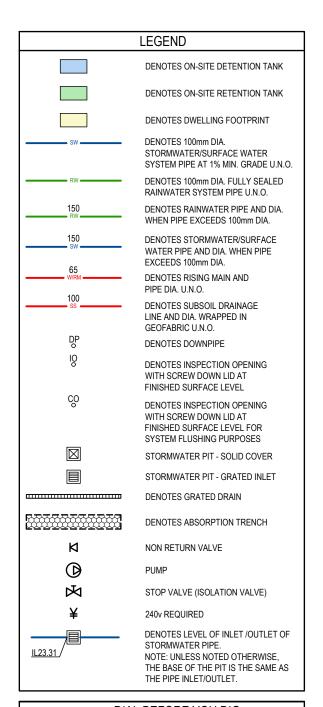
# PROPOSED DEVELOPMENT Lot 5 (No.985) PITTWATER ROAD, COLLAROY

# STORMWATER MANAGEMENT PLANS



### DIAL BEFORE YOU DIG



IMPORTANT: THE CONTRACTOR IS TO MAINTAIN A CURRENT SET OF "DIAL BEFORE YOU DIG" DRAWINGS ON SITE AT ALL

#### **GENERAL NOTES**

- THESE PLANS SHALL BE READ IN CONJUNCTION WITH OTHER RELEVANT CONSULTANTS' PLANS, SPECIFICATIONS, CONDITIONS OF DEVELOPMENT CONSENT AND CONSTRUCTION CERTIFICATE REQUIREMENTS WHERE DISCREPANCIES ARE FOUND ACOR CONSULTANTS (CC) MUST BE CONTACTED IMMEDIATELY FOR
- WHERE THESE PLANS ARE NOTED FOR DEVELOPMENT APPLICATION PURPOSES ONLY, THEY SHALL NOT BE USED FOR OBTAINING A CONSTRUCTION CERTIFICATE NOR USED FOR CONSTRUCTION
- SUBSOIL DRAINAGE SHALL BE DESIGNED AND DETAILED BY THE STRUCTURAL ENGINEER. SUBSOIL DRAINAGE SHALL NOT BE CONNECTED INTO THE STORMWATER SYSTEM IDENTIFIED ON THESE PLANS UNLESS APPROVED BY ACOR CONSULTANTS (CC)

#### STORMWATER CONSTRUCTION NOTES

- ALL WORK SHALL BE CARRIED OUT IN ACCORDANCE WITH AS/NZS 3500 (CURRENT EDITION) AND THE REQUIREMENTS OF THE LOCAL COUNCIL'S POLICIES AND CODES
- THE MINIMUM SIZES OF THE STORMWATER DRAINS SHALL NOT BE LESS THAN DN90 FOR CLASS 1 BUILDINGS AND DN100 FOR OTHER CLASSES OF BUILDING OR AS REQUIRED BY THE REGULATORY
- THE MINIMUM GRADIENT OF STORMWATER DRAINS SHALL BE 1%,
- COUNCIL'S TREE PRESERVATION ORDER IS TO BE STRICTLY ADHERED TO. NO TREES SHALL BE REMOVED UNTIL PERMIT IS
- PUBLIC UTILITY SERVICES ARE TO BE ADJUSTED AS NECESSARY AT THE CLIENT'S EXPENSE
- ALL PITS TO BE BENCHED AND STREAMLINED. PROVIDE STEP IRONS FOR ALL PITS OVER 1.2m DEEP
- MAKE SMOOTH JUNCTION WITH ALL EXISTING WORK
- VEHICULAR ACCESS AND ALL SERVICES TO BE MAINTAINED AT ALL TIMES TO ADJOINING PROPERTIES AFFECTED BY CONSTRUCTION
- SERVICES SHOWN ON THESE PLANS HAVE BEEN LOCATED FROM INFORMATION SUPPLIED BY THE RELEVANT AUTHORITIES AND FIELD INVESTIGATIONS AND ARE NOT GUARANTEED COMPLETE NOR CORRECT. IT IS THE CLIENT & CONTRACTOR'S RESPONSIBILITY TO LOCATE ALL PRIOR TO CONSTRUCTION
- ANY VARIATION TO THE WORKS AS SHOWN ON THE APPROVED DRAWINGS ARE TO BE CONFIRMED BY ACOR CONSULTANTS (CC) PRIOR TO THEIR COMMENCEMENT

#### RAINWATER RE-USE SYSTEM NOTES

- RAINWATER SUPPLY PLUMBING TO BE CONNECTED TO OUTLETS WHERE REQUIRED BY BASIX CERTIFICATE (BY OTHERS)
- TOWN WATER CONNECTION TO RAINWATER TANK TO BE TO THE SATISFACTION OF THE REGULATORY AUTHORITY. THIS MAY REQUIRE PROVISION OF
  - PERMANENT AIR GAR
- BACKFLOW PREVENTION DEVICE
- NO DIRECT CONNECTION BETWEEN TOWN WATER SUPPLY AND THE
- AN APPROVED STOP VALVE AND/OR PRESSURE LIMITING VALVE AT
- PROVIDE APPROPRIATE FLOAT VALVES AND/OR SOLENOID VALVES TO CONTROL TOWN WATER SUPPLY INLET TO TANK IN ORDER TO ACHIEVE THE TOP-UP INDICATED ON THE TYPICAL DETAIL
- ALL PLUMBING WORKS ARE TO BE CARRIED OUT BY LICENSED PLUMBERS IN ACCORDANCE WITH AS/NZS3500.1 NATIONAL PLUMBING
- PRESSURE PUMP ELECTRICAL CONNECTION TO BE CARRIED OUT BY
- ONLY ROOF RUN-OFF IS TO BE DIRECTED TO THE RAINWATER TANK SURFACE WATER INLETS ARE NOT TO BE CONNECTED
- PIPE MATERIALS FOR RAINWATER SUPPLY PLUMBING ARE TO BE APPROVED MATERIALS TO AS/NZS3500 PART 1 SECTION 2 AND TO BE CLEARLY AND PERMANENTLY IDENTIFIED AS 'RAINWATER'. THIS MAY BE ACHIEVED FOR BELOW GROUND PIPES USING IDENTIFICATION TAPE (MADE IN ACCORDANCE WITH AS2648) OR FOR ABOVE GROUND PIPES BY USING ADHESIVE PIPE MARKERS (MADE IN ACCORDANCE
- 10. EVERY RAINWATER SUPPLY OUTLET POINT AND THE RAINWATER TANK ARE TO BE I ABEI ED 'RAINWATER' ON A METALLIC SIGN IN ACCORDANCE WITH AS1319
- 11. ALL INLETS AND OUTLETS TO THE RAINWATER TANK ARE TO HAVE SUITABLE MEASURES PROVIDED TO PREVENT MOSQUITO AND

## SHEET INDEX

**COVER SHEET & NOTES** SHEET C1 STORMWATER MANAGEMENT PLAN SHEET C2

STORMWATER MANAGEMENT DETAILS SHEET No.1 SHEET C3

ON SITE DETENTION CHECKLIST SHEET C4

#### NORTHERN BEACHES COUNCIL WARRINGAH COUNCIL REQUIREMENTS

- REFER TO WARRINGAH COUNCIL CHECKLIST ON SHEET C4
- PROVIDE MINIMUM 3,000 LITRE RAINWATER RE-USE TANK IN ACCORDANCE WITH BASIX CERTIFICATE. WE NOTE 5,000 LITRES HAS BEEN PROVIDED.
- ON SITE DETENTION IS NOTE REQUIRED AS THE PROPOSED IMPERVIOUS AREA IS <40% OF THE SITE AREA. REFER TO SHEET C4 'ON SITE DETENTION CHECKLIST

DESIGN PREPARED IN ACCORDANCE WITH WARRINGAH COUNCIL'S ON-SITE STORMWATER DETENTION TECHNICAL SPECIFICATION, AR&R AND AS/NZS

> DEVELOPMENT APPLICATION ISSUE NOT FOR CONSTRUCTION

OCPYRIGHT of this design and plan is the property of ACOR Consultants (CC) Pty Ltd, ACN 127 012 104 ATF The ACOR (CC) Unit Trust ABN 81 392 991 647, all rights reserved. It must not be used, modifier

This drawing has been assigned an electronic code that signifies the drawing has been checked and approved by: MR MICHAEL GOODWIN MIFAust CPEng NFR ISSUED FOR DEVELOPMENT APPROVAL

**TULLIPAN HOMES** PTY LTD



ACOR Consultants (CC) Ptv Ltd Platinum Building, Suite 2.01, 4 Ilya Avenue ERINA NSW 2250, Australia

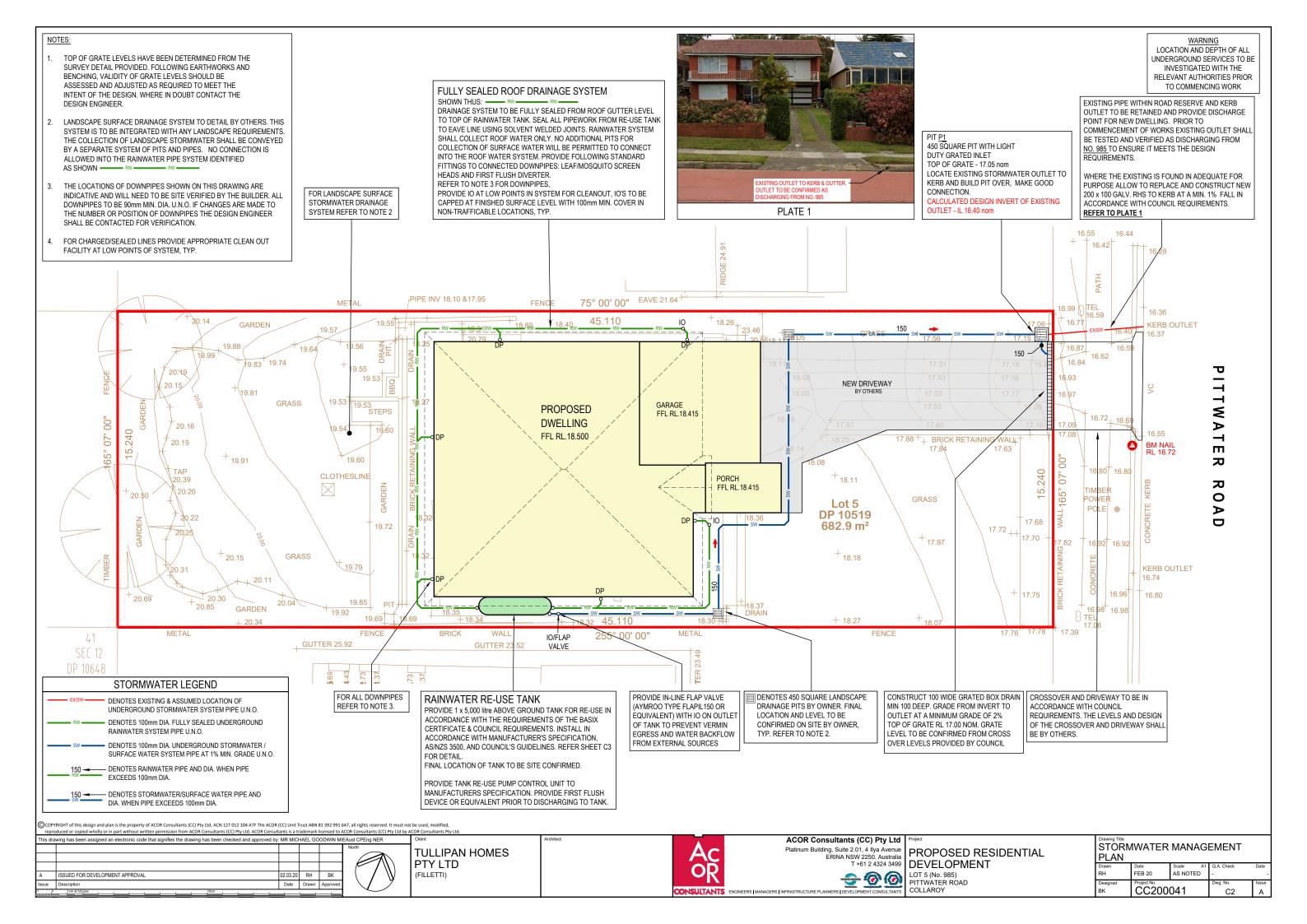


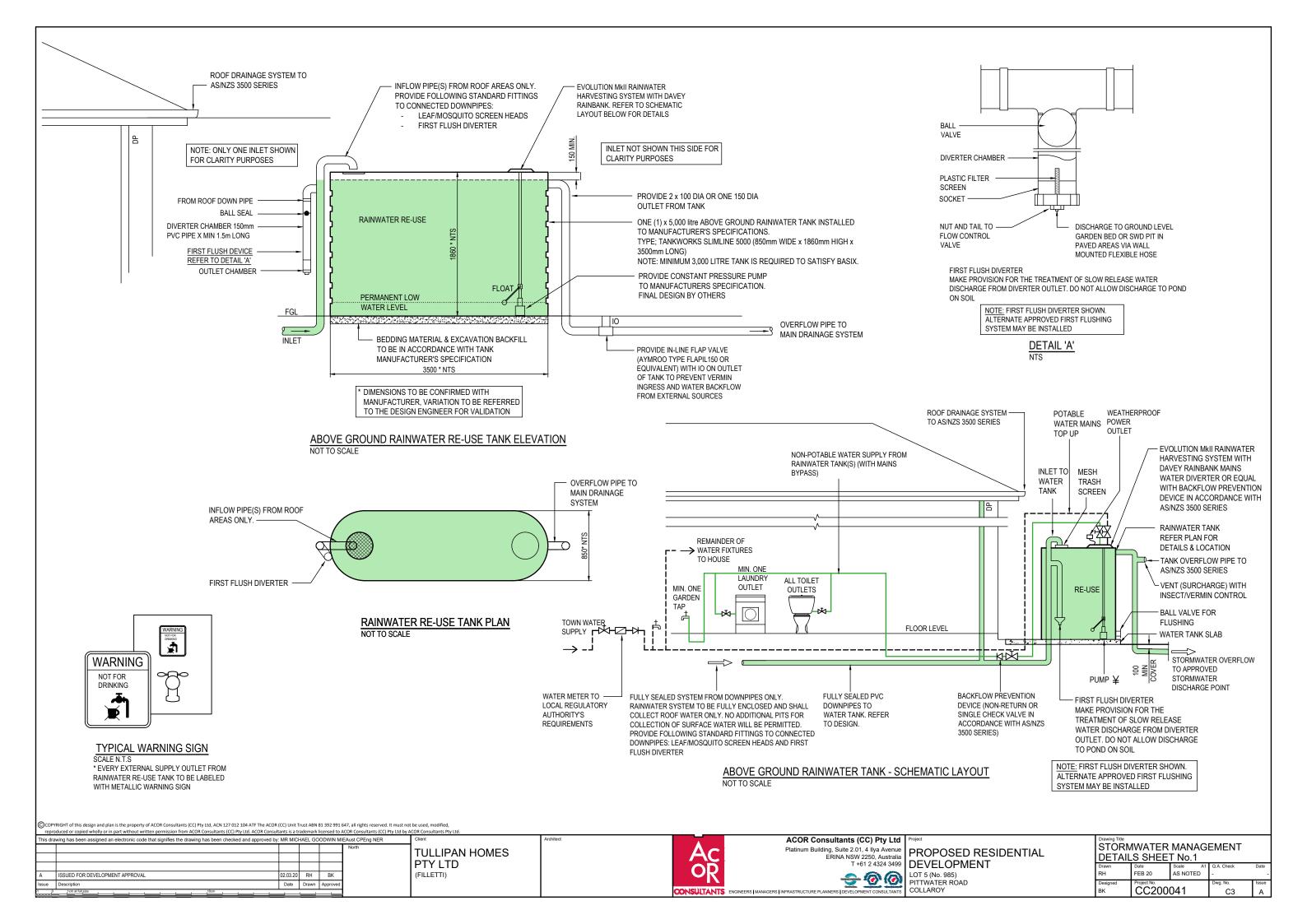
PROPOSED RESIDENTIAL T +61 2 4324 3499 | DEVELOPMENT

PITTWATER ROAD

**COVER SHEET & NOTES** FEB 20 AS NOTED

CC200041







## On-site Stormwater Detention (OSD) Checklist

For Single Dwelling Residential Developments

This form is to be used to determine if OSD will be required for demolition and reconstruction, or construction of new single dwelling residential developments and must be completed and included with the submission of any development application for these works. Please read both sides of this form carefully for its applications, guidelines and definitions.

For assistance and support, please contact Council's Customer Service Centre on (02) 9942 2111.

Address of Proposed Development	
Address of proposed development	Lot 5 DP (if applicable) 10519  No. 985 Street PITTWATER ROAD  Suburb COLLAROY
PART 1 Exemption for properties that drain naturally away from the street	
Tick one only	Does the site fall naturally away from the street?
	Yes No V
	If yes, stormwater drainage must be in accordance with Council's Policy No. PDS-POL 136 'Stormwater Drainage from Low Level Properties'.
T-002-1004-200-417-1	If no, proceed to the next part.
PART 2 Is the site area less than 450m <sup>2</sup>	
Tick one only	Yes No V
	If yes, OSD is not required.
400.00	If no, proceed to next part.
PART 3 Exemption for Direct Discharge to Ocean	
Tick one only	Does the site of the development drain directly to the ocean without the need to pass through a drainage control structure such as a pipe, bridge, culvert, kerb and gutter or natural drainage system?
	Yes No V
	If yes, OSD is not required,
	If no, proceed to the next part.

PART 4 Exemption for Flood Affected Areas		
Tick one only	Is the site of the development located within an established Flood Prone Land as referred to in the Warringah Local Environmental Plan?  Refer to section 2.6 of Council's OSD Technical Specification.	
	Yes No M	
	If yes, OSD is not required.	
	If no, proceed to the next part.	
PART 5 Determination of OSD Requirements		
3.1 Calculations	(a) Site area 682.9 m <sup>2</sup> x 0.40 = 273 m <sup>2</sup>	
:	(b) Proposed and remaining impervious area 271 m²	
Please view below examples	OSD will not be required when (a) is greater than (b)	
	Is OSD required for this development (tick one only)  Yes  No	
	If yes, then a design in accordance with the Streamlined Method in Council's OSD Technical Specification is to be provided with the Development Application (refer to Clause 3.1.1)	
	If no, OSD is not required.	
3.2 Example	If the proposed combined impervious area is greater than 40% of the site area, then OSD is required.	
	Example 1: Site Area = 600m <sup>2</sup> Total proposed & remaining impervious area = 290m <sup>2</sup>	
	600 x 0.4 = 240m <sup>2</sup> (290 > 240) OSD required	
	Example 2: Site Area = 800m <sup>2</sup> Total proposed & remaining impervious area = 290m <sup>2</sup>	
	800 x 0.4 = 320m <sup>2</sup> (290 < 320) OSD is not required	
DEFINITIONS		
Designed to help you fill out this application	Site area: This refers to the area of the land bounded by its existing or proposed boundaries.	
	Impervious areas: This refers to driveways, pathways, paved areas, hardstand areas, roofed areas, garages and outbuildings that are proposed and to be retained.	
	Where an existing structure is to be demolished to make way for a new dwelling, only the proposed impervious areas and remaining impervious areas are to be used in the calculations. No credit is given for existing impervious areas that are not retained.	
NOTES		
Please read before filling out this form	Other works, ancillary buildings, commercial, industrial, subdivisions and multiple occupancy developments are to comply with Council's OSD Technical Specification.	
	A reduction in the OSD volume required may be permitted. Refer to Council's "OSD Rainwater Re-use Policy for Single Residential Dwellings". If OSD is required, then a design for OSD in accordance with Council's "OSD Technical Specifications" is to be provided with the development application.	

For assistance and support, please contact Council's Customer Service Centre on (02) 9942 2111

**TULLIPAN HOMES** PTY LTD (FILLETTI)



Platinum Building, Suite 2.01, 4 llya Avenue
ERINA NSW 2250, Australia
T +61 2 4324 3499

PROPOSED RESIDENTIAL
DEVELOPMENT

ON SITE DETENTION CHECKLIST AS NOTED FEB 20

CC200041