# STORMWATER DRAINAGE CONCEPT 618 BARRENJOEY ROAD, AVALON

#### NOTES:

- 1. MAIN STORMWATER DRAINS SHALL FALL AS NOTED. HOWEVER, ALL OTHER BRANCH DRAINS SHALL HAVE A MINIMUM GRADE OF 1%.
- 2. STORMWATER DRAINS PIPES OF SIZE LESS THAN 300mm SHALL BE DWV GRADE PVC WITH SOLVENT CEMENT JOINTS.
- 3. PITS LOCATED IN DRIVEWAY AREAS SHALL BE EQUAL TO CI & D CAST IRON GRATES AND FRAMES - TYPE D
- 4. STORMWATER PITS TO LANDSCAPED AND PEDESTRIAN AREAS SHALL BE EQUAL TO CI & D CAST IRON GRATES AND FRAMES - TYPE
- 5. ALL WORKS SHALL BE CARRIED OUT TO THE REQUIREMENTS OF THE RELEVANT COUNCIL / AUTHORITY, AS 3500.3, AS 2032, AS 3996
- 6. AT THE COMPLETION OF THE WORKS PROVIDE A "WORK AS EXECUTED" PLAN OF THE STORMWATER DRAINAGE AND DETENTION SYSTEM. THE PLAN SHALL BE PREPARED AND CERTIFIED BY THE REGISTERED SURVEYOR AND SHOW ALL PIPE SIZES. INVERTS, PIT COVER AND BASE LEVELS AND ALL DETENTION TANK DIMENSIONS, SURFACE LEVELS AND THE ORIFICE PLATE SIZE.
- 7. PITS SHALL BE CI & D PRECAST CONCRETE OR APPROVED EQUAL WITH EXTENSION RISERS AS REQUIRED. PITS SHALL BE BEDDED ON A 50mm LAYER OF 4:1 CEMENT MORTAR AND BACKFILLED WITH EXCAVATED MATERIAL IN 200mm THICK COMPACTED LAYERS TO FINISHED SURFACE LEVEL.
- 8. COVERS TO PITS LOCATED WITHIN PAVED AREAS SHALL BE CAST IN WITH THE CONCRETE POUR. ALL OTHER PIT COVERS SHALL BE PROVIDED WITH A 150mm CONCRETE SURROUND.
- 9. PROVIDE 25mm DIAMETER GALVANIZED STEP-IRONS AT INTERVALS OF 300mm WHERE THE INTERNAL DEPTH OF THE PIT EXCEEDS

#### **DESIGN CRITERIA:**

TOTAL SITE AREA **IMPERVIOUS AREA** 237 m2 PERVIOUS AREA 44.60 m2

STORM INTENSITY USED 168 mm/hr - 5 MIN / 20 year storm

ON SITE DETENTION - OSD: IS REQUIRED TO COMPLY WITH NORTHERN

DETENTION AREA/ TO MEET NORTHERN BEACHES, COUNCIL CODE

**DETENTION VOLUME** AS PER NORTHERN BEACHES COUNCIL STORMWATER MANAGEMENT CODE.

RAINWATER REUSE TANK VOLUME 2,000 LITRES.

EXISTING SITE DISCHARGE IS BY INFILTRATION. INTERNAL DRAINAGE PIPE SIZING CALCULATIONS IS BASED ON THE INTENSITY FROM A 20 YEAR STORM EVENT.

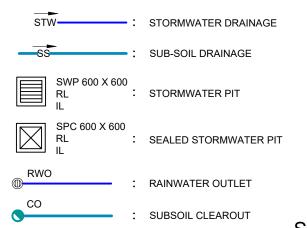
DOWNPIPE SIZING 150MM DIA OR 100 MM DIA AS NOMINATED.

NORTHERN BEACHES COUNCIL STORMWATER MANAGEMENT CODE USED AS BASIS FOR THE STORMWATER DESIGN

#### **CATCHMENT SCHEDULE:**

AREA No	AREA IN M2	SURFACE TYPE	IMPERVIOUS
1	8.8M2	GARDEN	N
2	3.78M2	PAVING	Υ
3	37.8M2	DRIVEWAY PAVEMENT	Υ
4	4.0M2	PAVEMENT	Υ
5	33.08M2	ROOF	Υ
6	6.6M2	GARDEN	N
7	11.5M2	GARDEN	N
8	109.5M2	ROOF	Y
9	12.2M2	ROOF	Υ
10	9.88M2	DECK	Υ
11	9.70M2	DECK	Y
12	11.80M2	SOAK AWAY	N
13	7.80M2	GRASS	N
14	9.88M2	GRASS	N

#### **LEGEND**



SITE LOCATION PLAN

: RELATIVE LEVEL

SSRM : SUB-SOIL RISING MAIN

100

: DOWNPIPE

Α

LINE SIZE REDUCER

: CONTOUR LINES

: BOUNDARY

: INVERT LEVEL

# DA APPROVAL

#### ARCHITECT:



contact@cristinagomes.com www.cristinagomes.com p. 80956253



SCALE: As indicated @ A3 | CLIENT:

PROJECT:

#2024062

618 BARRENJOEY RD **AVALON NSW 2107** 

**DRAWING TITLE:** 

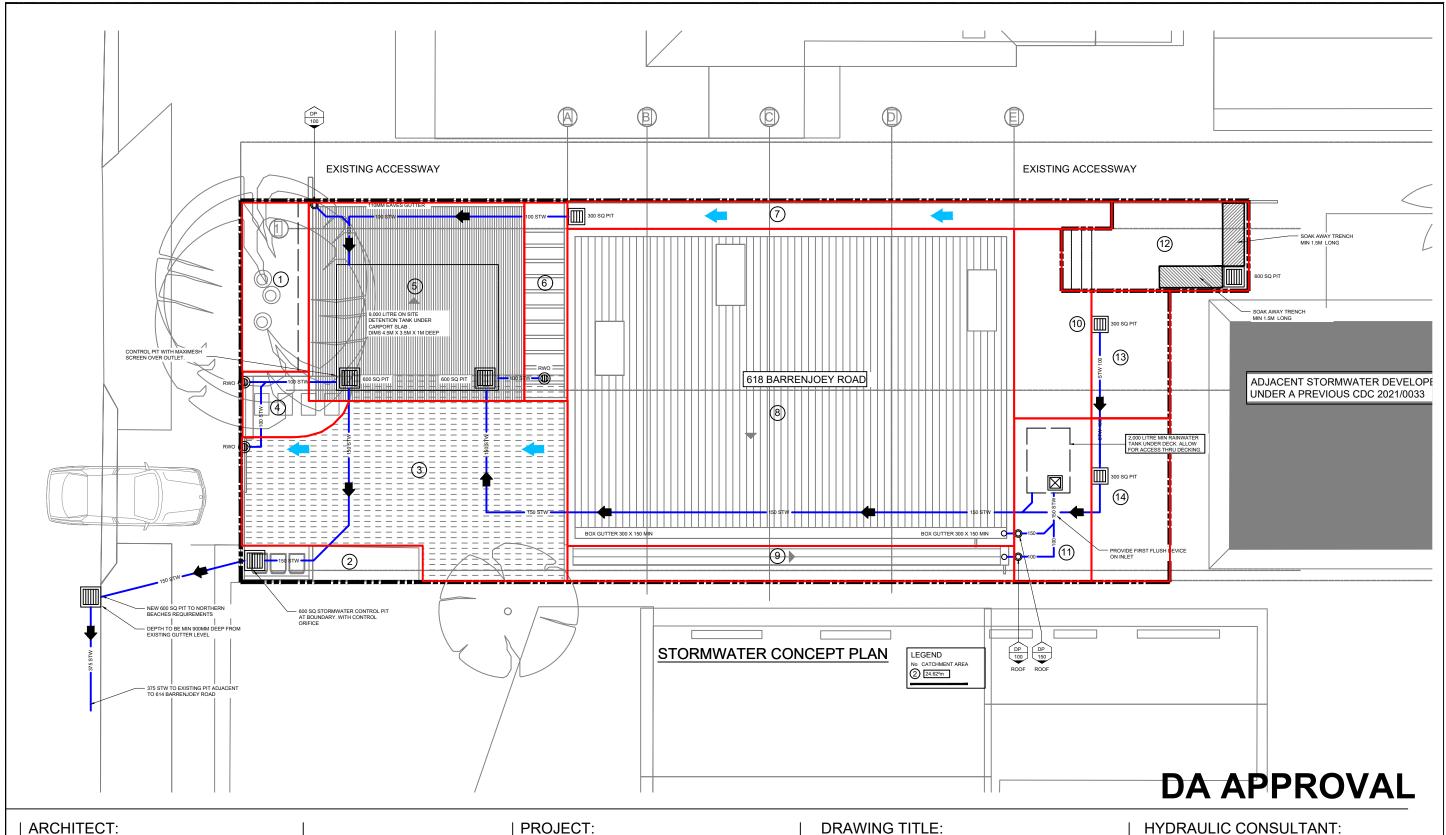
### **HYDRAULIC SERVICES COVER SHEET & NOTES**

SHEET NUMBER: REV: **STW-00** DATE: 10/06/2024

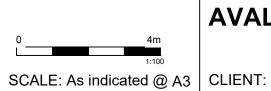
**HYDRAULIC CONSULTANT:** 



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PROJECT:

#2024062

**618 BARRENJOEY RD AVALON NSW 2107** 

**DRAWING TITLE:** 

# **PROPOSED PLAN HYDRAULIC SERVICES**

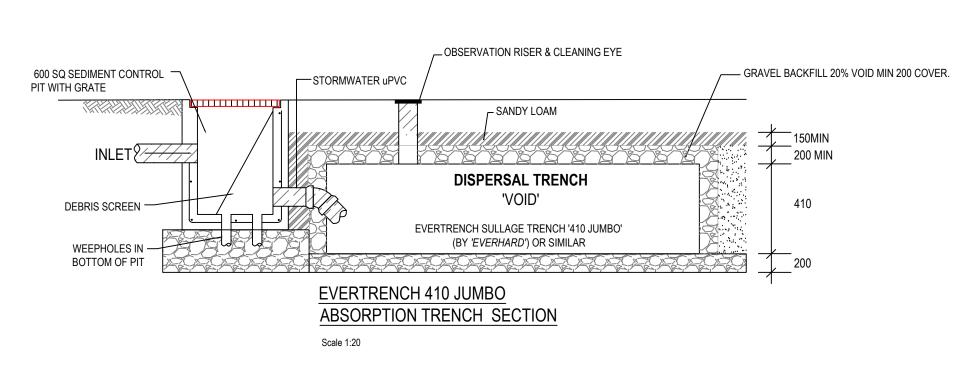
SHEET NUMBER: **STW-01** DATE: 10/06/2024



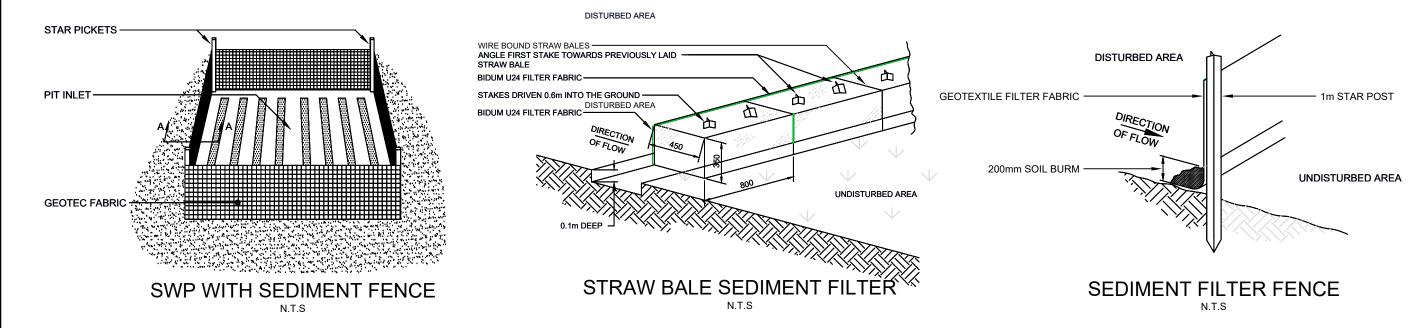
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### SEDIMENT AND EROSION CONTROL MEASURES



# **DA APPROVAL**





PROJECT: #2024062

618 BARRENJOEY RD **AVALON NSW 2107** 

DRAWING TITLE:

## **HYDRAULIC SERVICES DETAIL SHEET No 1**

SHEET NUMBER: REV: **STW-02** DATE: 10/06/2024

**HYDRAULIC CONSULTANT:** 



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