UHCC - PC42 Hearing

Flood Maps Must Be Accurate

Save Our Hills (Upper Hutt) Inc.

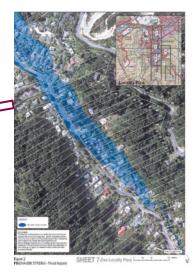
GWRC & UHCC 1-in-100 year flood for 27 Elmslie Rd:

- Topography is wrong
- Flood depth and extent is wrong
- Flood map is inaccurate and misleading
- Not just on Pattinson's property but across the Pinehaven catchment

PINEHAVEN STREAM - Flood Map Map 0 - Flood Map This map is the standard style of flood map produced to dentify properties that may be at risk of flooding. It is designed to be a simple map to use and herefore contains no information property can quickly be determined as either within or outside of the napped flood area. This is a 'flag raising' type map that should be used as a first step in mining if a property is at risk

Flood Map intended to be permanent

"Once the structural works are done, your flood problems will go away."



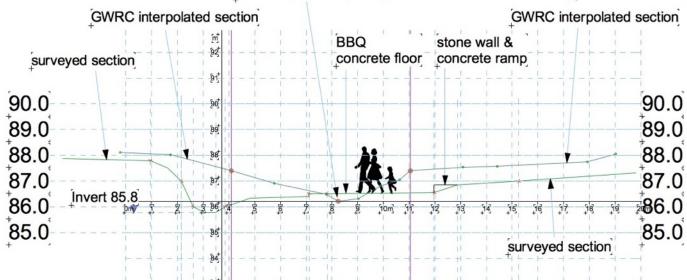
GWRC Sheet 7 (2010) Even after proposed structural works are finished this flood map will remain the same!

GWRC Topography Wrong for 27 Elmslie Road, Pinehaven – Cross- Section Locations



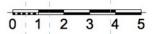
GWRC Topography Wrong for 27 Elmslie Road, Pinehaven – Cross- Section at Chainage 640

assumed location of GWRC's invert (based on GWRC Flood Map showing deepest flood level over BBQ floor)

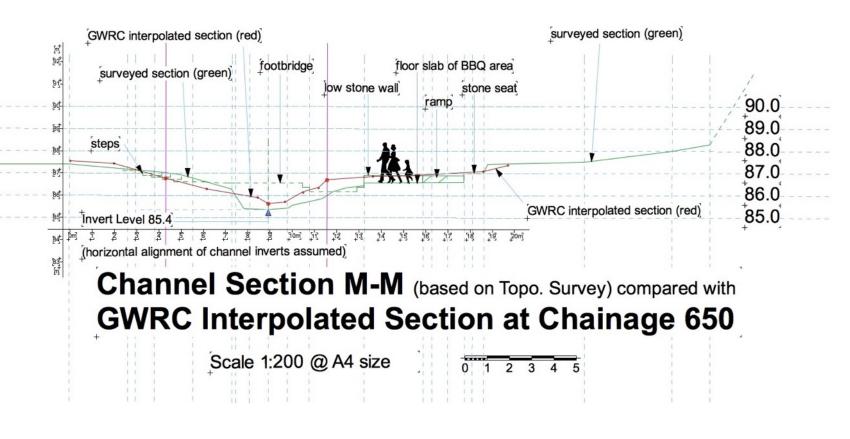


Channel Section Y-Y (based on Topo. Survey) compared with GWRC Interpolated Section at Chainage 640

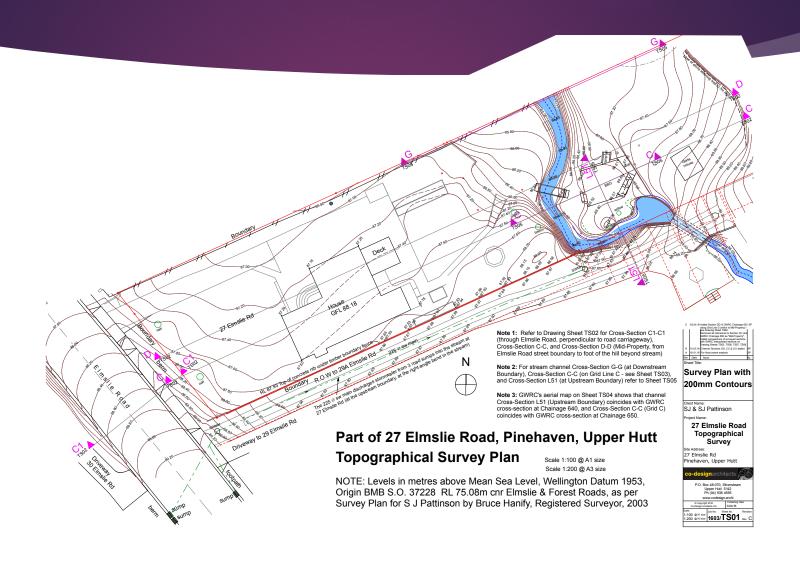
Scale 1:200 @ A4 size



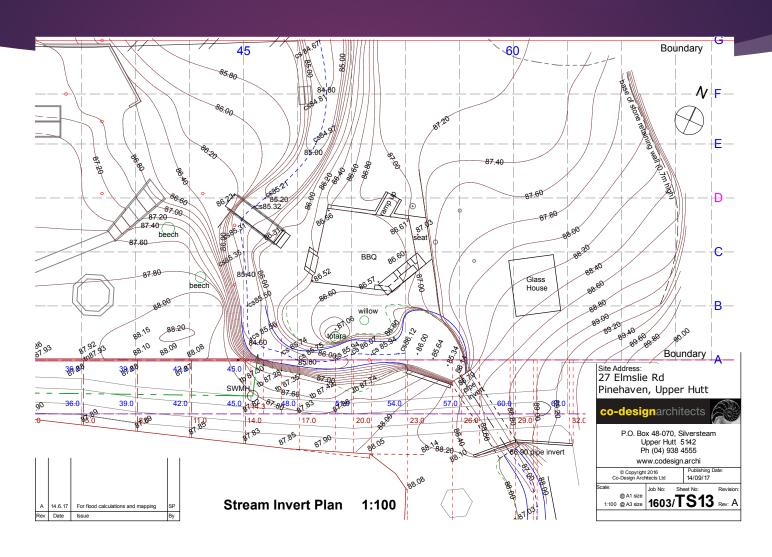
GWRC Topography Wrong for 27 Elmslie Road, Pinehaven – Cross- Section at Chainage 650



Topo Survey – 27 Elmslie Road



Topo Survey – 27 Elmslie Road Stream Channel – Plan View



R J Hall – 27 Elmslie Road 4.45 cumecs – Plan View

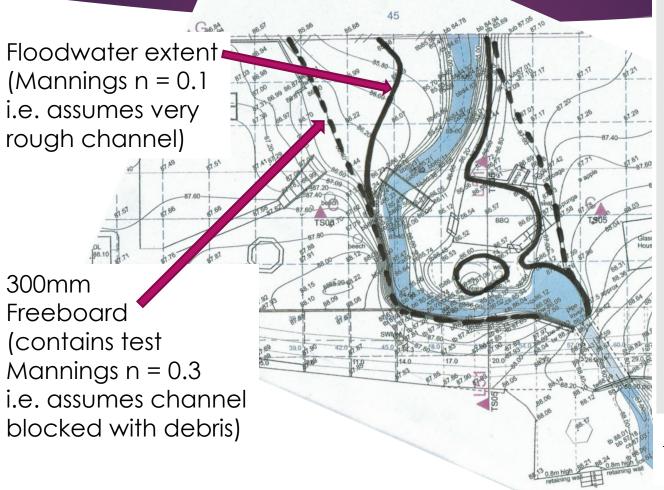


Table 3: Mannings 'n'
Paragraphs 2.3.4, 3.2.1, 4.1.6,
4.1.8, 4.1.11 and 4.2.1

Description	Value of 'n'
Circular pipes HDPE and uPVC Ceramic and concrete	0.011 0.013
Culverts Cast-in-situ concrete Corrugated metal	0.015 0.025
Open stream Straight uniform channel in earth and gravel in good condition	0.0225
Unlined channel in earth and gravel with some bends and in fair condition	n 0.025
Channel with rough stoney bed or with weeds on earth bank and natural strea with clean straight banks	
Winding natural streams with general clean bed but with some poolsand shapes	
Winding natural stream with irregular cross-section and some obstruction vegetation and debris	
Irregular natural stream with obstruct from vegetation and debris	ion 0.06
Very weedy irregular winding stream obstructed with significant overgrown vegetation and debris	n 0.1

NZBC E1/VM1 Surface Water Table 3: Mannings 'n' (roughness coefficient)

