

## 4. All pipes to be laid at the grade required to match pit invert levels. 5. All pipes to be installed and laid in accordance with AS 3500.3:2003. 6. Thrust blocks to be installed to the trunk drainage pipes in accordance with AS 3500.3:2003. 200x100x6 RHS galv outlet to gutter 7. All pits are to be proprietary uv resistant polypropylene or similar unless noted (approved by the Engineer ) and are to include a min 50mm sediment trap in the base and a maximesh screen laid at 45' across the pit to protect the VENUE oulet pipe . 8. All pits greater than 600mm in depth are to be proprietary precast concrete (approved by the Engineer). fsl 26.25 9. All pits greater than 1000mm in depth are to have adequate access requirements in accordance with OH&S/Workcover requirements (ie; minimum dimensions 900x600mm with step irons). inv 25.80 10.All works are to be inspected and certified by the Principle Certifying Authority prior to backfilling. 11.All works requiring certification by the Engineer will require a works as executed survey prepared by a registered Surveyor detailing all levels etc as on the Engineering plans. 12. The system is too be flushed and cleaned of all sediment and debris annually. 13. To ensure the system's ability to function is maintained it is to be inspected and certified as operating effectively by a licensed plumber every 5 years, and a engineer every 20yrs. 14.All existing predevelopment catchment area run-off conditions exiting the site are to be maintained with no run-off flows being diverted from the predevelopment condition. 15. Flows from upstream properties entering the site are to be monitored during construction and diverted about the OSD system / residence etc as required. SURFSIDE 200x100x6 RHS galv outlet to gutter 2 4 6 8 10 200x200x3mm S/S pl + 4 M8 galv bolts to control pit wall **EXISTING SITE SURVEY** ~ 1:400 refer plan by CMS Surveyors pty Itd reference No 18575 122mm dia machined STORMWATER orifice 150 dia Outlet FLOW SUMMARY **OSD CONTROL ORIFICE** (DRAINS ANALYSIS) PLATE (x2) DETAIL 1:10 - 1951 m2 Site area Existing impervious area 200mm Proposed impervious area - ~737 m2 Sandstone Permanent Detention Volume modeled - 50001 boulder Pond depth <u>R</u>L 23.20 PSD modeled - 55 l/s Maximesh <u>R</u>L 23.15 retaining wall screen Existing Site Discharge (100% Pervious ie Greenfields) to RL 23.20 5yr ARI Storm - 89 l/s 100yr ARI Storm - 141 l/s Post Development Site Discharge 5yr ARI Storm NGL 600x600 100yr ARI Storm Polycrete Pit FSL **2**3.10 (ie permanent Orifice pl to Outlet to Pond twl) control outflow dispersion INV 22.20 to dispersion trench trench SECTION THROUGH OSD / POND OVERFLOW PIT (x2) ~ 1:20

omment DA submission	Barrenjoey Consulting Engineers ptyltd Stormwater Structural Civil PO Box 672 Avalon NSW 2107 M: 0418 620 330 E: lucasbce@bigpond.com ABN: 13124694917 ACN: 124694917	PROJECT: PROPOSED NEW RESIDENCE 9-10 SURFSIDE AVENUE	D
		9-10 SURFSIDE AVENUE AVALON BEACH for ~ A. STABBACK	

## **STORMWATER NOTES**

- 1. All roof collection components (ie gutters / DPs etc) are to be located / sized and installed in accordance with AS 3500.3:2003 by the Developments Hydraulic Consultant for a 5% AEP event capacity.
- 2. All Trunk Drainage pipes, as shown on this plan are to be minimum of 150mm dia uno.
- 3. All pipes to be uPVC to AS 1254:2002.

