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

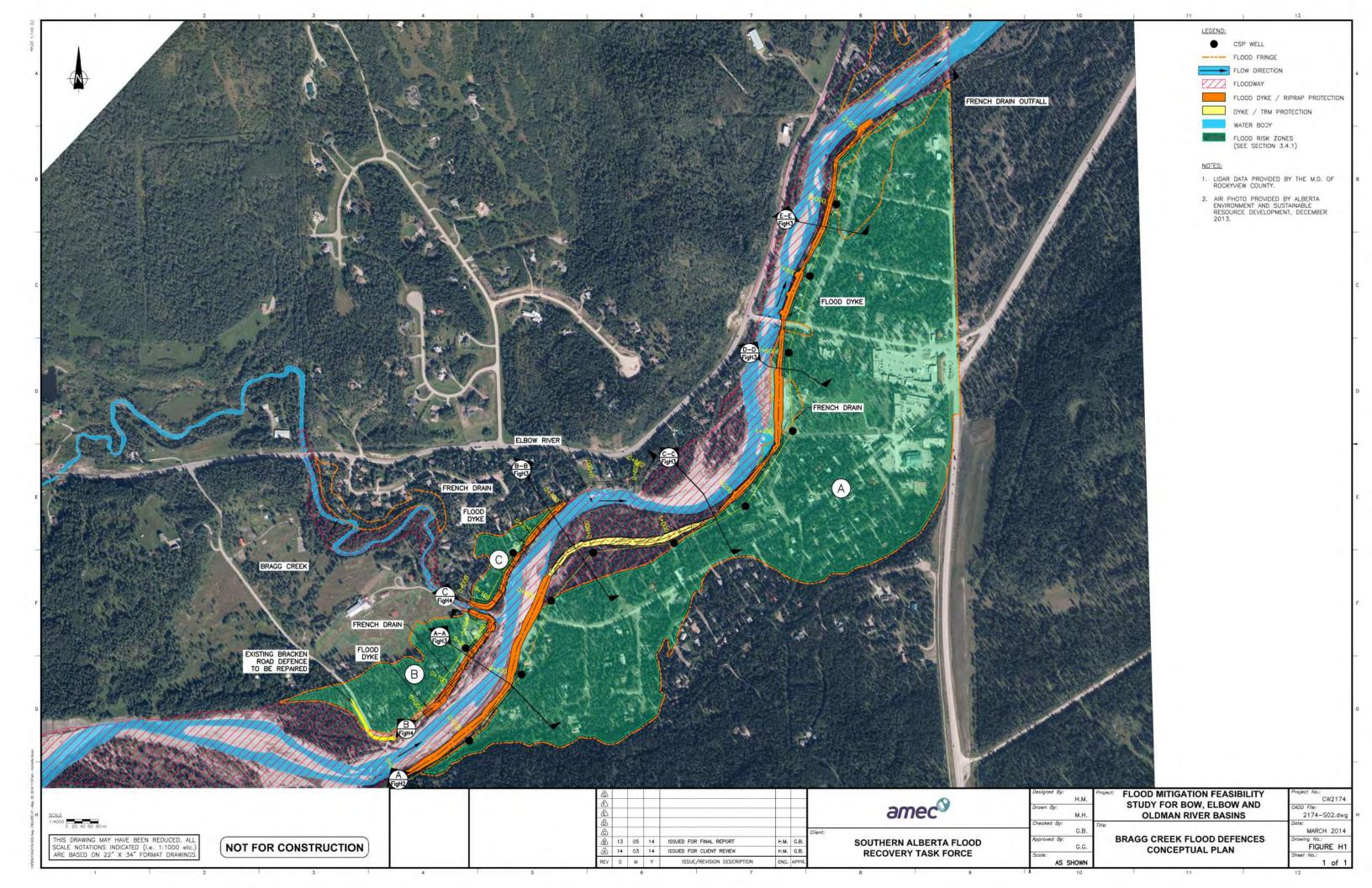


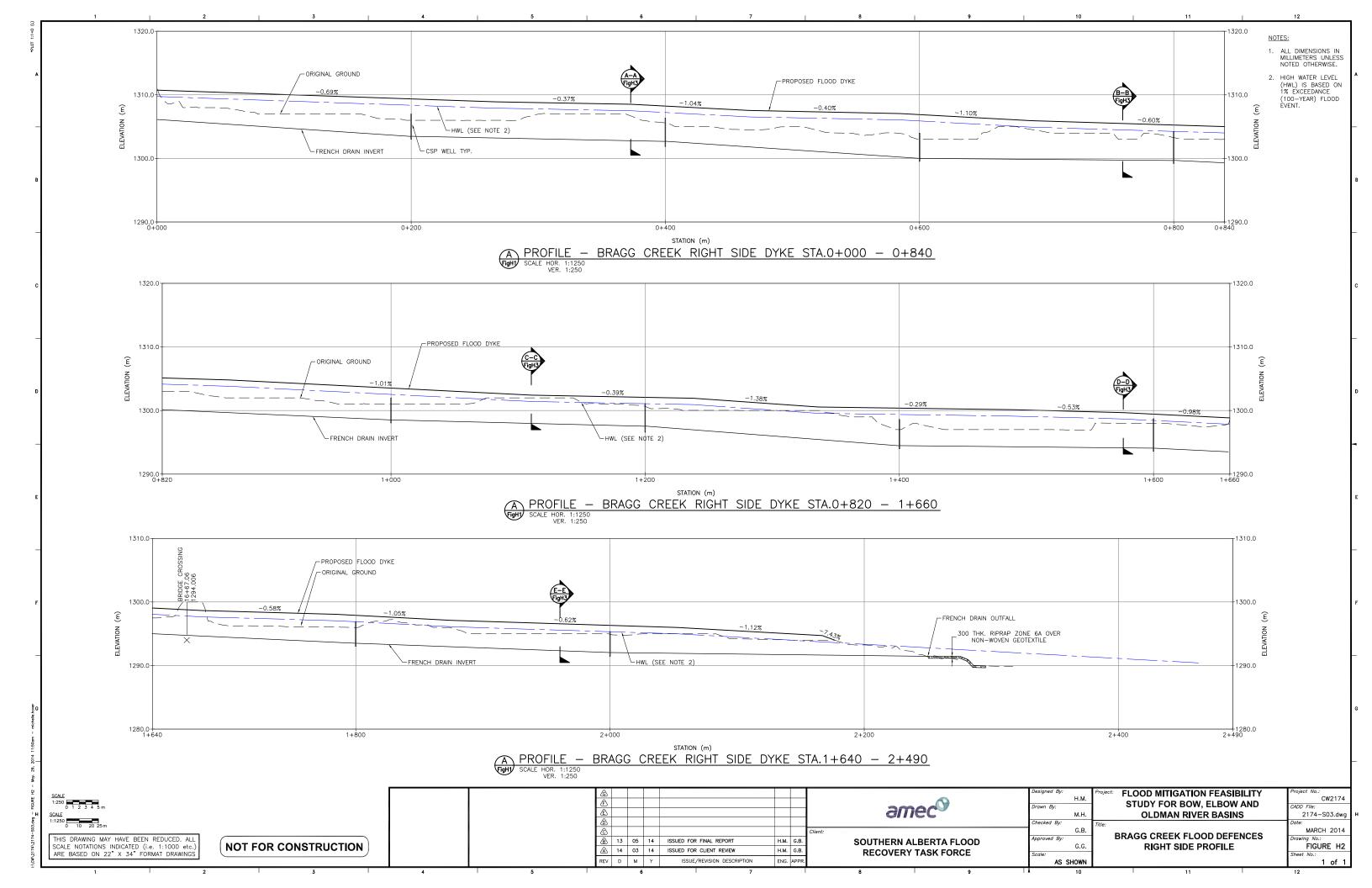
Appendix H

Conceptual Design of Flood Defences at Bragg Creek

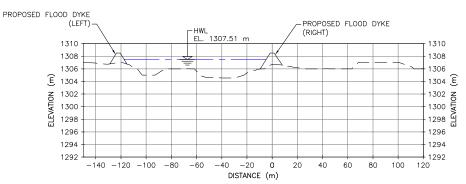
Conceptual Cost Estimate Bragg Creek Flood Defence Dykes & French Drain

Item No.	Item Description	Unit	Quantity	Unit Price	Extension
	ALLOWANCES				
1	Larger Riprap sizing	Allow.	Allowance		\$200,000
	TEMPORARY FACILITIES				
2	Mobilization and Demobilization	L.S.	1	Lump Sum	\$50,000
3	Existing and Temporary Roads	L.S.	1	Lump Sum	\$10,000
	SITE PREPARATION				
4	Clearing & Grubbing	ha	3	\$2,000.00	\$6,251
5	Topsoil & Subsoil Stripping	m³	11315	\$5.00	\$56,577
6	Care of Water	L.S.	1	Lump Sum	\$75,000
	EXCAVATION			·	
7	Common Excavation	m³	13820	\$6.50	\$89,831
	FILL PLACEMENT				
8	Low Permeable Fill	m³	56263	\$10.00	\$562,628
9	Common Fill	m³	9577	\$6.00	\$57,461
	GRANULAR AND RIPRAP MATERIALS				
10	Granular Drain Rock	tonnes	5456	\$35.00	\$190,966
11	Riprap Zone 6B	tonnes	14770	\$130.00	\$1,920,103
12	Riprap Zone 6A	tonnes	202	\$110.00	\$22,176
13	Gravel Armour	tonnes	9231	\$40.00	\$369,251
14	Non-Woven Geotextile	m²	15385	\$3.00	\$46,156
	SITE CONSTRUCTION				
15	600 Dia. Perforated HDPE Pipe	m	2947	\$120.00	\$353,606
16	CSP Well Supply and Installation	L.S.	12	\$15,000.00	\$180,000
	LANDSCAPING				
17	Topsoil & Subsoil Placement	m²	15390	\$1.50	\$23,084
18	Turf Reinforcement Mat	m²	30779	\$6.00	\$184,674
19	Hydroseeding	m²	30779	\$3.50	\$107,727
	SÚBTOTAL			·	\$4,505,490
	CONTINGENCIES @ 25%				\$1,126,373
	ENGINEERING @ 12%				\$540,659
	ESTIMATED TOTAL COST				\$6,173,000

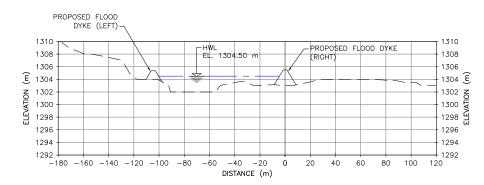




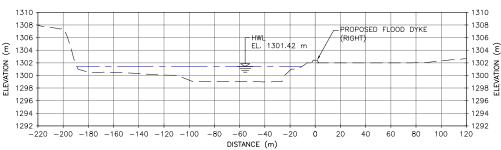
- 1. ALL DIMENSIONS IN MILLIMETERS UNLESS NOTED OTHERWISE.
- 2. HIGH WATER LEVEL (HWL) IS BASED ON 1% EXCEEDANCE (100-YEAR) FLOOD EVENT.
- 3. ALL SECTIONS LOOKING DOWNSTREAM.

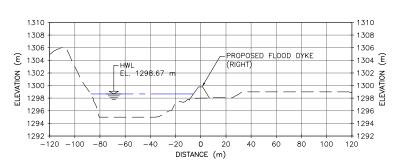


SECTION — BRAGG CREEK RIGHT SIDE DYKE SCALE HOR. 1:1500 VER. 1:300

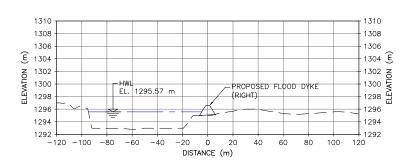


SECTION — BRAGG CREEK RIGHT SIDE DYKE SCALE HOR. 1:1500 VER. 1:300

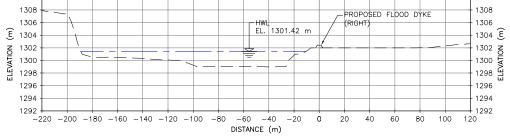




 $\underbrace{\text{SECTION} - \text{BRAGG CREEK RIGHT SIDE DYKE}}_{\text{FigH1}} \underbrace{\text{SCALE HOR. } 1:1500}_{\text{VER. } 1:300}$



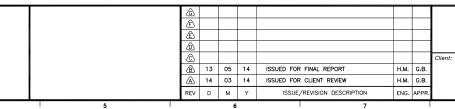
 $\underbrace{\text{FigH1}}_{\text{SCALE HOR. }1:1500} \underbrace{\text{BRAGG CREEK RIGHT SIDE DYKE}}_{\text{VER. }1:300}$



SECTION — BRAGG CREEK RIGHT SIDE DYKE SCALE HOR. 1:1500 VER. 1:300

THIS DRAWING MAY HAVE BEEN REDUCED. ALL SCALE NOTATIONS INDICATED (i.e. 1:1000 etc.) ARE BASED ON 22" X 34" FORMAT DRAWINGS

NOT FOR CONSTRUCTION



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SOUTHERN ALBERTA FLOOD RECOVERY TASK FORCE

G.B. G.G.

AS SHOWN

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

BRAGG CREEK FLOOD DEFENCE BERM SECTIONS

CW2174 2174-S03.dwg MARCH 2014 FIGURE H3

