# CONCEPT STORMWATER MANAGEMENT PLANS PROPOSED NEW RESIDENTIAL DEVELOPMENT LOT 2, No.128 ELANORA ROAD, ELANORA HEIGHTS NSW 2101

	LEGEND	
⊞	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 ठ	PROPOSED DOWNPIPE SPREADER	
SI	STRUCTURE No 1 (FOR HYDRAULIC CALCS)	
	STORMWATER DRAINAGE	
<b>_ · _ · _</b>	100 DIA CHARGED/1% MIN - ROOF AREA ONLY	

## NORTHERN BEACHES COUNCIL-STORMWATER MANAGEMENT REQUIREMENTS.

DESIGN CODE: PITTWATER COUNCIL STORMWATER MANAGEMENT CODE

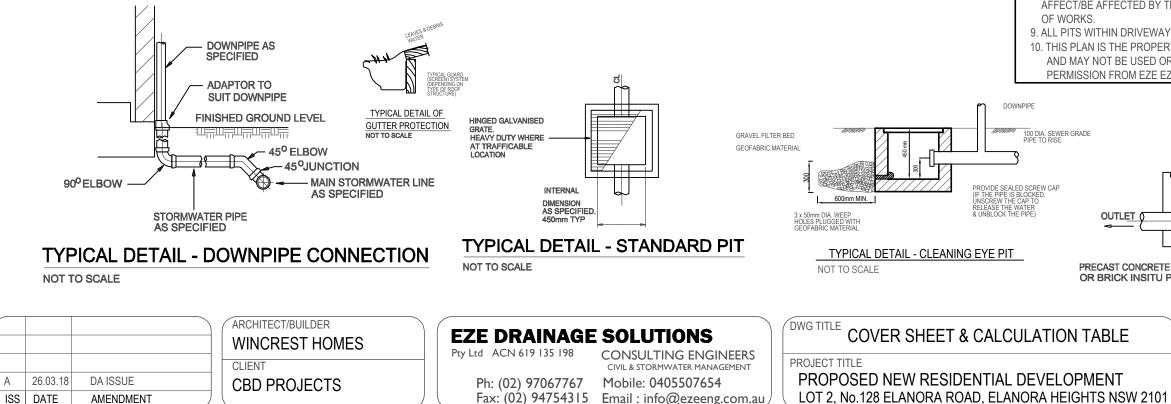
COUNCIL DESIGN CODE:

PROPOSED NEW RESIDENTIAL DEVELOPMENT WHICH FORMS PART OF A RECENT APPROVED SUBDIVISION. CONDITIONS OF CONSENT IMPOSED REQUIRE AN INTERALLOTMENT PIPED DRAINAGE EASEMENT TO BE CONSTRUCTED AND ANY FUTURE DEVELOPMENT TO CONNECT INTO THIS PIPED SYSTEM.

SITE AREA: 702 m2

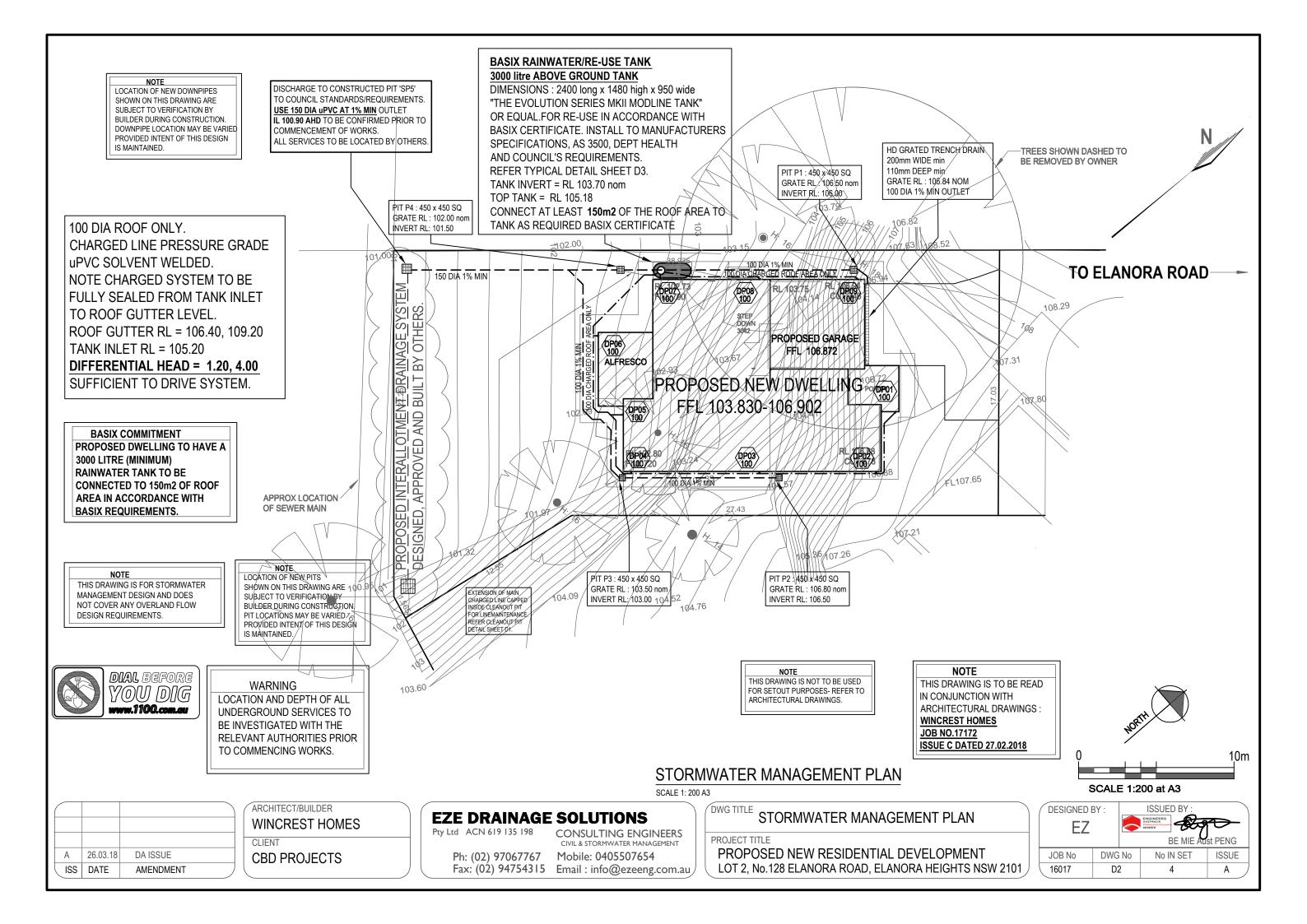
THEREFORE COLLECT NEW ROOF AREA OF PROPOSED DWELLING AND DISCHARGE INTO THE BASIX RAINWATER TANK BEING OF 3000 LITRES CAPACITY WITH THE OVERFLOW AND DRIVEWAY RUNOFF INCLUDING ANY SURROUNDING IMPERVIOUS & PERVIOUS SURFACES ALL BEING CONNECTED INTO THE INTERLLOTMENT PIPED DRAINAGE SYSTEM IDENTIFIED AS PIT SP5.

DESIGNED BASED ON AR & R, AS 3500 & COUNCIL STORMWATER MANAGEMENT CODE.



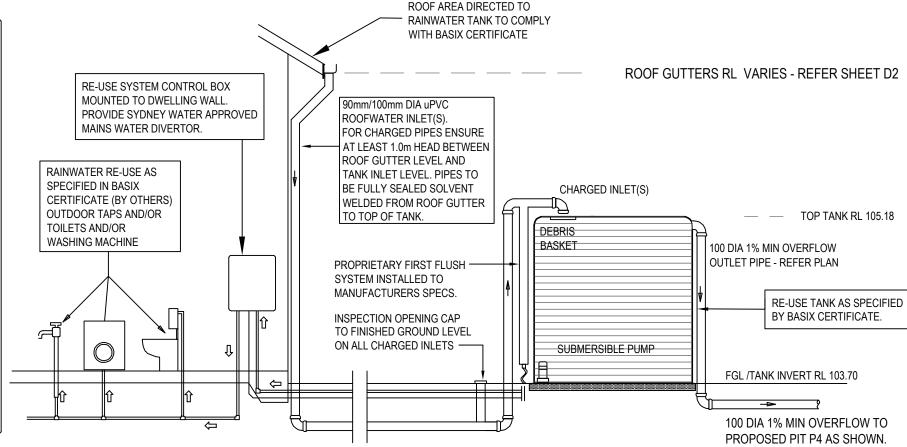
# GENERAL NOTES

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 EZE DRAINAGE SOLUTIONS PTY LTD. PIPE CONNECTION SURFACES TO AS SPECIFIED BE COATED WITH RELEVANT PRIME AND ADHESIVE. EXPOXY MORTAR JOINTS AND ENSURE WATERTIGHT PIPE TO BE CUT FLUSH WITH INTERNAL PIT WALL. INLET 20MM BENCHING ACROSS FLOOR **OR BRICK INSITU PIT** ISSUED BY DESIGNED BY - Stor ΕZ **BE MIE** PENG JOB No ISSUE DWG No No IN SET 16017 D1 А 4

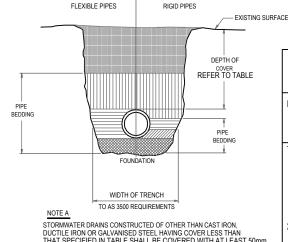


### **RAINWATER RE-USE SYSTEM NOTES**

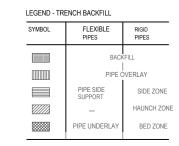
- 1. TOWNWATER CONNECTION TO RAINWATER TANK TO BE TO THE SATISFACTION OF SYDNEY WATER. THIS MAY REQUIRE PROVISION OF: a. PERMANENT AIR GAP.
  - b. A BACKFLOW PREVENTION DEVICE.
  - c. NO DIRECT CONNECTION BETWEEN TOWN WATER SUPPLY AND THE RAIN WATER SUPPLY.
  - d. AN APPROVED STOP VALVE AND/OR PRESSURE 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** NOT TO SCALE



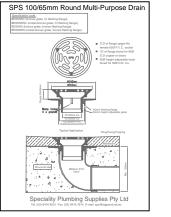
DUCTILE IRON OR GALVANISED STEEL HAVING COVER LESS THAN THAT SPECIFIED IN TABLE SHALL BE COVERED WITH AT LEAST 50mm OVERLAY AND SHALL BE PAVED WITH AT LEAST-(a) 100mm THICKNESS OF REINFORCED CONCRETE WHERE SUBJECT TO HEAVY VEHICULAR LOADING

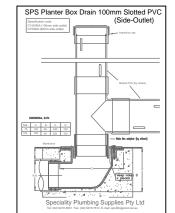


LOCATION	MINIMUM COVER (mm)			
	CAST/DUCTILE IRON	OTHER		
	GAL STEEL	AUTHORISED		
		PRODUCTS (*)		
1. NOT SUBJECT TO VEHICULAR LOADING:				
A. WITHOUT PAVEMENT:				
i. FOR SINGLE DWELLINGS -	0	100		
ii. OTHER THAN SINGLE DWELLINGS -	0	300		
B. WITH PAVEMENT OF				
BRICK/UNREINFORCED CONCRETE -	0 (**)	50 (**)		
2. SUBJECT TO VEHICULAR LOADING:				
A. OTHER THAN ROADS:				
i. WITHOUT PAVEMENT -	300	450		
ii. WITH PAVEMENT OF:				
- REINF. CONC. FOR HEAVY VEHICLES -	0 (** #)	100 (** #)		
- BRICK/UNREINF. CONC LIGHT VEHICLES - B. ROADS	0 (** #)	75 (** #)		
i. SEALED	300	500 (#)		
ii. UNSEALED	300	500 (#)		
		000 (#)		
3. SUBJECT TO CONSTRUCTION VEHICLES OR				
IN EMBANKMENT CONDITIONS	300	500 (#)		
(*) INCLUDES OVERLAY ABOVE THE TOP OF THE PIPE OF NOT LESS THAN 50mm THICK				
<ul> <li>(**) BELOW THE UNDERSIDE OF THE PAVEMENT</li> <li>(#) SUBJECT TO COMPLIANCE WITH AS1762, AS2033, AS/NZS 2566.1, AS3725 OR AS 4060</li> </ul>				
(#) COBULCT TO CONTEINING WITH ASTIC, ASZ	00, NO/NEO 2000.1, AO	0120 011 4000		

MINIMUM PIPE COVER

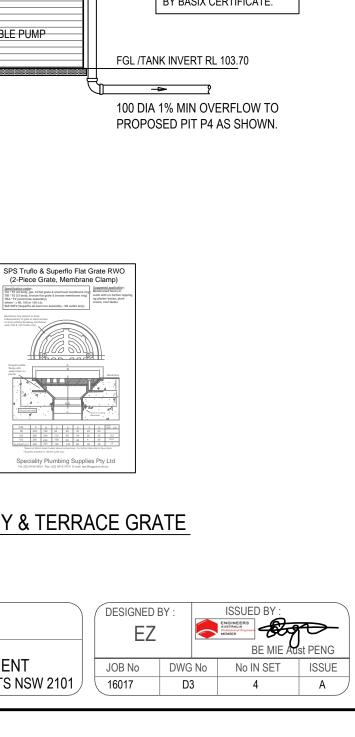
(FROM FINISHED SURFACE TO TOP OF PIPE)



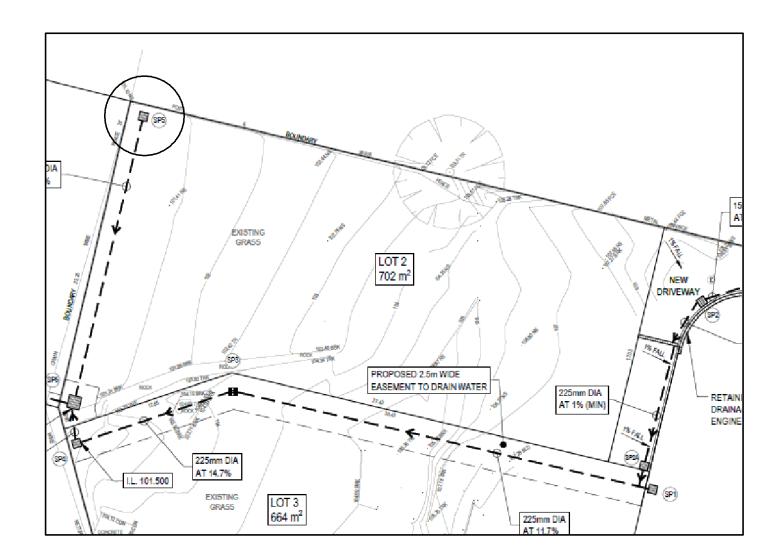


#### **TYPICAL DETAILS- PLANTER BOX, BALCONY & TERRACE GRATE** NOT TO SCALE





PIT SCHEDULE (U.N.O)				
PIT No	D. PIT TYPE	PIT SIZE	SURFACE	INVERT
			LEVEL	LEVEL
SP1	GRATED INLET	600 x 600	107.30	106.70
SP2	GRATED INLET	600 x 600	109.05	108.45
SP2A	GRATED INLET	600 x 600	107.20	106.60
SP3	GRATED INLET	600 x 600	104.20	103.20
SP4	GRATED INLET	600 x 600	102.00	100.95
SP5	GRATED INLET	600 x 600	101.40	100.80
SP6	GRATED INLET	900 x 900	101.30	100.20
SP7	GRATED INLET	600 x 600	93.30	92.50



## PROPOSED PIPED EASEMENT DESIGN (BY OTHERS)

NOT TO SCALE

ARCHITECT/BUILDER WINCREST HOMES	EZE DRAINAGE SOLUTIONS Pty Ltd ACN 619 135 198 CONSLIL TING ENGINEERS	DWG TITLE PROPOSED PIPED EASEMENT DESIGN
A 26.03.18 DA ISSUE ISS DATE AMENDMENT CLIENT CBD PROJECTS	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 2, No.128 ELANORA ROAD, ELANORA HEIGHTS NS\

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