



From: Field, Adrian [mailto:Adrian.Field@banff.ca] Sent: Tuesday, January 25, 2011 3:22 PM To: Gerald Epp

Cc: McKay, Randall; Townsend, Chad; Dupuis, Michel Subject: Banff Pedestrian bridge at Muskrat street

Design Criteria

Hi Gerry,

Good talking to you yesterday,

Please find attached an aerial view of the sanitary siphon crossing that we have identified for replacement in 2015. The location is from the south end of Muskrat street in Banff, the red lines are two existing sanitary lines that pass under the river bed. As discussed yesterday this pipe replacement project could (subject to build costs and approval from council) potentially be combined with a pedestrian bridge with the sanitary pipes attached to



- Crossing length is 135m (aprox)
- 2. The bridge should be designed to carry 2 number 16" pipes full of sanitary waste
- 3. The bridge is to be simple in design without the need for building an "art feature" in the townsite
- 4. Work within the river channel should be minimised
- 5. Durability 75 year design life

Many thanks

Adrian

Adrian Field | Manager of Engineering

Engineering

Banff Town Hall, 110 Bear Street

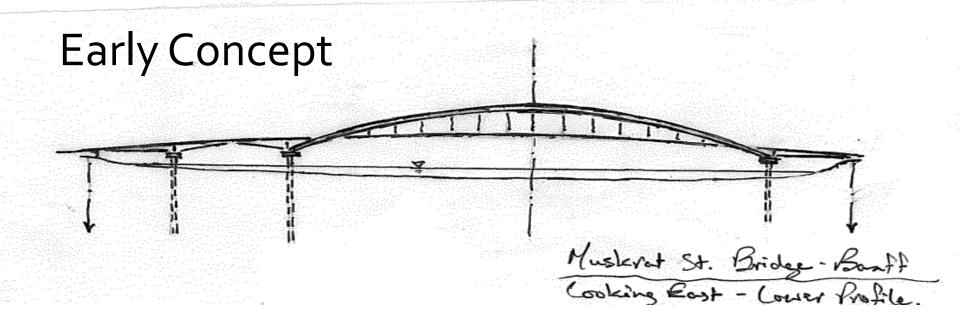
3ox 1260, Banff, Alberta, Canada T1L 1A1

P 403.762.1111 F 403.762.1260

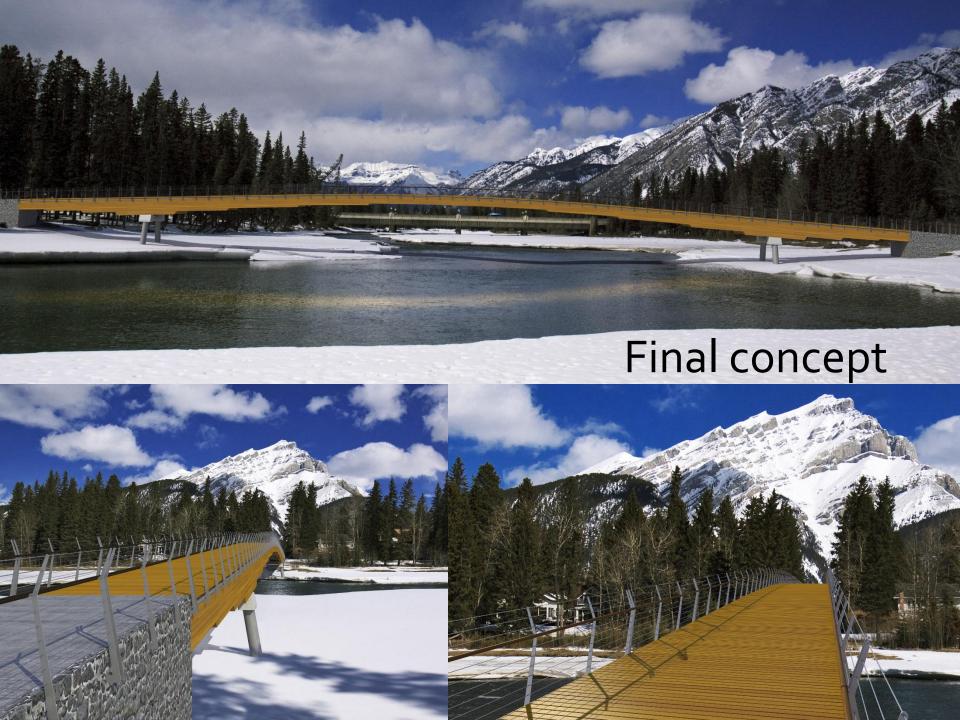
P 403.762.1111 F 403.76

www.banff.ca

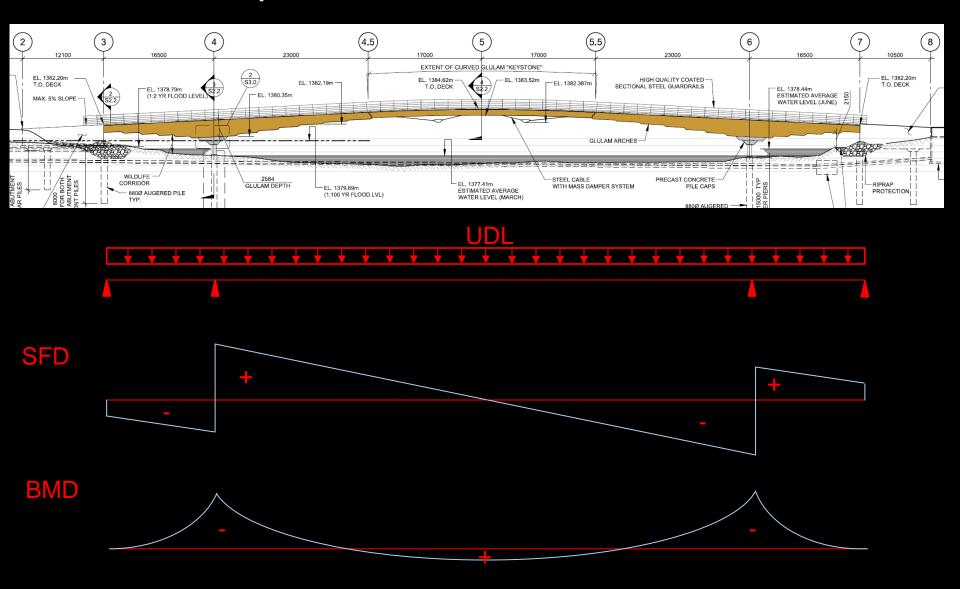


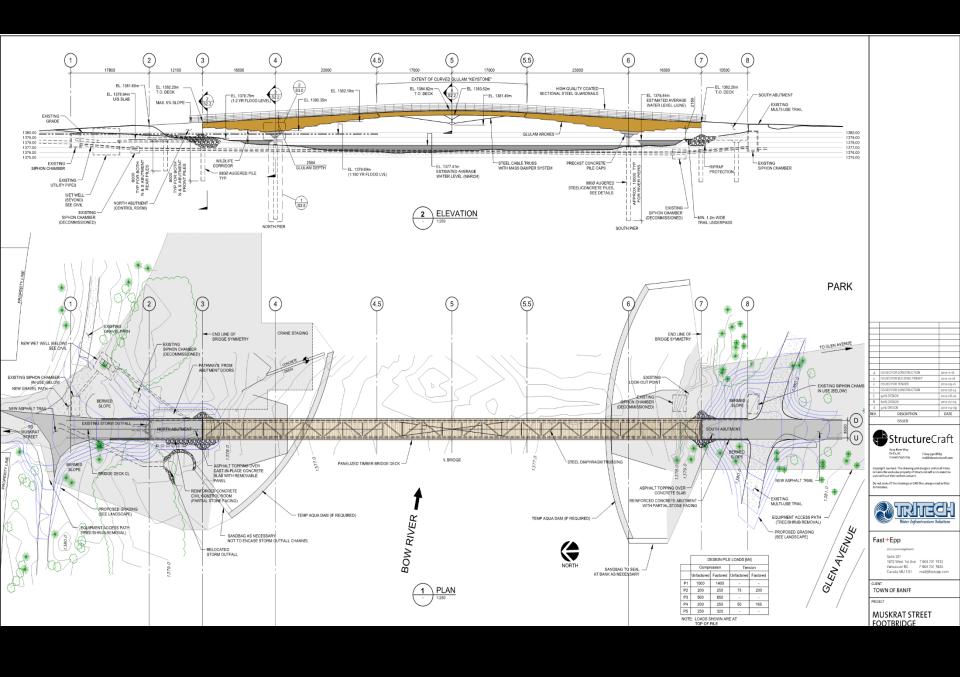


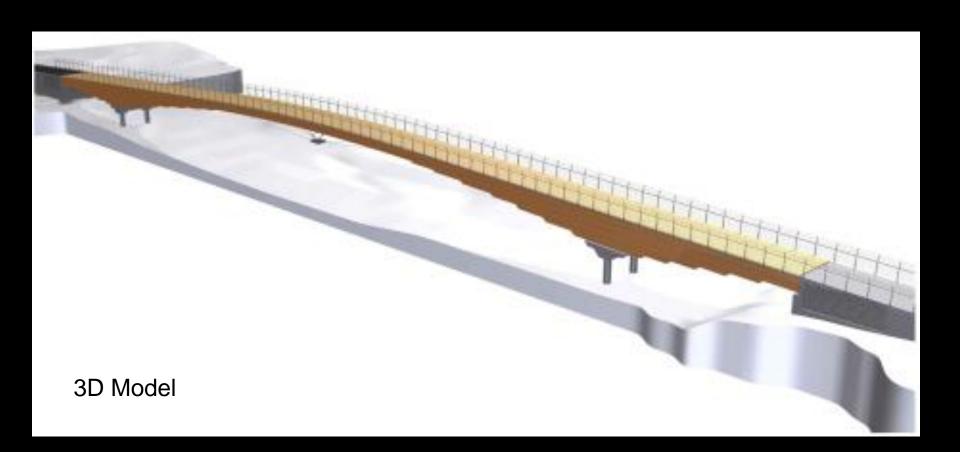


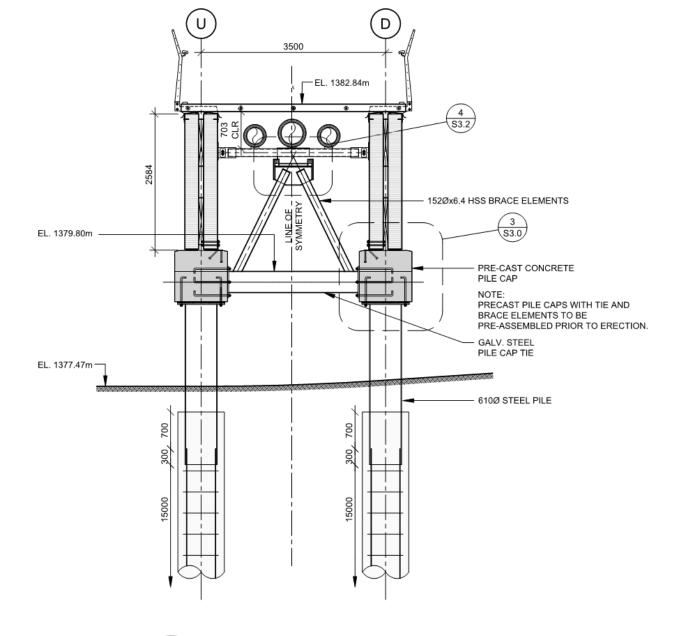


Structural System



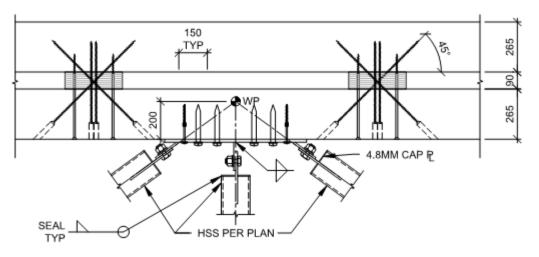




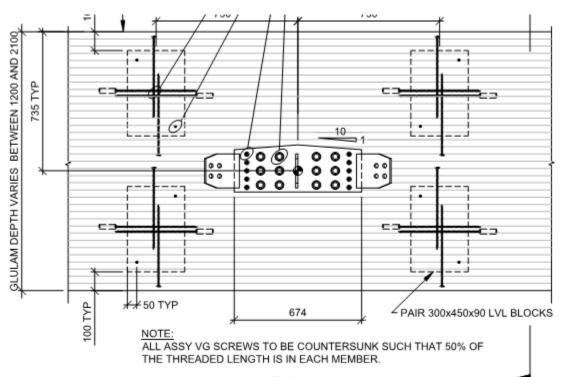


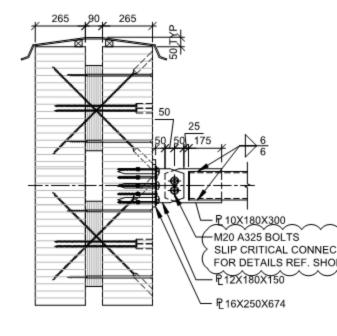
SECTION AT NORTH PIER

S1.1 1:50 (SOUTH PIER SIMILAR)

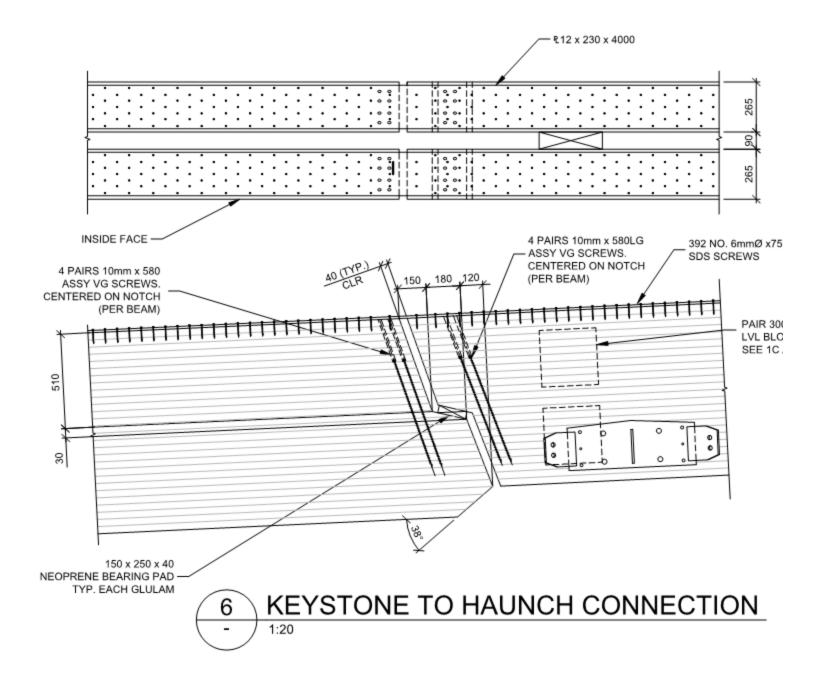


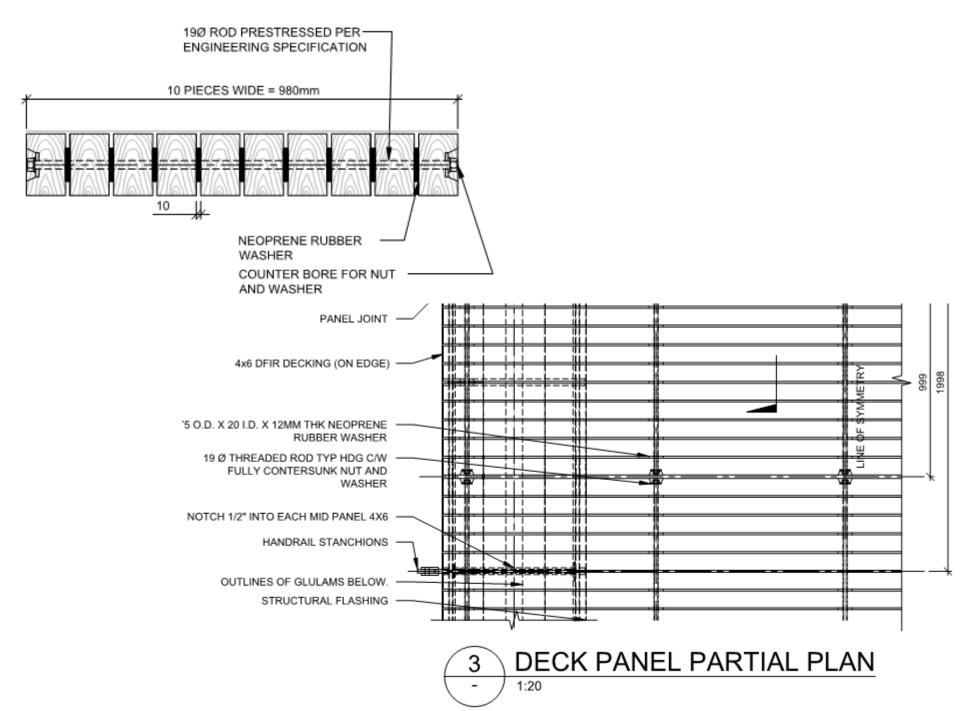
PLAN VIEW: C





VIEW: A

















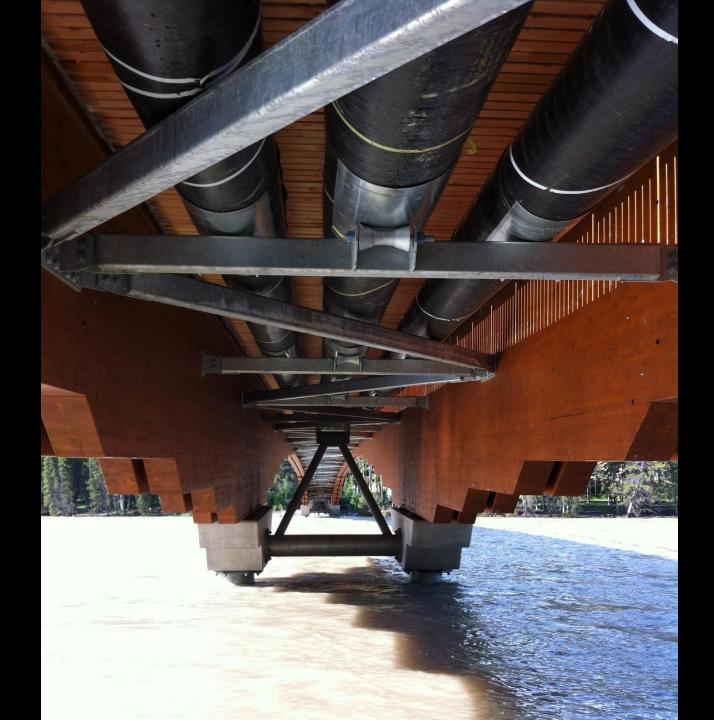




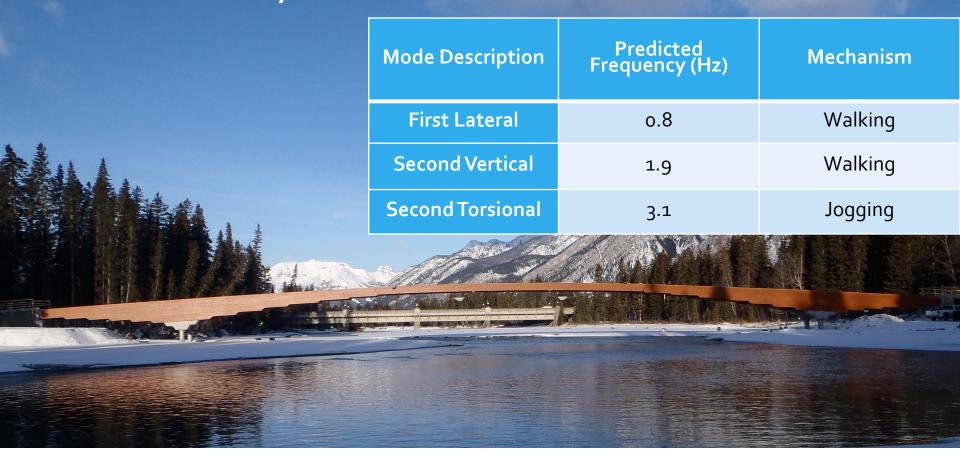


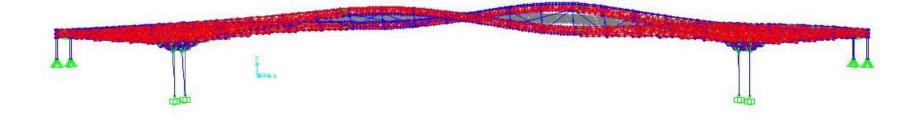




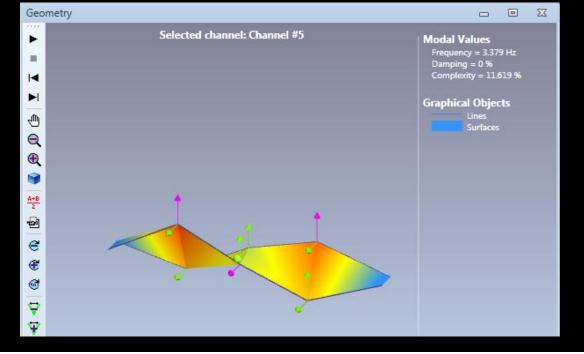


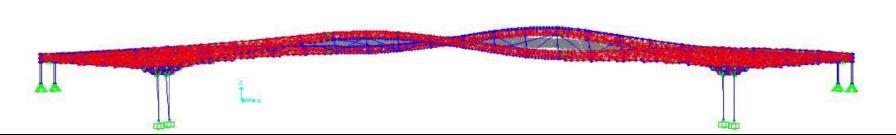
Structural Dynamics











Mode Description	Predicted Frequency (Hz)	Measured Frequency (Hz)
First Lateral	0.8	0.8
Second Vertical	1.9	1.5
Second Torsional	3.1	3.3





