896 WOODVILLE ROAD, VILLAWOOD
PROPOSED RESIDENTIAL FLAT BUILDINGS

STORMWATER CONCEPT PLANS

LOCALITY PLAN

N.T.S

DRAWING INDEX	
Drawing No.	DESCRIPTION
000	COVER SHEET PLAN
101	STORMWATER CONCEPT PLAN BASEMENT LEVEL 3 SHEET 1 OF 2
102	STORMWATER CONCEPT PLAN BASEMENT LEVEL 3 SHEET 2 OF 2
103	STORMWATER CONCEPT PLAN BASEMENT LEVEL 2
104	STORMWATER CONCEPT PLAN BASEMENT LEVEL 1
104.1	STORMWATER CONCEPT PLAN BASEMENT 1 MEZZANINE LEVEL
105	STORMWATER CONCEPT PLAN GROUND LEVEL
106	STORMWATER CONCEPT PLAN LEVEL 1
107	ON-SITE DETENTION DETAILS AND CALCULATION SHEET
117	STORMWATER CONCEPT PLAN ROOF LEVEL

NOT FOR CONSTRUCTION

Issue	Description	Date	Designed	Engineer	Checked
C	ISSUE FOR DEVELOPMENT APPLICATION	16/12/2024	YRM	EH	OC
B	ISSUE FOR DEVELOPMENT APPLICATION	23/10/2024	YRM	EH	OC
A	ISSUE FOR DEVELOPMENT APPLICATION	11/10/2024	YRM	EH	OC

10cm at full size

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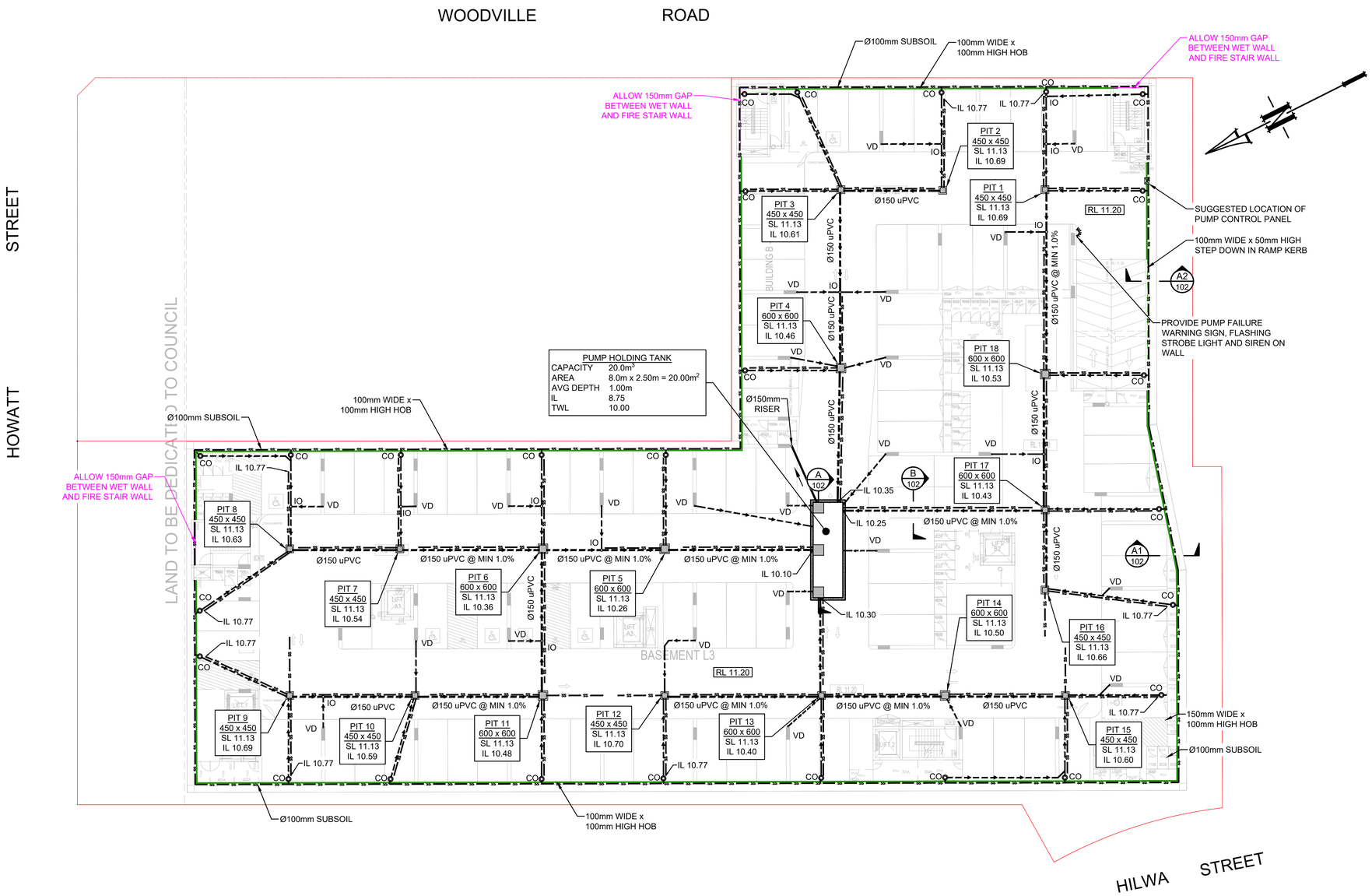
Project
896 WOODVILLE ROAD, VILLAWOOD
PROPOSED RESIDENTIAL
FLAT BUILDINGS
STORMWATER CONCEPT PLAN

Drawing Title
COVER SHEET PLAN

Scale A1	Project No.	Dwg. No.	Issue
N.T.S.	240246	000	C



BASEMENT 3 PLAN

SCALE 1:200

LEGEND

- PROPOSED STORMWATER PIPE
- PROPOSED GRATED STORMWATER PIT
- PROPOSED STORMWATER PIT FITTED WITH GAS TIGHT SEALED LID
- VD — Ø100mm VERTICAL DROP
- SURFACE FLOW DIRECTION
- SS — SS — Ø100mm SUBSOIL DRAINAGE TO BE WRAPPED IN GEOTEXTILE BIDIMA34 @MIN 1.0% SLOPE
- CLEANING EYE (OR INSPECTION EYE)
- IO — INSPECTION OPENING
- × RL 27.56 — FINISHED SURFACE LEVEL
- GRATED DRAIN (HD)
- FG — Ø150mm FLOOR GRATE
- (HD) — (HEAVY DUTY)

PIPES NOTE:

Ø65 PVC @ MIN 1.0%
Ø90 PVC @ MIN 1.0%
Ø100 PVC @ MIN 1.0%
Ø150 PVC @ MIN 1.0%
Ø225 PVC @ MIN 0.5%
Ø300 PVC @ MIN 0.4%
UNLESS NOTED OTHERWISE

NOTE:

CO HAVE BEEN SHOWN OUTSIDE SPOON DRAIN ON PLAN FOR CLARITY.

NOTE:

ALL STORMWATER DRAINAGE PIPES ARE Ø100 uPVC AT MIN 1.0% SLOPE U.N.O.

NOTE:

PIPES CAST IN CONCRETE BEAMS/SLABS MUST BE WRAPPED WITH 20mm ABLEFLEX.

NOTE

PROVIDE 75mm DEEP LAYER OF 10mm BLUE METAL AGGREGATE UNDER THE SLAB ON GROUND IN BETWEEN FOOTINGS. REFER DETAIL ON DRAWING 102.

STANDARD PUMP OUT DESIGN NOTES

THE PUMP OUT SYSTEM SHALL BE DESIGN TO BE OPERATED IN THE FOLLOWING MANNER:

1 - THE PUMP SHALL BE PROGRAMMED TO WORK ALTERNATELY TO ALLOW BOTH PUMPS TO HAVE AN EQUAL OPERATION LOAD AND PUMP LIFE.

2 - A FLOAT SHALL BE PROVIDED TO ENSURE OF THE MINIMUM REQUIRED WATER LEVEL IS MAINTAINED WITHIN THE SUMP AREA OF THE BELOW GROUND TANK. IN THIS REGARD THIS FLOAT WILL FUNCTION AS AN OFF SWITCH FOR THE PUMPS AT THE MINIMUM WATER LEVEL. THE SAME FLOAT SHALL BE SET TO TURN ONE OF THE PUMPS ON UPON THE WATER LEVEL IN THE TANK RISING TO APPROXIMATELY 300mm ABOVE THE MINIMUM WATER LEVEL. THE PUMP SHALL OPERATE UNTIL THE TANK IS DRAINED TO THE MINIMUM WATER LEVEL.

3 - A SECOND FLOAT SHALL BE PROVIDE AT A HIGH LEVEL, WHICH IS APPROXIMATELY THE ROOF LEVEL OF THE BELOW GROUND TANK. THIS FLOAT SHALL START THE OTHER PUMP THAT IS NOT OPERATING AND ACTIVATE THE ALARM.

4 - AN ALARM SYSTEM SHALL BE PROVIDE WITH A FLASHING STROBE LIGHT AND A PUMP FAILURE WARNING SIGN WHICH ARE TO BE LOCATED AT THE DRIVEWAY ENTRANCE TO THE BASEMENT LEVEL THE ALARM SYSTEM SHALL BE PROVIDED WITH A BATTERY BACK-UP IN CASE OF POWER FAILURE.

5 - A CONFINED SPACE DANGER SIGN SHALL BE PROVIDED AT ALL ACCESS POINT TO THE PUMP-OUT STORAGE TANK IN ACCORDANCE WITH THE UPPER PARRAMATA RIVER CATCHMENT TRUST OSD HANDBOOK.

DANGER

WHEN EXCAVATING WITHIN ANY SITE, FOOTPATH AND ROADWAY, ALL SERVICES SHALL BE LOCATED PRIOR TO COMMENCEMENT OF THE EXCAVATION WORKS.

CONTACT "DIAL BEFORE YOU DIG" ON PHONE No. 1100 OR GO TO THE WEB SITE

"www.1100.com.au"

WARNING

PUMP OUT SYSTEM FAILURE IN BASEMENT WHEN LIGHT IS FLASHING AND SIREN SOUNDING

BASEMENT PUMP OUT FAILURE WARNING SIGN

SIGN SHALL BE PLACED IN A CLEAR AND VISIBLE LOCATION WHERE VEHICLES ENTER THE BASEMENT.

COLOURS:
"WARNING" = RED
BORDER AND OTHER LETTERING = BLACK

DANGER

CONFINED SPACE

NO ENTRY WITHOUT CONFINED SPACE TRAINING

CONFINED SPACE DANGER SIGN

A) A CONFINED SPACE DANGER SIGN SHALL BE POSITIONED IN A LOCATION AT ALL ACCESS POINTS, SUCH THAT IT IS CLEARLY VISIBLE TO PERSONS PROPOSING TO ENTER THE BELOW GROUND TANK/S CONFINED SPACE.

B) MINIMUM DIMENSIONS OF THE SIGN - 300mm x 450mm (LARGE ENTRIES, SUCH AS DOORS) -250mm x 180mm (SMALL ENTRIES SUCH AS GRATES & MANHOLES).

C) THE SIGN SHALL BE MANUFACTURED FROM COLOUR BONDED ALUMINUM OR POLYPROPYLENE.

D) SIGN SHALL BE AFFIXED USING SCREWS AT EACH CORNER OF THE SIGN.

COLOURS:
"DANGER" & BACKGROUND = WHITE
ELLIPTICAL AREA = RED
RECTANGLE CONTAINING ELLIPSE = BLACK
BORDER AND OTHER LETTERING = BLACK

NOT FOR CONSTRUCTION

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0 10m at full size 10cm 20cm

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Client
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Scale
0 4 8 12 m
SCALE 1:200 @ A1

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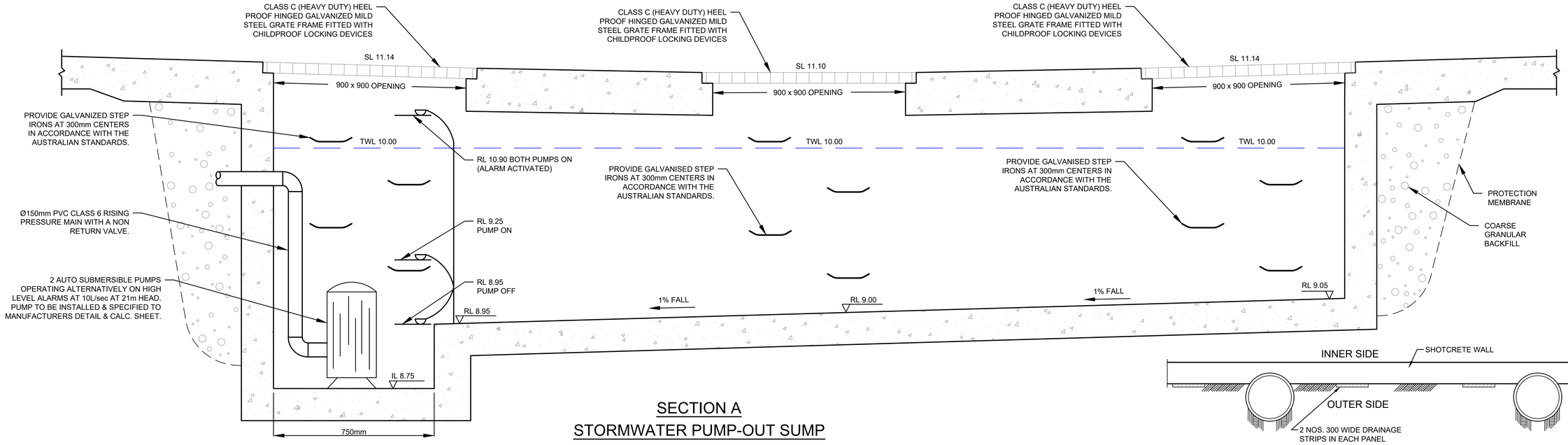
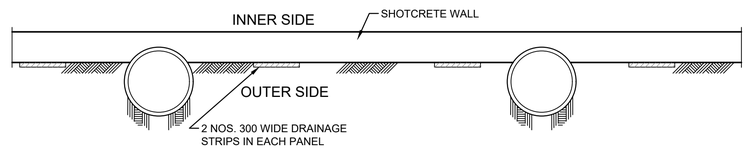
Project
896 WOODVILLE ROAD, VILLAWOOD
PROPOSED RESIDENTIAL FLAT BUILDINGS
STORMWATER CONCEPT PLAN

Drawing Title
STORMWATER CONCEPT PLAN
BASEMENT LEVEL 3
SHEET 1 OF 2

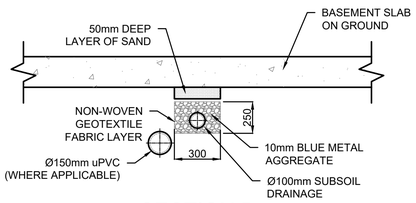
Scale A1	Project No.	Dwg. No.	Issue
1:200	240246	101	B



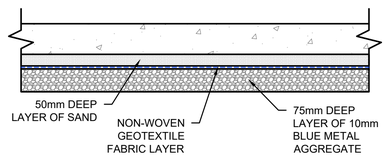
SECTION A
STORMWATER PUMP-OUT SUMP
N.T.S.



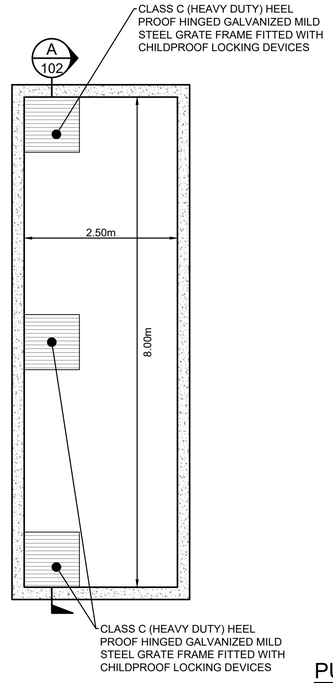
TYPICAL SHOTCRETE WALL PLAN
N.T.S.



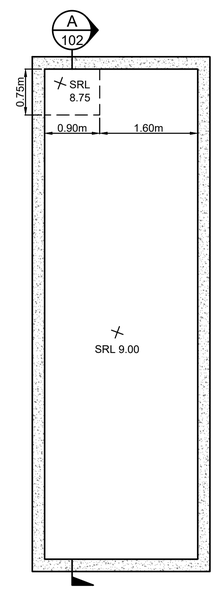
SECTION B
N.T.S.



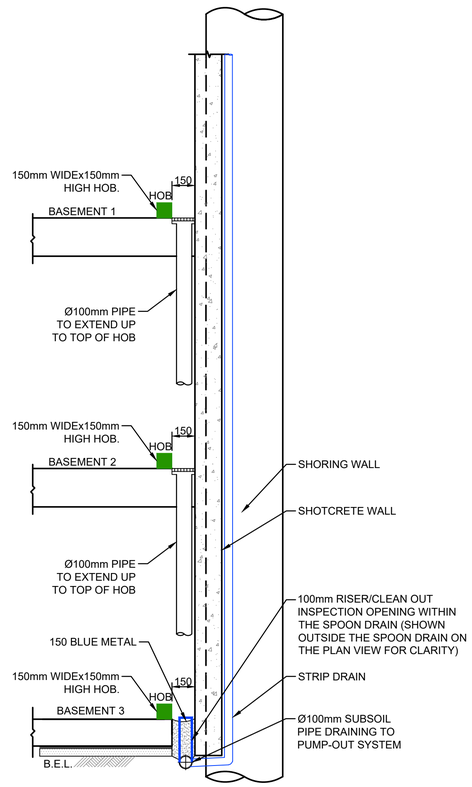
BLUE METAL LAYER DETAIL
N.T.S.



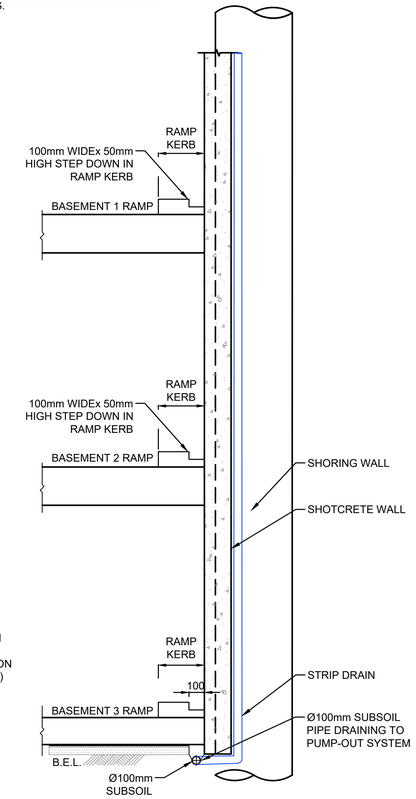
PUMP-OUT SUMP DETAIL PLAN VIEW
SCALE 1:50



PUMP-OUT SUMP DETAIL BOTTOM SRL
SCALE 1:50

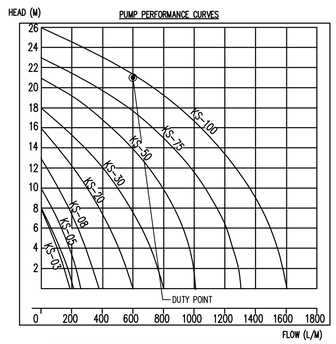


TYPICAL SPOON DRAIN DETAILS SECTION A1
N.T.S.



TYPICAL SPOON DRAIN DETAILS AT BASEMENT RAMP SECTION A2
N.T.S.

NOT FOR CONSTRUCTION



PUMP STORAGE VOLUME CALCULATION

AREA DRAINING TO SUMP = 58.77 m^2.

SUMP SIZE BASED ON 100 YEAR 3 HR STORM, I = 36.30 mm/hr,
Q=CIA/3600= 1 x 36.30 x 58.77 / 3600 = 0.59 L/sec.
VOLUME REQUIRED = 0.59 x (3x60x60) = 6,372 L = 6.37 m^3.
STORAGE PROVIDED 8.0 x 2.5 x 1.0 = 20.00 m^3.

PUMP OUT RATE BASED ON 100YR 5MIN STORM, I = 224 mm/hr
(MIN RATE REQUIRED AS PER AS3500.3 IS 10 L/sec)
Q=CIA/3600= 1 x 224 x 58.77 / 3600 = 3.66 L/sec.

DUAL KS-100 PUMP OR EQUIVALENT TO BE INSTALLED IN SUMP AND CONNECTED TO CONTROL PANEL WHICH WILL ALLOW FOR THE PUMP TO OPERATE ALTERNATIVELY ON HIGH LEVEL WITH ALARM AT 10 L/sec AT 21m HEAD.

Type	Output		Outlet		Rated Head Capacity		Maximum Head	Maximum Capacity	Weigh	Dimension		
	HP	kW	mm	Inch	M	LPM	M	LPM	Kg	L(mm)	W(mm)	H(mm)
KS-03	1/3	0.25	40	1 1/2"	3	130	8	180	9	188	141	305
KS-04	1/2	0.4	50	2"	5	150	8	220	11	208	140	359
KS-05	1/2	0.4	50	2"	5	160	10	260	14	230	156	375
KS-08	1	0.75	50	2"	6	240	13	380	21	290	180	425
KS-20	2	1.5	80	3"	10	300	16	600	31	278	182	475
KS-30	3	2.2	80	3"	10	500	18	800	42	390	250	450
KS-50	5	3.7	100	4"	10	800	21	1100	48	450	240	530
KS-75	7 1/2	5.6	100	4"	15	800	23	1300	60	550	310	590
KS-100	10	7.5	150	6"	18	900	25	1600	70	550	310	610

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Scale
0 1 2 3 m
SCALE 1:50 @ A1

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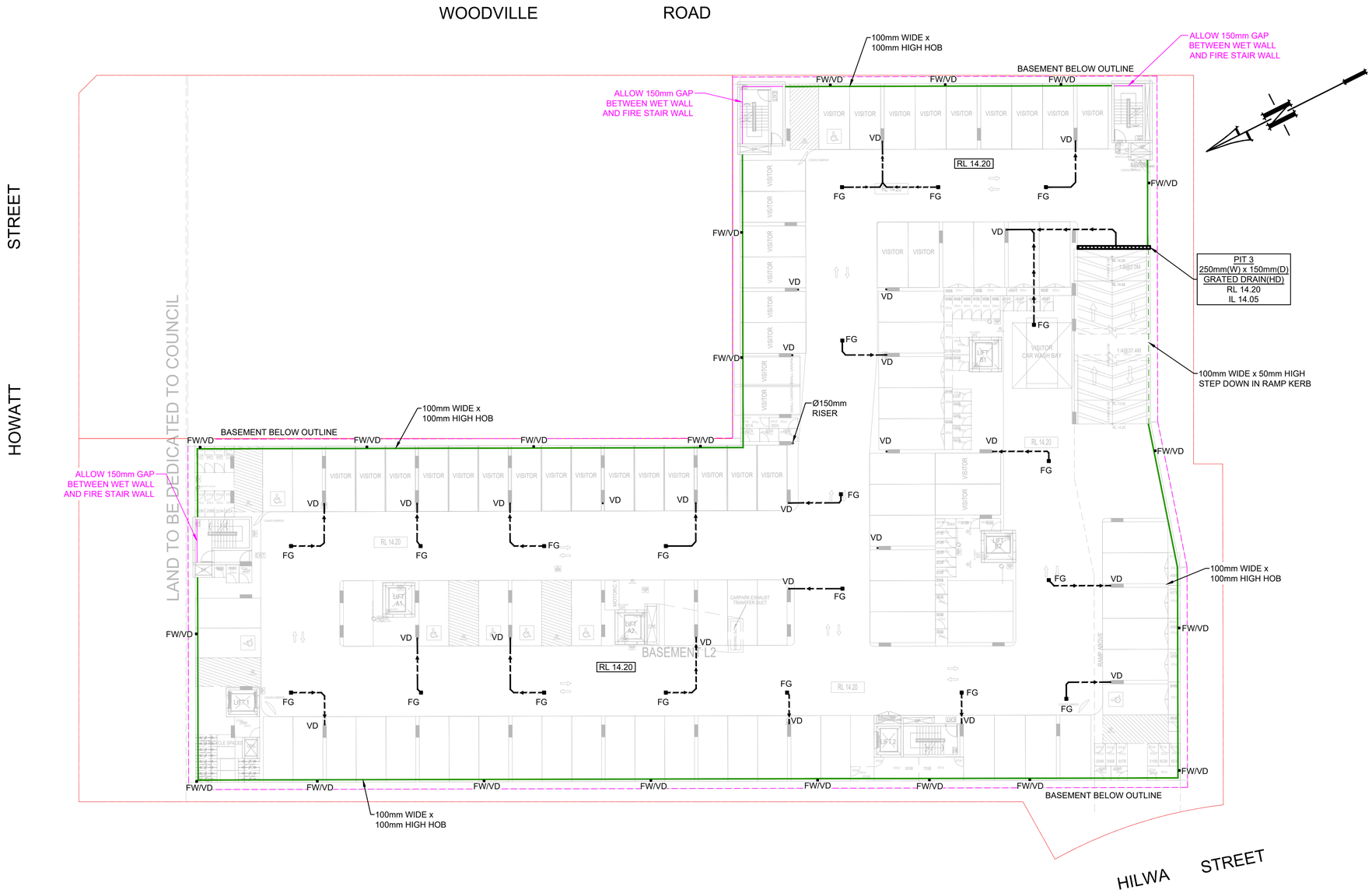
Project
896 WOODVILLE ROAD, VILLAWOOD
PROPOSED RESIDENTIAL FLAT BUILDINGS
STORMWATER CONCEPT PLAN

Drawing Title
STORMWATER CONCEPT PLAN
BASEMENT LEVEL 3
SHEET 2 OF 2

Scale A1	Project No.	Dwg. No.	Issue
As Shown	240246	102	B



LEGEND

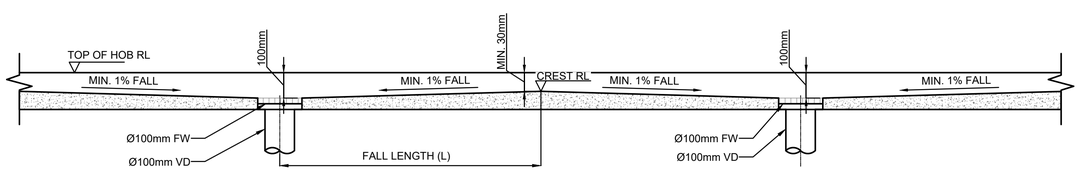
	PROPOSED STORMWATER
VD	Ø100mm VERTICAL DROP
	SURFACE FLOW DIRECTION
SS	Ø100mm SUBSOIL DRAINAGE TO BE WRAPPED IN GEOTEXTILE BIDIMA34 @MIN 1.0% SLOPE
	CLEANING EYE (OR INSPECTION EYE)
IO	INSPECTION OPENING
× RL 27.56	FINISHED SURFACE LEVEL
	GRATED DRAIN (HD)
FG	Ø150mm FLOOR GRATE
(HD)	(HEAVY DUTY)

BASEMENT 2 PLAN

SCALE 1:200

NOTE:
ALL STORMWATER DRAINAGE PIPES ARE Ø100 uPVC AT MIN 1.0% SLOPE U.N.O.

NOTE:
ALLOW BENCHING WITHIN SPOON DRAIN TO ACHIEVE MIN 1.0% FALL TO FLOOR WASTES.



TYPICAL SPOON DRAIN FALL DETAILS

N.T.S.

PIPES NOTE:

Ø65 PVC @ MIN 1.0%
Ø90 PVC @ MIN 1.0%
Ø100 PVC @ MIN 1.0%
Ø150 PVC @ MIN 1.0%
Ø225 PVC @ MIN 0.5%
Ø300 PVC @ MIN 0.4%
UNLESS NOTED OTHERWISE

NOT FOR CONSTRUCTION

Issue	Description	Date	Designed	Engineer	Checked
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Scale
0 4 8 12 m
SCALE 1:200 @ A1

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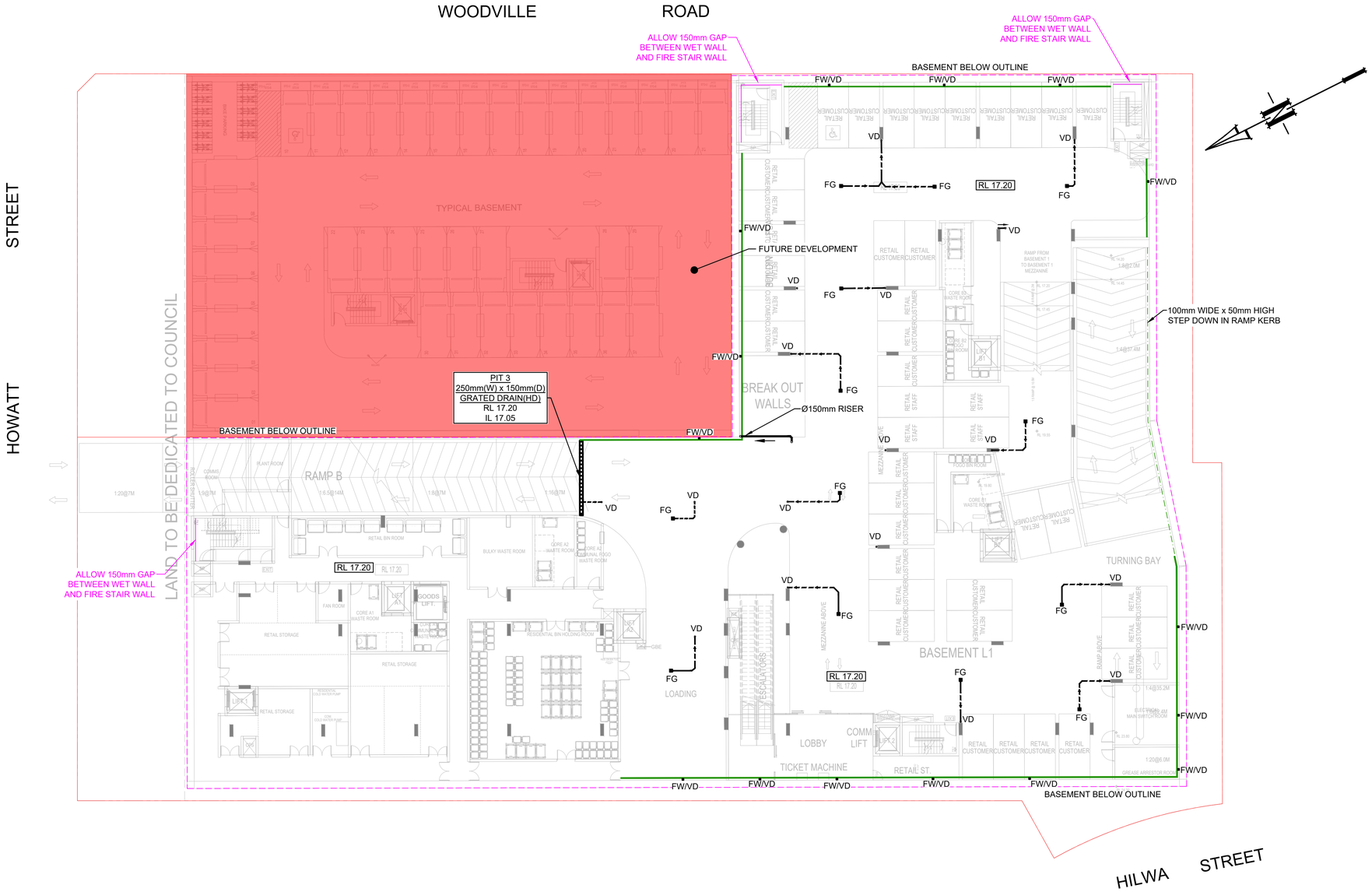
Project
896 WOODVILLE ROAD, VILLAWOOD
PROPOSED RESIDENTIAL FLAT BUILDINGS
STORMWATER CONCEPT PLAN

Drawing Title
STORMWATER CONCEPT PLAN
BASEMENT LEVEL 2

Scale	Project No.	Dwg. No.	Issue
1:200 A1	240246	103	B



LEGEND

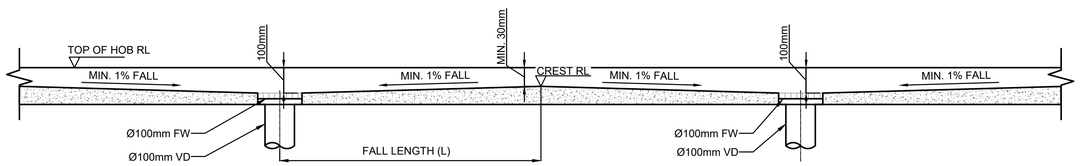
- PROPOSED STORMWATER
- VD — Ø100mm VERTICAL DROP
- SURFACE FLOW DIRECTION
- SS — SS — Ø100mm SUBSOIL DRAINAGE TO BE WRAPPED IN GEOTEXTILE BIDIMA34 @MIN 1.0% SLOPE
- CLEANING EYE (OR INSPECTION EYE)
- IO — INSPECTION OPENING
- × RL 27.56 — FINISHED SURFACE LEVEL
- GRATED DRAIN (HD)
- FG — Ø150mm FLOOR GRATE
- (HD) — (HEAVY DUTY)

BASEMENT 1 PLAN

SCALE 1:200

NOTE:
ALL STORMWATER DRAINAGE PIPES ARE Ø100 uPVC AT MIN 1.0% SLOPE U.N.O.

NOTE:
ALLOW BENCHING WITHIN SPOON DRAIN TO ACHIEVE MIN 1.0% FALL TO FLOOR WASTES.



TYPICAL SPOON DRAIN FALL DETAILS

N.T.S.

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UNLESS NOTED OTHERWISE

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Scale
0 4 8 12 m
SCALE 1:200 @ A1

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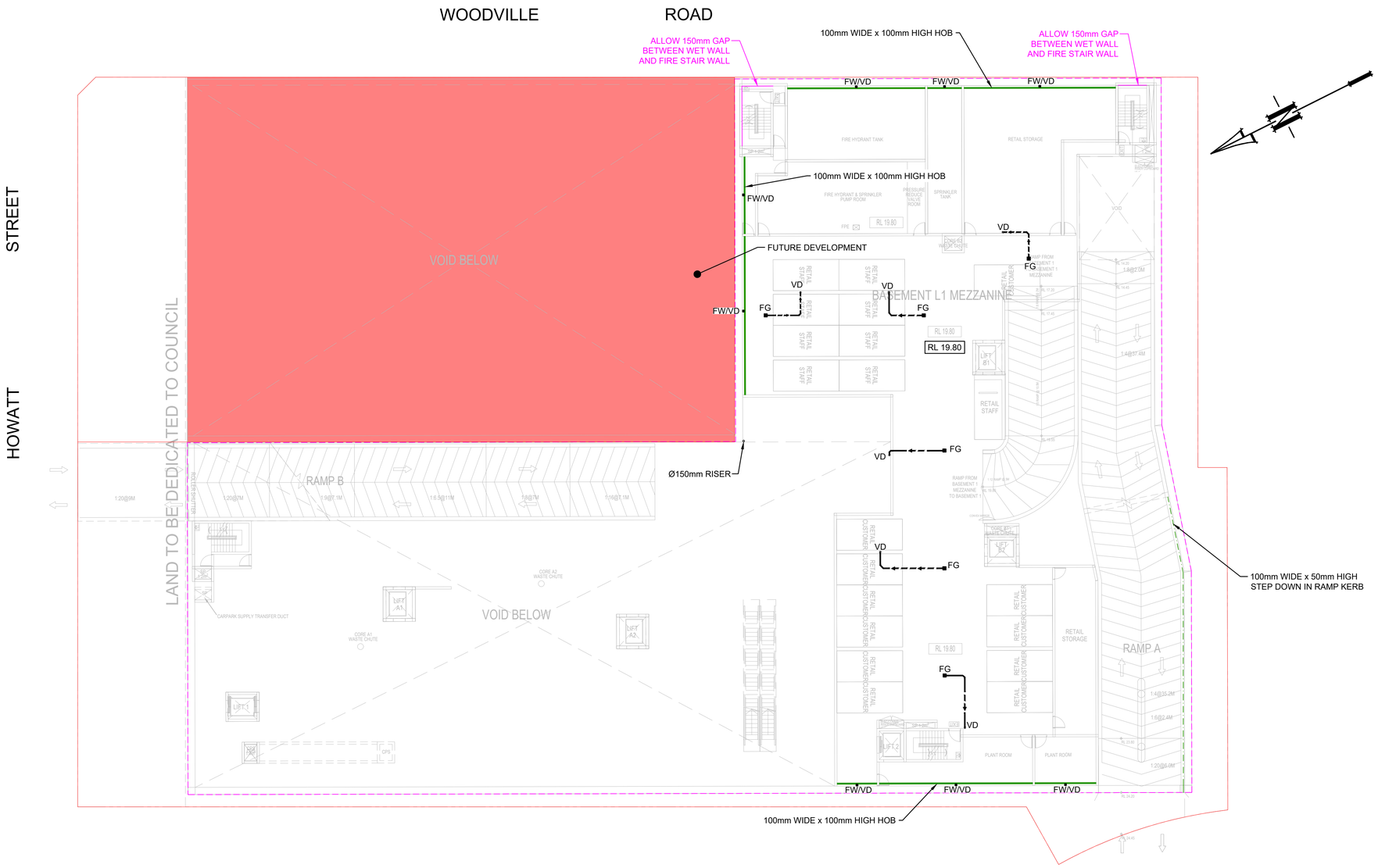
Project
896 WOODVILLE ROAD, VILLAWOOD
PROPOSED RESIDENTIAL FLAT BUILDINGS
STORMWATER CONCEPT PLAN

Drawing Title
STORMWATER CONCEPT PLAN
BASEMENT LEVEL 1

Scale	Project No.	Dwg. No.	Issue
1:200 A1	240246	104	B

LEGEND

	PROPOSED STORMWATER
VD	Ø100mm VERTICAL DROP
	SURFACE FLOW DIRECTION
SS SS	Ø100mm SUBSOIL DRAINAGE TO BE WRAPPED IN GEOTEXTILE BIDIMA34 @MIN 1.0% SLOPE
	CLEANING EYE (OR INSPECTION EYE)
IO	INSPECTION OPENING
× RL 27.56	FINISHED SURFACE LEVEL
	GRATED DRAIN (HD)
FG	Ø150mm FLOOR GRATE
(HD)	(HEAVY DUTY)

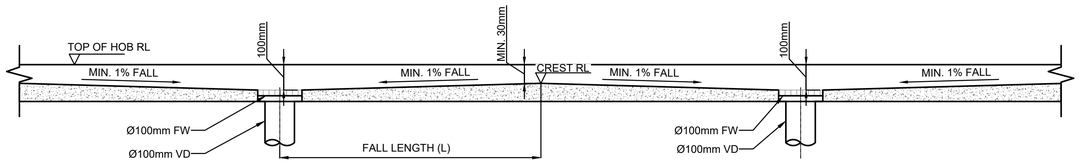


BASEMENT 1 MEZZANINE PLAN

SCALE 1:200

NOTE:
ALL STORMWATER DRAINAGE PIPES ARE Ø100 uPVC AT MIN 1.0% SLOPE U.N.O.

NOTE:
ALLOW BENCHING WITHIN SPOON DRAIN TO ACHIEVE MIN 1.0% FALL TO FLOOR WASTES.



TYPICAL SPOON DRAIN FALL DETAILS

N.T.S.

PIPES NOTE:
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Ø100 PVC @ MIN 1.0%
Ø150 PVC @ MIN 1.0%
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0 4 8 12 m
SCALE 1:200 @ A1

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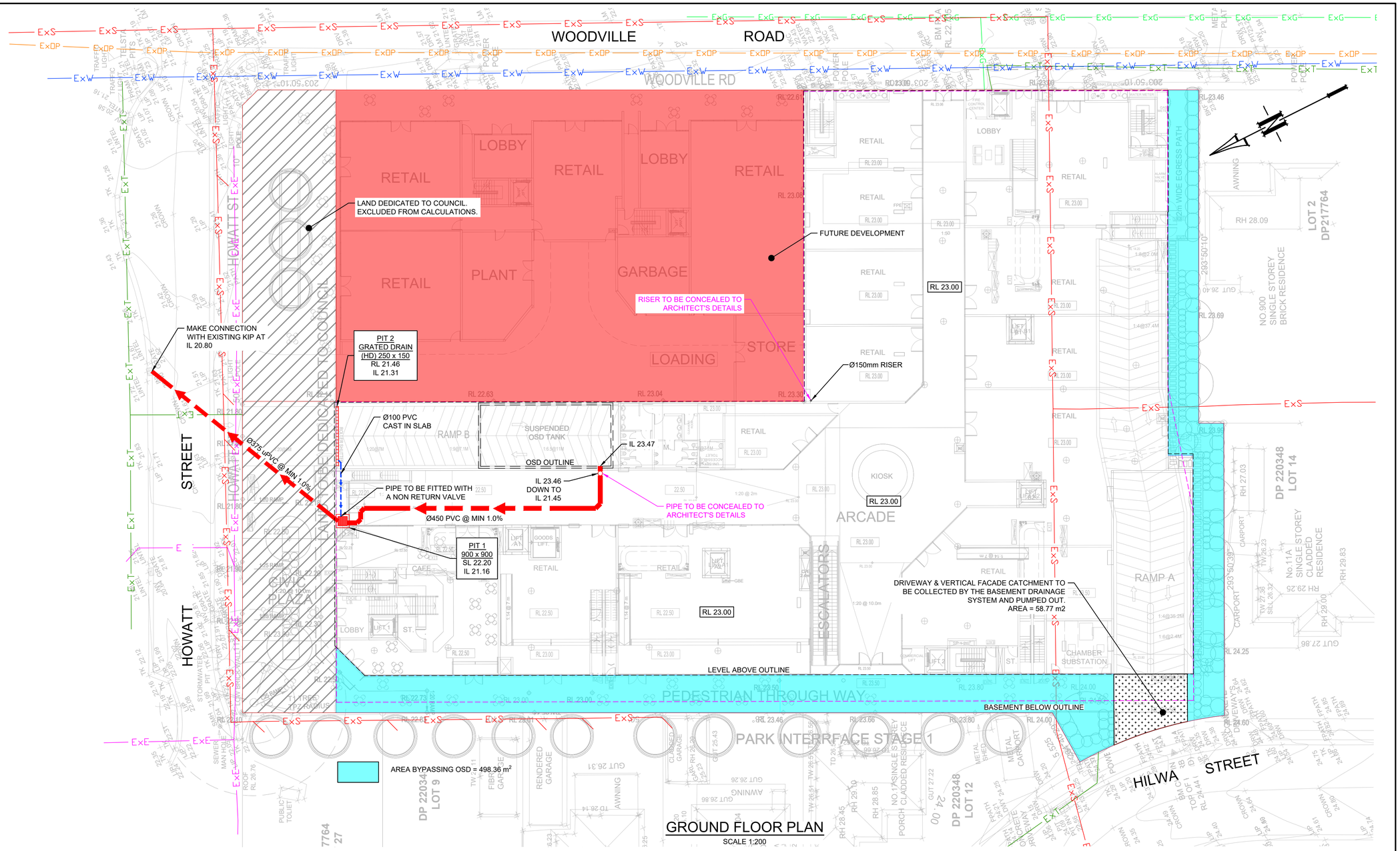
PROPOSED RESIDENTIAL FLAT BUILDINGS
STORMWATER CONCEPT PLAN

Drawing Title
STORMWATER CONCEPT PLAN
BASEMENT 1 MEZZANINE LEVEL

Scale A1	Project No.	Dwg. No.	Issue
1:200	240246	104.1	A



GROUND FLOOR PLAN

SCALE 1:200

LEGEND

- PROPOSED STORMWATER DRAINAGE PIPE
- PROPOSED STORMWATER DRAINING TO OSD
- PROPOSED STORMWATER BYPASSING OSD
- Ø100 PVC WRAPPED IN 10mm ABLEFLEX STORMWATER DRAINAGE PIPE CAST IN SLAB
- 65 — Ø65 PVC WRAPPED IN 10mm ABLEFLEX STORMWATER DRAINAGE PIPE CAST IN SLAB
- 50 — Ø50mm PVC WRAPPED IN 10mm ABLEFLEX CAST IN SLAB
- RWT — PROPOSED STORMWATER PIPE TO RAINWATER TANK
- SS — Ø100mm SUBSOIL DRAINAGE TO BE WRAPPED IN GEOTEXTILE BIDIMA34
- RISER PIPE
- CE — Ø300 CLEANING EYE
- RWT — RAINWATER TANK
- DP — DOWNPIPE Ø100
- VD — VERTICAL DROP Ø100
- PG — PLANTER GRATE Ø150
- FG — FLOOR GRATE Ø150
- FG — FLOOR GRATE 200x200 (ALLOW MINIMUM 1.0% FALL TO FG)
- FW — FLOOR GRATE 300x300 (ALLOW MINIMUM 1.0% FALL TO FW)
- RWO — RAINWATER OUTLET Ø260 SPS (ALLOW MINIMUM 1.0% FALL TO RWO)
- SPB — SUSPENDED PLANTER BOX RAINWATER OUTLET
- XRL 47.00 — DESIGN SURFACE LEVEL
- +NS 26.45 — EXISTING SURFACE LEVEL
- IL 47.00 — INVERT LEVEL
- TD — AC CONDENSER TUNDISH TO MANUFACTURER'S DETAILS
- OF — Ø50mm EMERGENCY OVERFLOW SPITTERS/PIPES
- EXISTING STORMWATER
- ExW — EXISTING WATER MAIN
- ExS — EXISTING SEWER MAIN
- ExT — EXISTING TELSTRA
- ExE — EXISTING ELECTRICAL
- ExG — EXISTING GAS
- ExOP — EXISTING OPTIC FIBER

PIPES NOTE:

Ø65 PVC @ MIN 1.0%
Ø90 PVC @ MIN 1.0%
Ø100 PVC @ MIN 1.0%
Ø150 PVC @ MIN 1.0%
Ø225 PVC @ MIN 0.5%
Ø300 PVC @ MIN 0.4%
UNLESS NOTED OTHERWISE

NOTE:

ALL STORMWATER DRAINAGE PIPES ARE Ø100 PVC AT MIN 1.0% SLOPE U.N.O

NOTE:

ALL REDUNDANT PIPELINES WITHIN FOOTPATH AREA MUST BE REMOVED AND FOOTPATH/KERB REINSTATED.

GENERAL NOTES

1. ALL LINES ARE TO BE Ø100 uPVC 1.0% GRADE UNLESS NOTED OTHERWISE. CHARGED LINES TO BE SEWERGRADE & SEALED.
2. EXISTING SERVICES LOCATIONS SHOWN INDICATIVE ONLY. IT IS THE CONTRACTOR'S RESPONSIBILITY TO LOCATE & LEVEL ALL EXISTING SERVICES PRIOR TO THE COMMENCEMENT OF ANY EARTHWORKS.
3. ALL PIPES TO HAVE MIN 150mm COVER IF LOCATED WITHIN PROPERTY.
4. ALL PITS IN DRIVEWAYS TO BE 450x450 CONCRETE AND ALL PITS IN LANDSCAPED AREAS TO BE 450x450 PLASTIC.
5. PITS LESS THAN 600mm DEEP MAY BE BRICK, PRECAST OR CONCRETE.
6. ALL BALCONIES AND ROOFS TO BE DRAINED AND TO HAVE SAFETY OVERFLOWS IN ACCORDANCE WITH RELEVANT AUSTRALIAN STANDARDS.
7. ALL EXTERNAL SLABS TO BE WATERPROOFED.
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9. ALL DRAINAGE WORKS TO AVOID TREE ROOTS.
10. ALL DPs TO HAVE LEAF GUARDS.
11. ALL EXISTING LEVELS TO BE CONFIRMED BY BUILDER PRIOR TO CONSTRUCTION.
12. ALL WORK WITHIN COUNCIL RESERVE TO BE INSPECTED BY COUNCIL PRIOR TO CONSTRUCTION.
13. COUNCIL'S ISSUED FOOTWAY DESIGN LEVELS TO BE INCORPORATED INTO THE FINISHED LEVELS ONCE ISSUED BY COUNCIL.
14. ALL WORK SHALL BE IN ACCORDANCE WITH B.C.A. AND A.S.3500.3.
15. REFER TO LANDSCAPE ARCHITECT'S DRAWINGS FOR LANDSCAPING.
16. CARE TO BE TAKEN AROUND EXISTING SEWER. STRUCTURAL ADVICE IS REQUIRED FOR SEWER PROTECTION AGAINST ADDITIONAL LOADING FROM NEW PITS, PIPES, RETAINING WALLS AND OSD BASIN WATER LEVELS.
17. ALL PIPES IN BALCONIES TO BE Ø50mm PVC WRAPPED IN 10mm ABLEFLEX CAST IN SLAB AT MIN 1.0% SLOPE. CONTRACTOR TO PROVIDE A BREAK / OPEN VOID IN RAIL / BALLUSTRADE FOR STORMWATER EMERGENCY OVERFLOW. ALL ENCLOSED AREAS/PLANTER BOXES TO BE FITTED WITH FLOOR WASTES & DRAINED TO OSD DOWNPIPES TO BE CHECKED BY ARCHITECT & PLUMBER PRIOR TO CONSTRUCTION.
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NOTE:

ALL GRATES WITHIN FOOTWAY AREAS TO BE HEEL GUARD & BIKE SAFE.

NOTE:

PITS DEEPER THAN 1.0m TO BE FITTED WITH STEP IRONS & TO STRUCTURAL ENGINEER'S DETAILS.

NOTE:

REFER ARCHITECTURAL DRAWINGS FOR FINAL SET-OUT LEVELS.

NOTE:

IT IS CONTRACTOR'S RESPONSIBILITY TO ENSURE MINIMUM PONDING IS ACHIEVED OVER THE FLOOR WASTES BY GRADING CATCHMENTS' SURFACES AT MINIMUM 1.0% FALL.

NOTES:

1- CONTRACTOR IS TO PROVIDE OVERFLOW OUTLETS & EMERGENCY OVERFLOW SPITTERS TO ALL TRAPPED AREAS.
2- DP/VD ARE Ø100mm PIPES U.N.O.
3- ALL TRANSFERRING PIPES ARE SUSPENDED U.N.O.
4- BALCONIES PIPES ARE Ø50mm PVC WRAPPED IN 10mm ABLEFLEX CAST IN SLAB AT MIN 1.0% SLOPE.

NOT FOR CONSTRUCTION

Issue	Description	Date	Designed	Engineer	Checked
C	ISSUE FOR DEVELOPMENT APPLICATION	16/12/2024	YRM	EH	OC
B	ISSUE FOR DEVELOPMENT APPLICATION	23/10/2024	YRM	EH	OC
A	ISSUE FOR DEVELOPMENT APPLICATION	11/10/2024	YRM	EH	OC

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Fairfield City Council

Client
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Scale
0 4 8 12 m
SCALE 1:200 @ A1

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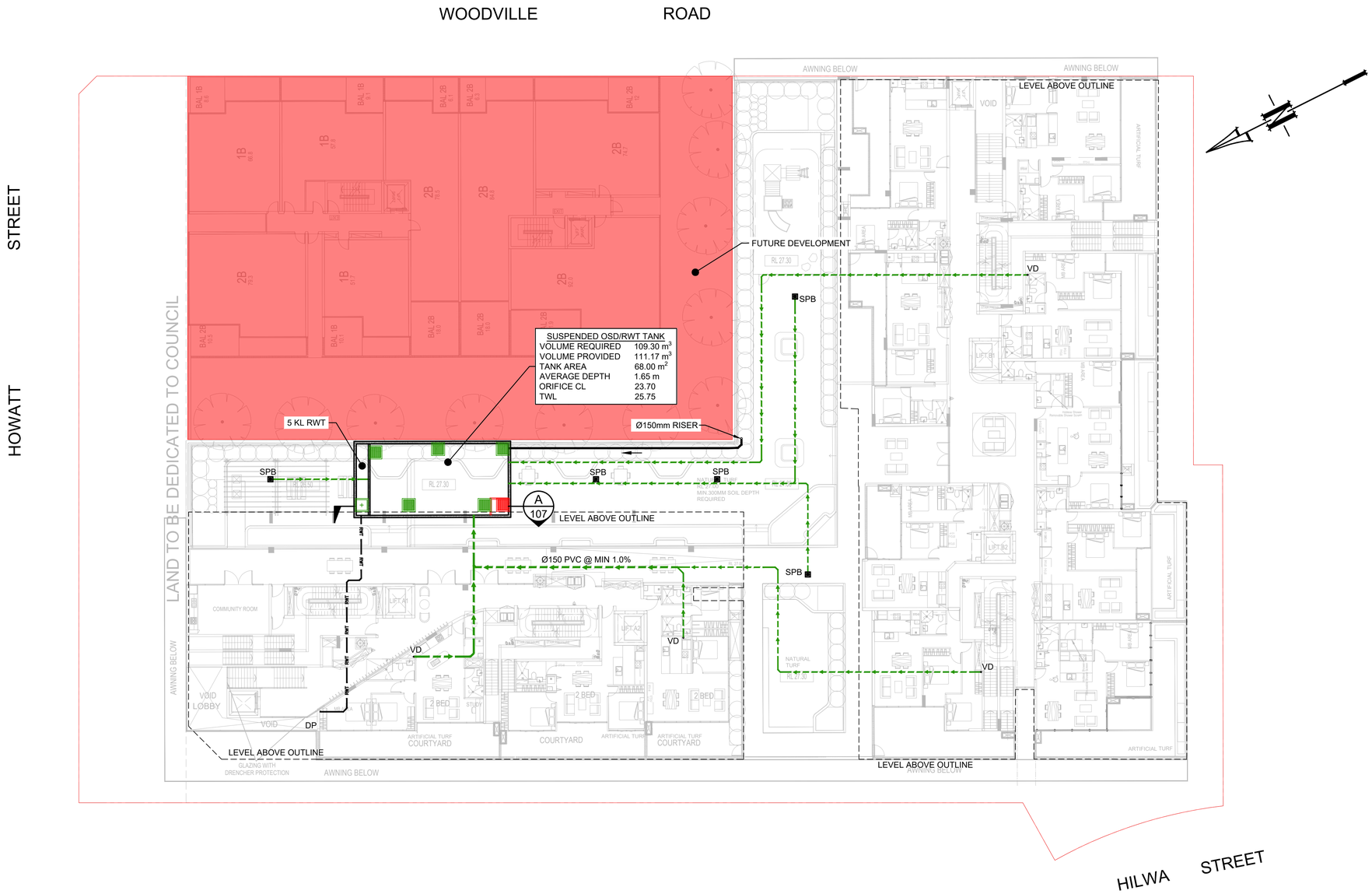
Project
896 WOODVILLE ROAD, VILLAWOOD
PROPOSED RESIDENTIAL FLAT BUILDINGS
STORMWATER CONCEPT PLAN

Drawing Title
STORMWATER CONCEPT PLAN
GROUND LEVEL

Scale A1	Project No.	Dwg. No.	Issue
1:200	240246	105	C



LEGEND

- PROPOSED STORMWATER DRAINAGE PIPE
- PROPOSED STORMWATER DRAINING TO OSD
- PROPOSED STORMWATER BYPASSING OSD
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- ExT — EXISTING TELSTRA
- ExE — EXISTING ELECTRICAL
- ExG — EXISTING GAS
- ExOP — EXISTING OPTIC FIBER

LEVEL 1 PLAN

SCALE 1:200

PIPES NOTE:

Ø65 PVC @ MIN 1.0%
Ø90 PVC @ MIN 1.0%
Ø100 PVC @ MIN 1.0%
Ø150 PVC @ MIN 1.0%
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NOTE:

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NOTE:

REFER ARCHITECTURAL DRAWINGS FOR FINAL SET-OUT LEVELS.

NOTE:

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NOTES:

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2- DP/VD ARE Ø100mm PIPES U.N.O.
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NOT FOR CONSTRUCTION

Issue	Description	Date	Designed	Engineer	Checked
B	ISSUE FOR DEVELOPMENT APPLICATION	16/12/2024	YRM	EH	OC
A	ISSUE FOR DEVELOPMENT APPLICATION	11/10/2024	YRM	EH	OC

0 5cm at full size 10cm 20cm

Architect
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Council
Fairfield City Council

Client
Aba Pty Ltd

Scale
0 4 8 12 m
SCALE 1:200 @ A1

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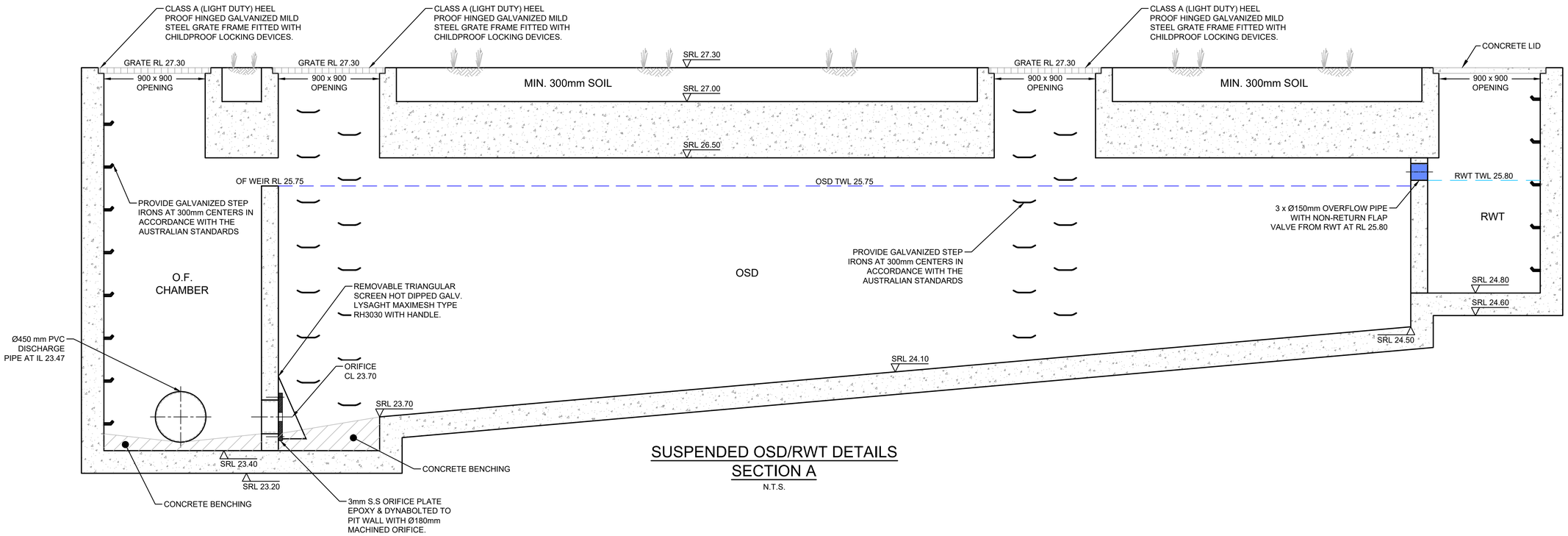
Project
896 WOODVILLE ROAD, VILLAWOOD
PROPOSED RESIDENTIAL FLAT BUILDINGS
STORMWATER CONCEPT PLAN

Drawing Title
STORMWATER CONCEPT PLAN LEVEL 1

Scale	Project No.	Dwg. No.	Issue
1:200 A1	240246	106	B



SUSPENDED OSD/RWT DETAILS
SECTION A

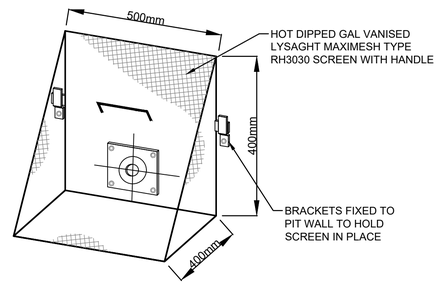
N.T.S.

NOTE:
ALL ACCESS COVERS TO THE OSD TO BE FITTED WITH NON CORROSIVE, CHILDPROOF LOCKING DEVICES.

DRAINS RESULTS		
STORM EVENT (ARI)	PRE-DEV INTERNAL FLOWS (L/s)	TOTAL POST-DEV FLOWS (L/s)
MINOR STORM (5 YEAR ARI)	168	111
5YR 5min STORM	126	56
5YR 15min STORM	151	75
5YR 30min STORM	156	79
5YR 60min STORM	148	99
5YR 90min STORM	158	110
5YR 120min STORM	146	103
5YR 540min STORM (9 HOURS)	50	48

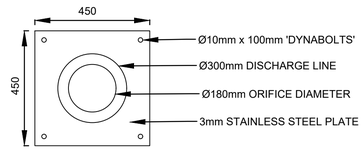
DRAINS RESULTS		
STORM EVENT (ARI)	PRE-DEV INTERNAL FLOWS (L/s)	TOTAL POST-DEV FLOWS (L/s)
MAJOR STORM (100 YEAR ARI)	263	185
100YR 5min STORM	235	84
100YR 15min STORM	260	162
100YR 30min STORM	245	170
100YR 60min STORM	236	177
100YR 90min STORM	251	184
100YR 120min STORM	234	181

DRAINS RESULTS			
STORM EVENT (ARI)	PRE-DEV INTERNAL FLOWS (L/s)	TOTAL POST-DEV FLOWS (L/s)	PSD(L/s)
100YR 540min STORM (9 HOURS)	83	71	140L/s/ha = 140 x 0.525 = 73.5 L/s



TRASH SCREEN DETAIL

N.T.S.



ORIFICE PLATE DETAIL

N.T.S.

NOT FOR CONSTRUCTION

Issue	Description	Date	Designed	Engineer	Checked
B	ISSUE FOR DEVELOPMENT APPLICATION	16/12/2024	YRM	EH	OC
A	ISSUE FOR DEVELOPMENT APPLICATION	11/10/2024	YRM	EH	OC

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Client
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Scale

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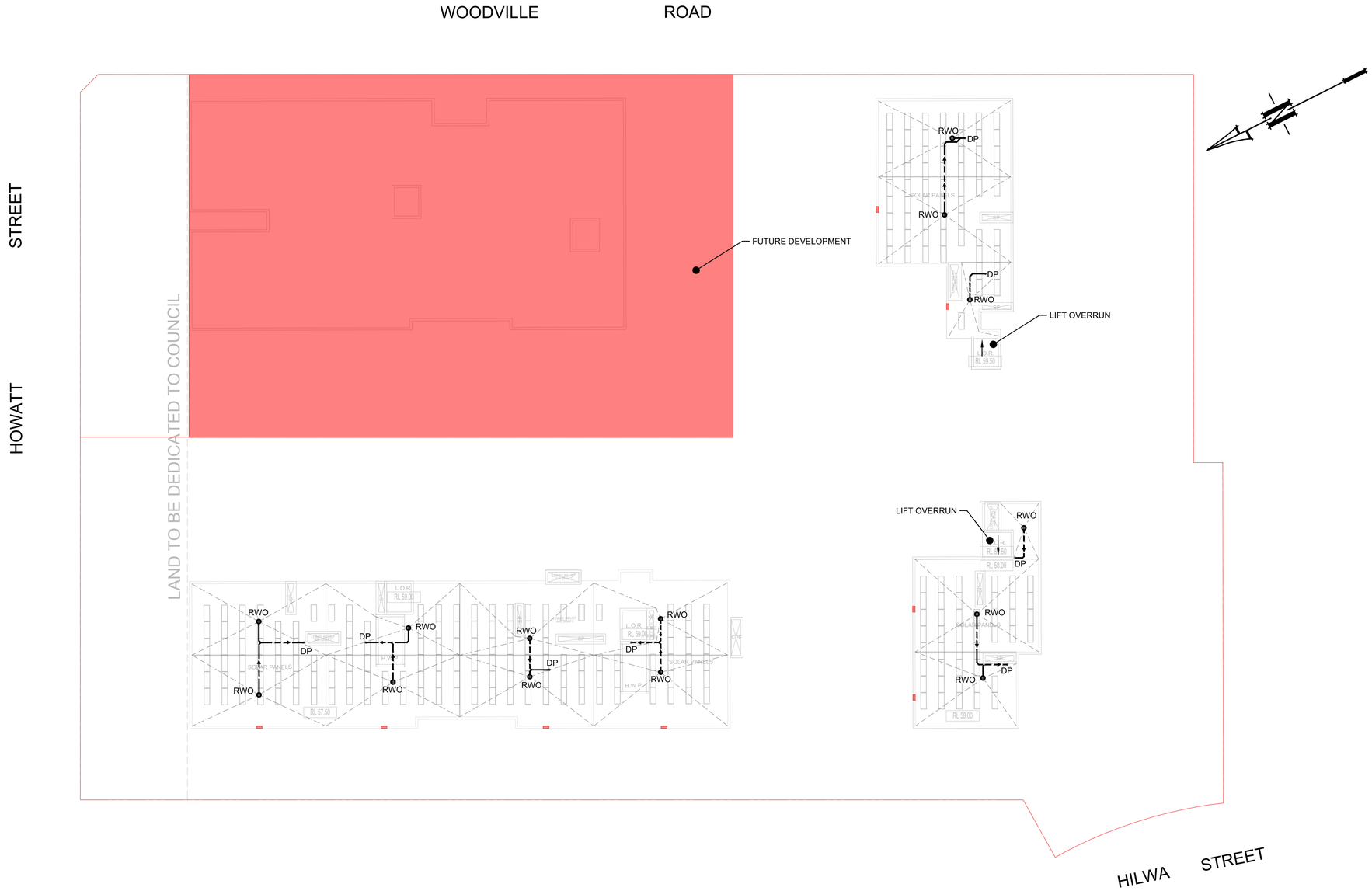
Project
896 WOODVILLE ROAD, VILLAWOOD
PROPOSED RESIDENTIAL FLAT BUILDINGS
STORMWATER CONCEPT PLAN

Drawing Title
ON-SITE DETENTION DETAILS AND CALCULATION SHEET

Scale A1	Project No.	Dwg. No.	Issue
As Shown	240246	107	B



LEGEND

- PROPOSED STORMWATER DRAINAGE PIPE
- PROPOSED STORMWATER DRAINING TO OSD
- PROPOSED STORMWATER BYPASSING OSD
- Ø100 PVC WRAPPED IN 10mm ABLEFLEX STORMWATER DRAINAGE PIPE CAST IN SLAB
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- VD — VERTICAL DROP Ø100
- PG — PLANTER GRATE Ø150
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- FG — FLOOR GRATE 200x200 (ALLOW MINIMUM 1.0% FALL TO FG)
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- RWO — RAINWATER OUTLET Ø260 SPS (ALLOW MINIMUM 1.0% FALL TO RWO)
- SPB — SUSPENDED PLANTER BOX RAINWATER OUTLET
- XRL 47.00 — DESIGN SURFACE LEVEL
- +NS 26.45 — EXISTING SURFACE LEVEL
- IL 47.00 — INVERT LEVEL
- 500 mm WIDE CUT IN ROOF HOB FOR EMERGENCY OVERFLOW

ROOF LEVEL PLAN

SCALE 1:200

NOTES:

1- CONTRACTOR IS TO PROVIDE OVERFLOW OUTLETS & EMERGENCY OVERFLOW SPITTERS TO ALL TRAPPED AREAS.
2- DP/VD ARE Ø100mm PIPES U.N.O.
3- ALL TRANSFERRING PIPES ARE SUSPENDED U.N.O.
4- BALCONIES PIPES ARE Ø50mm PVC WRAPPED IN 10mm ABLEFLEX CAST IN SLAB AT MIN 1.0% SLOPE.

NOTE:

ALL LINEAR GRATED DRAINS TO BE MIN. 100mm DEEP.

NOTE:

REFER ARCHITECTURAL DRAWINGS FOR FINAL SET-OUT LEVELS.

NOTE:

ALL STORMWATER DRAINAGE PIPES ARE Ø100 PVC AT MIN 1.0% SLOPE U.N.O.

PIPES NOTE:

Ø65 PVC @ MIN 1.0%
Ø90 PVC @ MIN 1.0%
Ø100 PVC @ MIN 1.0%
Ø150 PVC @ MIN 1.0%
Ø225 PVC @ MIN 0.5%
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UNLESS NOTED OTHERWISE

NOTE:

IT IS CONTRACTOR'S RESPONSIBILITY TO ENSURE MINIMUM PONDING IS ACHIEVED OVER THE FLOOR WASTES BY GRADING CATCHMENTS' SURFACES AT MINIMUM 1.0% FALL.

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0 10cm 20cm Form at full size

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Project
896 WOODVILLE ROAD, VILLAWOOD
PROPOSED RESIDENTIAL FLAT BUILDINGS
STORMWATER CONCEPT PLAN

Drawing Title
STORMWATER CONCEPT PLAN
ROOF LEVEL

Scale A1	Project No.	Dwg. No.	Issue
1:200	240246	117	B