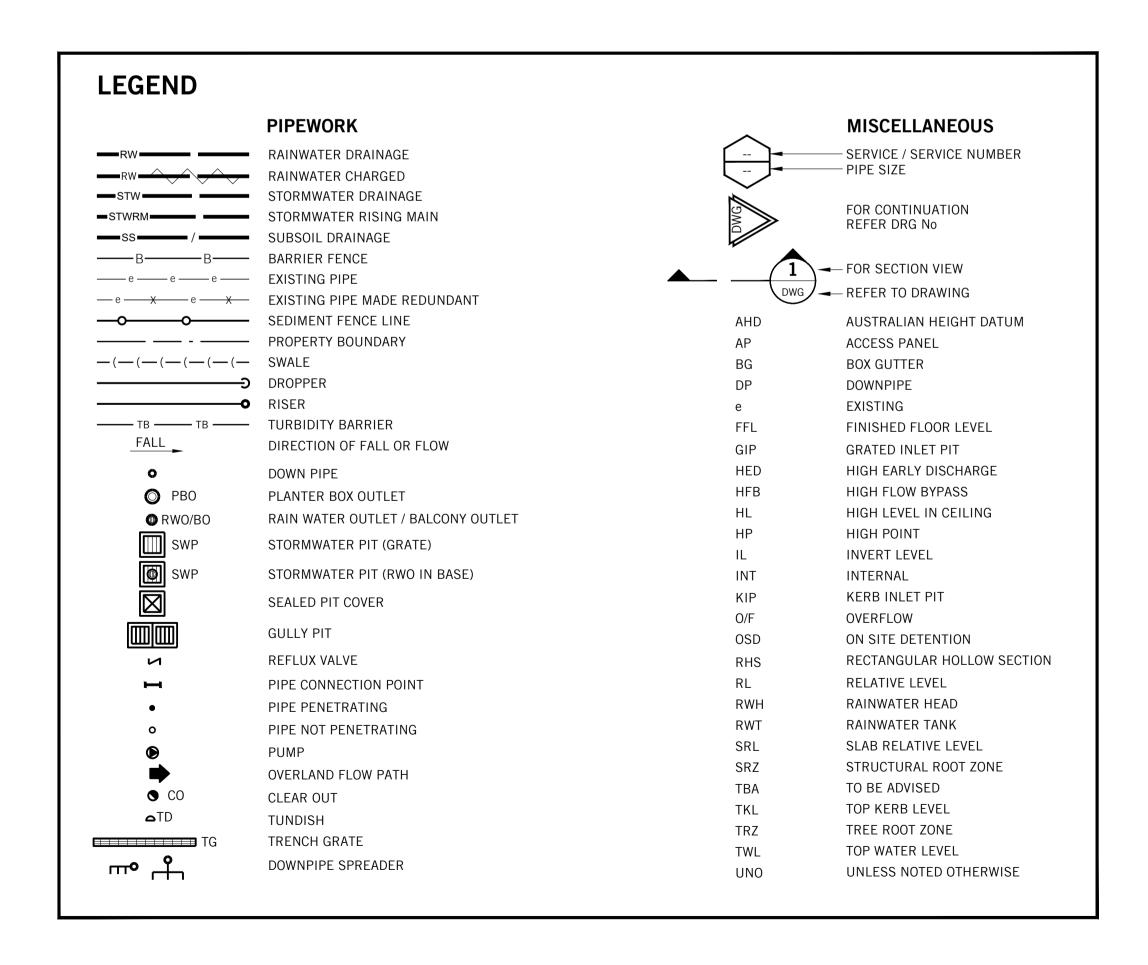
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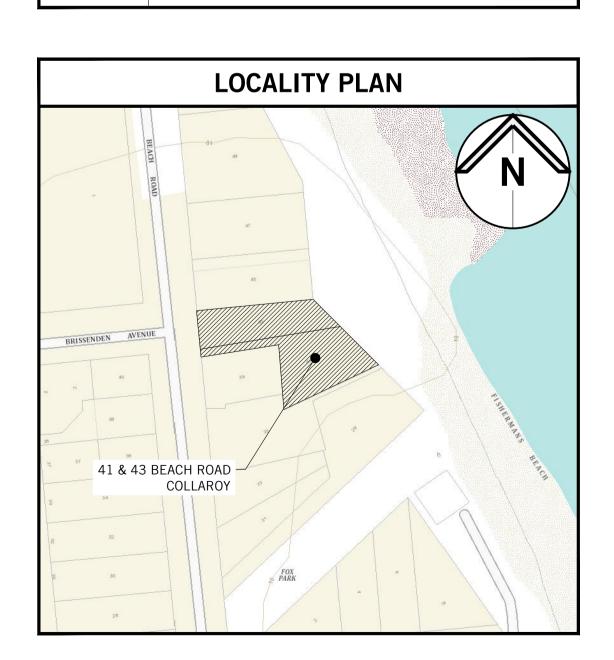


NEW RESIDENCE AT 41 & 43 BEACH ROAD COLLAROY

FOR
RUSSELL STALEY
JENNIFER STALEY



DRAWING LIST			
DRAWING No.	TITLE		
SWDA 1.1	COVERSHEET AND DRAWING LEGEND		
SWDA 1.2	GROUND FLOOR LAYOUT		
SWDA 1.3	BASEMENT FLOOR LAYOUT		
SWDA 1.4	DETAILS SHEET		
SWDA 1.5	EROSION & SEDIMENT CONTROL PLAN AND DETAILS		



NOTES

- ALL DRAINAGE WORKS ARE TO BE IN ACCORDANCE WITH AS/NZS 3500 -STORMWATER DRAINAGE, WARRINGAH COUNCIL DEVELOPMENT CONTROL PLAN FOR ON-SITE STORMWATER MANAGEMENT AND THE LATEST BASIX CERTIFICATE.
- 2) SITE AREA = 1536m²
- 3) DUE TO THE PRESENCE OF A SILTY CLAY LAYER INVESTIGATED BY TAYLOR GEOTECHNICAL ENGINEERING REPORT DATED ON 15/06/2019, IT IS CONCLUDED THAT A STORMWATER ABSORPTION TRENCH IS NOT SUITABLE FOR THE DEVELOPMENT. A STORMWATER DISPERSAL TRENCH AND LEVEL SPREADER IS PROPOSED DOWNSTREAM OF THE DEVELOPMENT IN LIEU OF A STORMWATER ABSORPTION TRENCH IN ACCORDANCE WITH COUNCIL PRE-DA MEETING MINUTES ADVICE NUMBER PLM2019/0024 DATED ON 26/02/2019.
- 4) A SILT TRAP PIT IS TO BE INCORPORATED WITHIN THE DOWNSTREAM END OF THE EXISTING STORMWATER SYSTEM SERVING THE SITE IN ACCORDANCE WITH WARRINGAH COUNCIL REQUIREMENTS. THIS IS TO BE REGULARLY MAINTAINED AND CLEARED OF ALL DEBRIS.
- 5) IN ACCORDANCE WITH THE BASIX CERTIFICATE A RAINWATER TANK WITH A MIN CAPACITY OF 6000L IS PROPOSED. THIS IS TO COLLECT A MINIMUM ROOF AREA OF 370m².

 P2
 ISSUED FOR DA
 DH
 GB
 17.12.19

 P1
 95% PRELIMINARY ISSUE
 DH
 GB
 16.12.19

 Rev.
 Issue / Amendment
 By
 App.
 Date



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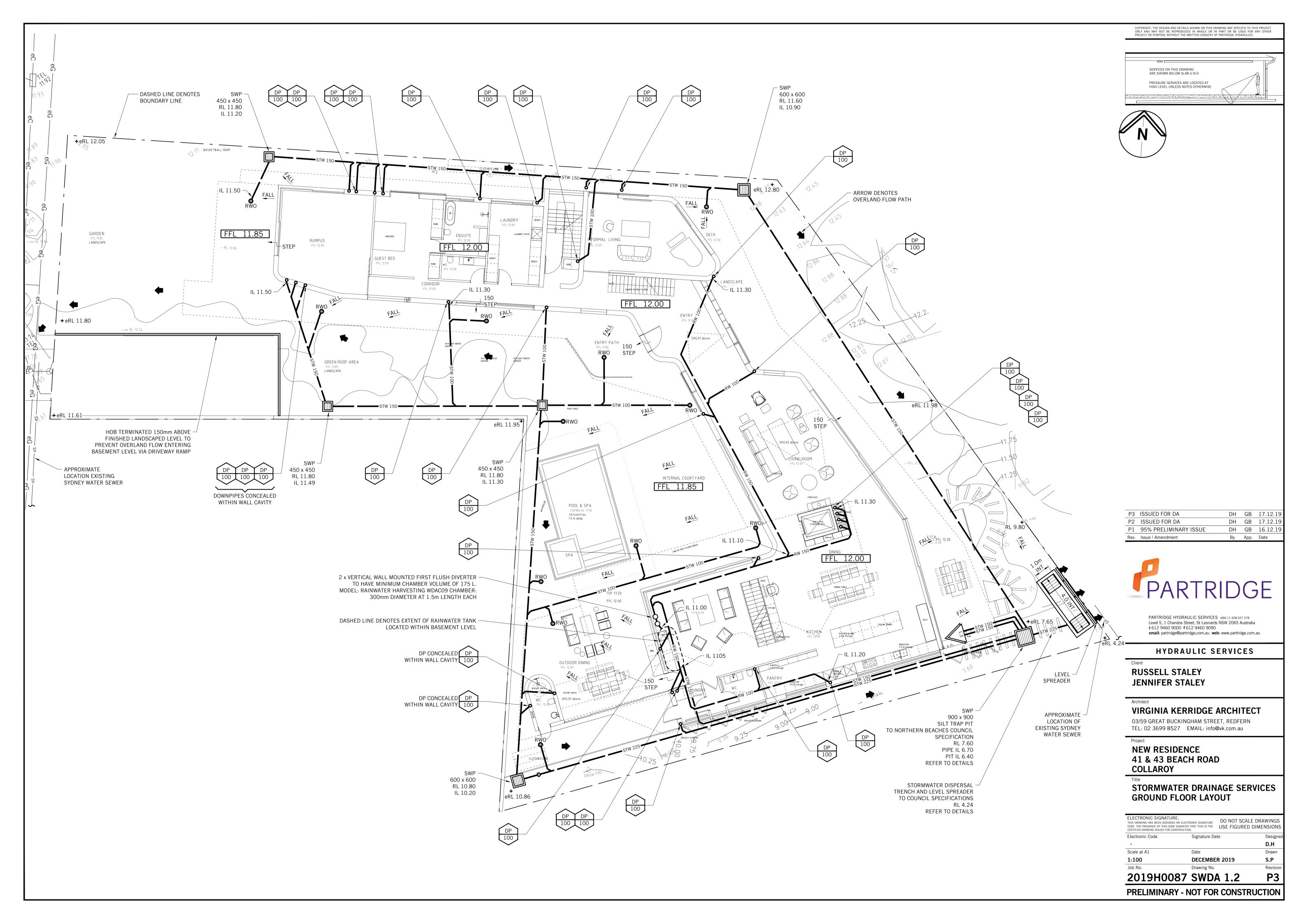
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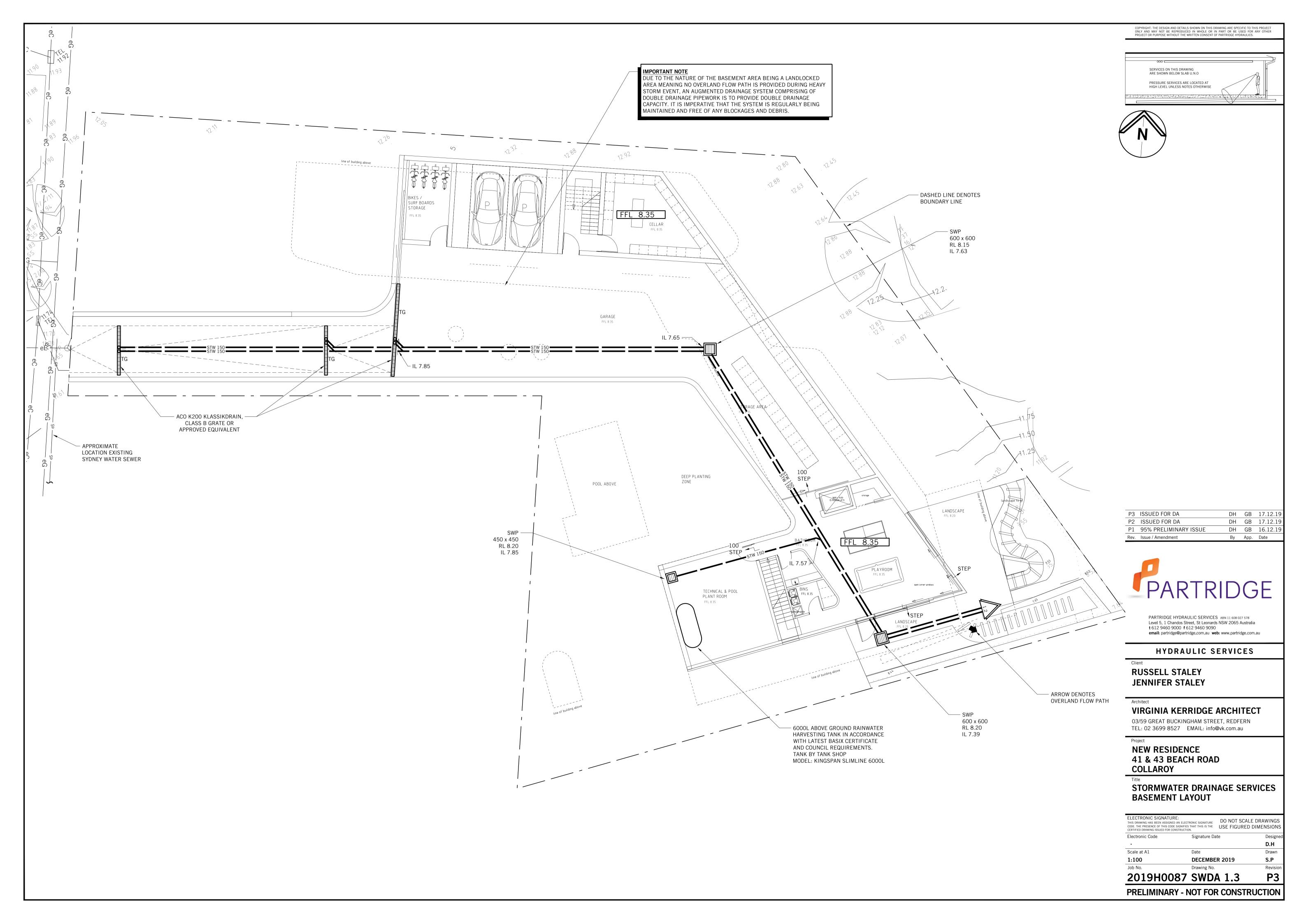
NEW RESIDENCE 41 & 43 BEACH ROAD COLLAROY

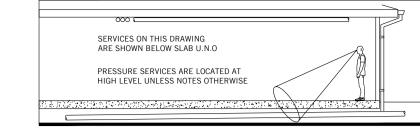
STORMWATER DRAINAGE SERVICES
COVERSHEET AND DRAWING LEGEND

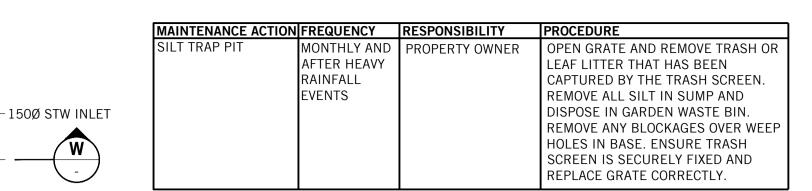
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2019H0087 SWDA 1.1 P2
PRELIMINARY - NOT FOR CONSTRUCTION











1) PIT DIMENSIONS: $600 \times 600 \text{ FOR} < D \le 0.9$ $600 \times 900 \text{ FOR } 0.9 < D \le 1.2$ 900 x 900 FOR 1.2 < D (AS SHOWN ON PLAN)

2) PITS TO BE CONSTRUCTED FROM - CAST IN-SITU CONCRETE, PRECAST CONCRETE OF DOUBLE BRICK.

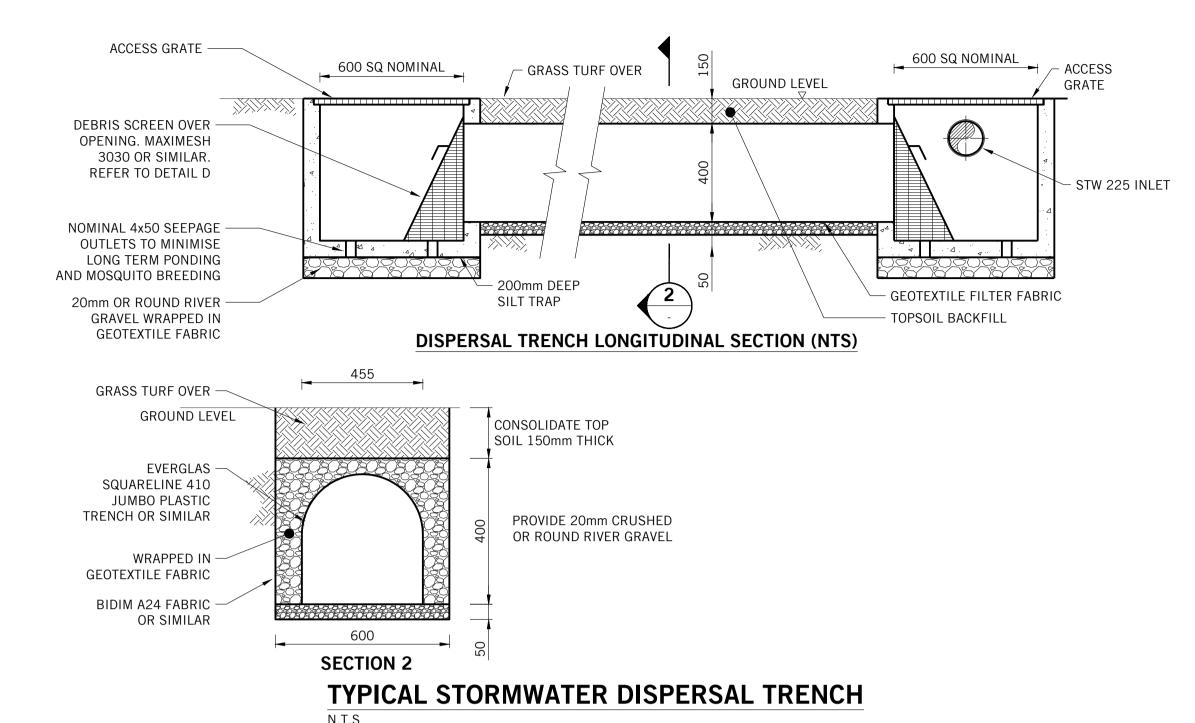
3) A SIGN SHALL BE CONSTRUCTED ADJACENT TO THE PIT STATING: "THIS SEDIMENT / SILT ARRESTOR PIT SHALL BE REGULARLY INSPECTED AND CLEANED".

SILT TRAP PIT

150Ø INLET PIPES

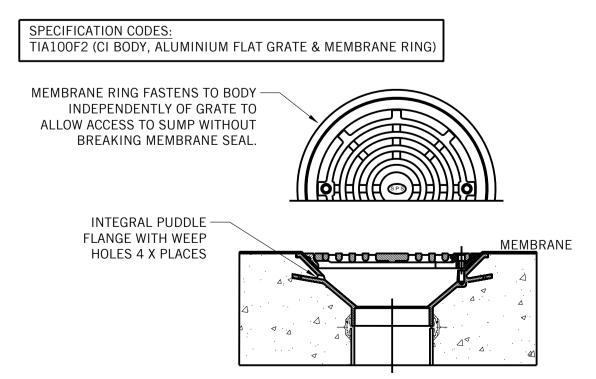
- MIN 4 x 90Ø

WEEP HOLES



- MOSQUITO AND VERMIN RESISTANT BASKET SCREEN FIRST FLUSH DEVICE TO CAPTURE -— HIGH LEVEL OVERFLOW PIPE <u></u> 150mm INITIAL ROOF RUNOFF. REFER TO PLANS FOR SPECIFICATIONS & **VOLUME REQUIREMENTS** TO STORMWATER SYSTEM (REFER TO PLAN) RAINWATER HARVESTING FIRST FLUSH UNIT IS TO BE TANK. REFER TO PLANS FOR CLEANED OUT AFTER EACH SPECIFICATION & VOLUME MAJOR STORM & AS PER REQUIREMENTS. MAINTENANCE SCHEDULE TOP OF TANK OPEN TO ATMOSPHERE (SCREENED) BASE RL + 0.10m- 0.1m SLUDGE BASE RL (REFER TO PLAN) 5 RAINWATER TO BE USED IN ACCORDANCE WITH - GRATED INLET PIT THE BASIX CERTIFICATE CONCRETE PLINTH SLAB - OUTLET PIPE TO STRUCTURAL DETAIL

TYPICAL ABOVE GROUND RAINWATER STORAGE TANK



150Ø INLET PIPES

PLAN

SECTION W

- 225Ø STW INLET

225Ø OUTLET PIPE

CHILDPROOF & -

FASTENING SYSTEM

(EG. SPRING LOADED

J-BOLTS OR SIMILAR)

GEOTEXTILE FABRIC

(HIGH FILTRATION

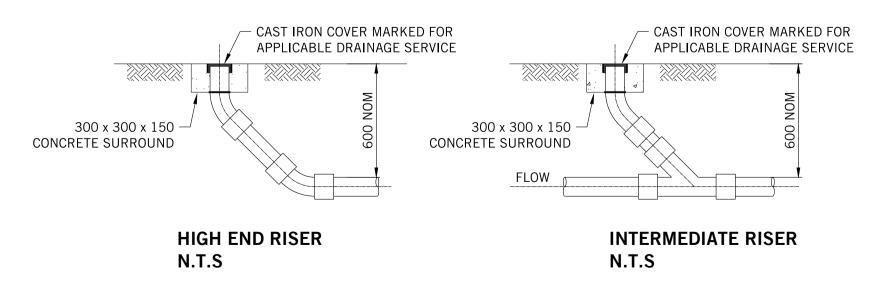
CORROSION

RESISTANT

OUTLET PIPE

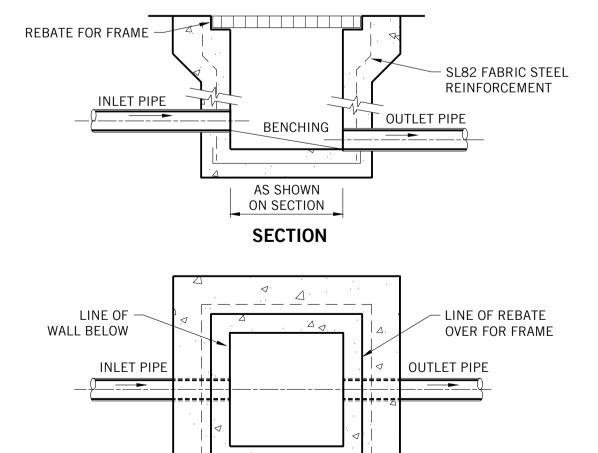
SPS TRUFLO 100mm RWO WITH **FLAT GRATE & MEMBRANE CLAMP**

N.T.S (SPS REF 1.03)



PROVIDE CLEAR OUTS INSTALLED IN ACCORDANCE WITH A.S. 3500 AT LOCATIONS WHERE NOTED C.O. ON PLAN

TYPICAL DRAINAGE CLEAR OUT (INSPECTION OPENING)



PLAN WITHOUT GRATE TYPICAL GRATED INLET PIT

N.T.S

P2	ISSUED FOR DA	DH	GB	17.12.19
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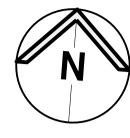
STORMWATER DRAINAGE SERVICES **DETAILS SHEET**

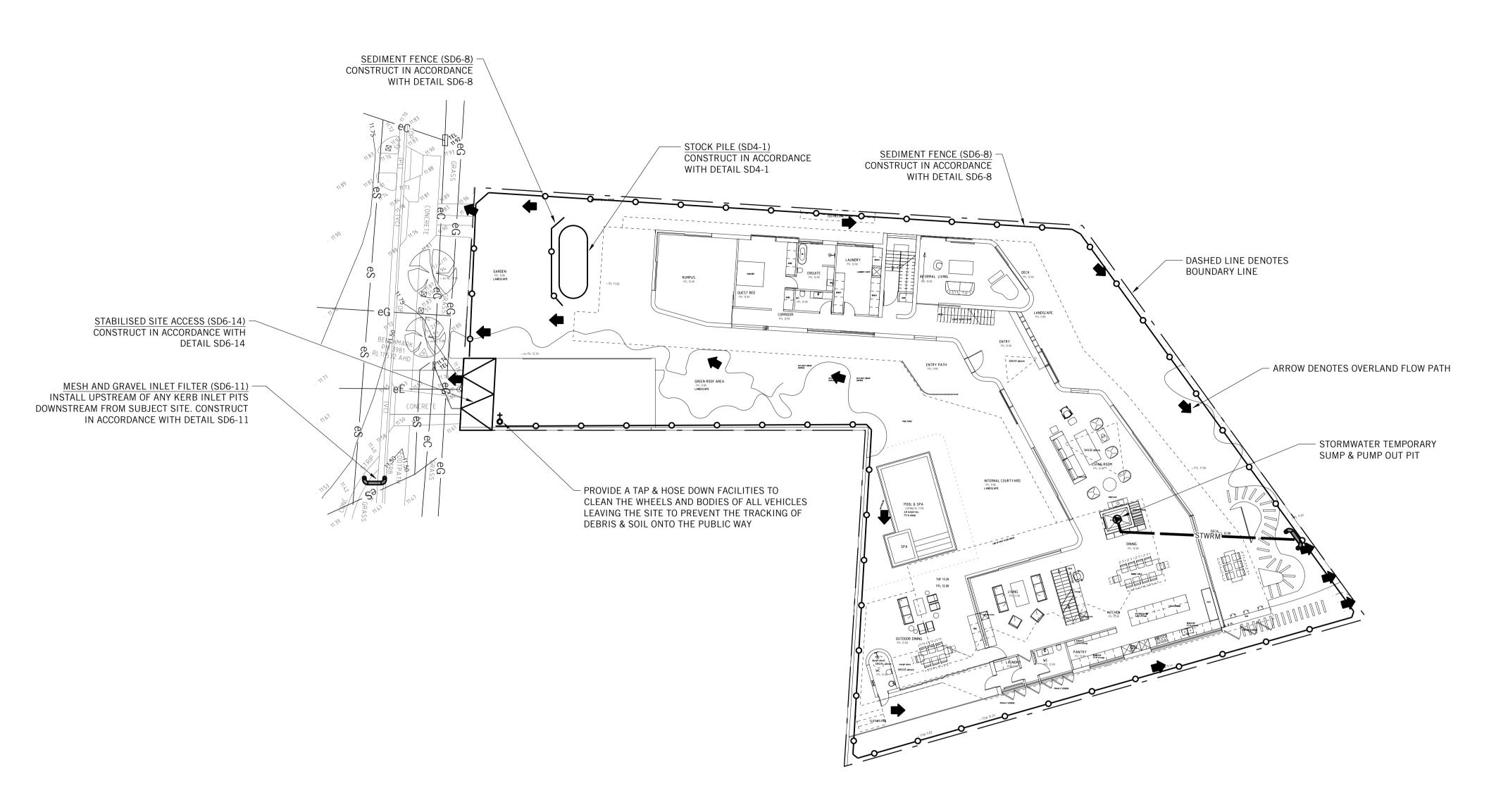
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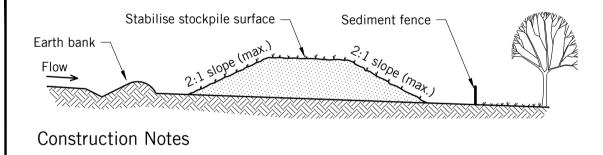
2019H0087 SWDA 1.4

PRELIMINARY - NOT FOR CONSTRUCTION

ARE SHOWN BELOW SLAB U.N.O HIGH LEVEL UNLESS NOTES OTHERWIS



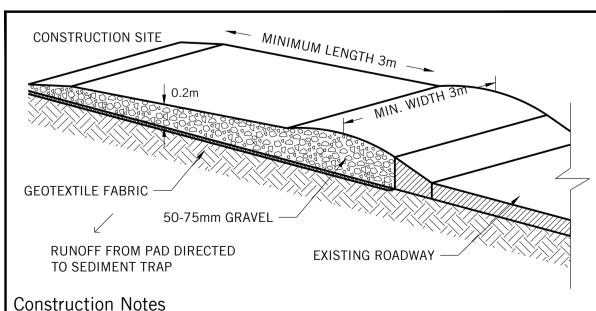




- 1. Place stockpiles more than 2 (preferably 5) metres from existing vegetation, concentrated water flow, roads and hazard areas.
- 2. Construct on the contour as low, flat, elongated mounds.
- 3. Where there is sufficient area, topsoil stockpiles shall be less than 2 metres in height. 4. Where they are to be in place for more than 10 days, stabilise following the approved ESCP or SWMP to reduce the C-factor to less than 0.10.
- 5. Construct earth banks (Standard Drawing 5-5) on the upslope side to divert water around stockpiles and sediment fences (Standard Drawing 6-8) 1 to 2 metres downslope.

STOCKPILES

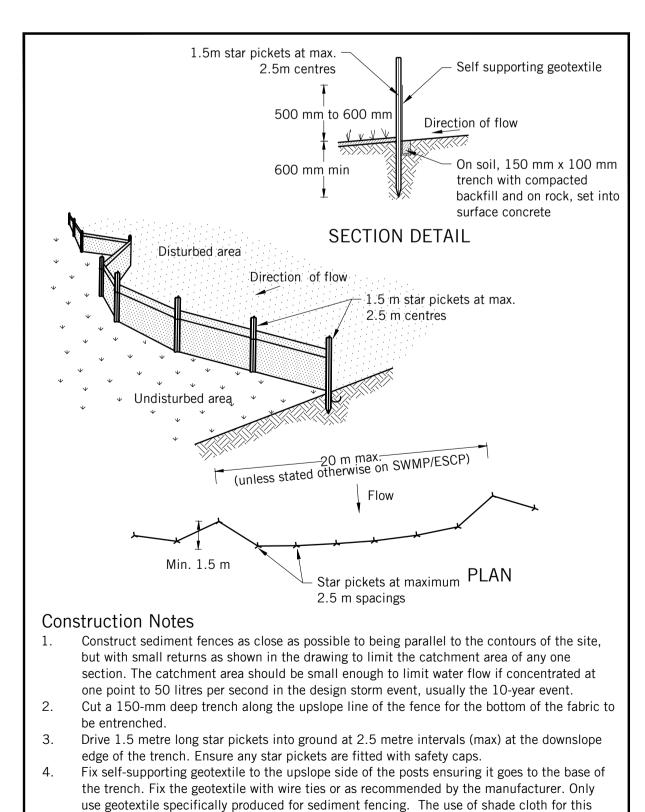
SD 4-1



- Strip the topsoil, level the site and compact the subgrade.
- Cover the area with needle-punched geotextile.
- Construct a 200 mm thick pad over the geotextile using road base or 30 mm aggregate.
- Ensure the structure is at least 15 metres long or to building alignment and at least 3 metres wide. Where a sediment fence joins onto the stabilised access, construct a hump in the stabilised access
- to divert water to the sediment fence.

STABILISED SITE ACCESS

SD 6-14



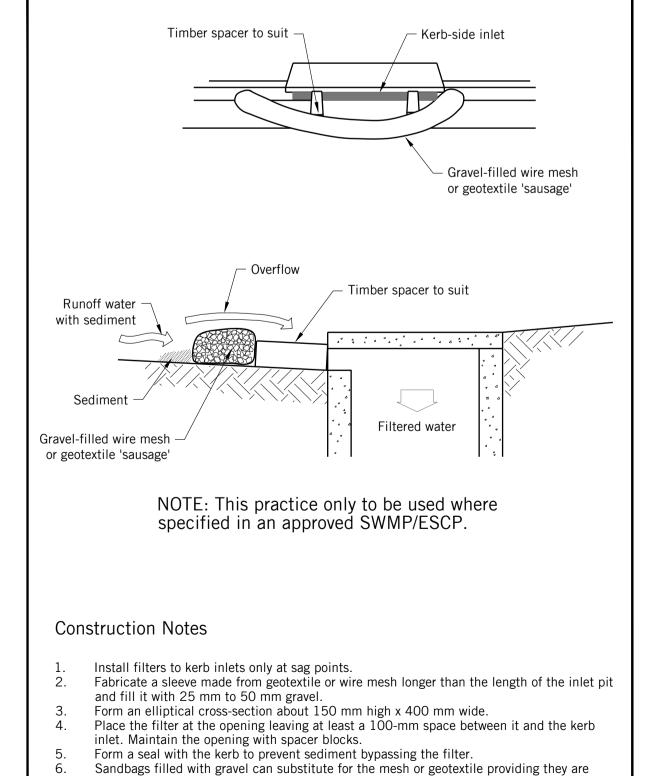
purpose is not satisfactory.

SEDIMENT FENCE

Join sections of fabric at a support post with a 150-mm overlap.

6. Backfill the trench over the base of the fabric and compact it thoroughly over the geotextile.

SD 6-8



placed so that they firmly abut each other and sediment-laden waters cannot pass

MESH AND GRAVEL INLET FILTER

- 1. MEASURES PROVIDED WILL BE TO THE SATISFACTION OF THE PRINCIPAL'S REPRESENTATIVE IN ACCORDANCE WITH THE LOCAL AND STATUTORY REQUIREMENTS UNLESS NOTED OTHERWISE. ALL WORKS SHALL BE ERECTED AND CONSTRUCTED IN ACCORDANCE WITH THE LATEST EDITIONS OF THE 'BLUE BOOK'- MANAGING URBAN STORMWATER (MUS): SOILS AND CONSTRUCTION, LANDCOM (VOL 1) AND DECCW (VOL 2) AND NORTHERN BEACHES COUNCIL'S DEVELOPMENT CONTROL PLAN (DCP).
- 2. ALL EXCAVATION WORKS ARE TO BE IN ACCORDANCE WITH THE GEOTECHNICAL REPORT, IF AVAILABLE, AND THE STRUCTURAL ENGINEER'S DRAWINGS.
- 3. INSTALL EROSION AND SEDIMENT CONTROL MEASURES PRIOR TO COMMENCEMENT OF CONSTRUCTION WORKS.

EROSION AND SEDIMENT CONTROL PLAN

- 4. MESH AND GRAVEL INLET FILTERS (SD 6-11) TO BE INSTALLED UPSTREAM OF PROPOSED STORMWATER PITS AS WELL AS EXISTING STORMWATER PITS DOWNSTREAM OF DISTURBED AREAS.
- 5. TOP SOIL WILL BE STRIPPED AND STOCKPILED (SD 4-1) FOR LATER USE IN LANDSCAPING.
- 6. ALL STOCKPILES TO BE CLEAR FROM DRAINS, GUTTERS AND FOOTPATHS.
- 7. TOP SOIL WILL BE RE SPREAD AND ALL DISTURBED AREAS WILL BE
- REHABILITATED WITHIN 20 WORKING DAYS OF THE COMPLETION OF WORKS. 8. ALL SEDIMENT TO BE STORED AND COLLECTED BY A LIQUID WASTE COMPANY
- FOR DISPOSAL AT A LICENSED TREATMENT FACILITY.
- 9. ROADS AND FOOTWAYS TO BE SWEPT AT THE END OF THE DAY.
- 10. ALL EROSION AND SEDIMENT CONTROLS WILL BE CHECKED AT LEAST WEEKLY
- AND AFTER RAINFALL EVENTS TO MAKE SURE THEY ARE MAINTAINED TO A FULLY FUNCTIONAL CONDITION.

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NEW RESIDENCE 41 & 43 BEACH ROAD

COLLAROY

STORMWATER DRAINAGE SERVICES **EROSION & SEDIMENT CONTROL** PLAN AND DETAILS

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SD 6-11 2019H0087 SWDA 1.5