

SCALE = 1 : 100 MAXI MESH SCREEN RH3030 \$ HANDLE DRAINAGE AREA 0.6HA. MAX. SLOPE GRADIENT 1:2 MAX. INLET PIPE OUTLET PIPE SLOPE LENGTH 60M MAX. WIRE OR STEEL MESH. BIDIM A24 OR SIMILAR DISTURBED AREA. GEOTEXTILE FILTER FABRIC DIRECTION OF BLUE METAL FLOW 20mm φ WEEP HOLES AT 200 CTS 0.6M INTO GROUND. DETĂIL OF OVERLAP. PRECAST OR CAST INSITU PIT UNDISTURBED AREA

REFER STORMWATER NOTES ALTERNATE POLYPROPYLENE PIT BY MANUFACTURER

450x450 PIT DETAIL SCALE = 1 : 20

SCHEDULE OF WORKS:

- 1. SILT FENCE AND ASSOCIATED WORKS INCLUDING INTERCEPTOR DRAIN IS TO BE INSTALLED BEFORE THE COMMENCEMENT OF ANY EXCAVATION.
- 2. CUTS TO BE EXECUTED TO THE REQUIRED LEVEL USING CONVENTIONAL EXCAVATION MACHINERY. INITIALLY THE DEPTH OF FILL/CLAY IS TO BE ESTABLISHED TO ENSURE NEIGHBOURING PROPERTIES ARE NOT ADVERSELY AFFECTED EARTH BATTERS TO BE A MAXIMUM SLOPE OF 1.0 m VERT. TO 1.7 m HORIZ. (AS PER GEOTECHNICAL REPORT) ANY BATTERS GREATER THAN 1.0 m VERT. TO 1.7 m HORIZ ARE TO BE ADEQUATELY SHORED IN ACCORDANCE WITH THE ENGINEERS DETAILS AND INSTRUCTIONS.
- 3. ANY PERMANENT RETAINING STRUCTURE IS TO BE CONSTRUCTED IN ACCORDANCE WITH THE ENGINEERS DETAILS AND INSTRUCTIONS.
- 4. ALL PERMANENT RETAINING STRUCTURES ARE TO BE COMPLETED WITH MINIMUM DELAY FOLLOWING EXCAVATION.

NOTES:

- ALL DIMENSIONS TO BE VERIFIED ON SITE BY BUILDER BEFORE COMMENCING WITH WORK.
- 2. FOR GENERAL NOTES AND DRAWING SCHEDULE REFER TO DRAWING NUMBER: SOI.



NO INVESTIGATION OF UNDERGROUND SERVICES HAS BEEN MADE. ALL RELEVANT AUTHORITIES SHOULD BE NOTIFIED PRIOR TO ANY EXCAVATION ON OR NEAR THE SITE

DEVELOPERS & EXCAVATORS MAY BE HELD FINANCIALLY RESPONSIBLE BY THE ASSET OWNER SHOULD THEY DAMAGE UNDERGROUND NETWORKS.

CARELESS DIGGING CAN: - CAUSE DEATH OR SERIOUS INJURY TO

WORKERS AND THE GENERAL PUBLIC

- 1. CONSTRUCTION VEHICLES ARE TO LEAVE AND ENTER THE SITE OVER AN ALL WEATHER SURFACE CONSISTING OF COURSE CRUSHED STONE OR BLUE METAL CONSTRUCTED WITHIN THE FRONT SETBACK AREA OPPOSITE THE EXISTING FOOTPATH CROSSING UNLESS NOTED OTHERWISE.
- 2. EXCAVATION MACHINERY ARE TO BE UNLOADED AND LOADED UPON THIS ALL WEATHER SURFACE. CONCRETE PUMPS AND TRUCKS WILL ALSO UTILISE THE ALL WEATHER SURFACE FOR THEIR OPERATIONS.
- 3. MATERIALS WILL BE UNLOADED UPON THE ALL WEATHER SURFACE WITHIN THE FRONT SETBACK AREA BY MEANS OF CRANES MOUNTED ON THE BACK OF DELIVERY TRUCKS OR UNLOADED BY HAND. IT IS NOT ENVISAGED THAT A MOBILE CRANE WILL BE REQUIRED DURING THE CONSTRUCTION PROCESS.
- 4. SOME STOCKPILING OF TOPSOIL REMOVED FROM THE BUILDING AREA MAY BE STORED ON THE SITE DURING THE CONSTRUCTION WITHIN THE PROPERTY IN AN AREA ENCLOSED WITHIN THE SEDIMENT CONTROL FENCING.
- 5. ALL EXCAVATED & CONSTRUCTION MATERIALS, SHED, SKIP BINS, TEMPORARY WATER CLOSETS, SPOIL AND EQUIPMENT, ETC SHALL BE KEPT WITHIN THE PROPERTY. NO VEHICLES OR MACHINES SHALL BE KEPT WITHIN THE PROPERTY. NO VEHICLES OR MACHINES SHALL STAND ON COUNICIL FOOTPATHS FOR LARGE LENGTHS OF TIME.
- 6. ALL RUBBISH & RECYCLABLE MATERIAL SHALL BE STOCKPILED IN WASTE BINS IN THE AREA NOMINATED ON THE SITE PLAN WITHIN THE SITE BOUNDARY. PUBLIC PROPERTY SHALL BE KEPT FREE OF RUBBISH AND RECYCLABLES AT ALL TIMES ANY WASTE MATERIALS SHALL BE REGULARLY COLLECTED FROM THE SITE AND DISPOSED OF IN AN APPROPRIATE FASHION.
- 7. ANY BUILDING / DEMOLITION WORKS INVOLVING ASBESTOS SHALL BE CARRIED OUT IN ACCORDANCE WITH THE RELAVANT STANDARDS.
- 8. VEHICLES LEAVING THE SITE WILL DO SO VIA THE ALL WEATHER BALLAST DRIVEWAY MADE OF COURSE AGGREGATE OR SIMILLAR LOCATED WITHIN THE FRONT SETBACK AREA OF THE DEVELOPMENT. ANY DIRT OR MATERIAL DEPOSITED ON THE ROAD RESERVE OR ROADWAY IS TO BE PROMPTLY CLEANED.
- 9. ANY EXCAVATED AREA REQUIRED SUPPORT WILL BE UNDERTAKEN BY THE OWNER USING STRUCTURALLY APPROVED RETAINING STRUCTURES.
- 10. ADEQUATE SAFETY SIGNAGE MUST BE ERECTED IN A PROMINENT POSITION ON THE WORK SITE, WARNING OF UNAUTHORISED ENTRY TO WORK SITE AND INTENDING DANGERS.
- 11. SAFETY FENCES SHALL BE PROVIDED AROUND ALL BOUNDARIES UNLESS A CONTINUOUS STRUCTURALLY ADEQUATE FENCE PRESENTLY EXISTS. THE FENCING SHALL BE ADEQUATE TO RESTRICT PUBLIC ACCESS TO THE SITE
- 12. NOISE LEVELS SHALL NOT EXCEED COUNCIL REGULATION LEVELS. BUILDING AND DEMOLITION WORKS SHALL ONLY BE CARRIED OUT BETWEEN HOURS AND DAYS SPECIFIED BY COUNCIL.
- 13. GEOTEXTILE FABRIC SHALL BE PLACED ON THE INSIDE OF THE SITE FENCING PRIOR TO SITE DISTURBANCE TO PREVENT SEDIMENT WASHING FROM CLEARED AND DISTURBED AREAS OF THE SITE INTO THE STORMWATER SYSTEM DURING CONSTRUCTION UNCONTAMINATED RUNOFF FROM CLEARED OR DISTURBED AREAS IS TO BE DIRECTED TO A TEMPORARY SILT ARRESTOR PIT THAT SHALL BE PROVIDED WITHIN THE SITE AT THE STREET BOUNDARY PROCESSING SITE STORMWATER BEFORE IT IS DISCHARGED TO THE STREET DRAINAGE SYSTEM
- 14. ALL TOP SOIL STRIPPED & STOCKPILED ON SITE IS TO BE BE PLACED IN NOMINATED AREAS ON PLAN. ALL DISTURBED AREAS ARE TO BE STABILISED
- 15. ALL SEDIMENT CONTROL STRUCTURES ARE TO BE CONTINUALLY MAINTAINED DURING CONSTRUCTION AND INSPECTED FOR STRUCTURAL DAMAGE AFTER EACH RAINFALL EVENT, WITH TRAPPED SEDIMENT BEING REMOVED TO THE TOPSOIL
- SEDIMENT RUNOFF SUITABLE GEOTEXTILE BARRIERS SHALL BE PLACED TO ALLEVIATE THE RISK ACCORDINGLY. BARE SURFACES SHALL BE KEPT MOIST TO REDUCE DUST LEVELS. GEOTEXTILE FABRIC LOCATED ON THE INSIDE OF FENCES SHALL ALSO BE UTILISED FOR DUST CONTROL WHERE NECESSARY

NOT TO SCALE P.R.B. L.G. 10/03/2020 ISSUED FOR RMS APPROVAL The copyright of this drawing remains with Northern Beaches Consulting Engineers Pty Ltd. Trading as NB Consulting Engineers Description: Issue:

- MASS CONCRETE

NOTE: DISPERSION TRENCH

300x300

NOMINAL

OR PRECAST GRATED DRAIN

ALTERNATE POLYPROPYLENE DRAIN BY MANUFACTURER

SECTION X-X

INLET PIPE

BLUE METAL -

GRATED

TRENCH COVER

MAXI MESH SCREEN RH3030

HINGED FOR MAINTENANCE

DISPERSION TRENCH TO BE LAID ON A LEVEL CONTOUR.

2. GROUND LEVEL ABOVE TRENCH MUST BE LEVEL SO AS TO

- 200mm DEEP SILT TRAP

-BIDIM A24 OR SIMILAR GEOTEXTILE FILTER FABRIC

DISPERSION TRENCH LONGITUDINAL SECTION

NOT TO SCALE

\$20mm WEEP HOLES AT 200 CTS

3. IF ROCK IS ENCOUNTERED DURING EXCAVATION FOR DISPERSION

3,000

200 WIDE x 200 MINIMUM DEPTH

LAID LEVEL. AND FILLED WITH RIVER

PEBBLES MINIMUM 30mm DIAMETER IN SIZE.

DIRECTION OF FLOW

DISTURBED

AREA

CAST INSITU CONCRETE DRAIN

RL 48.500

EVENLY DISPERSE WATER DOWN HILL OF THE TRENCH

TRENCH NOTIFY ENGINEER FOR ALTERNATE DETAIL

BLUE METAL HAY BALE DETAILS SCALE = N.T.S.

-STAR PICKET TO HOLD

GEOFABRIC

HAY BAIL AND GEOFABRIC

11/8/20

Stewart McGeady //

(Director NB Consulting Engineers)

B.E.(Civil), MIEAust

NOTES:

SEDIMENT FENCE

TO THE CONTOURS OF THE SITE.

4. BACKFILL TRENCH OVER BASE OF FABRIC

CONSTRUCTION NOTES:

- 1. ALL EROSION AND SEDIMENT CONTROL MEASURES TO BE INSPECTED AND MAINTAINED DAILY BY SITE MANAGER. 2. MINIMISE DISTURBED AREAS'
- 3. ALL STOCKPILES TO BE CLEAR FROM DRAINS, GUTTERS AND FOOTPATHS
- 4. DRAINAGE IS TO BE CONNECTED TO STORMWATER

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SYSTEM AS SOON AS POSSIBLE 5. ROADS AND FOOTPATH TO BE SWEPT DAILY

Consulting Engineers STRUCTURAL - CIVIL - STORMWATER - REMEDIAL DOCUMENT CERTIFICATION A.C.N. 076 121 616 A.B.N. 24 076 121 616 **Sydney:** Ph: (02) 9984 7000 Fax: (02) 9984 7444 Suite 207, 30 Fisher Road Dee Why N.S.W. 2099 Gold Coast: Ph: (07) 5631 4744 Unit 8, 1726 Gold Coast Highway Burleigh Heads QLD 4220

I. CONSTRUCT SEDIMENT FENCE AS CLOSE AS POSSIBLE TO PARALLEL

2. DRIVE 1.5 METRE LONG STAR PICKETS INTO GROUND, 3 METRES APART.

3. DIG A 150mm DEEP TRENCH ALONG THE UPSLOPE LINE OF THE FENCE

5. FIX SELF-SUPPORTING GEOTEXTILE TO UPSLOPE SIDE OF POSTS WITH

6. JOIN SECTIONS OF FABRIC AT A SUPPORT POST WITH A 150mm OVERLAP.

WIRE TIES OF AS RECOMMENDED BY GEOTEXTILE MANUFACTURER.

FOR THE BOTTOM OF THE FABRIC TO BE ENTRENCHED.

BARKER ARCHITECTS

STORMWATER MANAGEMENT JESSICA NOSWORTHY DRAINAGE PLAN - SHEET

Project: ALTERATIONS AND ADDITIONS 35A PLATEAU RD, AVALON BEACH

UPON THE COMPLETION OF BUILDING WORKS.

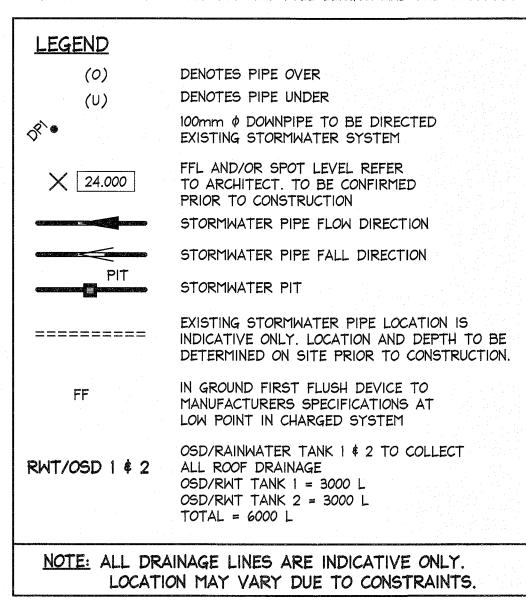
16. WHERE THERE IS THE POTENTIAL OF SITE EROSION TO PRODUCE EXCESSIVE

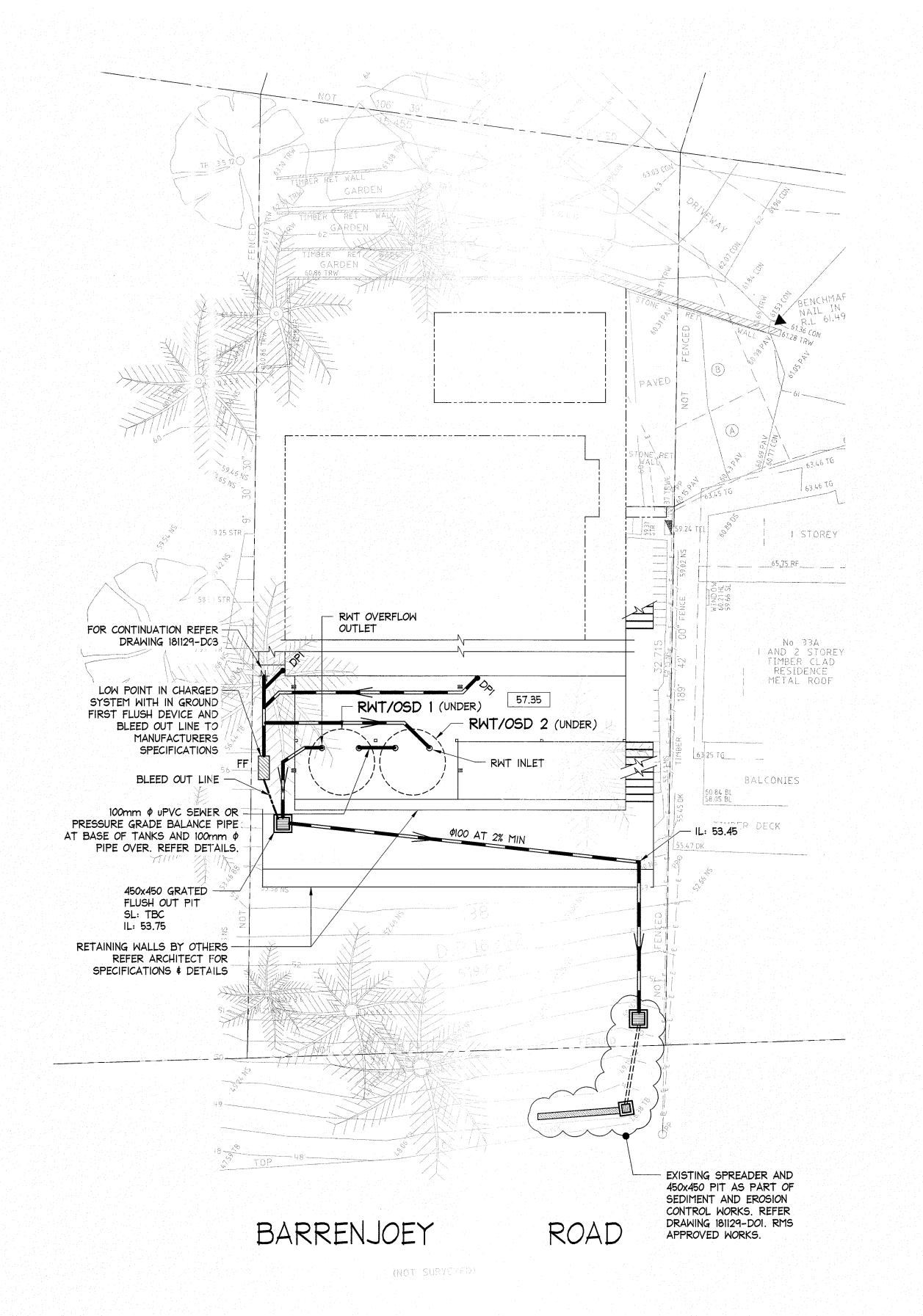
STORMWATER NOTES:

- 1 ALL PIPES TO BE 100mm & UNLESS NOTED OTHERWISE.
- 2 ALL PIPES TO BE UPVC TO AS 1254-2002 UNLESS NOTED OTHERWISE.
- 3 ALL PIPES TO BE LAYED AT I % MINIMUM GRADE UNLESS NOTED OTHERWISE.
- 4 ALL PIPES SHALL BE LAID ON A 75mm SAND BED, COMPACTED TO 100% S.M.D.D. BELOW PAVEMENTS.

(NO COMPACTION REQUIRED BELOW LANDSCAPING) COVER TO SURFACE FROM TOP OF PIPE TO BE 300mm MINIMUM. BACKFILL TO BE ADEQUATELY CONSOLIDATED AROUND PIPES BY METHOD OF RAMMING AND WATERING IN. TRENCHES TO BE FILLED WITH GRANULAR MATERIAL AS SPECIFIED.

- 5 ALL DOWN PIPES TO BE 100mm & UNLESS NOTED OTHERWISE.
- 6 DOWN PIPE LOCATIONS ARE INDICATIVE ONLY, LOCATIONS TO BE CONFIRMED WITH ARCHITECT PRIOR TO COMMENCEMENT WITH WORK.
- 7 PROVIDE CLEANING EYES AT ALL DOWNPIPES.
- 8 ALL PITS TO BE CAST INSITU OR, IF PRECAST, APPROVED BY ENGINEER. CAST INSITU PITS TO HAVE 150mm THICK CONCRETE WALLS AND BASE. WALLS TO BE REINFORCED WITH I NIZ TOP TIE UNLESS NOTED OTHERWISE. CAST INSITU PITS GREATER THAN 1000 DEEP TO BE MINIMUM 900x600 AND TO HAVE 150mm THICK CONCRETE WALLS AND BASE. WALLS TO BE REINFORCED WITH NI2 AT 300 EACH WAY UNLESS NOTED OTHERWISE.
- 9 ALL PITS GREATER THAN 1000mm DEEP SHALL HAVE STEP IRONS AS PER COUNCIL STANDARDS.
- 10 ALL WORK TO BE IN ACCORDANCE WITH LOCAL COUNCIL STANDARDS AND SPECIFICATIONS.
- 11 PRIOR TO COMMENCING ANY SITE WORKS THE CONTRACTOR SHALL IMPLEMENT EROSION CONTROL MEASURES TO APPROVED SEDIMENT AND EROSION CONTROL PLAN, EPA GUIDELINES AND COUNCIL SPECIFICATIONS. ALL MEASURES TO REMAIN IN PLACE UNTIL COMPLETION AND STABILIZATION OF THE SITE TO COUNCIL SATISFACTION.
- 12 ALL LEVELS SHOWN ARE TO AHD
- 13 ENSURE THAT ALL PITS AND STORMWATER PIPES ARE LOCATED CLEAR FROM TREE ROOT SYSTEMS.
- 14 ALL EXISTING EARTHENWARE PIPES TO BE UPGRADED TO UPVC.
- 15 ALL WORKS TO BE IN ACCORDANCE WITH AS 3500-2003 NATIONAL PLUMBING DRAINAGE CODE PART 3 - STORMWATER DRAINAGE.
- 16. UNLESS NOTED OTHERWISE, SUB-SOIL DRAINS ARE TO BE INSTALLED IN ACCORDANCE WITH AS3500.3 ALONGSIDE WALLS THAT IMPEDE THE NATURAL FLOW OF GROUNDWATER. THIS MAY ALSO INVOLVE TRENCHING INTO THE CLAY OR ROCK SUBGRADE TO DIRECT GROUNDWATER AWAY FROM STRUCTURES.
- 17. IF NOT INDICATED ON PLANS, PROVIDE LEAF CATCHERS TO ALL DOWNPIPES.
- 18. ORIFICE PLATE MUST BE INSTALLED PRIOR TO INSTALLATION OF THE ROOF DRAINAGE SYSTEM AND CONNECTION OF THE SITE STORMWATER SYSTEM TO THE ONSITE DETENTION TANK.
- 19. 100mm ϕ x 3000 LONG TAIL OUT SUBSOIL LINE TO BE PROVIDED ON THE UPSTREAM SIDE OF ALL PITS. SUBSOIL LINE TO BE COVERED WITH GEOTEXTILE FILTER SOCK FOR THE FULL LENGTH AND END COVERED.





PITTWATER COUNCIL SUMMARY

TOTAL SITE AREA

EXISTING IMPERVIOUS AREA

 $= 275.9 \text{ m}^2 (53\%)$ $= 288.7 \text{ m}^2 (55 \%)$ PROPOSED IMPERVIOUS AREA

 $= 519.8 \text{ m}^2$

 $= 1.9 \,\mathrm{m}^3$

 $= 6.0 \,\mathrm{m}^3$

INCREASE (50m²

OSD CONDITIONED FOR THIS DEVELOPMENT

OSD REQUIRED:

VOLUME PROVIDED:

2x3000 L RWT EXCESS VOLUME: $= 4.1 \text{m}^3$

APPLY 50% OFFSET COMBINED OSD/RWT = 2.05 m 3 (OFFSET) OFFSET > OSD REQUIRED PROVIDE 6000 L OSD/RWT TANK

(NOTE: OSD/RWT FOR IRRIGATION PURPOSES ONLY)

SUBSOIL DRAINAGE NOTE:

STORMWATER DRAWINGS DO NOT INCLUDE SUBSOIL AGRICULTURAL DRAINAGE DETAILS FOR D.A. SUBMISSION. NORTHERN BEACHES CONSULTING ENGINEERS PTY LTD MUST BE COMMISSIONED TO INCLUDE THESE DETAILS ONLY WHEN CONSTRUCTION CERTIFICATE AND/OR CONSTRUCTION DOCUMENTATION IS COMPLETE AND PROVIDED

NOTE: DRAINAGE LINE INDICATIVE ONLY DRAINAGE LINE LOCATIONS ARE INDICATIVE ONLY AND MAY VARY DUE TO CONSTRAINTS. IF IN DOUBT CONTACT THE ENGINEER.

NOTE: EXISTING SERVICES CONTRACTOR TO LOCATE ALL EXISTING SERVICES PRIOR TO EXCAVATION AND NOTIFY ENGINEER OF ANY POTENTIAL CLASHES WITH THE PROPOSED DRAINAGE

OSD/RWT TANK WATER USAGE NOTE THE OSD/RWT TANK IS FOR IRRIGATION PURPOSES ONLY

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WITH AS3500.3

NOTE: EXISTING STORMWATER SYSTEM EXISTING STORMWATER SYSTEM TO BE UTILISED WHERE ADEQUATE. CHECK AND UPGRADED AS REQUIRED. BUILDER TO INSPECT PRIOR TO CONSTRUCTION AND UPGRADE IF REQUIRED IN ACCORDANCE

NOTE: EXCAVATION AROUND TREES CARE SHOULD BE TAKEN WHEN UNDERTAKING WORKS IN THE VICINITY OF SELECTED TREES NOT TO DISTURB THE TREE ROOT SYSTEM. HAND DIGGING OF TRENCHES ETC MAY BE NECESSARY, REFER ARBORISTS REPORT.

RETAINING STRUCTURES NOTE: RETAINING WALLS, BATTERS AND SHORING INCLUDING DRAINAGE BY OTHERS REFER ARCHITECT FOR

SPECIFICATIONS & DETAILS



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DEVELOPERS & EXCAVATORS MAY BE HELD FINANCIALLY RESPONSIBLE BY THE ASSET OWNER SHOULD THEY DAMAGE UNDERGROUND NETWORKS.

- CARELESS DIGGING CAN:

 CAUSE DEATH OR SERIOUS INJURY TO WORKERS AND THE GENERAL PUBLIC INCONVENIENCE USERS OF ELECTRICITY, GAS, WATER AND COMMUNICATIONS - LEAD TO CRIMINAL PROSECUTION AND
- CAUSE EXPENSIVE FINANCIAL LOSSES - CUT OFF EMERGENCY SERVICES

DAMAGES CLAIMS

 DELAY PROJECT COMPLETION TIMES WHILE THE DAMAGE IS REPAIRED

MINIMISE YOUR RISK AND DIAL BEFORE YOU DIG. - TEL. 1100



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	DOCUMENT CERTIFICATION Date: 11/8/20 Date: 11/8/2	BARKER ARCHITECTS BARKER ARCHITECTS	Project: ALTERATIONS AND ADDITIONS 35A PLATEAU RD, AVALON BEACH	Date: Design: JUL 2020 L.G.	Drawn: D.K.
07/08/2020 A STORMWATER PLANS FOR DA SUBMISSION ONLY - NOT FOR CONSTRUCTION	D.K. L.G. Stewart McGeady D.K. L.G. Sydney: Ph: (02) 9984 7000 Fax: (03) Suite 207, 30 Fisher Road Dee Why N. Gold Coast: Ph: (07) 5631 4744	.S.W. 2099 Client:	Drawing Title: STORMWATER MANAGEMENT	Job No:	Drawing No: Issu
Date: Issue: Description:	By: Review: Review: The copyright of this drawing remains with Northern Beaches Consulting Engineers Pty Ltd. Tording as NB Consulting Engineers E: nb@nbconsulting.com.au W: www.n	·	DRAINAGE PLAN - SHEET 1	181129	D02

SUB LEVEL & SITE DRAINAGE PLAN

www.dialbeforeyoudig.com.au NO INVESTIGATION OF UNDERGROUND SERVICES

RETAINING WALLS, BATTERS AND

SHORING INCLUDING DRAINAGE BY

OTHERS REFER ARCHITECT FOR

SPECIFICATIONS & DETAILS

NOTES:

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 - CAUSE EXPENSIVE FINANCIAL LOSSES TO BUSINESS
- CUT OFF EMERGENCY SERVICES - DELAY PROJECT COMPLETION TIMES WHILE THE DAMAGE IS REPAIRED

MINIMISE YOUR RISK AND DIAL BEFORE YOU DIG. - TEL. 1100

NOT FOR

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D.K.

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Project: ALTERATIONS AND ADDITIONS JUL 2020 35A PLATEAU RD, AVALON BEACH

BARKER ARCHITECTS Drawing Title: STORMWATER MANAGEMENT DRAINAGE PLAN - SHEET 2

LEGEND DENOTES PIPE OVER DENOTES PIPE UNDER 100mm & DOWNPIPE TO BE DIRECTED EXISTING STORMWATER SYSTEM APPROXIMATE LOCATION OF EXISTING DOWNPIPE TO BE UTILISED WHERE POSSIBLE IN ACCORDANCE WITH AS3500.3. MIN 900 UPVC FFL AND/OR SPOT LEVEL REFER X 24.000 TO ARCHITECT. TO BE CONFIRMED PRIOR TO CONSTRUCTION STORMWATER PIPE FLOW DIRECTION STORMWATER PIPE FALL DIRECTION STORMWATER PIT SUSPENDED \$100 PIPE =======

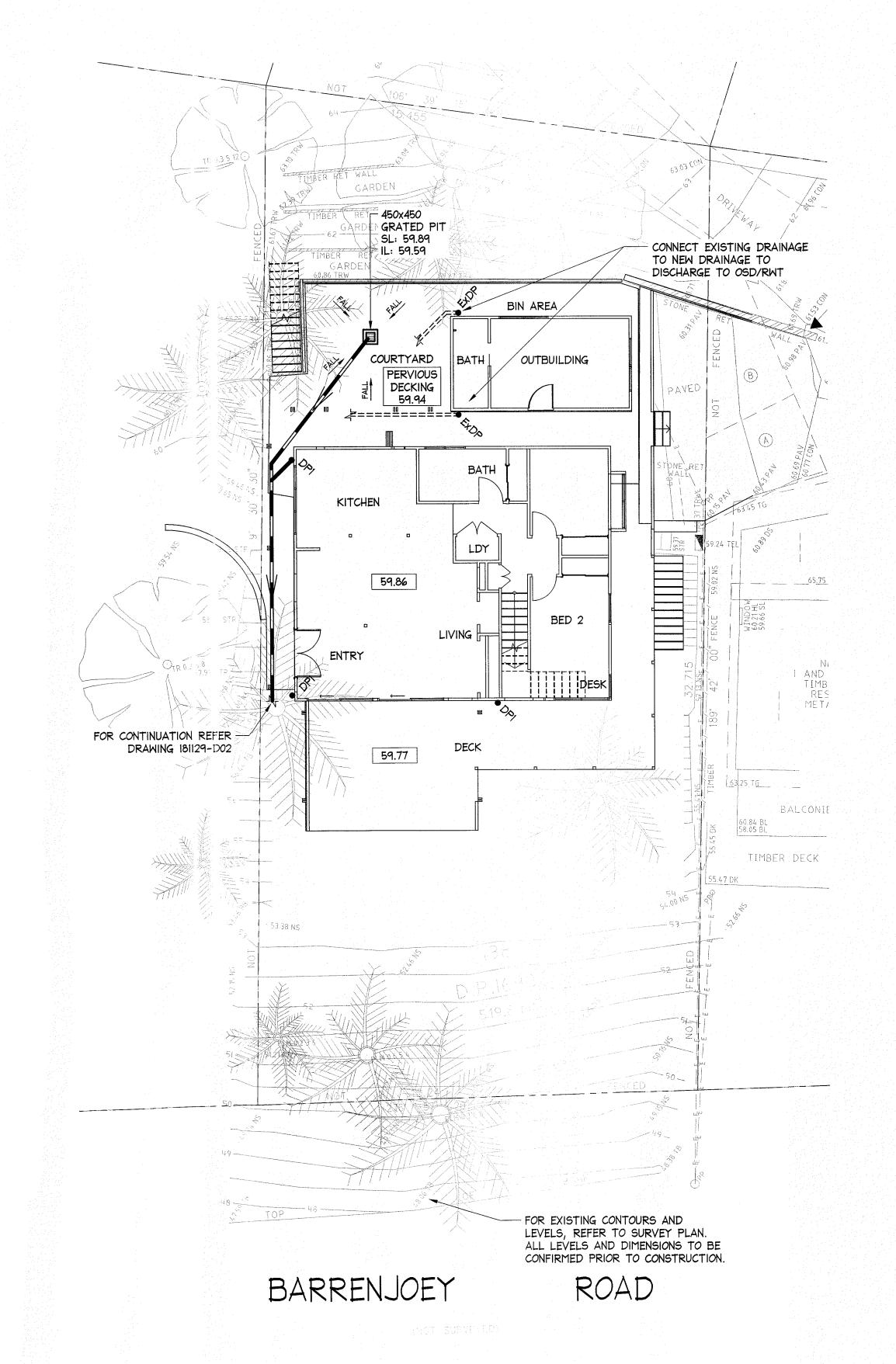
NOTE: ALL DRAINAGE LINES ARE INDICATIVE ONLY. LOCATION MAY VARY DUE TO CONSTRAINTS.

SUBSOIL DRAINAGE NOTE:

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NOTE: EXISTING SERVICES CONTRACTOR TO LOCATE ALL EXISTING SERVICES PRIOR TO EXCAVATION AND NOTIFY ENGINEER OF ANY POTENTIAL CLASHES WITH THE PROPOSED DRAINAGE



GROUND LEVEL & SITE DRAINAGE PLAN

		Date: ((10) 20 Stewart McGe
	i .	1/4/20
		DOCUMENT (
A1		DOCUMENT /

OCUMENT CERTIFICATION cewart McGeady irector NB Consulting Engineers, copyright of this drawing remains with Northern Beaches

Consulting Engineers

STRUCTURAL - CIVIL - STORMWATER - REMEDIAL A.C.N. 076 121 616 A.B.N. 24 076 121 616 Sydney: Ph: (02) 9984 7000 Fax: (02) 9984 7444

Suite 207, 30 Fisher Road Dee Why N.S.W. 2099 Unit 8, 1726 Gold Coast Highway Burleigh Heads QLD 4220 E: nb@nbconsulting.com.au W: www.nbconsulting.com.au

JESSICA NOSWORTHY

181129

Drawing No: D03 WATERPROOFING BY OTHERS

SPECIFICATIONS AND DETAILS

OPEN PERGOLA

EGI

REFER

BALCONY/TERRACE OVERFLOW NOTE

NO DRAINAGE

TO ARCHITECTS

63.160

DECK

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______ PARAPET FLASHING AND
DETAILS BY OTHERS REFER
ARCHITECT FOR SPECIFICATIONS # DETAILS - TYPICAL

THE HYDRAULIC SYSTEM MAY BE REFUSED.

Issue: Description:

BALCONY/TERRACE OVERFLOW NOTE

EG1

BG1, BG2, BG3

BLOCKED FLOOR OUTLET.

NOTE: BOX GUTTERS ALL BOX GUTTER SYSTEMS SHOWN ON THESE PLANS ARE TO BE INSTALLED STRICTLY IN ACCORDANCE WITH THE ASSOCIATED DETAILS. IF ANY CHANGE TO THE BOX GUTTER CONFIGURATION IS PROPOSED, NOTIFY THE ENGINEER FOR RE-DESIGN. IF THE INSTALLED BOX GUTTER DOES NOT STRICTLY COMPLY WITH OUR DESIGN, CERTIFICATION OF

BUILDER TO PROVIDE A MINIMUM 100mm WIDE x 30mm HIGH

TERRACE/BALCONY AREA. THE FULL OVERFLOW DEPTH MUST

BE LOCATED BELOW THE ADJACENT INTERNAL FLOOR LEVEL

OR 50mm DIA OVERFLOW FOR EVERY 6m² OF EXPOSED

TO PROTECT AGAINST INCIDENTAL FLOODING DUE TO A

EAVES GUTTER MINIMUM CROSS

RAINWATER HEAD REFER DETAILS

BOX GUTTER, REFER DETAILS

LOCATION MAY VARY DUE TO CONSTRAINTS.

SECTION AREA 9000mm²

NOTE: ALL DRAINAGE LINES ARE INDICATIVE ONLY.

FIRST LEVEL DRAINAGE PLAN

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UPPER ROOF LEVEL DRAINAGE PLAN SCALE = 1 : 100

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Project: ALTERATIONS AND ADDITIONS Consulting Engineers

STRUCTURAL - CIVIL - STORMWATER - REMEDIAL DOCUMENT CERTIFICATION JUL 2020 35A PLATEAU RD, AVALON BEACH D.K. BARKER ARCHITECTS Drawing Title: STORMWATER MANAGEMENT Drawing No: Suite 207, 30 Fisher Road Dee Why N.S.W. 2099 181129 07/08/2020 A STORMWATER PLANS FOR DA SUBMISSION ONLY - NOT FOR CONSTRUCTION D04 Gold Coast: Ph: (07) 5631 4744 JESSICA NOSWORTHY DRAINAGE PLAN - SHEET 3 (Director NB Consulting Engineers) Unit 8, 1726 Gold Coast Highway Burleigh Heads QLD 4220

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EXISTING ROOF DRAINAGE TO REMAIN,

UNLESS NOTED OTHERWISE. BUILDER TO

INSPECT AND UPGRADE IF REQUIRED IN

ACCORDANCE WITH AS3500.3. EXISTING

DOWNPIPES TO DISCHARGE INTO NEW

RAINWATER TANK.

63.160

ENSUITE ____

OPEN PERGOLA NO DRAINAGE

ROBE

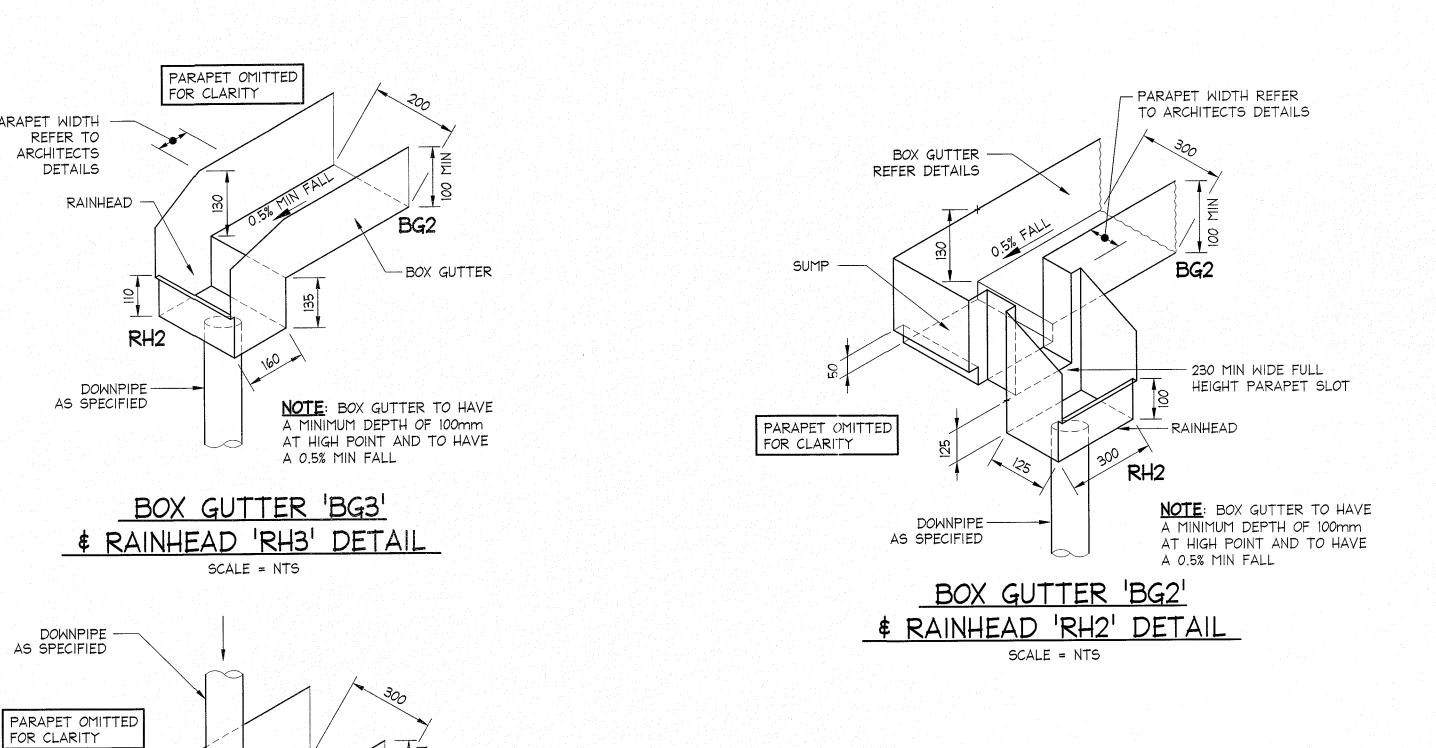
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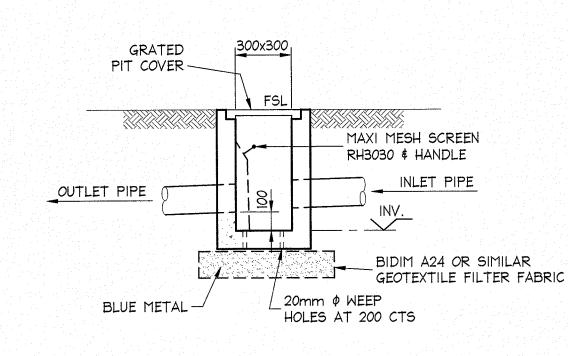
BEDROOM

STAIRS

CONNECT DOWNPIPE, REFER DETAILS



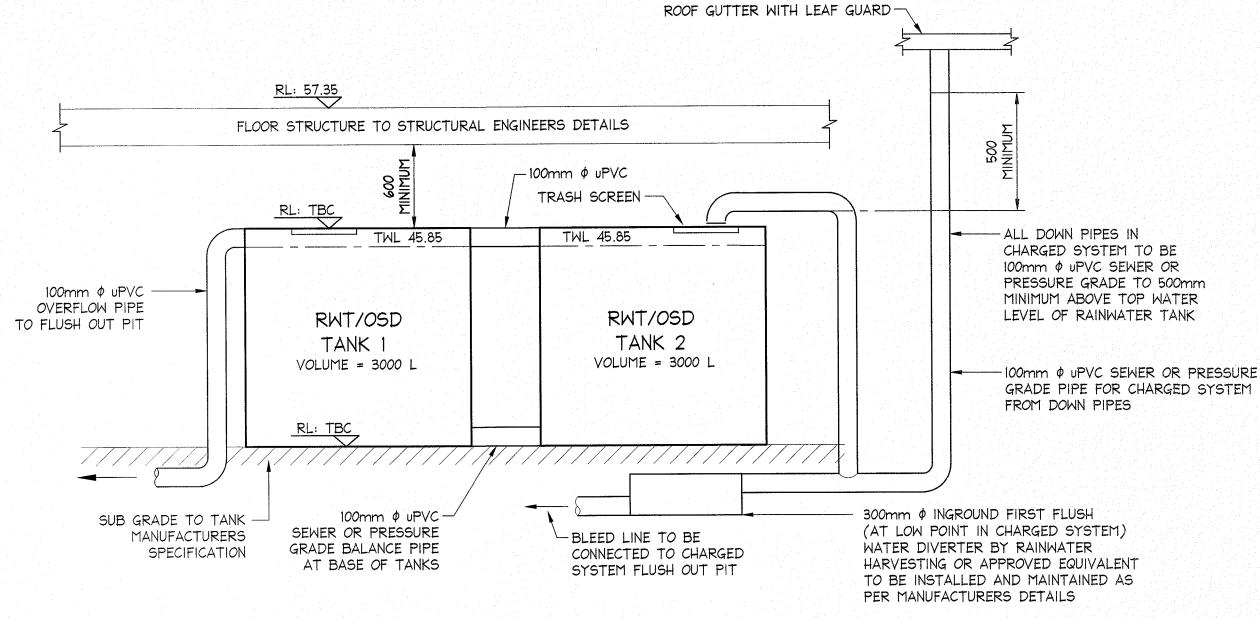




PRECAST OR CAST INSITU PIT REFER STORMWATER NOTES ALTERNATE POLYPROPYLENE PIT BY MANUFACTURER

300x300 PIT DETAIL SCALE = 1 : 20

→ 100mm \$ UPVC CHARGED SYSTEM FROM DP's 300mm & INGROUND FIRST FLUSH (AT LOW POINT IN CHARGED SYSTEM) WATER DIVERTER BY RAINWATER HARVESTING OR APPROVED EQUIVALENT TO BE INSTALLED AND MAINTAINED AS - PER MANUFACTURERS DETAILS



TANKS SPECIFIED ARE BY WATERPLEX OR APPROVED EQUIVALENT TYPICAL SECTION RAINWATER RE-USE TANK NOT TO SCALE

ISSUED FOR D.A. SUBMISSION ONLY NOT FOR CONSTRUCTION

NOTES:

1. THIS DRAWING IS NOT TO BE USED FOR CONSTRUCTION IF THE ISSUE DATE PRECEDES THE ISSUE DATE ON THE ARCHITECTURAL DRAWINGS.

2. DO NOT SCALE FROM THIS DRAWING.

4. FOR GENERAL NOTES REFER

TO DRAWING NUMBER: DO2.

3. ALL DIMENSIONS ARE TO BE VERIFIED

ON SITE BY THE BUILDER BEFORE COMMENCING WITH ASSOCIATED WORK.

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IF IN DOUBT ASK

Design:

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					DOCUMENT CERTIFICATION	
-					11/4/10 ///	STRU
					Stewart McGeady	A. Sydney: Ph: (
07.400.4000) A	CTORMULATED BLANC FOR DA CURMICGION ONLY NOT FOR CONSTRUCTION	D.K.	L.G.	B.F. (Civil.) MIFAust	Suite 207, 30 F
07/08/202	0 A	STORMWATER PLANS FOR DA SUBMISSION ONLY - NOT FOR CONSTRUCTION			(Director NB Consulting Engineers)	Gold Coast: Unit 8, 1726 Gol
Date:	Issue:	Description: Descr	By:	Review:	The copyright of this drawing remains with Northern Beaches Consulting Engineers Pty 1.td. Trading as NB Consulting Engineers	E : nb@nbconst

BGI

- BOX GUTTER

A 0.5% MIN FALL

450x450

PIT

BOX GUTTER 'BGI'

\$ RAINHEAD 'RHI' DETAIL

SCALE = NTS

 3×5 mm ϕ HOLES

MAXI MESH SCREEN RH3030 \$ HANDLE

OUTLET PIPE DISCHARGE TO

ABSORPTION/DISPERSION

TRENCH

BIDIM A24 OR SIMILAR GEOTEXTILE FILTER FABRIC -

20mm & WEEP HOLES AT 200 CTS

NOTE: BOX GUTTER TO HAVE

GRATED

-PIT COVER

PRECAST OR CAST INSITU PIT REFER STORMWATER NOTES

450x450 CHARGED SYSTEM FLUSH OUT PIT DETAIL

SCALE = 1 : 20

-FLUSH OUT PIPE TO BE

CONNECTED TO CHARGED

SYSTEM FLUSH OUT PIT

- SCREW CAP FOR CLEANING

A MINIMUM DEPTH OF 130mm AT HIGH POINT AND TO HAVE

PARAPET WIDTH

REFER TO ARCHITECTS

DETAILS

DOWNPIPE

FOR CLARITY

RAINHEAD -

DOWNPIPE

AS SPECIFIED

RHI

	DOCUMENT CERTIFICATION	Consulting Engineers	Arch
	Date: (1/4/20	STRUCTURAL - CIVIL - STORMWATER - REMEDIAL A.C.N. 076 121 616 A.B.N. 24 076 121 616	
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BARKER ARCHITECTS	Project: ALTERATIONS AND ADDIT 35A PLATEAU RD, AVALON
	Drawing Title:
JESSICA NOSWORTHY	SECTIONS & DETAILS - S

TIONS BEACH 181129 SHEET

JUL 2020

Drawing No:

Drawn:

D.K.