CONCEPT STORMWATER MANAGEMENT PLANS PROPOSED NEW RESIDENTIAL DEVELOPMENT LOT 26, PROPOSED ROAD, WARRIEWOOD NSW 2102

	LEGEND
Ħ	GRATED INLET PIT
450×450	450mm SQUARE INTERNAL
GRT 75.54	GRATE LEVEL = RL 75.54
IL 75.12	INVERT LEVEL = RL 75.12
∘ I□	INSPECTION OPENING CAP
• DP	PROPOSED DOWNPIPE 90mm dia or 100mm x 50mm RECTANGULAR UNO
	EXISTING TREE
	GRATED TRENCH DRAIN
\mathbb{D}_{100}^{BO}	GRATED ROUND OUTLET 100mm DIAMETER
र र	PROPOSED DOWNPIPE SPREADER
(I)	STRUCTURE No 1 (FOR HYDRAULIC CALCS)
	STORMWATER DRAINAGE
_ · _ · _	100 DIA CHARGED/1% MIN ROOF AREA ONLY UNO

NORTHERN BEACHES COUNCIL-STORMWATER MANAGEMENT DESIGN REQUIREMENTS

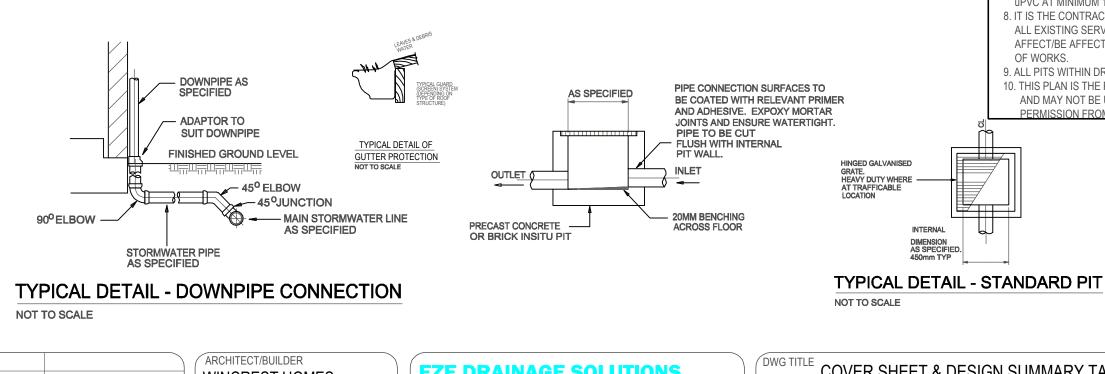
DESIGN CODE: NORTHERN BEACHES COUNCIL- STORMWATER MANAGEMENT CODE.

PROPOSED DEVELOPMENT: NEW SINGLE DWELLING DEVELOPMENT. SITE AREA = 271.06m2

COMMUNITY OSD BASIN BUILT AS PART OF RECENT SUBDIVISION. REFER TO 88B INSTRUMENT

THEREFORE COLLECT NEW ROOF AREA OF DWELLING AND DISCHARGE INTO 4030 LITRE BASIX RAINWATER TANK WITH THE OVERFLOW AND DRIVEWAY RUNOFF DISCHARGING TO THE KERB & GUTTER ON BUBALO STREET(PROPOSED ROAD).

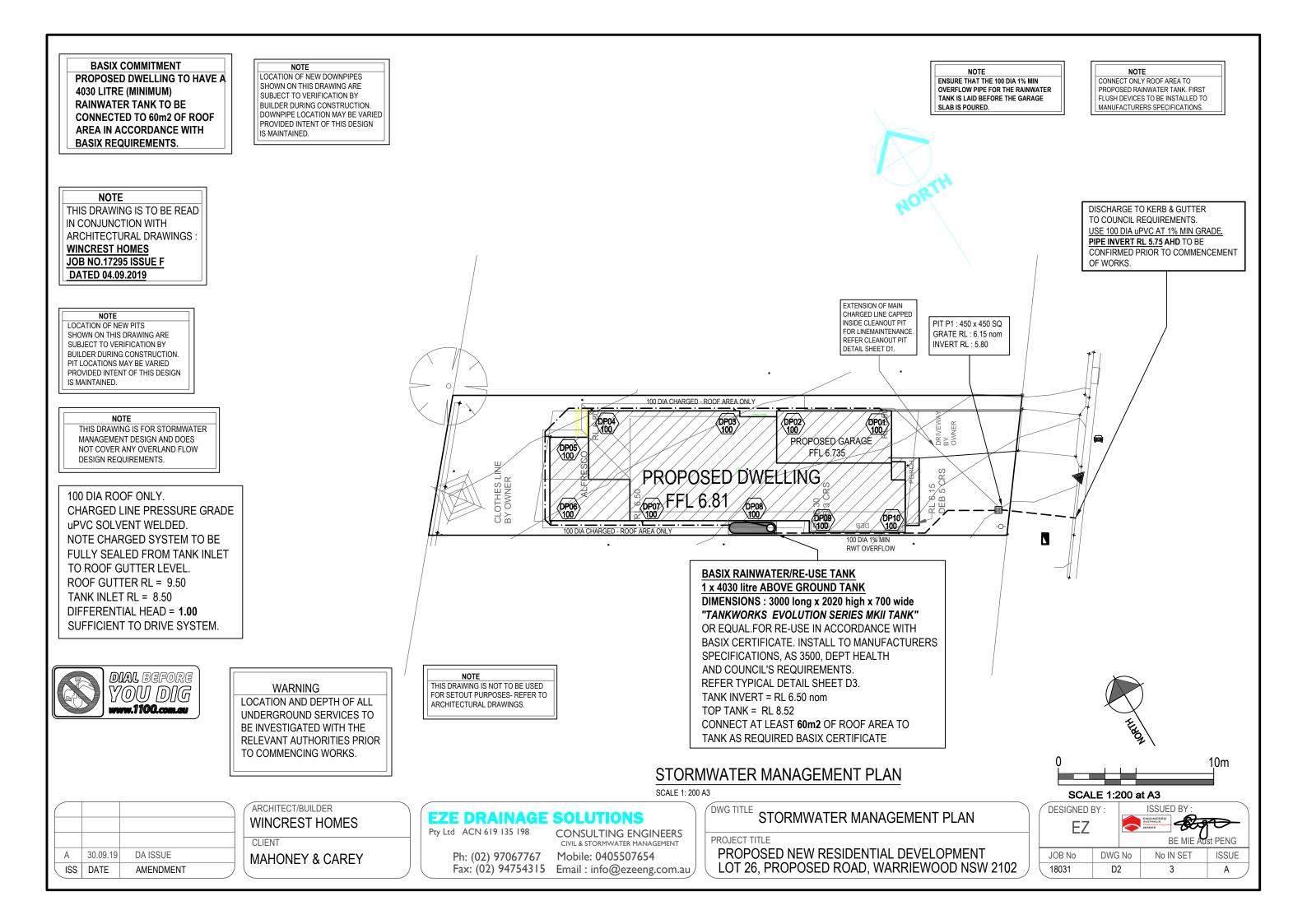
DESIGN BASED ON AR & R, AS3500 & RELEVANT STORMWATER MANAGEMENT CODE.



	ARCHITECT/BUILDER WINCREST HOMES	EZE DRAINAGE SOLUTIONS Pty Ltd ACN 619 135 198 CONSULTING ENGINEERS	DWG TITLE COVER SHEET & DESIGN SUMMARY T
A 30.09.19 DA ISSUE ISS DATE AMENDMENT	CLIENT MAHONEY & CAREY	Ph: (02) 97067767 Mobile: 0405507654 Fax: (02) 94754315 Email : info@ezeeng.com.au	PROJECT TITLE PROPOSED NEW RESIDENTIAL DEVELOPMENT LOT 26, PROPOSED ROAD, WARRIEWOOD NSW

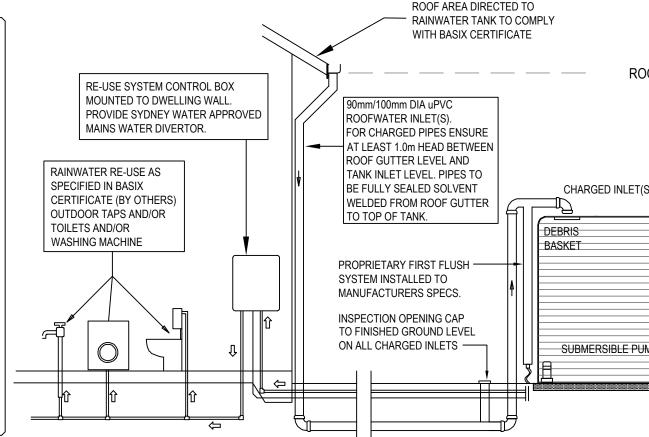
GENERAL NOTES

1. FINAL LOCATION OF NEW DOWNPIPES TO BE DETERMINED BY BUILDER/ARCHITECT AT TIME OF CONSTRUCTION. 2. THESE DRAWINGS TO BE READ IN CONJUNCTION WITH ARCHITECTS AND OTHER CONSULTANTS DRAWINGS. ANY DISCREPANCIES TO BE REFERRED TO THE ENGINEER BEFORE PROCEEDING WITH WORK 3. ALL MATERIALS AND WORKMANSHIP TO BE IN ACCORDANCE WITH AS/NZS 3500.3:2003 STORMWATER DRAINAGE. BCA AND LOCAL COUNCIL POLICY/CONSENT/REQUIREMENTS. 4. ALL DIMENSIONS AND LEVELS TO BE VERIFIED BY BUILDER ON-SITE PRIOR TO COMMENCEMENT OF WORKS. THESE DRAWINGS ARE NOT TO BE SCALED FOR DIMENSIONS NOR TO BE USED FOR SETOUT PURPOSES. 5. ALL SURVEY INFORMATION AND PROPOSED BUILDING AND FINISHED SURFACE LEVELS SHOWN IN THESE DRAWINGS ARE BASED ON LEVELS OBTAINED FROM DRAWINGS BY OTHERS. 6. THESE DRAWINGS DEPICT THE DESIGN OF SURFACE STORMWATER RUNOFF DRAINAGE SYSTEMS ONLY AND DO NOT DEPICT ROOF DRAINAGE OR SUBSOIL DRAINAGE SYSTEMS UNLESS NOTED OTHERWISE. THE DESIGN OF ROOF AND SUBSOIL DRAINAGE SYSTEMS IS THE RESPONSIBILITY OF OTHERS. 7. ALL STORMWATER DRAINAGE PIPES ARE TO BE 100mm DIAMETER uPVC AT MINIMUM 1% GRADE UNLESS NOTED OTHERWISE. 8. IT IS THE CONTRACTORS RESPONSIBILITY TO LOCATE AND LEVEL ALL EXISTING SERVICES OR OTHER STRUCTURES WHICH MAY AFFECT/BE AFFECTED BY THIS DESIGN PRIOR TO COMMENCEMENT 9. ALL PITS WITHIN DRIVEWAYS TO BE 150mm THICK CONCRETE OR EQUAL. 10. THIS PLAN IS THE PROPERTY OF EZE DRAINAGE SOLUTIONS PTY LTD AND MAY NOT BE USED OR REPRODUCED WITHOUT WRITTEN PERMISSION FROM EZE DRAINAGE SOLUTIONS PTV LTC 100 DIA. SEWER GRADE TYPICAL DETAIL - CHARGED SYSTEM CLEANOUT PIT NOT TO SCALE ISSUED BY DESIGNED BY TABLE -ΕZ BE MIE PENG JOB No ISSUE DWG No No IN SET SW 2102 18031 D1 А 3

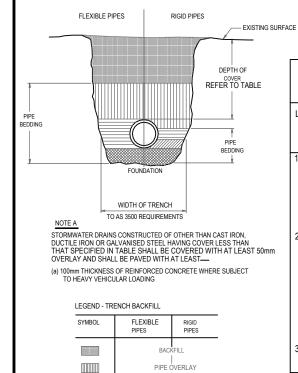


RAINWATER RE-USE SYSTEM NOTES

- 1. TOWNWATER CONNECTION TO RAINWATER TANK TO BE TO THE SATISFACTION OF SYDNEY WATER. THIS MAY REQUIRE PROVISION OF: a. PERMANENT AIR GAP.
 - b. A BACKFLOW PREVENTION DEVICE.
 - c. NO DIRECT CONNECTION BETWEEN TOWN WATER SUPPLY AND THE RAIN WATER SUPPLY.
 - d. AN APPROVED STOP VALVE AND/OR PRESSURE LIMITING VALVE AT THE RAINWATER TANK.
- 2. PROVIDE AT LEAST ONE (1) EXTERNAL HOSE COCK ON THE TOWN WATER SUPPLY FOR FIRE FIGHTING.
- 3. PROVIDE APPROPRIATE FLOAT VALVES AND/OR SOLENOID VALVES
- 4. ALL PLUMBING WORKS ARE TO BE CARRIED OUT BY LICENSED PLUMBERS IN ACCORDANCE WITH AS3500.1 NATIONAL PLUMBING AND DRAINAGE CODE. 5. PRESSURE PUMP ELECTRICAL CONNECTION TO BE CARRIED OUT
- BY LICENSED ELECTRICIAN.
- 6. 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 3500 PART 1 SECTION 2 AND TO BE CLEARLY AND PERMANENTLY IDENTIFIED "RAINWATER". THIS MAY BE ACHIEVED FOR BELOW GROUND PIPES USING IDENTIFICATION TAPE (MADE IN ACCORDANCE WITH AS 2648) OR FOR ABOVE GROUND PIPES BY USING ADHESIVE PIPE MARKERS (MADE IN ACCORDANCE WITH AS1345).
- 8. EVERY RAINWATER SUPPLY OUTLET POINT AND THE RAINWATER TANK ARE TO BE LABELLED "RAINWATER" ON A METALLIC SIGN IN ACCORDANCE WITH AS 1319.
- ALL INLETS AND OUTLETS TO THE RAINWATER TANK ARE TO HAVE 9. SUITABLE MEASURES PROVIDED TO PREVENT MOSQUITO AND VERMIN ENTRY.
- 10. SYSTEM TO COMPLY WITH SYDNEY WATER REQUIREMENTS AND ANY CONDITIONS OF LOCAL COUNCIL DEVELOPMENT CONSENT.



TYPICAL DETAIL - RAINWATER RE-USE TANK



PIPE SIDE SUPPORT

PIPE UNDERLAY

SIDE ZONE

HAUNCH ZONE

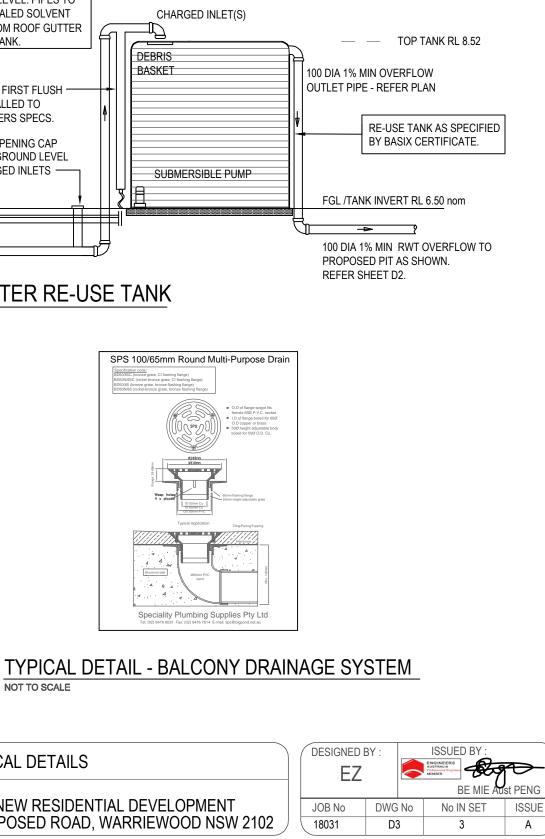
BED ZONE

(I ROM I INISITED SORI ACE TO			
LOCATION	MINIMUM COVER (mm)		
	CAST/DUCTILE IRON	OTHER	
	GAL STEEL	AUTHORISED	
		PRODUCTS (*)	
1. NOT SUBJECT TO VEHICULAR LOADING:		11(000010()	
A. WITHOUT PAVEMENT:			
i. FOR SINGLE DWELLINGS -	0	100	
ii. OTHER THAN SINGLE DWELLINGS -	0	300	
B. WITH PAVEMENT OF			
BRICK/UNREINFORCED CONCRETE -	0 (**)	50 (**)	
		()	
2. SUBJECT TO VEHICULAR LOADING:			
A. OTHER THAN ROADS:			
i. WITHOUT PAVEMENT -	300	450	
	300	400	
ii. WITH PAVEMENT OF:			
 REINF. CONC. FOR HEAVY VEHICLES - 	0 (** #)	100 (** #)	
- BRICK/UNREINF. CONC LIGHT VEHICLES -	0 (** #)	75 (** #)	
B. ROADS			
i. SEALED	300	500 (#)	
ii. UNSEALED	300	500 (#)	
II. ONOLALLED	0000	000 (#)	
3. SUBJECT TO CONSTRUCTION VEHICLES OR			
IN EMBANKMENT CONDITIONS	300	500 (#)	
	1	1	
(*) INCLUDES OVERLAY ABOVE THE TOP OF THE F	PIPE OF NOT LESS TH	AN 50mm THICK	
(**) BELOW THE UNDERSIDE OF THE PAVEMENT			
(#) SUBJECT TO COMPLIANCE WITH AS1762, AS20	33, AS/NZS 2566.1, AS	3725 OR AS 4060	

MINIMUM PIPE COVER

(FROM FINISHED SURFACE TO TOP OF PIPE)

NOT TO SCALE



NOT TO SCALE

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A 30.09.19 DA ISSUE ISS DATE AMENDMENT	CLIENT MAHONEY & CAREY	Pty Ltd ACN 619 135 198 CONSULTING ENGINEERS CIVIL & STORMWATER MANAGEMENT Ph: (02) 97067767 Mobile: 0405507654 Fax: (02) 94754315 Email : info@ezeeng.com.au	PROJECT TITLE PROPOSED NEW RESIDENTIAL DEVELOPMENT LOT 26, PROPOSED ROAD, WARRIEWOOD NSW 21

ROOF GUTTERS RL VARIES - REFER SHEET D2