

GENERAL

- 1. THESE DRAWINGS SHALL BE READ IN CONJUNCTION WITH ALL ARCHITECTURAL & OTHER WORKING DRAWINGS, SPECIFICATIONS & WITH SUCH WRITTEN INSTRUCTIONS AS MAY BE ISSUED DURING THE COURSE OF THE CONTRACT.
- 2. ALL WORKMANSHIP & MATERIALS SHALL BE IN ACCORDANCE WITH THE REQUIREMENTS OF THE CURRENT EDITION OF THE RELEVANT AUSTRALIAN STANDARDS, THE BUILDING CODE OF AUSTRALIA AND ANY OTHER APPLICABLE AUTHORITY REQUIREMENTS.
- 3. ANY CONFLICT BETWEEN THESE NOTES, THE SPECIFICATION, THE DRAWINGS OR ANY OTHER RELEVANT DOCUMENTS SHALL BE REFERRED TO THE ENGINEER FOR DECISION PRIOR TO PROCEEDING WITH THE WORK.
- 4. DIMENSIONS SHALL NOT BE OBTAINED BY SCALING THE DRAWINGS. FOR SETTING OUT DIMENSIONS & LEVELS REFER TO ARCHITECTURAL DRAWINGS.
- 5. THE BUILDER SHALL BE RESPONSIBLE FOR THE PROVISION OF ALL SHORING TO MAINTAIN THE STABILITY & INTEGRITY OF EXCAVATIONS & ADJACENT STRUCTURES.
- 6. IT IS THE CONTRACTOR'S RESPONSIBILITY TO LOCATE ALL SERVICES PRIOR TO COMMENCEMENT OF NAY EARTHWORKS.
- 7. ALL DIMENSIONS ARE IN MILLIMETERS UNLESS NOTED OTHERWISE.

STORMWATER

- 1. ALL LEVELS ARE TO A.H.D. UNO.
- 2. THE STORMWATER SYSTEM IS DESIGNED TO COMPLY WITH COUNCIL'S DESIGN CRITERIA AND TO APPROXIMATELY MAINTAIN EXISTING FLOW PATTERNS
- 3. OVERLAND FLOW PATHS ARE PRESERVED.
- 4. EXISTING DRAINAGE AND LEVELS ARE BASED ON SURVEY PROVIDED & SHOULD BE ASSUMED TO BE APPROXIMATE. ALLOW TO CONFIRM ALL RELEVANT DETAILS BEFORE PROCEEDING WITH AFFECTED AREAS.
- 5. STORMWATER DESIGN AND WORKS TO COMPLY WITH COUNCIL'S DCP, DESIGN CRITERIA AND AS3500.
- 6. ALL PITS TO BE PRECAST CONCRETE OR F.R..C. UNO.
- 7. DOWNPIPE LOCATIONS SHOULD BE CONFIRMED WITH ARCHITECTURAL PLANS UNO.
- 8. GRADE LOCAL SURFACES INTO PITS TO ENSURE COLLECTION OF WATER & THAT THERE ARE NO AREAS OF PONDING, TYPICAL.
- 9. GRATED TRENCHES AND SILT ARRESTOR PITS TO BE INSPECTED AND CLEANED AFTER PERIODS OF HEAVY RAINFALL.
- 10. TREE ROOTS TO BE AVOIDED DURING PLACEMENT OF DRAINAGE SYSTEM.
- 11. ALL PIPES TO BE Ø100 UPVC UNO.
- 12. ALL PIPES TO HAVE 100MIN. COVER IN LANDSCAPED AREAS AND 600 MIN. COVER IN TRAFFICABLE AREAS.
- 13. ALL INLET AND OUTLET PIPES FROM PITS TO BE CONNECTED AT THE HIGHEST POSSIBLE INVERT LEVEL WHILST KEEPING 1% MIN. GRADE UNO.
- 14. FINISHED SURFACES TO BE GRADED AWAY FROM THE DWELLING AND TOWARD THE PITS.
- 15. GRATED TRENCHES TO BE 1% MIN. GRADE THROUGHOUT TO OUTLET PIPE.
- 16. FINISHED CROSSING AND DRIVEWAY LEVELS ARE BASED ON SURFACE LEVELS OF THE EXISTING LAYBACK AND STREET BOUNDARY LEVELS.
- 17. BEFORE COMMENCING CONSTRUCTION OF THE CROSSING AND DRIVEWAY, COUNCIL'S DESIGNED STREET BOUNDARY LEVELS MUST BE OBTAINED AND USED FOR CONSTRUCTION.

SOIL AND WATER
MANAGEMENT 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 TO BE CONNECTED TO STORMWATER SYSTEM AS SOON AS POSSIBLE.
- 5. ROADS AND FOOTPATHS TO BE SWEEPED DAILY AND KEPT CLEAN AT ALL TIMES
- 6. INSTALL TEMPORARY SEDIMENT BARRIERS TO ALL INLET PITS LIKELY TO COLLECT SILT LADDEN WATER, TO COUNCILS'S REQUIREMENTS.
- 7. NOT WITHSTANDING DETAILS SHOWN, IT IS THE SITE MANAGERS SOLE RESPONSIBILITY TO ENSURE THAT ALL SITE ACTIVITIES COMPLY WITH THE REQUIREMENTS OF THE CLEAN WATERS ACT.

SEDIMENT CONTROL NOTES

- 1. ALL EROSION AND SEDIMENTATION CONTROL MEASURES, INCLUDING REVEGETATION AND STORAGE OF SOIL AND TOPSOIL, SHALL BE IMPLEMENTED TO THE STANDARDS OF THE SOIL CONSERVATION OF NSW.
- 2. ALL DRAINAGE WORKS SHALL BE CONSTRUCTED AND STABILISED AS EARLY AS POSSIBLE DURING DEVELOPMENT.
- 3. SEDIMENT TRAPS SHALL BE CONSTRUCTED AROUND ALL INLET PITS, CONSISTING OF 300mm WIDE X 300mm DEEP TRENCH.
- 4. ALL SEDIMENT BASINS AND TRAPS SHALL BE CLEANED WHEN THE STRUCTURES ARE A MAXIMUM OF 60 % FULL OF SOIL MATERIALS, INCLUDING THE MAINTENANCE PERIOD.
- 5. ALL DISTURBED AREAS SHALL BE REVEGITATED AS SOON AS THE RELEVANT WORKS ARE COMPLETED.
- 6. SOIL AND TOPSOIL STOCKPILES SHALL BE LOCATED AWAY FROM DRAINAGE LINES AND AREA WHERE WATER MAY CONCENTRATE.
- 7. FILTER SHALL BE CONSTRUCTED BY STRETCHING A FILTER FABRIC (PROPEX OR APPROVED EQUIVALENT BETWEEN POST AT 3.0m CENTRES. FABRIC SHALL BE BURIED 150mm ALONG ITS LOWER EDGE.

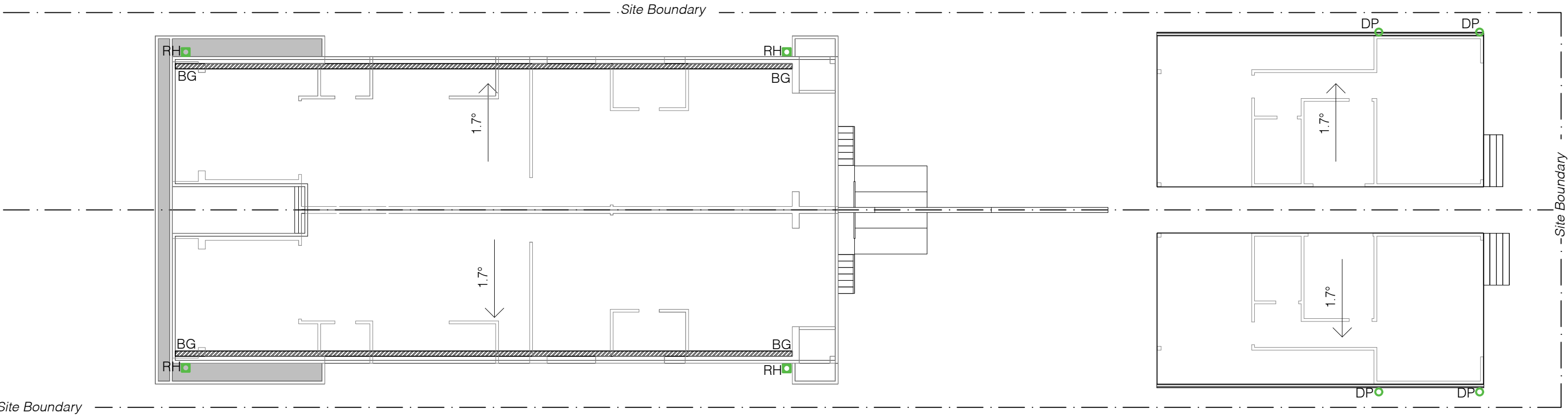


CONSULTANTS:

REV	DATE	DESCRIPTION
1	04/02/26	

COUNCIL:	Canterbury - Bankstown Council
DRAWN BY:	R.P
DESIGNED BY:	R.D
CLIENT:	
DRAWING TITLE:	Stormwater Notes

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ROOF STORMWATER DRAINAGE PLAN

SCALE 1:150

NOTES:

ALL LEVELS & DETAILS NEED TO BE CONFIRMED BY THE ENGINEER BEFORE COMMENCEMENT OF WORK

THIS SHEET NEEDS TO BE PRINTED IN COLOR FOR CLARITY

MIN SIZE OF BOX GUTTER : 200MM (w) x 150MM (d) WITH MIN SIZE OF RAINWATER HEAD: 165MM (w) x 160MM (d)

MINIMUM SIZE OF THE EAVES GUTTER: 115MM X 70 MM

THIS PLAN HAS BEEN PREPARED FROM A COMBINATION OF FIELD SURVEY AND EXISTING RECORDS. PRIOR TO ANY DEMOLITION, EXCAVATION OR CONSTRUCTION ON THE SITE, THE RELEVANT AUTHORITY SHOULD BE CONTACTED FOR POSSIBLE LOCATION OF FURTHER UNDERGROUND SERVICES AND DETAILED LOCATION OF ALL SERVICES

RH

RAINWATER HEAD WITH DOWNPIPE Ø 100 MM

DP

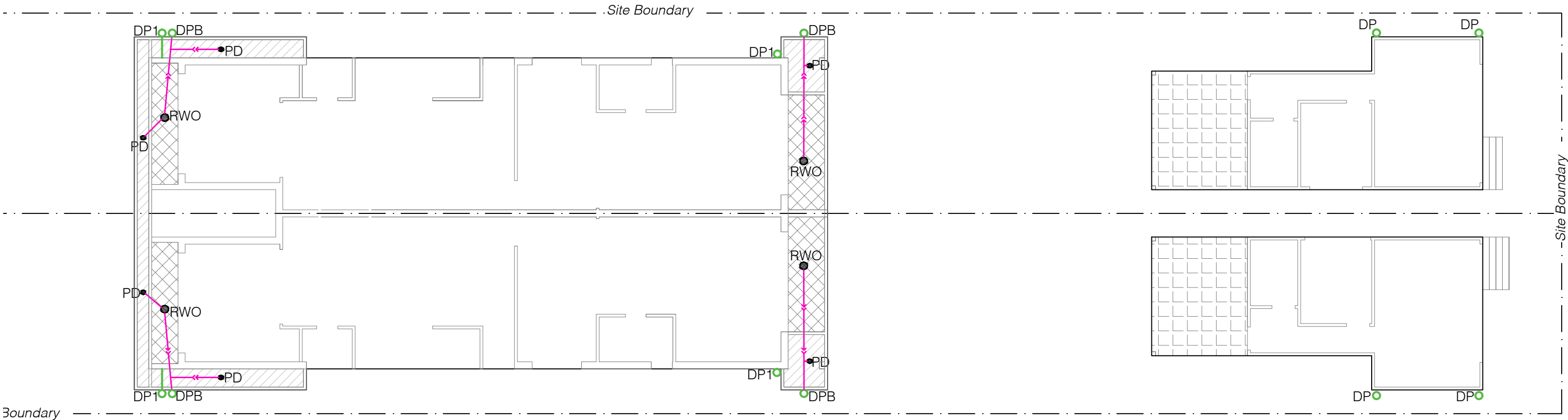
DP DOWNPIPE Ø 100 MM STARTING FROM ROOF

BG

BOX GUTTER

ROOF UNDER

- NOTES:
- INSTALL INSPECTION OPENINGS AT MAJOR BENDS FOR STORMWATER AND ALL LOW POINTS OF DOWNPIPES
 - ENSURE ANY PROPOSED PAVING IS GRADED SO THAT IT IS NOT IMPACTING ADJOINING PROPERTIES.
 - ENSURE TOP OF TANK IS MIN 0.7M BELOW ROOF GUTTERS TO ENSURE SUFFICIENT HEAD FOR THE SYSTEM.



FIRST FLOOR STORMWATER DRAINAGE PLAN

SCALE 1:150

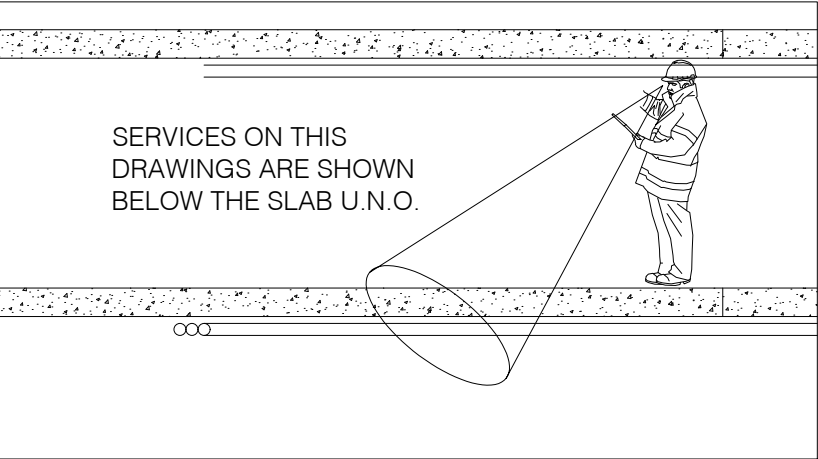
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- DP DP DOWNPIPE Ø 100 MM STARTING FROM ROOF
- DP1 DP DOWNPIPE Ø 100 MM STARTING FROM FIRST FLOOR
- DPB DP DOWNPIPE Ø 100 MM STARTING FROM BALCONY
- PD PLANTER DRAIN OUTLET
- RWO FLOOR DRAIN RAINWATER OUTLET
- Ø 100 MM UPVC STORMWATER PIPE MIN 1% UNDER THE SLAB CONNECTED TO DOWNPIPE
- BALCONY
- PLANTER BOX



NOTES:

- INSTALL INSPECTION OPENINGS AT MAJOR BENDS FOR STORMWATER AND ALL LOW POINTS OF DOWNPIPES
- ENSURE ANY PROPOSED PAVING IS GRADED SO THAT IT IS NOT IMPACTING ADJOINING PROPERTIES.
- ENSURE TOP OF TANK IS MIN 0.7M BELOW ROOF GUTTERS TO ENSURE SUFFICIENT HEAD FOR THE SYSTEM.

CONSULTANTS:

REV	DATE	DESCRIPTION
1	04/02/26	

COUNCIL:

Canterbury - Bankstown Council

DRAWN BY:

R.P

DESIGNED BY:

R.D

CLIENT:

DRAWING TITLE:

First Floor Drainage Plan

SITE ADDRESS: 35 Hydræ St, Revesby NSW 2212

LOT: 40 | **SEC:** D | **DP:** 1528

ISSUED FOR: CDC

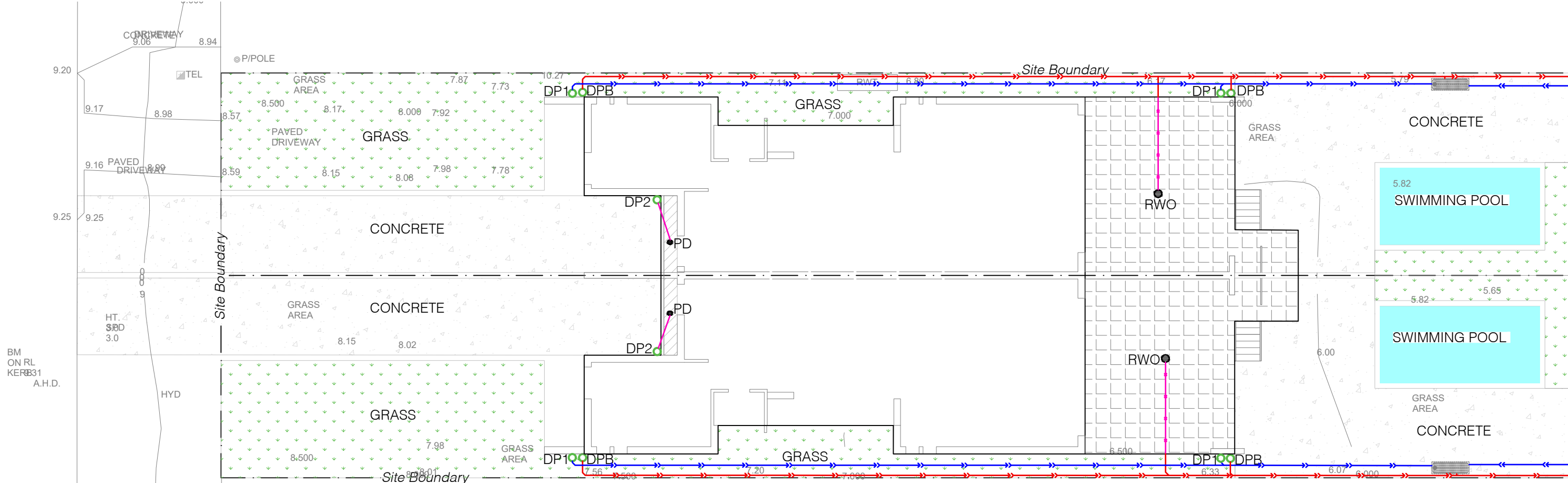
PROJECT: Proposed Dual Occupancy

SCALE: 1:150@ A3

DATE: 03/02/26

REV: R1

SHEET NO.: SW-02



GROUND FLOOR STORMWATER DRAINAGE PLAN

SCALE 1:150

NOTES:

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NOTES:

1. INSTALL INSPECTION OPENINGS AT MAJOR BENDS FOR STORMWATER AND ALL LOW POINTS OF DOWNPIPES
2. ENSURE ANY PROPOSED PAVING IS GRADED SO THAT IT IS NOT IMPACTING ADJOINING PROPERTIES.
3. ENSURE TOP OF TANK IS MIN 0.7M BELOW ROOF GUTTERS TO ENSURE SUFFICIENT HEAD FOR THE SYSTEM.

- DP DOWNPIPE Ø 100 MM STARTING FROM ROOF
- DP1 DOWNPIPE Ø 100 MM STARTING FROM FIRST FLOOR
- DPB DOWNPIPE Ø 100 MM STARTING FROM BALCONY
- DP2 DOWNPIPE Ø 100 MM STARTING FROM GROUND FLOOR
- CONCRETE AREA
- GRASS AREA
- ALFRESCO
- LL LID LEVEL OF THE PIT
- ILin INVERT LEVEL OF INLET PIPE
- ILout INVERT LEVEL OF OUTLET PIPE
- Ø 100 MM UPVC STORMWATER PIPE MIN 1% FALL CONNECTED TO WATER TANK
- Ø 100 MM UPVC STORMWATER PIPE MIN 1% FALL CONNECTED TO DISCHARGE PIT
- Ø 100 MM UPVC STORMWATER PIPE MIN 1% UNDER THE SLAB CONNECTED TO DISCHARGE PIT
- Ø 150 MM UPVC STORMWATER PIPE MIN 1% FALL CONNECTED TO DISPERSAL TRENCH
- RWO FLOOR DRAIN RAINWATER OUTLET
- ABOVE GROUND RAINWATER TANK AS/BASIX

CONSULTANTS:

REV	DATE	DESCRIPTION
1	04/02/26	

COUNCIL:
DRAWN BY:
DESIGNED BY:
CLIENT:

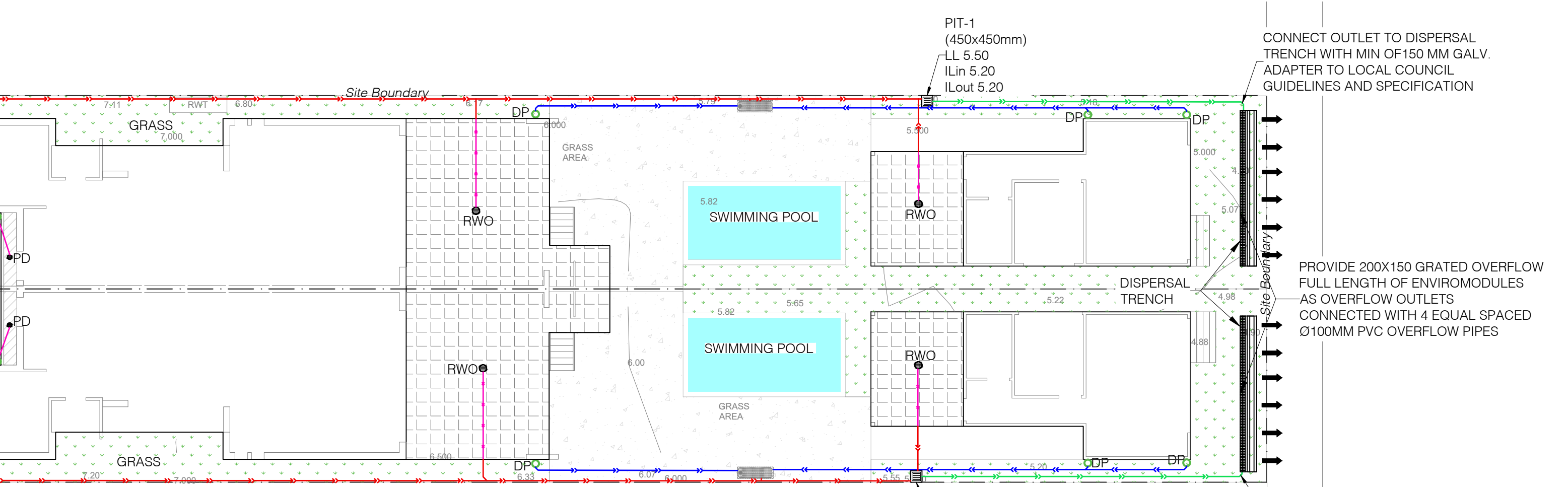
Canterbury - Bankstown Council
R.P
R.D

DRAWING TITLE:

Ground Floor Drainage Plan

SITE ADDRESS: 35 Hydræ St, Revesby NSW 2212
LOT: 40 | **SEC:** D | **DP:** 1528
ISSUED FOR: CDC
PROJECT: Proposed Dual Occupancy

SCALE: 1:150@ A3 **DATE:** 03/02/26 **REV:** R1 **SHEET NO.:** SW-03



DP

●

DOWNPIPE Ø 100 MM STARTING FROM ROOF

DP1

●

DOWNPIPE Ø 100 MM STARTING FROM FIRST FLOOR

DPB

●

DOWNPIPE Ø 100 MM STARTING FROM BALCONY

DP2

●

DOWNPIPE Ø 100 MM STARTING FROM GROUND FLOOR

CONCRETE AREA

GRASS AREA

ALFRESCO

LL

LID LEVEL OF THE PIT

ILin

INVERT LEVEL OF INLET PIPE

ILout

INVERT LEVEL OF OUTLET PIPE

Ø 100 MM UPVC STORMWATER PIPE MIN 1% FALL CONNECTED TO WATER TANK

Ø 100 MM UPVC STORMWATER PIPE MIN 1% FALL CONNECTED TO DISCHARGE PIT

Ø 100 MM UPVC STORMWATER PIPE MIN 1% UNDER THE SLAB CONNECTED TO DISCHARGE PIT

Ø 150 MM UPVC STORMWATER PIPE MIN 1% FALL CONNECTED TO DISPERSAL TRENCH

RWO

●

FLOOR DRAIN RAINWATER OUTLET

ABOVE GROUND RAINWATER TANK AS/BASIX

NOTES:

TOTAL SITE AREA = 1011 m²
TOTAL PERVIOUS AREA = 390 m²
TOTAL IMPERVIOUS AREA = 621 m²

TOTAL PERVIOUS AREA = 38.58%
TOTAL IMPERVIOUS AREA = 61.42% < 66%
THEREFORE, NO OSD REQUIRED

- NOTES:
- INSTALL INSPECTION OPENINGS AT MAJOR BENDS FOR STORMWATER AND ALL LOW POINTS OF DOWNPIPES
 - ENSURE ANY PROPOSED PAVING IS GRADED SO THAT IT IS NOT IMPACTING ADJOINING PROPERTIES.
 - ENSURE TOP OF TANK IS MIN 0.7M BELOW ROOF GUTTERS TO ENSURE SUFFICIENT HEAD FOR THE SYSTEM.

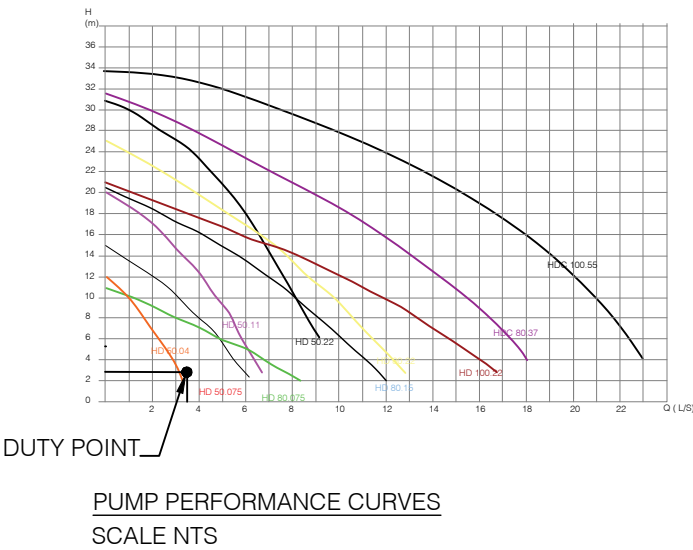
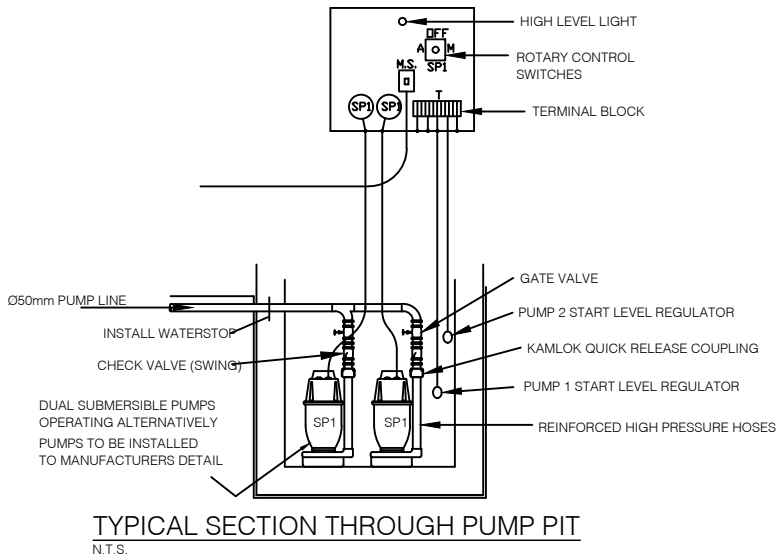
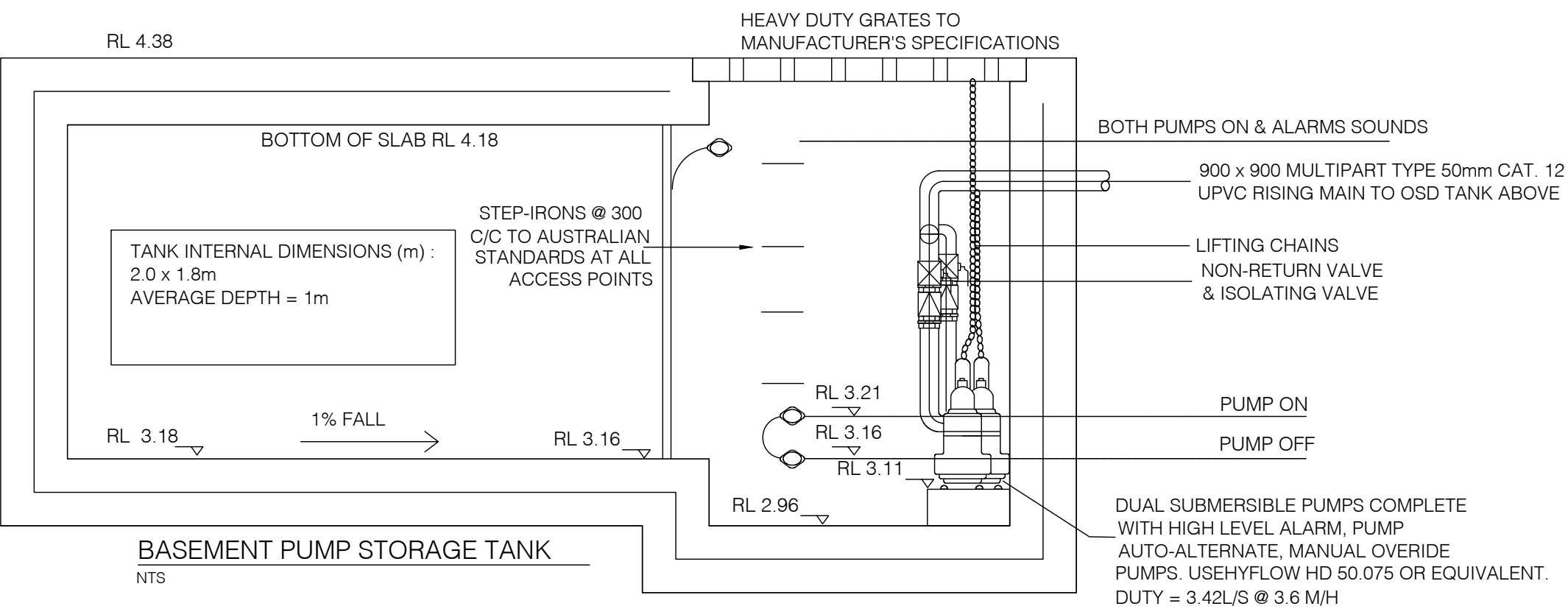
NOTES:

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PUMP-OUT CALCULATIONS
DRIVEWAY DRAINING TOWARDS PUMP IS 56m²
SUBSOIL AREA DRAINING TOWARDS PUMP IS 3.6 m²
DESIGN CRITERIA
PROVIDE WET WELL OF MINIMUM VOLUME EQUAL TO THE 10 YEAR
120 MINUTE STORM VOLUMETRIC RUNOFF (AS PER AS3500) TO
PROVIDE BACKUP STORAGE DURING POWER BLACKOUTS.
RATIONAL METHOD
CONTRIBUTING AREA (A): 59.6 m²
ARI: 10 years
STORM PERIOD (T): 120 mins
RAINFALL INTENSITY (I): 25.3 mm/h
0.9 COEFFICIENT OF RUN-OFF (C_r): 0.9
PEAK DISCHARGE CALCULATED USING THE RATIONAL METHOD
 $Q = C_r \times I = 0.9 \times 25.3 = 22.77 \text{ L/h/m}^2$
VOLUME FOR 120 min STORM
 $V = Q \times T \times A = (22.77 / 1000) \times 2 \times 59.6 = 2.72 \text{ m}^3$
LET THE MAXIMUM DISCHARGE BE FOR THE 10 MIN 100 YRS ARI
STORM. IN THE EVENT OF A STRONGER STORM SUCH AS A 5 MIN
100 YRS ARI, THE STANDBY PUMP WILL OPERATE WITH THE DUTY
PUMP TO DISCHARGE THE EXTRA RUNOFF.
ADOPT PUMP DISCHARGE RATE = 10 MINUTE, 100 YEAR STORM
INTENSITY FOR 10 MINUTE, 100 YEAR STORM = 217 mm/h
RUNOFF = 0.95 X 59.6X 217/3600 = 3.42 L/S.
PROPOSED RISING MAIN PIPE DIAMETER = 50mm uPVC
PRESSURE CLASS 9
HEAD LOSS
STATIC = 2.8m
PIPE FRICTION = 0.4m
FITTINGS = 0.4m
TOTAL = 3.6m
3.42 L/S AT 3.6m HEAD FOR TANK
PUMP TYPE: SUBMERSIBLE EQUAL TO HYFLOW HD 50.075 , OR
EQUIVALENT.
PUMP CONTROL: AUTOMATIC WITH FLOAT SWITCHES, TWO(2) X
ALTERNATING PUMPS, DUAL PUMP AT HIGH WATER LEVEL,
CONTROL PANEL WITH ALARM.



SPECIFICATIONS								
Pump Model	Automatic option	Outlet (mm)	Power (kW)	Amps (240 volt)	Amps (415 volt)	Speed (rpm)	Solids Passage (mm)	Weight (kg)
HD.50.04	240v	50	0.4	2.6	1.0	2900	5	12
HD.50.075	240v & 415v	50	0.75	4.0	1.0	2900	10	19
HD.50.11	-	50	1.1	7.0	2.5	2900	8	24
HD.50.22	-	50	2.2	14.1	4.7	2900	11	42
HD.80.075	240v	80	0.75	6.3	1.0	2900	10	21
HD.80.15	240v	80	1.5	9.2	3.4	2900	11	44
HD.80.22	-	80	2.2	14.1	4.7	2900	11	47
HDC.80.37	-	80	3.7	-	7.8	2900	16	60
HD.100.22	-	100	2.2	-	4.7	2900	11	47
HDC.100.55	-	100	5.5	-	11.8	2900	20	90

REV	DATE	DESCRIPTION
1	04/02/26	

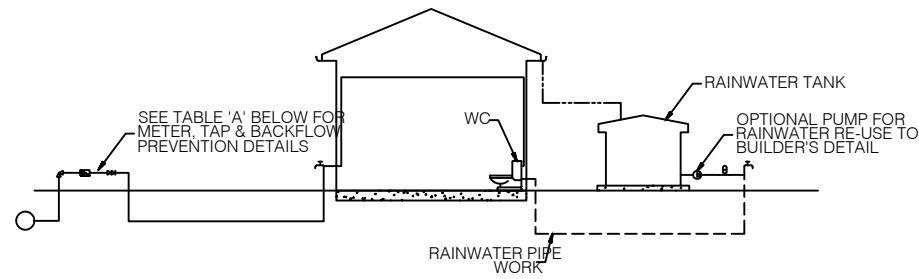


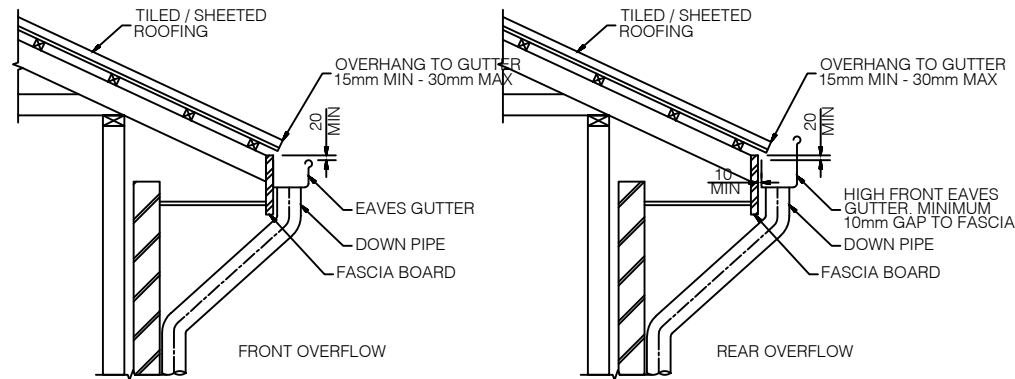
TABLE A			
RAINWATER TANK LOCATION SIZE (mm)	METER	TYPE OF TAP	TYPE OF BACKFLOW PREVENTION
ABOVE GROUND 20		BALL VALVE	DUAL CHECK VALVE (COMBINED WITH METER)
	25	BALL VALVE	DUAL CHECK VALVE
	> 32	BALL VALVE	DUAL CHECK VALVE
BELOW GROUND	20	BALL VALVE	TESTABLE DOUBLE CHECK VALVE
	25	BALL VALVE	TESTABLE DOUBLE CHECK VALVE
	> 32	BALL VALVE	TESTABLE DOUBLE CHECK VALVE

LEGEND	
	PRESSURE VESSEL
	METER
	BALL VALVE RIGHT ANGLE TYPE
	DUAL CHECK VALVE
	PUMP
	GARDEN TAP
	DRINKING WATER SUPPLY PIPES
	RAINWATER SUPPLY PIPES
	DOWN PIPES

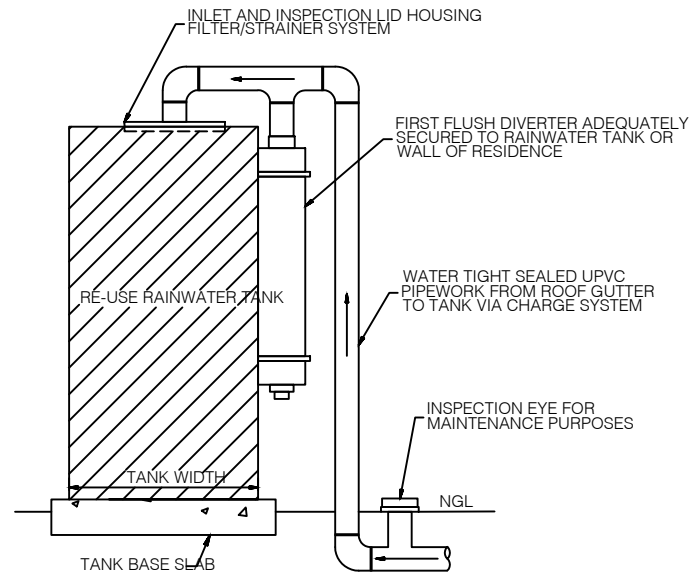
DUAL DRINKING WATER & RAINWATER SUPPLY DIAGRAM

N.T.S.

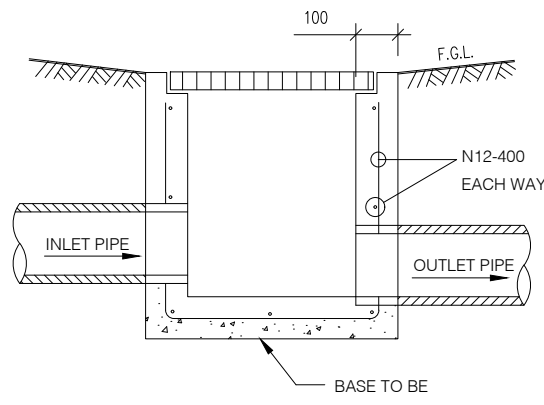
- DIAGRAM NOTES:
- DRAWING TO BE READ IN CONJUNCTION WITH SYDNEY WATER PLUMBING REQUIREMENTS
 - FOR TANKS 10,000 LITRES OR LESS, COUNCIL DEVELOPMENT CONSENT IS NOT REQUIRED, IF THEIR CONDITIONS FOR INSTALLATION ARE FOLLOWED.
 - FOR TANKS GREATER THAN 10,000 LITRES, COUNCIL DEVELOPMENT CONSENT IS GENERALLY REQUIRED.
 - FOR TANKS MORE THAN 10,000 LITRES, APPROVAL IS REQUIRED FOR BUILDING OVER SEWERS.
 - SYDNEY WATER'S APPROVAL IS REQUIRED FOR ANY TOP UP FROM DRINKING WATER SUPPLY, REGARDLESS OF TANK SIZE. NO DIRECT CONNECTION IS ALLOWED BETWEEN THE DRINKING WATER SUPPLY AND THE RAINWATER TANK SUPPLY.
 - RAINWATER PIPEWORK IS SHOWN ON THE DIAGRAM AS SUPPLYING INTERNAL AND EXTERNAL RAINWATER USES. CUSTOMERS MAY WANT ONE OR THE OTHER.
 - ANY DESIGNED ACCESS LID INTO RAINWATER RE-USE TANK IS TO HAVE A LOCKABLE LID. IF THE LID IS DESIGNED TO BE ACCESSED BY A MAINTENANCE PERSON, IT MUST BE AT LEAST 600 mm x 900 mm IN SIZE.



TYPICAL EAVES GUTTER DETAIL
1:20

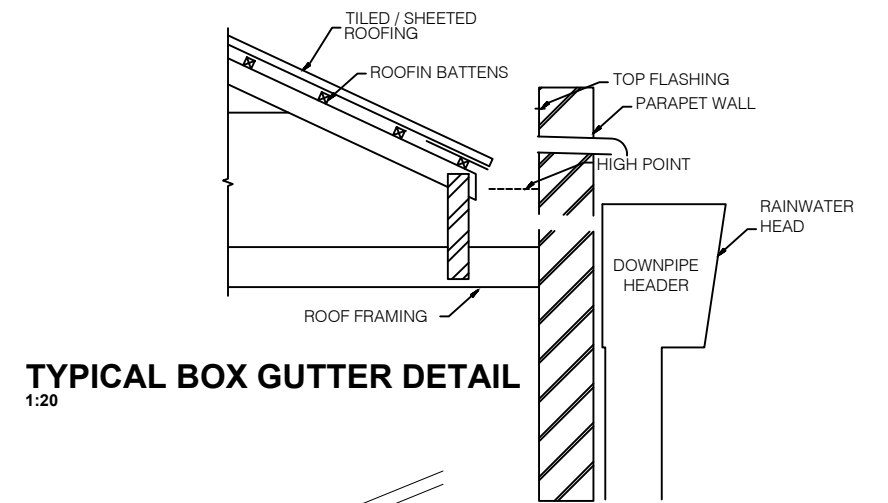


TYPICAL FIRST FLUSH DETAIL
N.T.S.

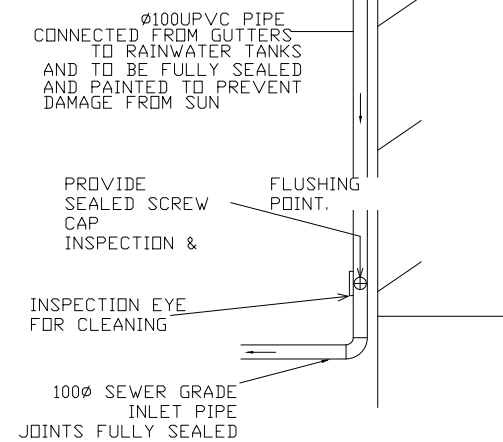


TYPICAL PIT SECTION A-A

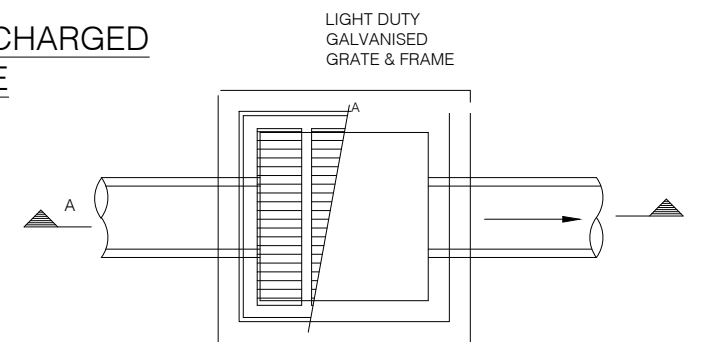
N.T.S.



TYPICAL BOX GUTTER DETAIL
1:20



TYPICAL CHARGED DOWNPIPE
N.T.S.



TYPICAL PIT DETAIL

N.T.S.

BRICKWORK/BLOCKWORK WALLS OR PRECAST CONCRETE PITS MAY BE SUBSTITUTED SUBJECT TO APPROVAL

CONSULTANTS:

REV	DATE	DESCRIPTION
1	04/02/26	

COUNCIL: Canterbury - Bankstown Council
DRAWN BY: R.P
DESIGNED BY: R.D
CLIENT:

DRAWING TITLE: Typical Stormwater Details

SITE ADDRESS: 35 Hydræ St, Revesby NSW 2212
LOT: 40 | **SEC: D** | **DP: 1528**
ISSUED FOR: CDC
PROJECT: Proposed Dual Occupancy

SCALE: NTS **DATE:** 03/02/26 **REV:** R1 **SHEET NO.:** SW-06