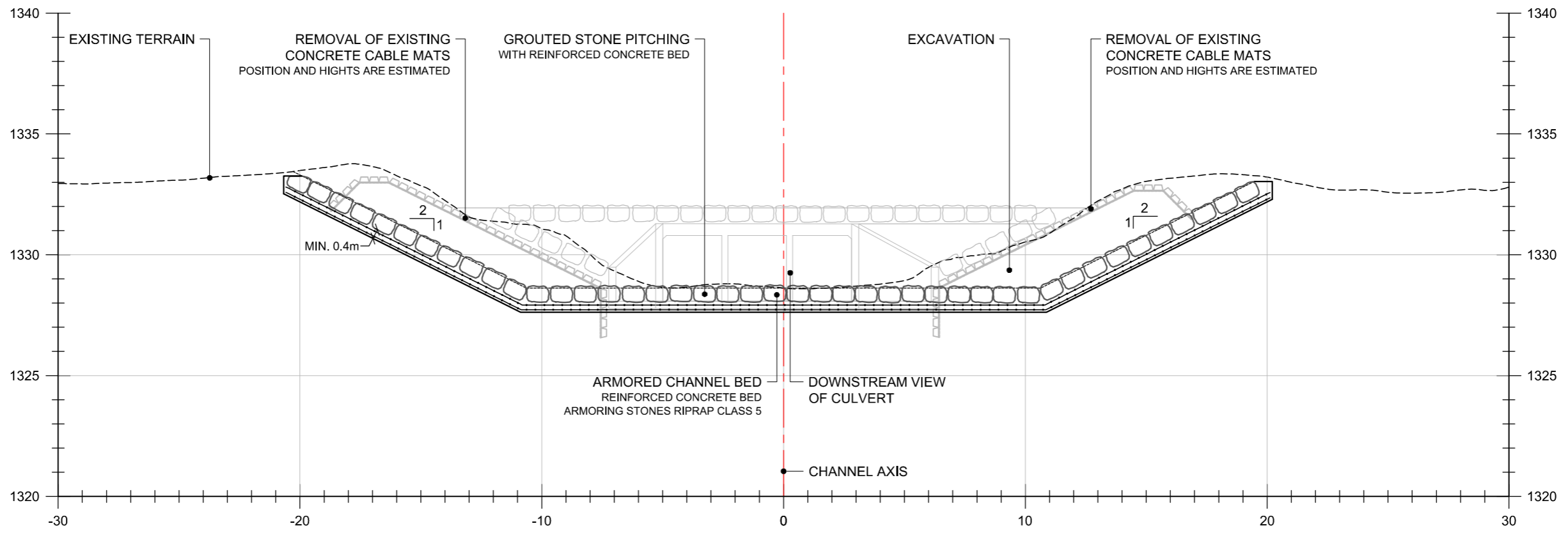


CLIENT: **Town of CANMORE**

ENGINEERING: **CANADIAN HYDROTECH CORPORATION**

PROJECT: UPDATE GRADE CONTROL COUGAR CREEK CHANNEL ISSUED FOR PERMIT		
CONTENT: CROSS SECTION <b>CROSS SECTION - CS8 CHAINAGE 0+950.00</b>		
PROJECT No.: 16494	DRAWING No.: LTMM CC-CHU-651 R00	REV: 00





CS9 CROSS SECTION EMBANKMENT PROTECTION - IMPROVEMENT OF INFLOW SITUATION AT HIGHWAY 1  
 CH KM 0+943.96 0m 5m 1:200

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REV.	DATE	REVISION NOTES	DRAWN	REVIEW	APPROVED

SCALE: 1:200  
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 DESIGN: MSc/ALe  
 REVIEW: MSc  
 APPROVED: EIs

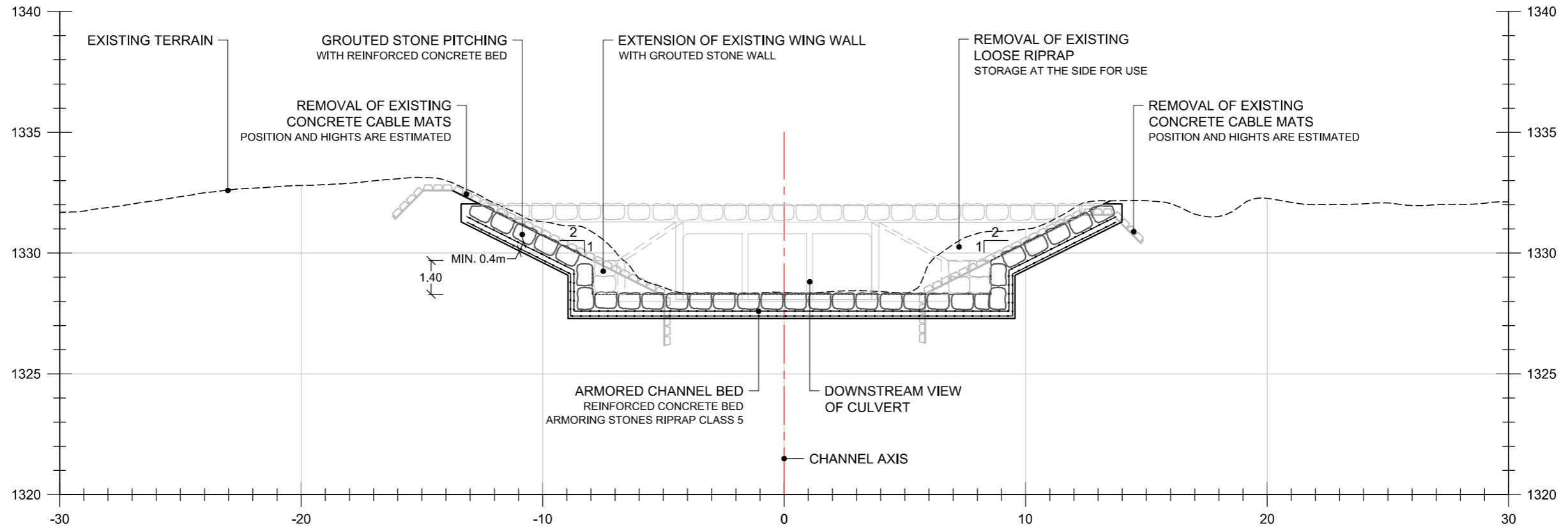


CLIENT: **Town of CANMORE**

ENGINEERING: **CANADIAN HYDROTECH CORPORATION**

PROJECT:	UPDATE GRADE CONTROL COUGAR CREEK CHANNEL ISSUED FOR PERMIT		
CONTENT:	CROSS SECTION <b>CROSS SECTION - CS9</b> <b>CHAINAGE 0+943.96</b>		
PROJECT No.:	16494	DRAWING No.:	LTMM CC-CHU-652 R00
REV:	00		





CS10 CROSS SECTION EMBANKMENT PROTECTION - IMPROVEMENT OF INFLOW SITUATION AT HIGHWAY 1  
 CH KM 0+935.96 0m 5m 1:200

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REV.	DATE	REVISION NOTES	DRAWN	REVIEW	APPROVED

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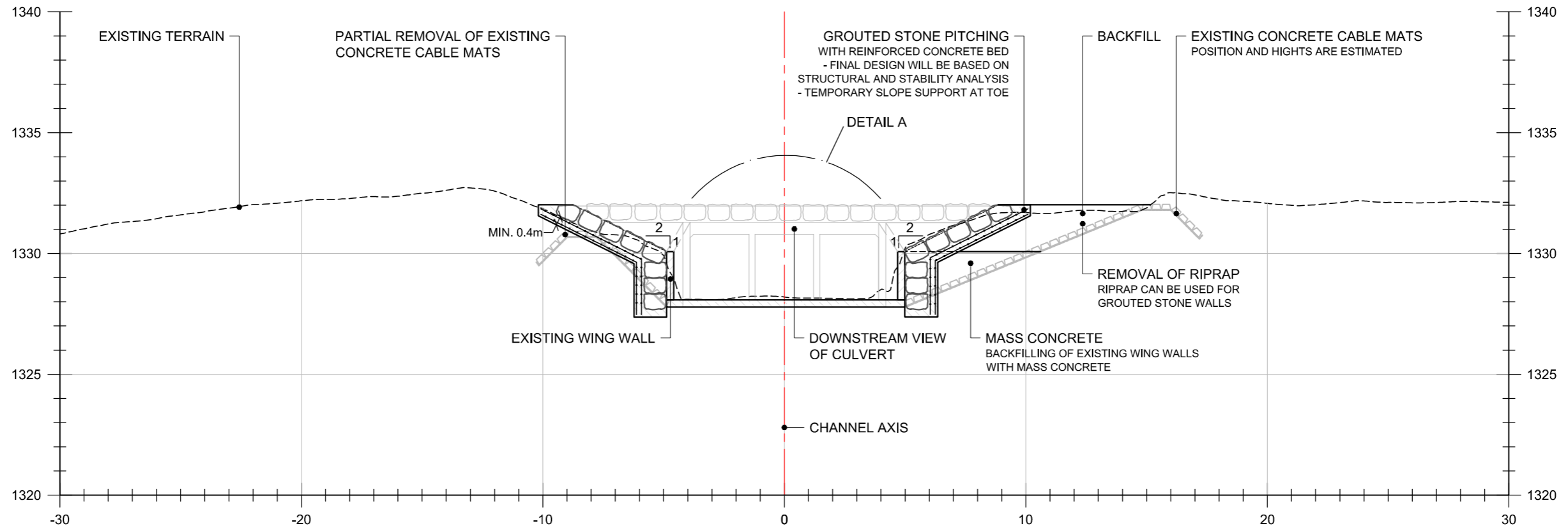


CLIENT: **Town of CANMORE**

ENGINEERING: **CANADIAN HYDROTECH CORPORATION**

PROJECT: UPDATE GRADE CONTROL COUGAR CREEK CHANNEL ISSUED FOR PERMIT		
CONTENT: CROSS SECTION <b>CROSS SECTION - CS10</b> <b>CHAINAGE 0+935.96</b>		
PROJECT No.:	DRAWING No.:	REV:
16494	LTMM CC-CHU-653 R00	00





CS11 CROSS SECTION EMBANKMENT PROTECTION - IMPROVEMENT OF INFLOW SITUATION AT HIGHWAY 1  
 CH KM 0+930.00 0m 5m 1:200

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REV.	DATE	REVISION NOTES	DRAWN	REVIEW	APPROVED

SCALE:	1:200
DATE:	2016/04/13
DRAWING:	ALe
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REVIEW:	MSc
APPROVED:	EIs



CLIENT:

ENGINEERING:

**CANADIAN HYDROTECH CORPORATION**

PROJECT: UPDATE GRADE CONTROL COUGAR CREEK CHANNEL ISSUED FOR PERMIT		
CONTENT: CROSS SECTION <b>CROSS SECTION - CS11</b> <b>CHAINAGE 0+930.00</b>		
PROJECT No.: 16494	DRAWING No.: LTMM CC-CHU-654 R00	REV: 00

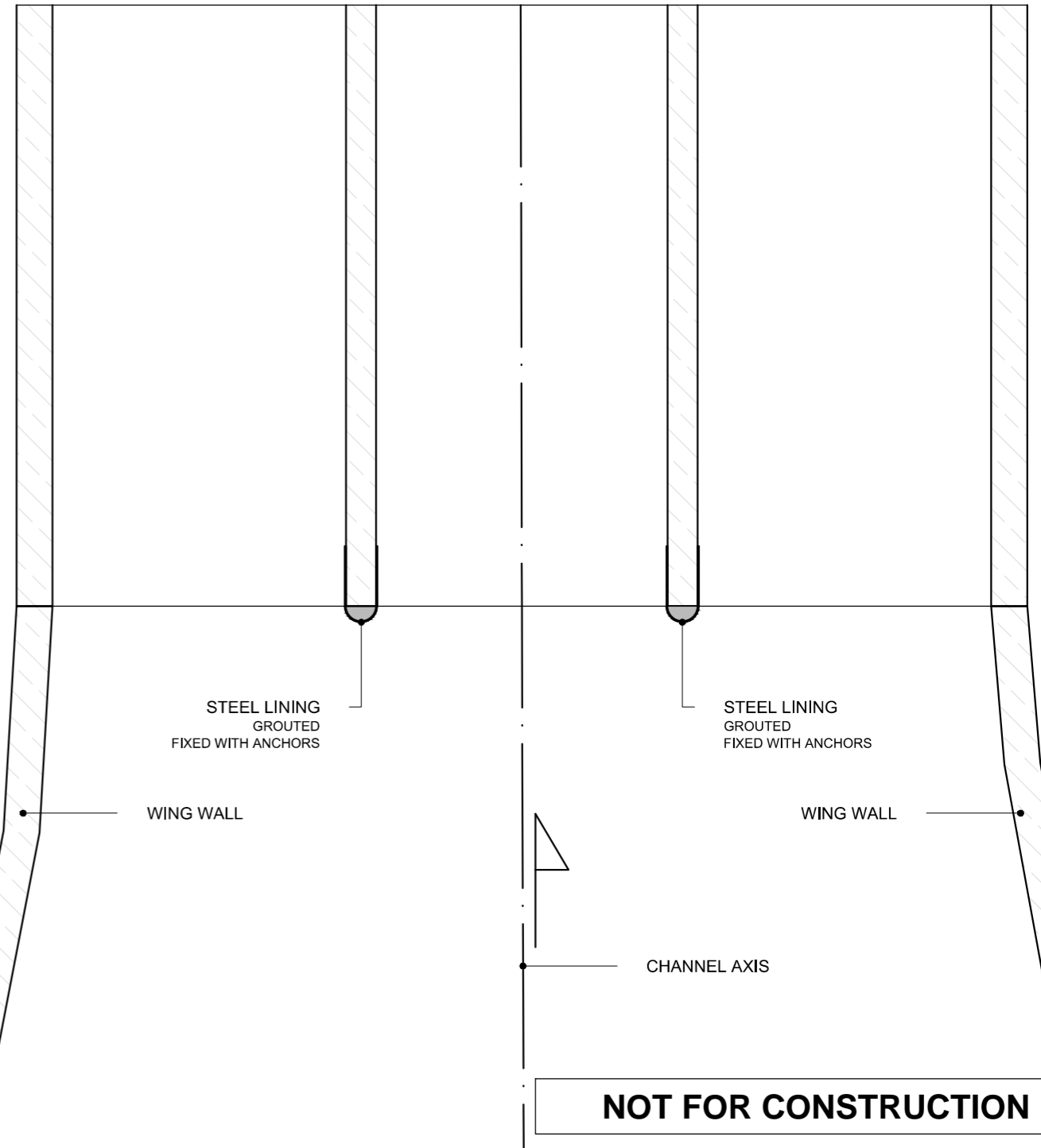
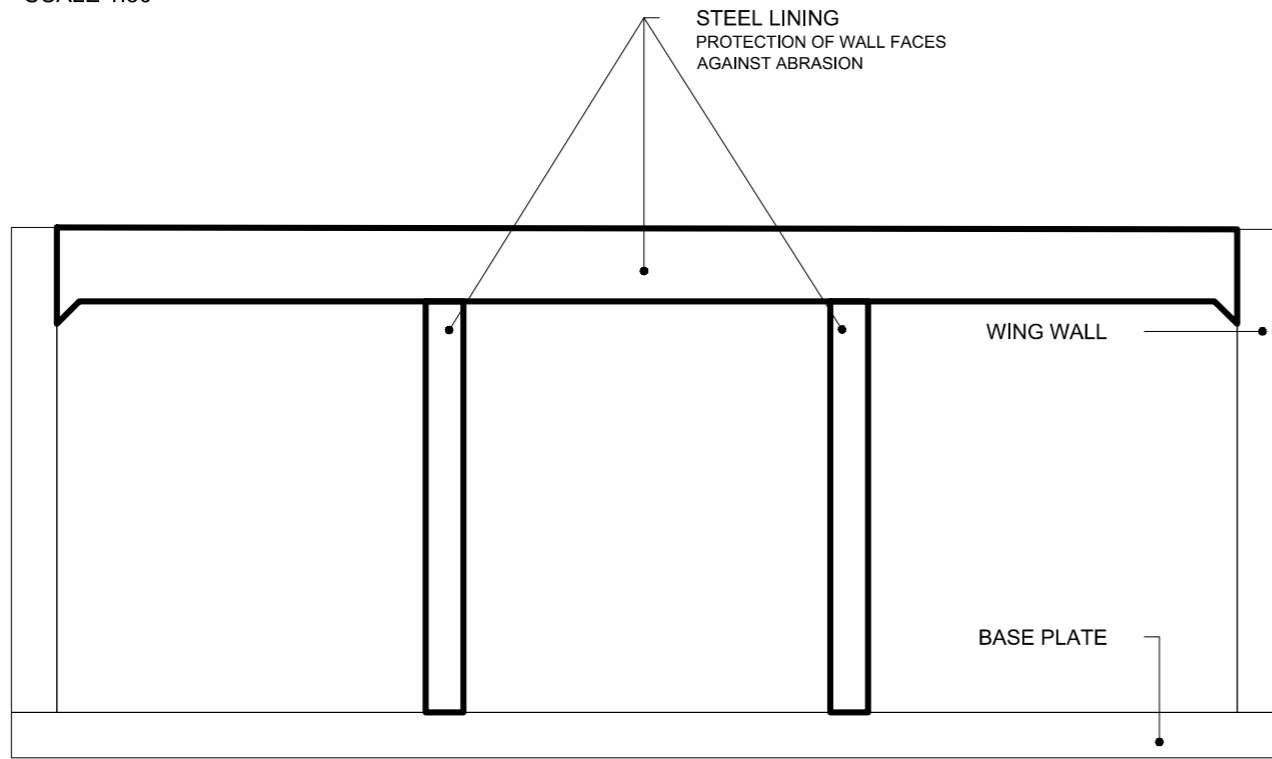


**DETAIL A - PLAN VIEW**

SCALE 1:50

**DETAIL A - DOWNSTREAM VIEW**

SCALE 1:50



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REV.	DATE	REVISION NOTES	DRAWN	REVIEW	APPROVED	SCALE:	1:50
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CLIENT:

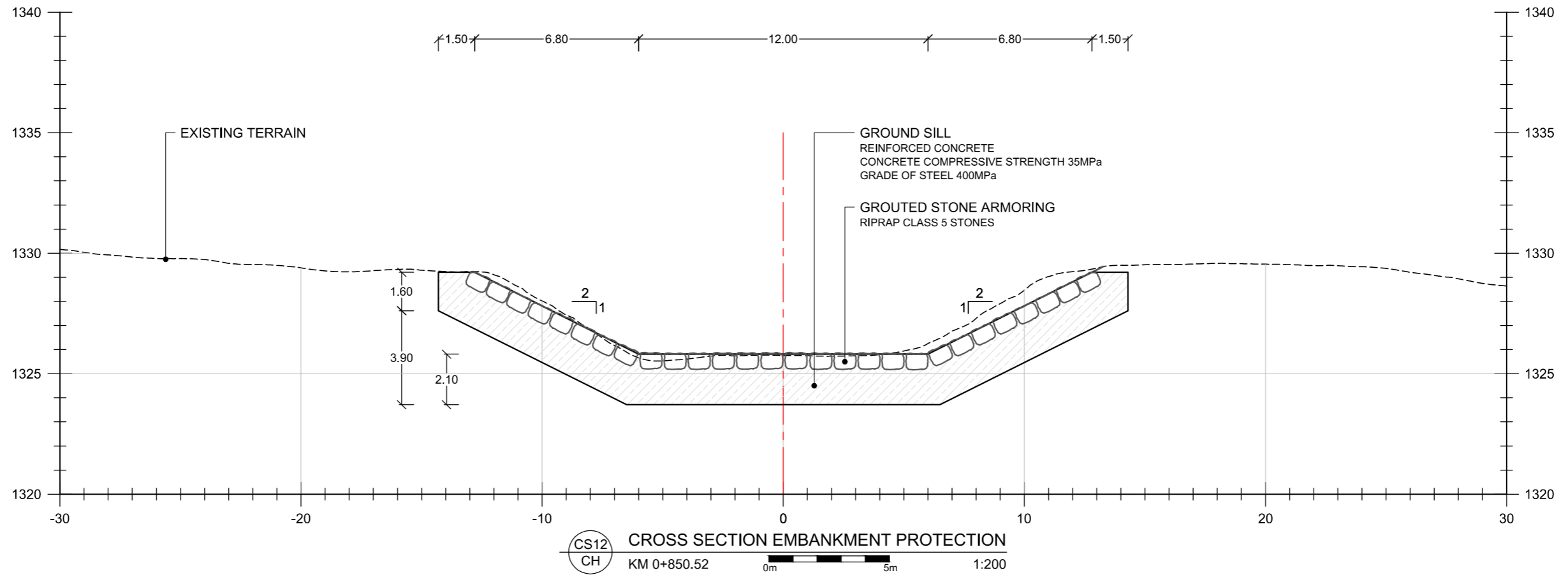
Town of  
**CANMORE**

ENGINEERING:

**CANADIAN HYDROTECH CORPORATION**

PROJECT:	UPDATE GRADE CONTROL COUGAR CREEK CHANNEL ISSUED FOR PERMIT	
CONTENT:	DETAIL <b>DETAIL A</b> IMPROVEMENT OF INFLOW SITUATION AT HIGHWAY	
PROJECT No.:	16494	DRAWING No.:
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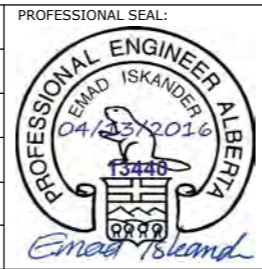
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REV.	DATE	REVISION NOTES	DRAWN	REVIEW	APPROVED

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DATE:	2016/04/13
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REVIEW:	MSc
APPROVED:	EIs



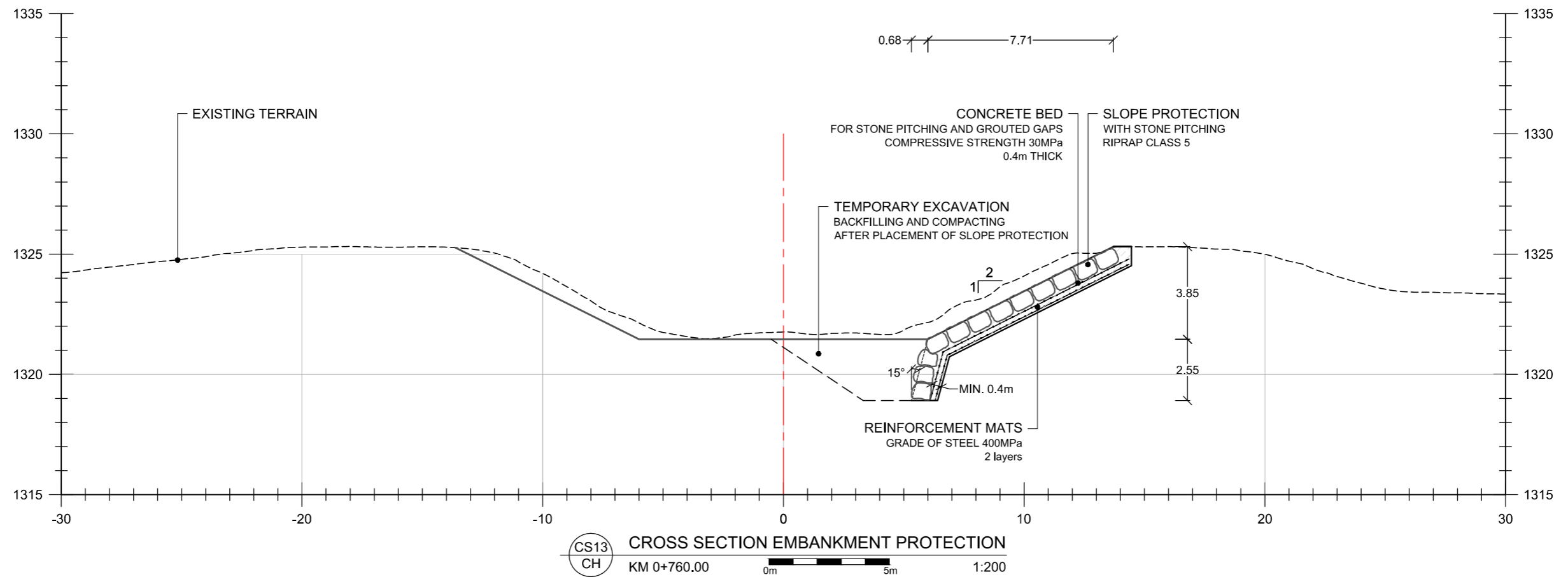
CLIENT:

ENGINEERING:

**CANADIAN HYDROTECH CORPORATION**

PROJECT: UPDATE GRADE CONTROL COUGAR CREEK CHANNEL ISSUED FOR PERMIT		
CONTENT: CROSS SECTION <b>CROSS SECTION - CS12</b> <b>CHAINAGE 0+850.52</b>		
PROJECT No.: 16494	DRAWING No.: LTMM CC-CHU-656 R00	REV: 00



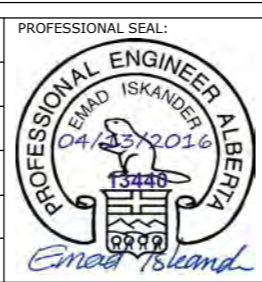


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 DRAWING: ALe  
 DESIGN: MSc/ALe  
 REVIEW: MSc  
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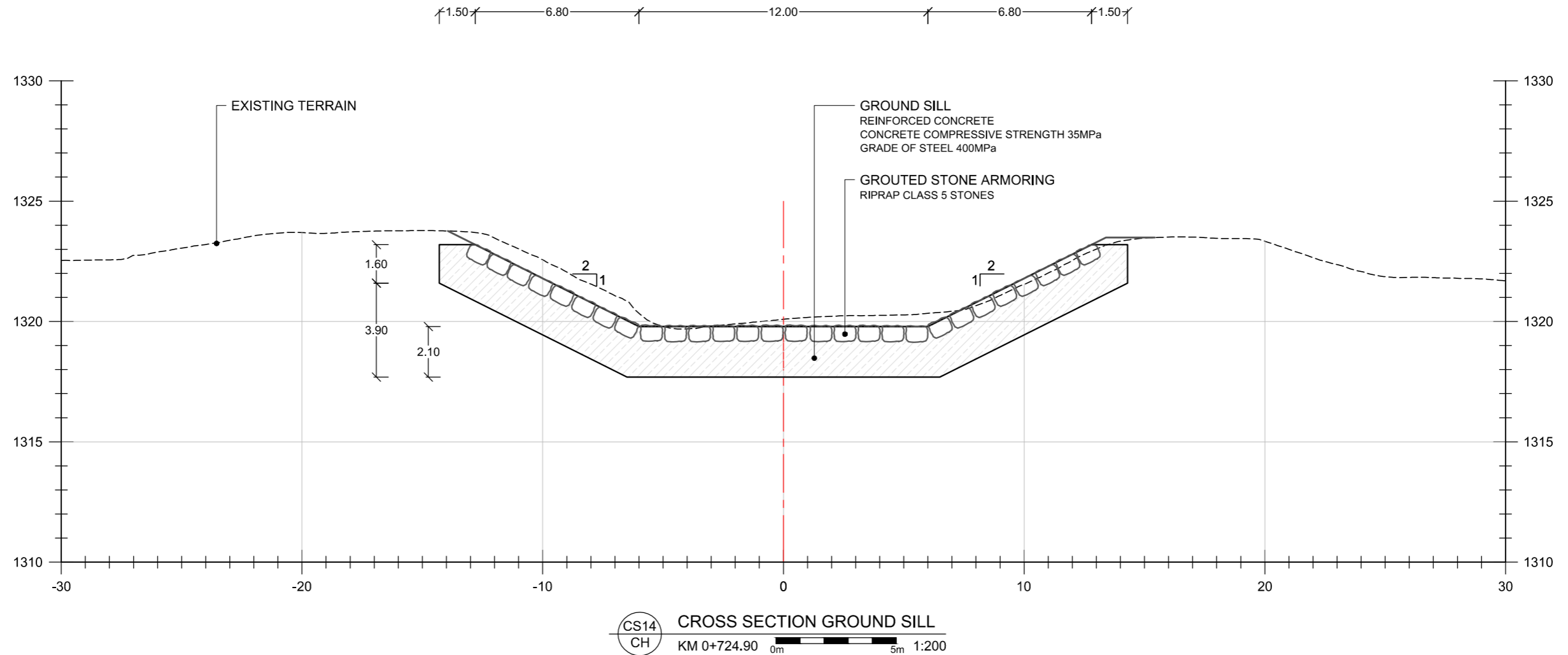
CLIENT: **Town of CANMORE**

ENGINEERING: **CANADIAN HYDROTECH CORPORATION**

PROJECT: UPDATE GRADE CONTROL COUGAR CREEK CHANNEL ISSUED FOR PERMIT		
CONTENT: CROSS SECTION <b>CROSS SECTION - CS13 CHAINAGE 0+760.00</b>		
PROJECT No.: 16494	DRAWING No.: LTMM CC-CHU-657 R00	REV: 00



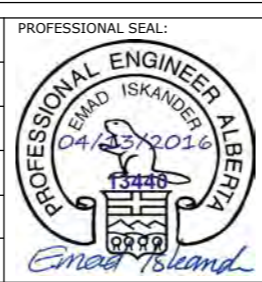
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REV.	DATE	REVISION NOTES	DRAWN	REVIEW	APPROVED

SCALE: 1:200  
 DATE: 2016/04/13  
 DRAWING: ALe  
 DESIGN: MSc/ALe  
 REVIEW: MSc  
 APPROVED: EIs



CLIENT: **Town of CANMORE**  
 ENGINEERING: **CANADIAN HYDROTECH CORPORATION**

PROJECT: UPDATE GRADE CONTROL COUGAR CREEK CHANNEL ISSUED FOR PERMIT		
CONTENT: CROSS SECTION <b>CROSS SECTION - CS14</b> <b>CHAINAGE 0+724.90</b>		
PROJECT No.: 16494	DRAWING No.: LTMM CC-CHU-658 R00	REV: 00

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