

Notes
See R Weber's separate details for SSR and PSD calculations based on Northern Beaches Council Water Management Development Policy.

Site location Region 3 Zone 1
Total Site Area 491m²
Current (pre-development) impervious area (Roof plus Paved areas) 130m²
Existing site impervious area = 130 / 491 = 26%
Proposed development impervious = 303 / 491 = 62%
After re-directing 251m² Roof runoff to Street gutter Proposed development impervious (for OSD calculation) = (303 -251)/ 491 = $\frac{52}{491}$ = 10.6%
Determination of SSR and PSD from Northern Beaches Council Water Management Development Policy (various Appendices) is now based on
(a) 251m² impervious roof area directed to the south to Sydney Rd gutter.
(b) 240m² surface runoff to the north consisting of
- 52m² impervious
-188m² pervious

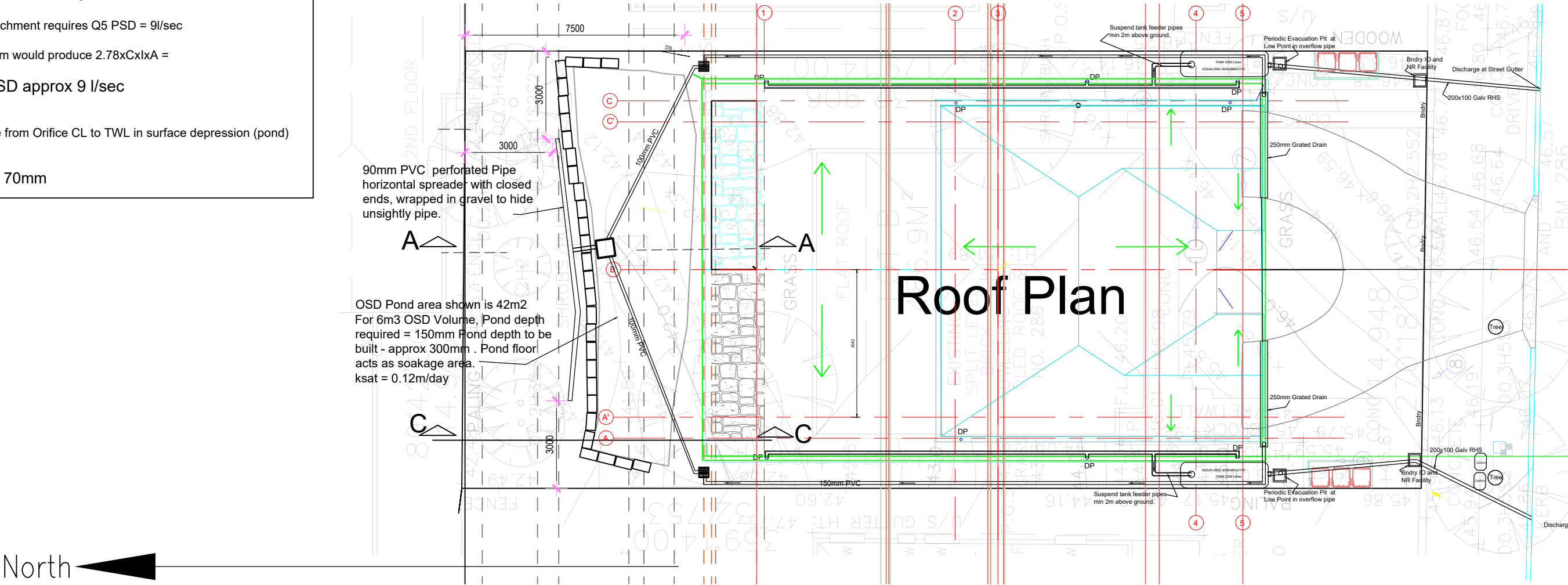
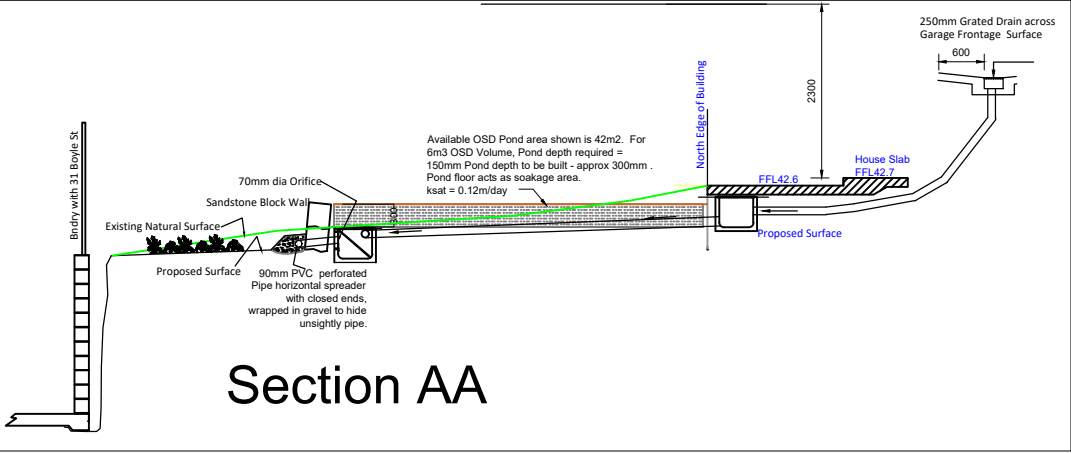
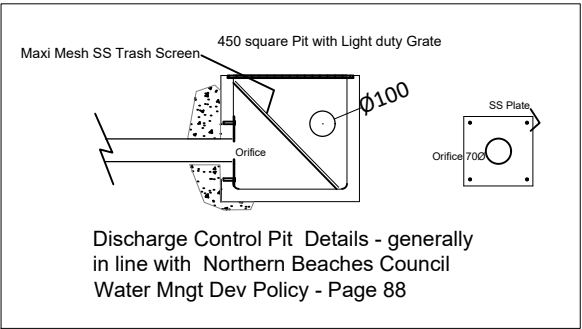
Table A8-1 requires SSR 6.1m³
Elsewhere, Appendix 14 graphs do not cater for 10.6% net (whole of site)
impervious but a crude extrapolation would give a **SSR about 6m³ maximum**

Table A8-1 for 250m² subcatchment requires Q5 PSD = 9l/sec

Alternatively, a 20%AEP storm would produce 2.78xCxIxA =
2.78x0.6x150x0.024=6l/sec
Using App 14 Pge 86 . . . PSD approx 9 l/sec

Use 0.4m as vertical distance from Orifice CL to TWL in surface depression (pond)
Under Appendix 9 Required

Orifice diameter = 70mm



A for DA
B for DA
C for add labels
D Lower ZOI down 300
E revise for Roof Runoff to Street
F(1) Show RHS to Street and Typo

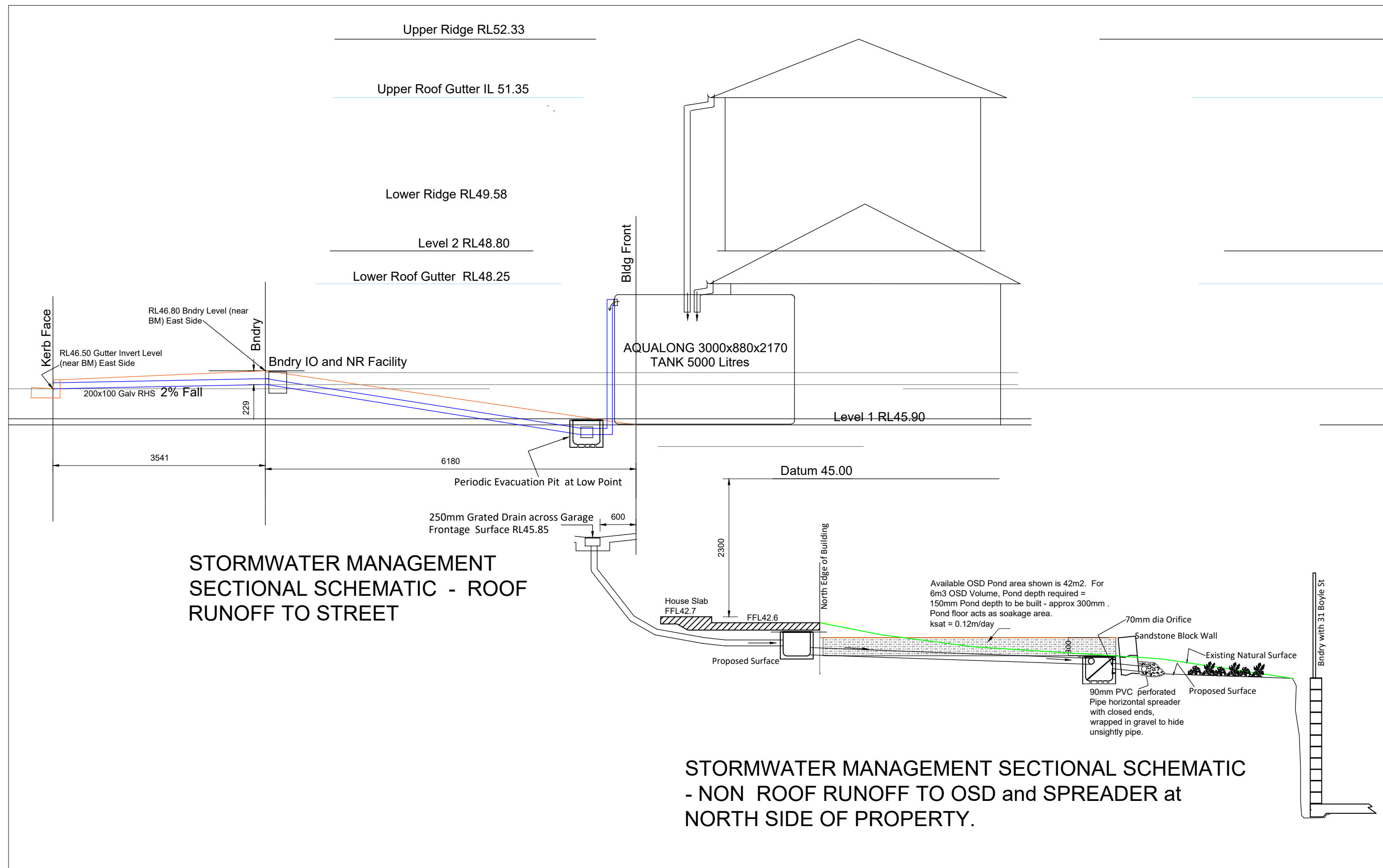
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Stormwater Drainage Management

Designed	Drawn	Date
R Weber	R Weber	

Drawing No. / Revision
SW01



A, for DA

B, for DA

C, for add labels

D, Lower ZOI down 300

E(2) revise for Roof Runoff to Street

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Stormwater Drainage Sectional SCHEMATIC

–Roof water to Street

–Other Run Off to OSD/Spreader

Designed
R Weber

Drawn
R Weber

Date

Drawing No. / Revision

SW02