

Stormwater Drainage Plan

Proposed Additions and Alterations

Drainage Notes:

No. 23 Panorama Crescent, Frenchs Forest

- All stormwater pipes are to be P.V.C. sewer grade and shall be installed in accordance with AS3500 and council requirements.
- The roofwater drainage system has been designed for 1 in 20 years ARI 5 mins duration.
- All downpipes are to be 100 mm diameter and sealed and glued joints.
- Gutters guards must be installed on all gutters to minimize debris from entering the sytem.
- All stormwater drainage lines to be at minimum 1% grade unless noted otherwise on plan.
- All works on site have been designed in accordance with AS3500 and all works on the council land have been designed in accordance with the standard required by the council.
- General layout only, the builder is to verify all levels on the site prior to commencing construction.
- All levels are in m ADH.
- All pits within the property area to be fitted with WELDOK or approved equivalent grates in accordance to AS3996;
 - Light duty grate for landscaped area
 - Heavy duty grate where subjected to vehicular crossing.
- All fences shall be kept at least 100mm above the ground level to facilitate the free passage for stormwater overland flow.
- Minimum Pipe cover shall be as per council guidelines and as follows:

Location	Minimum Cover
-Not Subject to Vehicle Loading	100mm Single Residential
	300mm All Other Developments
-Subject to Vehicle Loading	450mm Where not in a Road
-Under a Sealed Road	600mm
-Unsealed Road	750mm
-Paved Driveway	100mm Plus Depth of Concrete








Please refer AS2032 for installation of UPVC pipes for further information.
- If the proposed drainage system is designed to connect to the council's existing drainage system, it is advised that the 'Work Permit' is to be obtained from the respective council before commencing any works on council's property.
- Provide step irons for all pits/OSD entry points deeper than 1.2 m as per council requirements.

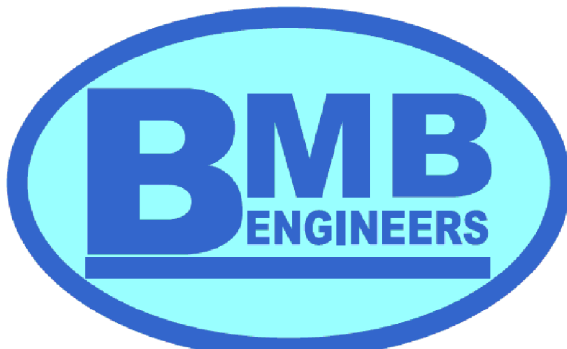
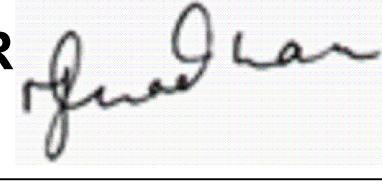
Absorption System:

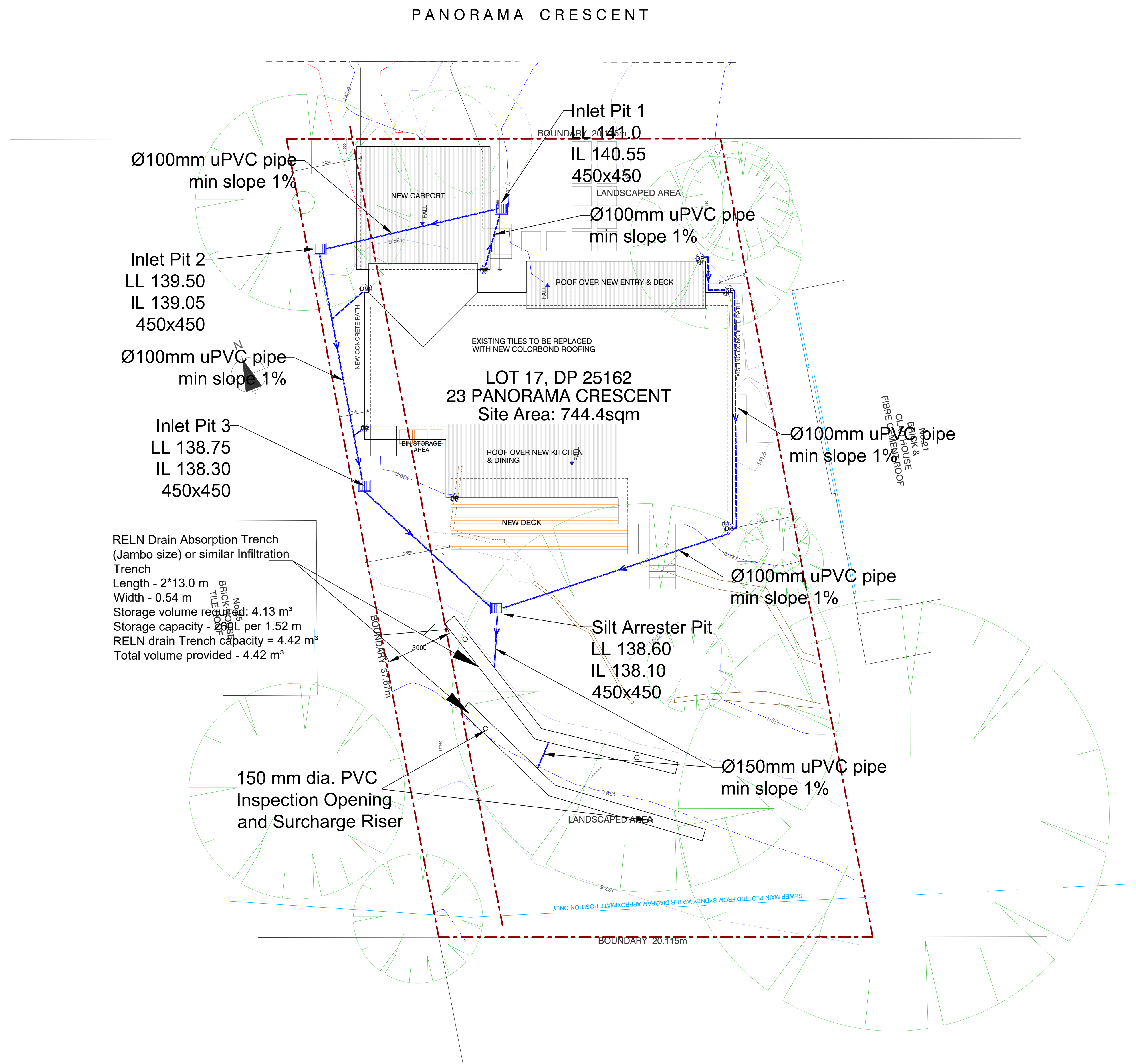
- Absorption trench to be RELN Drain (Jambo Size)
Trench or equivalent with storage capacity 260 L/1.52 m.
Provide 2*13.0m long RELN drain with 2* trenches size:
L:13.0m, W: 550mm and D: 410mm.

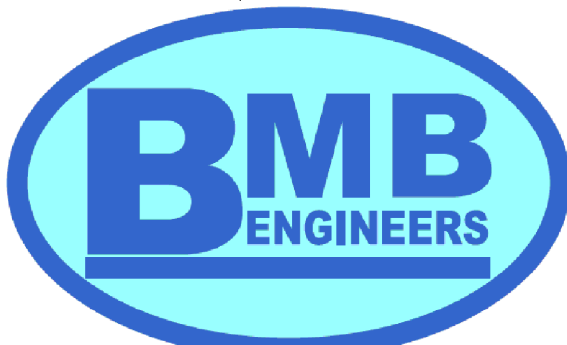
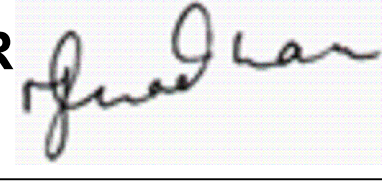
Note:

The absorption system has been designed based on assumed site absorption rate. Geotechnical report to be provided to verify the assumed absorption rate and site suitability as per council requirements at CC stage.

SYMBOL	NOTATION
	Stormwater drainage line
	Roof water drainage line
	Downpipe
	Downpipe Spreader
	Grated pit
LL	Lid level
IL	Invert level
	Overland flow path
	Grated trench drain

Date	Rev	Amendment	STORMWATER DESIGN Proposed Additions and Alterations No. 23 Panorama Cres, Frenchs Forest		BMB ENGINEERS civil, stormwater, structural & geotechnical engineers Ph. 02 9836 1373 Email: info@bmbengineers.com.au Web: www.bmbengineers.com.au	Design by M Pradhan MIEAust CPEng NER 	Title Stormwater General Notes	Scale.
								Dwg. No. SWD1825
						Date 08/05/2020		Sheet No.- 1/2



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						Date 30/06/2020	Stormwater Concept Drainage Plan	Dwg. No. SWD1830
								Sheet No.- 2/2