Southern Alberta Flood Recovery Task Force Flood Mitigation Measures for the Bow, Elbow and Oldman River Basins Volume 4 - Flood Mitigation Measures – Final June 2014

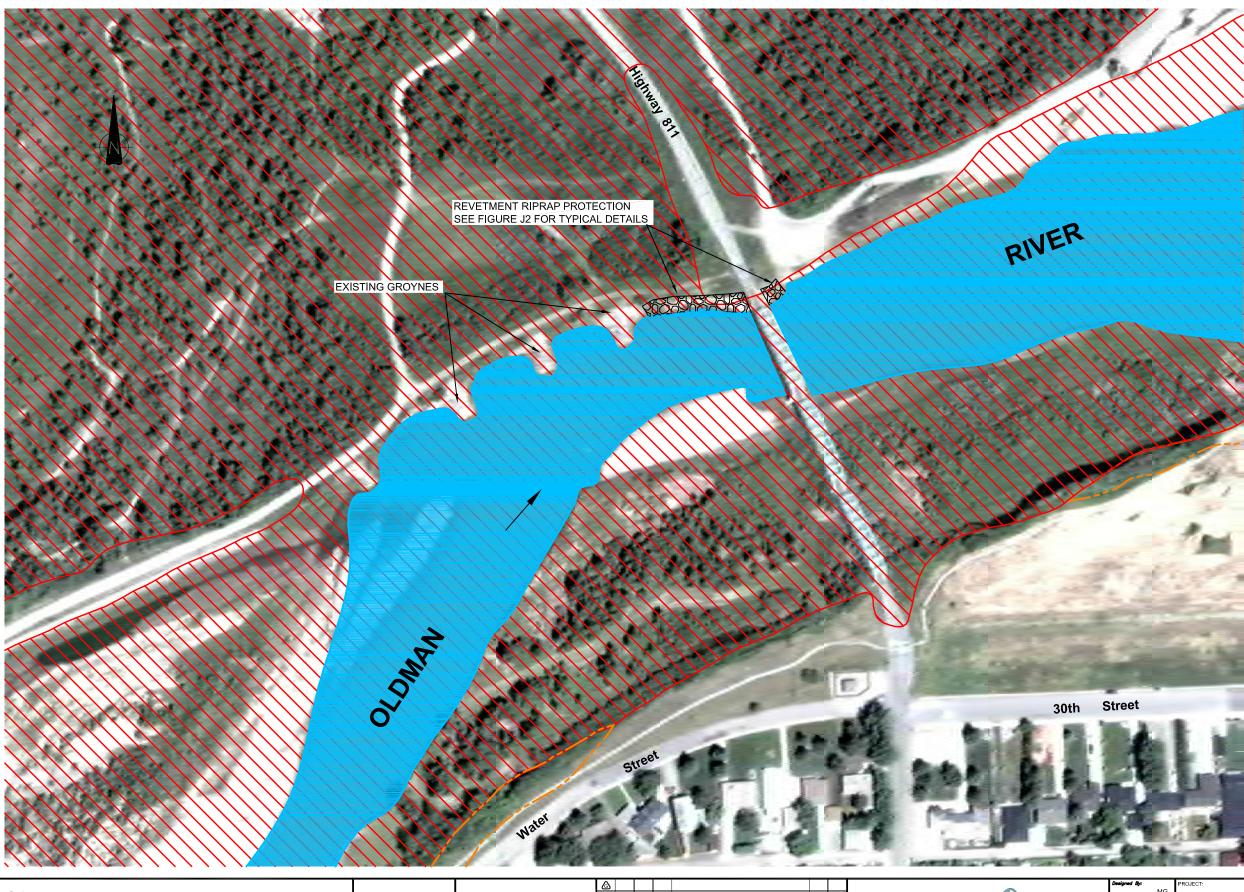


Appendix J

Conceptual Design of Mitigation Measures at Fort MacLeod

Conceptual Cost Estimate Fort Mcleod Flood Defence

Item No.	Item Description	Unit	Quantity	Unit Price	Extension
	ALLOWANCES				
1	Bigger Size Riprap	Allow.	Allowance		\$35,000
	TEMPORARY FACILITIES				
2	Mobilization and Demobilization	L.S.	1	Lump Sum	\$25,000
	SITE PREPARATION				
3	Care of Water	L.S.	1	Lump Sum	\$15,000
	GRANULAR AND RIPRAP MATERIALS				
4	Riprap Zone 6C	tonnes	1414.40	\$150.00	\$212,160
5	Gravel Armour Zone 5C	tonnes	404.00	\$40.00	\$16,160
6	Non-Woven Geotextile	m²	878.00	\$3.00	\$2,634
	SUBTOTAL				\$305,954
	CONTINGENCIES @ 25%				\$76,489
	ENGINEERING @ 12%				\$36,714
	ESTIMATED TOTAL COST				\$419,000



		6					Designed By:	PROJECT:
<u>Scale:</u> 1:1000							Drawn By:	<u></u>
						anct .	В	J
Meters						Client:	Checked By:	TITLE:
THIS DRAWING MAY HAVE BEEN REDUCED. ALL SCALE NOTATIONS INDICATED (i.e 1:1000 etc.)		C	05 2014	ISSUED FOR FINAL REPORT	H.M. G.G	4	Approved By:	<u></u>
ARE BASED ON 22" X 34" FORMAT DRAWINGS		A 17	03 2014	ISSUED FOR CLIENT REVIEW	H.M. G.G		Scale:	,
		REV D	M Y	ISSUE/REVISION DESCRIPTION	ENG. APP		AS SHOW	4
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LEGEND:







WATER BODY

FLOW DIRECTION

RIPRAP PROTECTION

FLOODWAY

– — FLOOD FRINGE

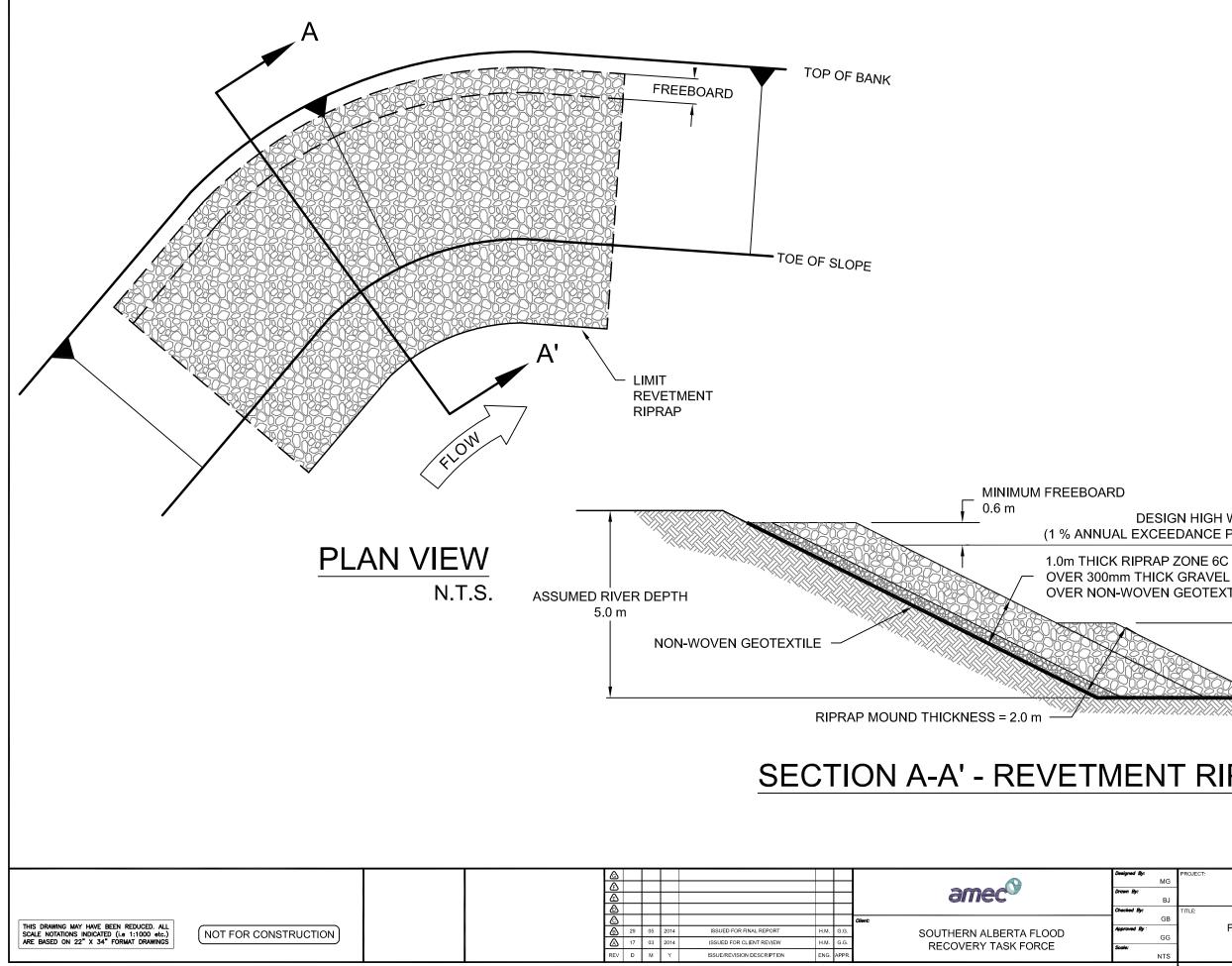
NOTES:

1. PROPOSED FLOOD DEFENCE TO CONTINUATION OF THE BRIDGE ABUTMENT CONSIDERED IN CONJUNCTION WITH AN OVERALL MORPHOLOGY OF RIVER ENGINEERING. REVIEW OF RIVER TRAINING AT THIS BRIDGE CROSSING SHALL BE STUDIED FOR FURTHER FLOOD PROTECTION.

FLOOD MITIGATION FEASIBILITY STUDY FOR BOW, ELBOW AND OLDMAN RIVER BASINS

FORT MACLEOD FLOOD DEFENCES CONCEPTUAL PLAN

Project No.: CW2174
CADD File: CW2174-FM01.dwg
Date: MAY 2014
Drawing No.:
FIGURE J1
Sheet No.:
1 of 2



	<u>RAP</u> N.T.S.	
MG PROJECT:	FLOOD MITIGATION FEASIBILITY STUDY FOR BOW, ELBOW AND	Project No.: CW2174
		CADD File:
BJ	OLDMAN RIVER BASINS	CW2174-FM01.dwg
	OLDMAN RIVER BASINS	
TITLE:	OLDMAN RIVER BASINS FORT MACLEOD FLOOD DEFENCES TYPICAL DETAILS	CW2174-FM01.dwg

OVER 300mm THICK GRAVEL ARMOUR ZONE 5C OVER NON-WOVEN GEOTEXTILE **RIPRAP MOUND HEIGHT** 2.0 m RIVER BED

DESIGN HIGH WATER LEVEL (1 % ANNUAL EXCEEDANCE PROBABILITY FLOOD EVENT)