PROPOSED RESIDENTIAL DEVELOPMENT
LOT 2, No. 6 MIRIAM STREET, BASS HILL
STORMWATER MANAGEMENT PLANS

GENERAL NOTES:

1. THESE THE PLANS SHALL BE READ IN CONJUCTION WITH OTHER RELEVANT CONSULTANTS'S PLANS, SPECIFICATIONS, CONDITIONS OF DEVELOPMENT CONCEST AND CONSTRUCTION CERTIFICATE REQUIREMENTS. WHERE DISCREPANCIES ARE FOUND NASTASI & ASSOCIATES MUST BE CONTACTED IMMEDIATELY FOR VERIFICATION.
2. WHERE THESE PLANS ARE NOTED FOR DEVELOPMENT APPLICATION PURPOSES ONLY, THEY SHALL NOT BE USED FOR OBTAINING A CONSTRUCTION CERTIFICATE NOR USED FOR CONSTRUCTION PURPOSES.
3. SUBSOIL DRAINAGE SHALL BE DESIGNED AND DETAILED BY THE STRUCTURAL ENGINEER. SUBSOIL DRAINAGE SHALL NOT BE CONNECTED INTO THE STORMWATER SYSTEM IDENTIFIED ON THESE PLAN UNLESS APPROVED BY NASTASI & ASSOCIATES ENGINEERS.

STORMWATER CONSTRUCTION NOTES:

1. 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
2. THE MINIMUM SIZE OF THE STORMWATER DRAINS SHALL NOT BE LESS THAN DN 90 FOR CLASS 1 BUILDINGS AND DN100 FOR OTHER CLASSES OF BUILDING OR AS REQUIRED BY REGULATORY AUTHORITY
3. THE MINIMUM GRADIENT OF STORMWATER DRAINS SHALL BE 1%, UNLESS NOTED OTHERWISE
4. COUNCIL'S TREE PRESERVATION ORDER IS TO BE STRICTLY ADHERED TO . NO TREES SHALL BE REMOVED UNTIL PERMIT IS OBTAINED
5. PUBLIC UTILITY SERVICES ARE TO BE ADJUSTED AS NECESSARY AT THE CLIENT'S EXPENSE
6. ALL PITS TO BE BENCHED AND STREAMLINED. PROVIDE STEP IRONS FOR ALL PITS OVER 1.2m DEEP
7. ALL PITS IN AN EASEMENT OR TRAFFICABLE AREA ARE TO BE PRE-CAST OR CASTIN-SITU OR APPROVED EQUIVALENT
8. MAKE SMOOTH JUNCTION WITH ALL EXISTING WORK
9. VEHICULAR ACCESS AND ALL SERVICES TO BE MAINTAINED AT ALL TIMES TO ADJOINING PROPERTIES AFFECTED BY CONSTRUCTION
10. 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
11. ANY VARIATION TO THE WORKS AS SHOWN ON THE APPROVED DRAWINGS ARE TO BE CONFIRMED BY NASTASI & ASSOCIATES PRIOR TO THEIR COMMENCEMENT

RAINWATER RE-USE NOTES:

1. RAINWATER SUPPLY PLUMBING TO BE CONNECTED TO OUTLETS WHERE REQUIRED BY BASIX CERTIFICATE (BY OTHERS)
2. TOWN WATER CONNECTION TO RAINWATER TANK TO THE SATISFACTION OF THE REGULATORY AUTHORITY. THIS WAY REQUIRE PROVISION OF:
   2.1. PERMANENT AIR GAP
   2.2. BACKFLOW PREVENTION DEVICE
3. NO DIRECT CONNECTION BETWEEN TOWN WATER SUPPLY AND THE RAINWATER SUPPLY
4. AN APPROVED STOP VALVE AND/OR PRESSURE LIMITING VALVE AT THE RAINWATER TANK
5. PROVIDE AT LEAST ONE EXTERNAL HOSE COCK ON THE TOWN WATER SUPPLY FOR FIRE FIGHTING
6. 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
7. ALL PLUMBING WORKS ARE TO BE CARRIED OUT BY LICENSED PLUMBERS IN ACCORDANCE WITH AS/NZS3500.1 NATIONAL PLUMBING AND DRAINAGE CODE
8. PRESSURE PUMP ELECTRICAL CONNECTION TO BE CARRIED OUT BY A LICENSED ELECTRICIAN
9. ONLY ROOF RUN-OFF IS TO BE DIRECTED TO THE RAINWATER TANK. SURFACE WATER INLETS ARE NOT BE CONNECTED
10. PIPE MATERIALS FOR RAINWATER SUPPLY PLUMBING ARE TO BE APPROVED MATERIALS TO AS/NZE3500 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 FROUND PIPES BY USING ADHESIVE PIPE MARKERS (MAKE IN ACCORDANCE WITH AS1345)
11. EVERY RAINWATER SUPPLY OUTLET POINT AND THE RAINWATER TANK ARE TO BE LABELED 'RAINWATER' ON A METALLIC SIGN IN ACCORDANCE WITH AS1316\9
12. ALL INLETS AND OUTLETS TO THE RAINWATER TANK ARE TO HAVE SUITABLE MEASURES PROVIDED TO PREVENT MOSQUITO AND VERMIN ENTRY.

EROSION AND SEDIMENT NOTES:

1. THESE THE PLANS SHALL BE READ IN CONJUCTION WITH EROSION AND SEDIMENT CONTROL DETAILS AS ATTACHED
2. THE CONTRACTOR SHALL IMPLEMENT ALL SOIL EROSION AND SEDIMENT CONTROL MEASURE AS NECESSARY AND TO THE SATISFACTION OF THE RELEVANT LOCAL AUTHORITY PRIOR TO THE COMMENCEMENT ANY DURING CONSTRUCTION. NO DISTURBANCE TO THE SITE SHALL BE PERMITTED OTHER THAN IN THE IMMEDIATE AREA OF THE WORKS AND NO MATERIAL SHALL BE REMOVED FROM THE SITE WITHOUT THE RELEVANT LOCAL AUTHORITY APPROVAL. ALL EROSION AND SEDIMENT CONTROL DEVICES TO BE INSTALLED AND MAINTAINED IN ACCORDANCE WITH STANDARDS OUTLINED IN NSW DEPARTMENT OF HOUSING'S "MANAGING URBAN STORMWATER - SOILS AND CONSTRUCTIONS"
3. TOPSOIL SHALL BE STRIPPED AND STOCKPILED OUTSIDE HAZARD AREA SUCH AS DRAINAGE LINES. THIS TOPSOIL SHALL BE RESPREAD LATER ON AREAS TO BE REVEGETATED AND STABILIZED ONLY. TOPSOIL SHALL NOT BE RESPREAD ON ANY OTHER AREA UNLESS SPECIFICALLY INSTRUCTED BY THE SUPERINTENDENT. IF THEY ARE TO REMAIN LONGER THAN ONE MONTH STOCK PILES SHALL BE PROTECTED FROM EROSION BY COVERING THEM WITH A MULCH AND HYDROSEEDING AND, IF NECESSARY, BY LOCATING BANKS OR DRAINS DOWNSTREAM OF A STOCKPILE TO RETARD SILT LADEN RUNOFF
4. THE CONTRACTOR SHALL REGULARLY MAINTAIN ALL EROSION AND SEDIMENT CONTROL DEVICES AND REMOVE ACCUMULATED SILT FROM SUCH DEVICES SUCH THAT MORE THAN 60% OF THEIR CAPACITY IS NOT LOST. ALL THE SILT IS TO BE PLACED OUTSIDE THE LIMIT OF WORKS. THE PERIOD FOR MAINTAINING THESE DEVICES SHALL BE AT LEAST UNTIL ALL DRISTURBED AREAS ARE REVEGETATED AND FURTHER AS MAY BE DIRECTED BY SUPERINTENDENT. OR COUNCIL
5. VEHICULAR TRAFFIC SHALL BE CONTROLLED DURING CONSTRUCTION CONFINING ACCESS WHERE POSSIBLE TO NOMINATED STABILISED ACCESS POINTS
6. THE CONTRACTOR SHALL IMPLEMENT DUST CONTROL BY REGULAR WETTING DOWN DISTURBED AREA
7. ALL DRAINAGE PIPE INLETS TO BE CAPPED UNTIL
   - DOWNPIPES CONNECTED
   - PITS CONSTRUCTED AND PROTECTED WITH SILT BARRIER

MINIMUM PIPE COVER NOTES:

LOCATION	MINIMUM COVER
NO SUBJECT TO VEHICLE LOADING	100mm SINGLE RESIDENTIAL
SUBJECT TO VEHICLE LOADING	450mm WHERE NOT IN A ROAD
UNDER A SEALED ROAD	600mm
UNSEALED ROAD	750mm
PAVED DRIVEWAY	100mm PLUS DEPTH OF CONCRETE

SEE AS2032 INSTALLATION OF UPVC PIPES FOR FURTHER INFORMATION.

CONCRETE PIPE COVER SHALL BE IN ACCORDANCE WITH AS3725-1989 LOADS ON BURIED CONCRETE PIPES, HOWEVER A MINIMUM COVER OF 450mm WILL APPLY.

WHERE INSUFFICIENT COVER IS PROVIDED, THE PIPE SHALL BE COVERED AT LEAST 50mm THICK OVERLAY AND SHALL BE PAVED WITH AT LEAST:
- 150 mm REINFORCED CONCRETE WHERE SUBJECT TO HEAVY VEHICLE TRAFFIC
- 75mm THICKNESS OF BRICK OR 100mm OF CONCRETE PAVING WHERE SUBJECT TO LIGHT VEHICLE TRAFFIC; OR
- 50mm THICK BRICK OR CONCRETE PAVING WHERE NOT SUBJECT TO VEHICLE TRAFFIC

SURFACE STORMWATER PIT NOTES:

PIT DEPTH (mm)	MINIMUM PIT SIZE (mm)
UP TO 600 mm	450 x 450
FROM 600mm TO LESS THAN 900mm	600 x 600
FROM 900mm	900 x 900

ALL BASEMENT PIT TO BE FITTED WITH HEAVY DUTY CLASS C GRATE & FRAME

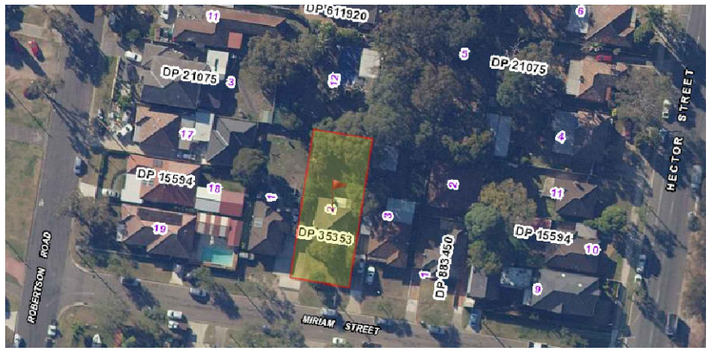
LEGEND

	DENOTES BELOW GROUND ON-SITE DETENTION TANK
	DENOTES ON-SITE DETENTION BASIN
DP	DENOTES Φ100 DOWNPIPE (U.N.O)
IP	DENOTES INSPECTION OPENING WITH SCREW DOWN LID AT FINISHED SURFACE LEVEL
PB	DENOTED PLANTER BOX DRAINS
FD FD	DENOTED SURFACE DRAINAGE GRATES
CE	DENOTED CLEANING EYE
	STORMWATER PIT - SOLID COVER
	STORMWATER PIT - GRATED INLET
	DENOTES GRATED DRAIN
	DENOTES ABSORPTION TRENCH
	DENOTES NON RETURN VALVE
	DENOTES OVERLAND FLOW PATH
IL	INVERT LEVEL
TK	TOP OF KERB
RL	REDUCED LEVEL/SURFACE LEVEL
RL 17.09 +	PROPOSED FINISH SURFACE LEVEL
100	DENOTED Φ100mm PVC (SEWER GRADE) @1% MIN. FALL U.N.O FOR RAINWATER RE-USE
100	DENOTED Φ100mm PVC (SEWER GRADE) @1% MIN. FALL U.N.O
150	DENOTED Φ150mm PVC (SEWER GRADE) @1% MIN. FALL U.N.O
225	DENOTED Φ225mm PVC (SEWER GRADE) @0.5% MIN. FALL U.N.O
G	DENOTE AGG PIPE
	DENOTE RAINWATER TANK

SCHEDULE OF DRAWING

DESCRIPTION	SHEET NUMBER
COVER SHEET & NOTES	C1
DRAINAGE PLANS	C2
STORMWATER DETAILS	C3
STORMWATER DETAILS	C4

LOCATION MAP



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QUALITY CONTROL
DESIGNED SH.D. DATE 22.03.2022
CHECKED M.D. DATE 22.03.2022

APPROVED:
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B.E, M.I.E, CpEng, Nper-3

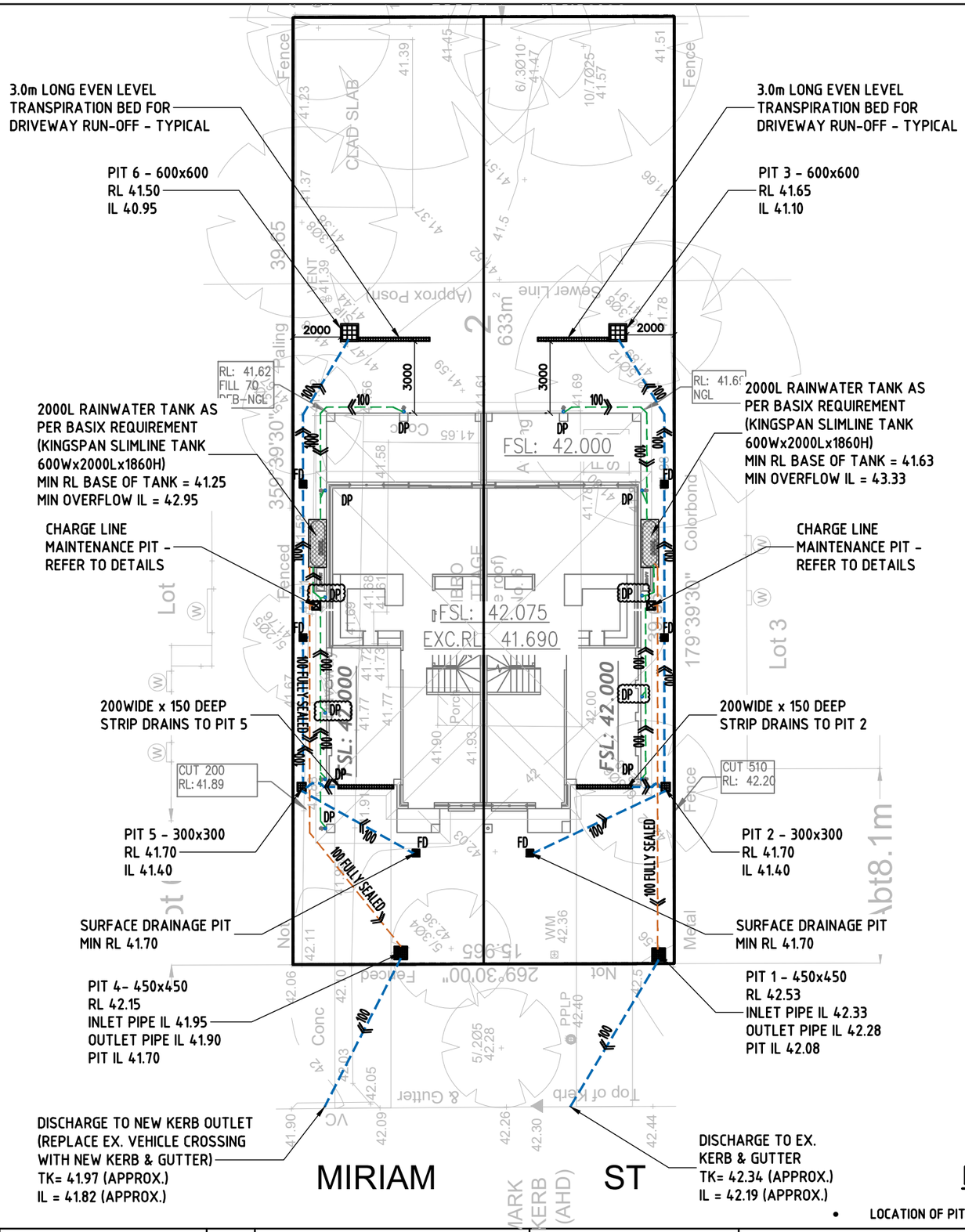
CLIENT: Allcastle Homes

ADDRESS: LOT 2, No. 6 MIRIAM STREET, BASS HILL

TITLE: COVER SHEET & NOTES

DRAWING STATUS: CONCEPT PLAN FOR APPROVAL
SCALE (AT ORIGINAL SIZE): AS NOTED
PROJECT NO. 28036 DRAWING NO. C1 REVISION NO. A

a3

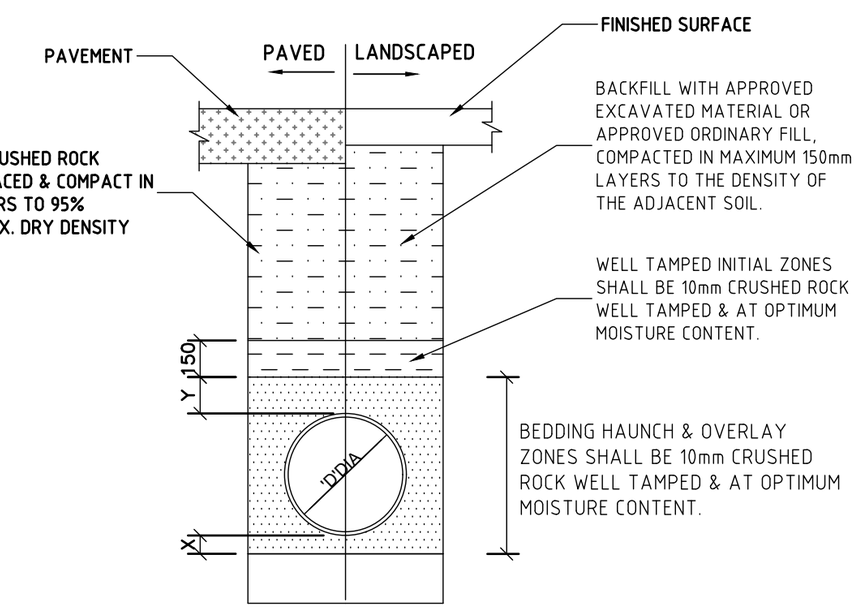


DESIGN SUMMARY

CANTERBURY-BANKSTOWN CITY COUNCIL

DUAL OCCUPANCY DEVELOPMENT
TOTAL SITE AREA = 633.0 m^2
TOTAL ROOF AREA = 248.2 m^2
PROPOSED IMPERVIOUS AREA = 277.4 m^2 (43.8% OF SITE AREA)
1:100 ARI 5MIN. = 201 mm/hr
1:20 ARI 5MIN. = 160 mm/hr

1. DUE TO TOTAL IMPERVIOUS AREA IS LESS THAN 66% OSD IS NOT REQUIRED.
2. DOWNPIPE SIZE MIN. ø90, GUTTER SIZE MIN.115 HI FRONT
3. ROOF AREA WILL BE COLLECTED INTO RAINWATER TANK, OVERFLOW FROM RAINWATER TANK WILL CHARGE TO BOUNDARY PIT AND THEN DISCHARGE TO KERB & GUTTER BY GRAVITY.
4. ALL CHARGED LINES MUST BE OF PRESSURE GRADE AND JOINTS ARE TO BE SOLVENT WELDED
5. THE PIPE SYSTEM INCLUDING DOWNPIPES MUST BE CONSTRUCTED FROM SUITABLY DURABLE MATERIALS.
6. SEALED CLEANING EYES ARE TO BE PROVIDED AT LOWEST POINTS IN THE SYSTEM AND AT FRONT BOUNDARY PRIOR TO COUNCIL LAND AND SHOULD BE EASE TO ACCESS.



NOTE:
1 REFER TO PIPE LAYING SPECIFICATIONS FOR DETAILS.

UPVC PIPE

PIPE DIA 'D'	W	X MIN.	Y
100-150	300	75	75
225-300	600	75	75

TYPICAL PIPE LAYING DETAIL

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DRAINAGE PLAN

SCALE 1:200

- LOCATION OF PITS AND PIPES SHOWED ON PLAN ARE INDICATIVE ONLY.

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APPROVED:
S. NASTASI
B.E, M.I.E, CpEng, Nper-3

CLIENT: Allcastle Homes

ADDRESS: LOT 2, No. 6 MIRIAM STREET, BASS HILL

TITLE: DRAWING PLAN

DRAWING STATUS: CONCEPT PLAN FOR APPROVAL

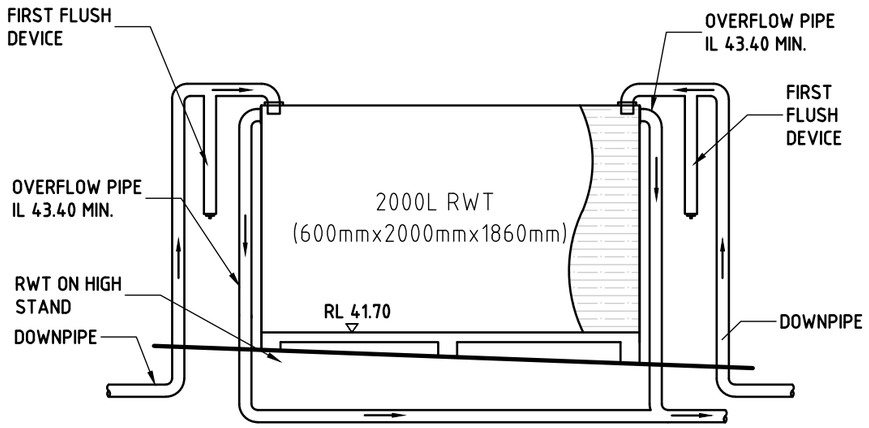
SCALE (AT ORIGINAL SIZE): AS NOTED

PROJECT NO.	DRAWING NO.	REVISION NO.
28036	C2	A

a3

RAINWATER TANK NOTES:

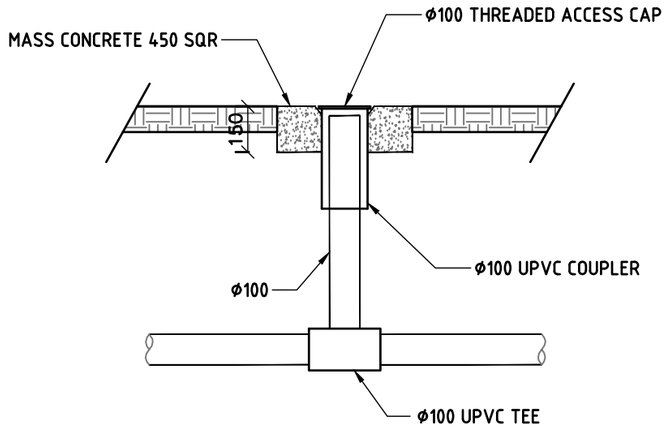
1. RAINWATER TANKS BY KINGSPAN (TEL: 1300 736 562) OR SIMILAR.
2. DIMENSIONS ARE INDICATIVE ONLY. EXACT DETAILS TO MANUFACTURER'S SPECIFICATIONS.
3. A FIRST FLUSH DEVICE IN ACCORDANCE WITH MANUFACTURER'S SPECIFICATIONS SHALL BE FITTED TO RAINWATER TANK SYSTEM TO FLUSH OUT THE FIRST 0.5mm OF RUN-OFF FROM THE ROOF AREA THAT DRAINED INTO THE TANK (E.G. 0.5L/m2).
4. PUMP SIZE & SPECIFICATION TO BE NOMINATED BY MANUFACTURER
5. 2 OVERFLOW PIPE FULLY SEALED



RAINWATER TANK 1 DETAIL
NTS

NOTES

1. DOWNPIPE SHALL BE FULLY SEAL UP TO RL 26.62 MINIMUM. THE SEALD PORTION OF THE DOWNPIPES MUST BE PAINTED, IN A COLOUR TO COMPLIMENT THE DEVELOPMENT AND TO PROTECT THEM AGAINST ULTRA-VIOLET LIGHT DAMAGE FROM THE SUN.
2. THE SEALED DOWNPIPES SHOULD BE CONSTRUCTED OF ONE MATERIAL TO THE UNDERSIDE OF THE ROOF GUTTER FOR AESTHETICS REASON.
3. DOWNPIPE SIZE MIN. ø90, GUTTER SIZE MIN.125 QUAD
4. SEALED CLEANING EYES MUST BE PLACED AT 30 METTRE INTERVALS, CRITICAL BENDS IN THE PIPELINE AND AT THE LOWEST POINT IN THE DRAINAGE SYSTEM.
5. NO SURFACE INLET PITS CAN BE CONNECTED TO THE CHARGED LINE.



CLEANNING EYE DETAILS
SCALE 1:20

NASTASI & ASSOCIATES CONSULTING CIVIL & STRUCTURAL ENGINEERS

HYDRAULIC GRADE LINE CALCULATIONS

Project No: 28036
Address: LOT 2 NO 6 MIRIAM STREET BASS HILL

Coefficients

Gravity acceleration	g	9.81	m/s^2
Roughness Coeficient	k	0.005	10^{-3}m (pvc pipe)
Bendloss Coefficient	K_b	0.47	90^0 bend
Water density	ρ	1000	kg/m^3
Runoff Coefficient	C_{roof}	0.85	
Absolute viscosity	μ	0.001	water
Minor Loss Coefficient	ξ	1	

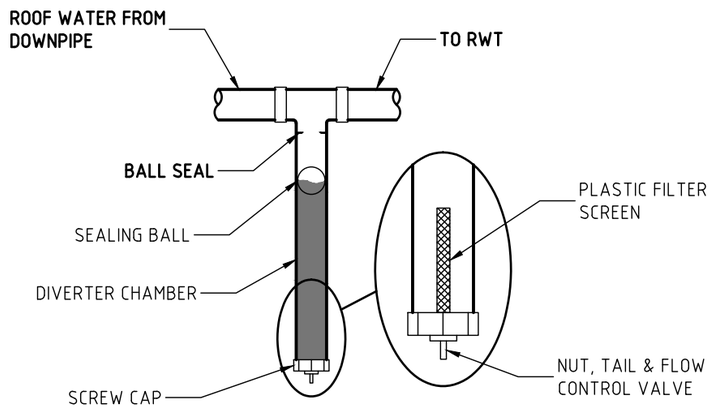
Length of pipe	L	16	m
Pipe diameter	h_d	0.1	m
Roof Area	A_{roof}	125	m^2
Rainfall 100 year	I_{5min}	201	mm/h

Flow Rate	Q	5.93	l/s
Flow Velocity	V	0.38	m/s

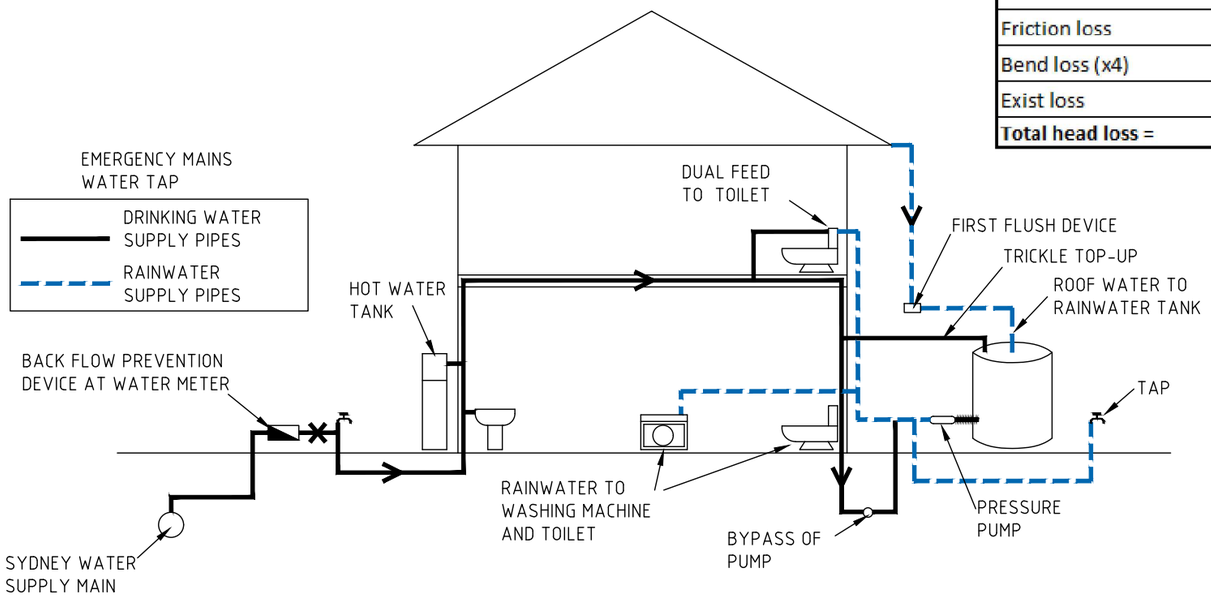
Fiction loss

Reynolds No	Re	37766	Turbulent
Roughness Ratio		0.00005	
Friction coefficient	λ	0.023	(The Moody Diagram)

Friction loss	h_f	0.03	m
Bend loss (x4)	h_b	0.03	m
Exist loss	h_e	0.03	m
Total head loss =	H	**0.08**	m



FIRST FLUSH DEVICE DETAIL
1:20



RAINWATER TANK RE-USE DIAGRAM
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APPROVED:
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B.E, M.I.E, CpEng, Nper-3

CLIENT: Allcastle Homes

ADDRESS: LOT 2, No. 6 MIRIAM STREET, BASS HILL

TITLE: OSD BASIN PLAN & DETAILS

DRAWING STATUS: CONCEPT PLAN FOR APPROVAL

SCALE (AT ORIGINAL SIZE): AS NOTED

PROJECT NO.	DRAWING NO.	REVISION NO.
28036	C3	A

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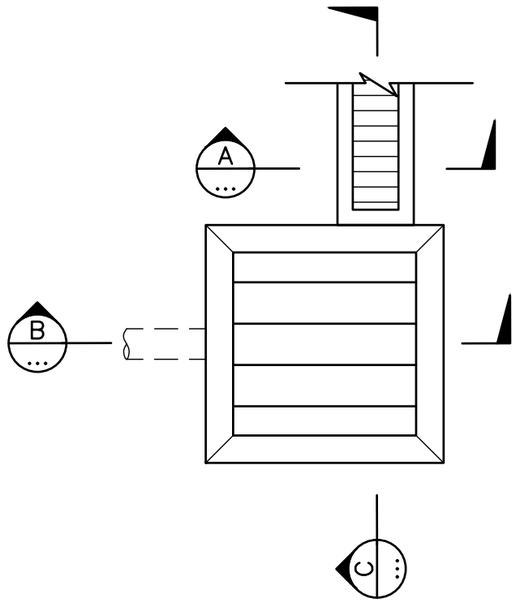
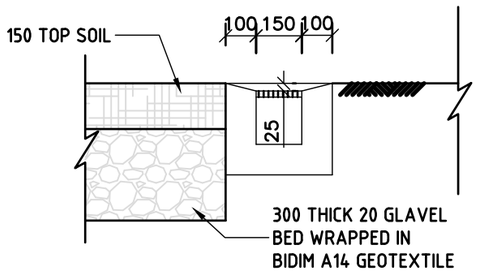


SPREADER SYSTEM PLAN
SCALE 1:20



SECTION A
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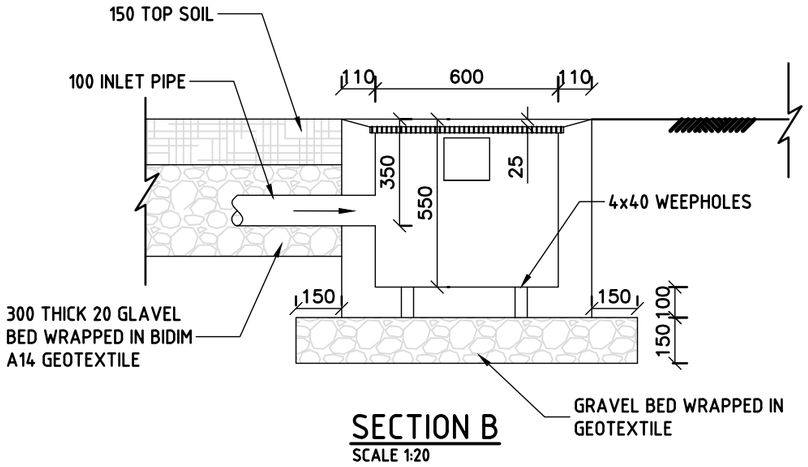

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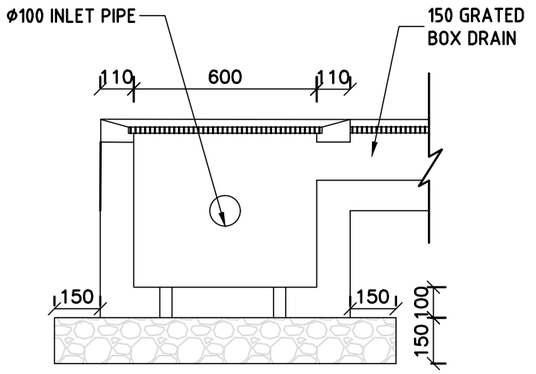

SECTION C
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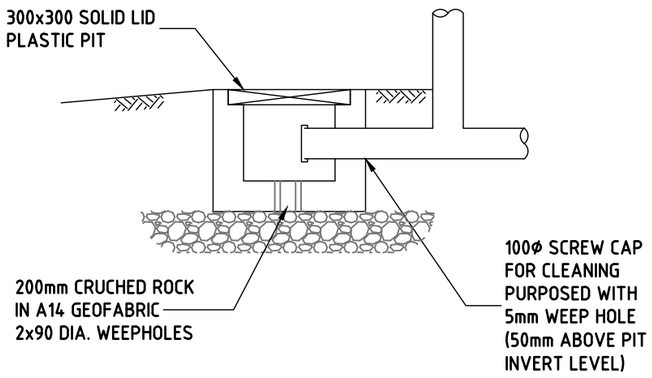
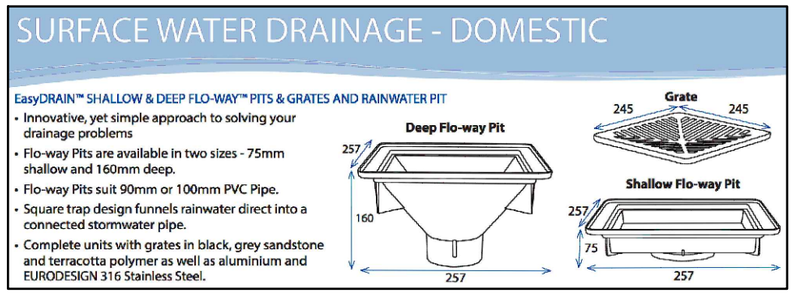
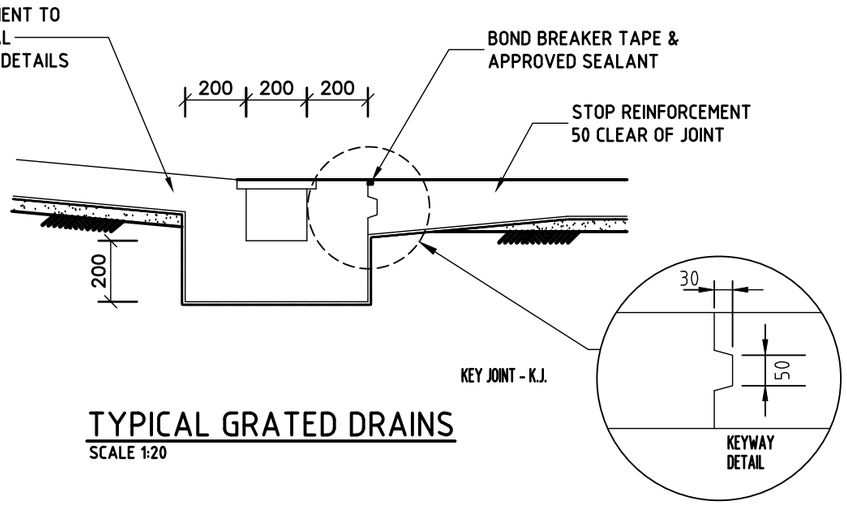


TYPICAL MAINTENANCE PIT
SCALE 1:20



TYPICAL SURFACE DRAINS
NTS



TYPICAL GRATED DRAINS
SCALE 1:20

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DIAL BEFORE YOU DIG

ISSUE FOR APPROVAL

ISSUE	REVISION	DATE
A	ISSUED FOR REVIEW	22.03.2022

REFERENCE COORDINATION DRAWING

DISCIPLINE	DRAWING TITLE AND NUMBER	DATE	REV.		DRAWING TITLE AND NUMBER	DATE	REV.
ARCH.				FIRE			
STRUCT.				LANDS			
MECH.				CIVIL			
ELEC.				SURVEY			
HYD.							

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QUALITY CONTROL		APPROVED:	CLIENT:
DESIGNED	DATE	S. NASTASI	Allcastle Homes
SH.D.	22.03.2022	B.E, M.I.E, CpEng, Nper-3	
CHECKED	DATE		
M.D.	22.03.2022		

ADDRESS: LOT 2, No. 6 MIRIAM STREET, BASS HILL

TITLE: STORMWATER DETAILS

DRAWING STATUS: CONCEPT PLAN FOR APPROVAL

SCALE (AT ORIGINAL SIZE): AS NOTED

PROJECT NO.	DRAWING NO.	REVISION NO.
28036	C4	A

a3