

**979 BARRENJOEY ROAD  
PALM BEACH**


1. ALL PROPOSED PITS TO BE 450 x 450 CAST IN-SITU OR PRECAST PITS UNLESS SHOWN OTHERWISE.
2. ALL CHARGED LINE PIPES TO BE 100Ø uPVC SEWER CLASS UNLESS SHOWN OTHERWISE
3. ALL DOWNPIPES TO BE 90Ø uPVC OR 100 x 50 UNLESS OTHERWISE SHOWN
4. ALL NON-PRESSURE STORMWATER PIPES TO BE 100Ø uPVC UNLESS SHOWN OTHERWISE
5. ALL GRATED DRAINS TO BE MINIMUM 150 WIDE GALVANIZED HEAVY DUTY GRATES.
6. ALL NON-TRAFFICABLE PITS TO BE LIGHT DUTY. PITS IN TRAFFICABLE AREAS TO BE HEAVY DUTY.
7. ALL WORK SHALL BE CARRIED OUT IN ACCORDANCE WITH COUNCILS SPECIFICATIONS.
8. ALL PITS GREATER THAN 1.2m DEPTH SHALL INCLUDE STEP IRONS AND HAVE MINIMUM CLEAR DIMENSIONS OF 600 x 600.
9. ALL PITS ARE TO BE BENCHED TO ALLOW SMOOTH FLOW OF WATER THROUGH PITS
10. ALL DOWNPIPES SHALL CONFORM TO AS/NZS 1866 FOR ALUMINIUM PIPES AND AS 1254, AS/NZS 1260, AS 1273, AS/NZS 1477, AS/NZS 2179.2 AND AS 2032 FOR uPVC PIPES.
11. ALL BOX GUTTERS SHALL COMPLY WITH AS/NZS 2179.1
12. ALL BOX GUTTERS SHALL BE CONSTRUCTED WITH A MINIMUM 1:200 GRADE TO SUMP/DOWNPipes
13. ALL DRAINAGE WORKS SHALL BE IN ACCORDANCE WITH AS 3500.3.2

| DOWNPIPE TYPE | DOWNPIPE SIZES |             |
|---------------|----------------|-------------|
|               | ROUND          | RECTANGULAR |
| 1             | 90Ø            | 100 X 75    |
| 2             | 100Ø           | 100 X 75    |
| 3             | 125Ø           | 100 X 100   |
| 4             | 150Ø           | 150 X 150   |

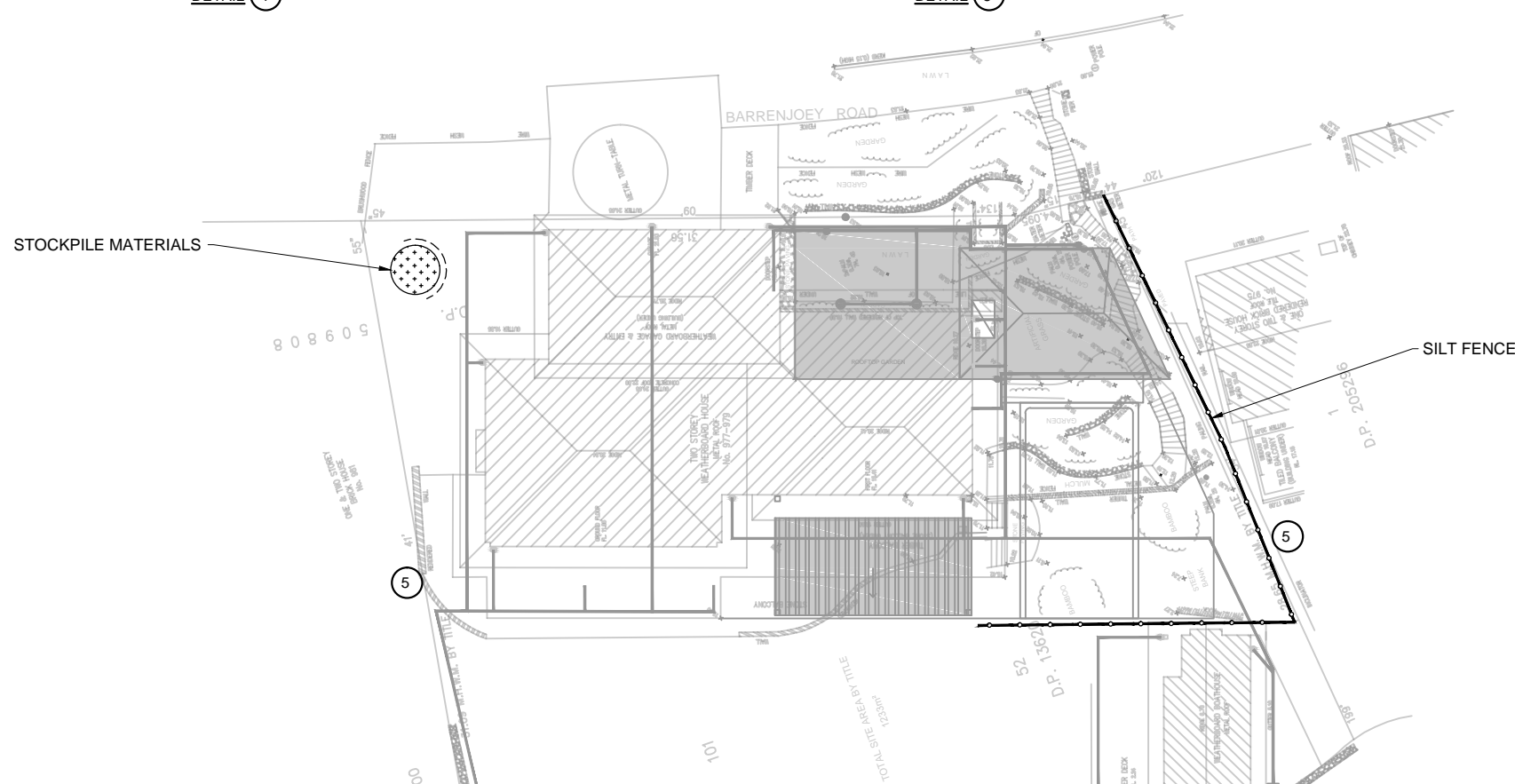
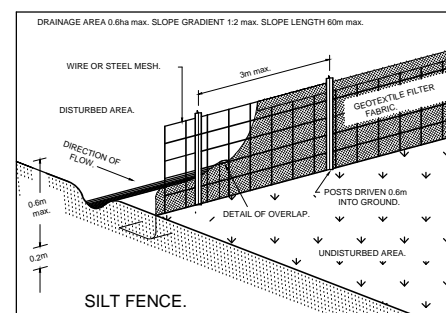
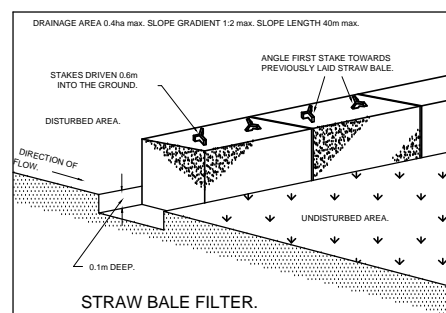
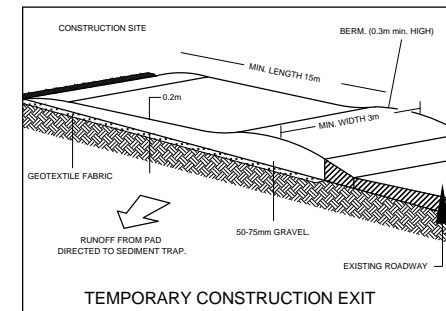
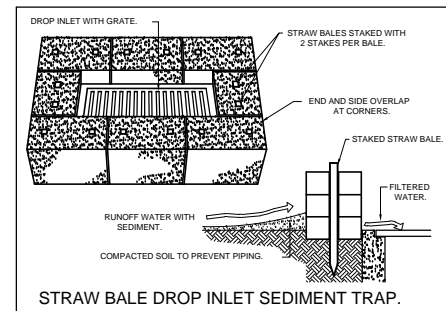
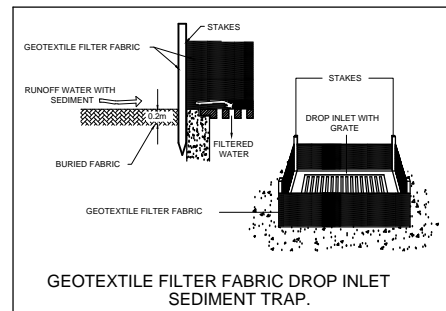
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|   |                                      |   |  |
|---|--------------------------------------|---|--|
|  | FLOWPATH                             |  | RAINHEAD                                   |
|  | FLOOR WASTE                          |  | SUMP OVERFLOW                              |
|  | FLOW SPREADER AND DOWNPIPE TYPE 1    | IL 0.00   | PIT INVERT LEVEL                           |
|  | PROPOSED GRATED PIT                  |  | GRATED DRAIN                               |
|  | PROPOSED SEALED WATER TIGHT PIT      | + 00.00   | EXISTING SURFACE LEVEL                     |
|   | PROPOSED STORMWATER PIPE - GRAVITY   | + 00.00   | PROPOSED SURFACE LEVEL                     |
|   | PROPOSED V-DRAIN                     |  | SEALED INSPECTION OPENING                  |
|   | PROPOSED STORMWATER PIPE - CHARGED   |  | DOWNPIPE - TYPE 1                          |
|   | PROPOSED RISING MAIN (PRESSURE PIPE) |  | BASIX ROOF AREA DRAINING TO RAINWATER TANK |
|   | PROPOSED SUBSOIL DRAIN               |  | AREA BYPASSING ON-SITE DETENTION TANK      |
|   | PROPOSED BUILDING - GROUND FLOOR     |   |  |
|   | PROPOSED BUILDING - FIRST FLOOR      |   |  |
|   | PROPOSED CONTOURS                    |   |  |

**FOR DA APPROVAL**

|                              |              |            |          |     |            |      |   |                                |                         |   |   |                     |
|------------------------------|--------------|------------|----------|-----|------------|------|---|--------------------------------|-------------------------|---|---|---------------------|
| SURVEYOR<br>BEE & LETHBRIDGE | 0            | DA ISSUE   | 04/12/19 |     |            |      | C.K. ENGINEERING SERVICES<br>ABN 67 115 216 496<br>49 FLORA ST<br>ROSELANDS, NSW 2196<br>MOB: 0403 329 327<br>EMAIL: ckatsoulas@gmail.com | CLIENT:<br>SOAPBOX INDUSTRIES  | DRAWING TITLE:<br>INDEX | DRAWN: P.T.   | SIGNED:  | DATE: DECEMBER 2019 |
| ARCHITECT<br>EC WORKSHOP     |              |            |          |     |            |      |   | DESIGNED: C.K.                 |                         | SCALE: AS SHOWN   |   |                     |
| CONSULTANT                   | No.          | AMMENDMENT | DATE     | No. | AMMENDMENT | DATE |   | CHECKED: C.K.                  |                         | DATUM: AHD  |   |                     |
| -                            | DO NOT SCALE |            |          |     |            |      |   | 979 BARRENJOEY ROAD PALM BEACH |                         | JOB & DRAWING No: 19999<br>No. IN SET: 1 OF 3<br>ISSUE: 0 |   |                     |






EROSION CONTROL NOTES:

1. ALL WORK SHALL BE CARRIED OUT IN ACCORDANCE WITH COUNCIL'S STANDARD SPECIFICATIONS AND TO THE SATISFACTION OF COUNCIL'S ENGINEER.
2. EROSION AND SEDIMENTATION CONTROLS SHALL BE CONSTRUCTED AS SHOWN ON SHEET 2 AND 3 OF THIS PLAN AND/OR WHERE DIRECTED BY COUNCIL'S ENGINEER.
3. SEDIMENTATION AND EROSION CONTROL DEVICES SHALL BE IMPLEMENTED PRIOR TO OR IN CONJUNCTION WITH THE FIRST PHASE OF EARTHWORKS AND SHALL BE REMOVED ONLY WHEN THE AREAS ABOVE IT HAVE BEEN STABILISED. EACH SEDIMENTATION AND EROSION CONTROL DEVICE SHALL BE INSPECTED AFTER EACH STORM FOR STRUCTURAL DAMAGE OR CLOGGING BY SILT AND OTHER DEBRIS AND PROMPTLY DESILTED, REPAIRED OR REPLACED IF REQUIRED.
4. TOPSOIL STOCKPILES SHALL BE LOCATED OUTSIDE HAZARD AREAS SUCH AS DRAINAGE DEPRESSIONS.
5. ALL AREAS NOT SUBJECT TO CONSTRUCTION WORKS SHALL BE RETAINED FREE FROM DISTURBANCE OR DAMAGE FOR THE DURATION OF THE WORKS.
6. TREES TO BE RETAINED SHALL BE PROTECTED DURING SITE WORKS AND CONSTRUCTION BY THE ERECTION OF SOLID BARRICADES AT THE DRIP LINE OR AS SPECIFIED BY COUNCIL'S ENGINEER.
7. THE DEVELOPER OR CONTRACTOR WILL TAKE ALL MEASURES TO PREVENT DAMAGE TO TREES AND ROOT SYSTEMS DURING SITE WORKS AND CONSTRUCTION ACTIVITIES INCLUDING THE PROVISION OF WATER, SEWERAGE AND STORMWATER DRAINAGE SERVICES. IN PARTICULAR, WORKS, ERECTION OF STRUCTURES, EXCAVATION OR CHANGES TO SOIL LEVELS WITHIN 4 METRES OF THE TRUNKS OF TREES TO BE RETAINED ARE NOT PERMITTED UNLESS PART OF THE DEVELOPMENT AS APPROVED, AND THE STORAGE OF SPOIL, BUILDING MATERIALS, SOILS OR THE DRIVING OR PARKING OF ANY VEHICLE OR MACHINERY WITHIN 4 METRES OF THE TRUNK OF A TREE TO BE RETAINED, IS NOT PERMITTED.
8. WETTING OF THE SITE SHOULD BE CARRIED OUT AS OFTEN AS NECESSARY AS A FORM OF DUST CONTROL.
9. SILT FENCES TO BE CONSTRUCTED WHERE EVER NATURAL SURFACE SLOPES AWAY FROM DISTURBED AREAS OR WHERE DIRECTED BY THE ENGINEER.

# FOR DA APPROVAL

|                              |     |            |          |     |            |                |   |                               |   |                    |   |                     |
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