Regulated Design Record roject Address: 67 PACIFIC PDE, DEE WHY Project Title: PROPOSED RESIDENTIAL DEVELOPMENT Body Corporate Reg No: Consent No: Drawing No: C21189 - SW00 Drawing Title: COVER **DP Full Name** Rev Date Description dd.mm.yy ANDRO CUTUK DFP0000464 ANDRO CUTUK DEP0000464

PROPOSED DEVELOPMENT 67 PACIFIC PARADE, DEE WHY

STORMWATER PLANS

GENERAL NOTES

- G1. THE DRAWINGS SHALL BE READ IN CONJUNCTION WITH ALL ARCHITECTURAL DRAWINGS AND SPECIFICATIONS AND OTHER WRITTEN INSTRUCTIONS THAT MAY BE ISSUED.
- G2. DIMENSIONS SHALL NOT BE OBTAINED BY SCALING FROM THE DRAWINGS. REFER
- ARCHITECTS DRAWINGS FOR ALL DIMENSIONS.
- G3. REFER ANY DISCREPANCY TO THE ENGINEER/ARCHITECT
- G4. MATERIALS AND WORKMANSHIP SHALL COMPLY WITH THE APPROPRIATE SAA SPECIFICATIONS OR CODE AND WITH THE REQUIREMENTS OF THE RELEVANT LOCAL **AUTHORITY**
- G5. THE ALIGNMENT AND LEVEL OF ALL SERVICES SHOWN ARE APPROXIMATE ONLY. THE CONTRACTOR SHALL CONFIRM THE POSITION AND LEVEL OF ALL SERVICES PRIOR TO COMMENCEMENT OF CONSTRUCTION. ANY DAMAGE TO SERVICES SHALL BE RECTIFIED AT
- G6. NO WORKS ARE TO COMMENCE UNTIL THE REQUIRED TREE REMOVAL PERMITS HAVE BEEN GRANTED BY RELEVANT LOCAL AUTHORITY, AND THE APPROPRIATE NOTICE OF INTENTION TO COMMENCE GIVEN.
- G7. ALL SERVICES, OR CONDUITS FOR SERVICING SHALL BE INSTALLED PRIOR TO COMMENCEMENT OF PAVEMENT CONSTRUCTION.
- G8. SUBSOIL DRAINAGE, COMPRISING 100 AGRICULTURE PIPE IN GEO-STOCKING TO BE PLACED AS SHOWN AND AS MAY BE DIRECTED BY THE SUPERINTENDENT. SUBSOIL DRAINAGE SHALL BE CONSTRUCTED IN ACCORDANCE WITH THE RELEVANT LOCAL AUTHORITY CONSTRUCTION SPECIFICATION.
- G9. NO WORK IS PERMITTED WITHIN ADJOINING PROPERTIES WITHOUT WRITTEN PERMISSION FROM THE OWNERS OR RESPONSIBLE AUTHORITY.

DRAINAGE NOTES

- D1. ALL DRAINAGE OUTLET LEVELS SHALL BE CONFIRMED ON SITE, PRIOR TO CONSTRUCTION
- D2. ALL PIPES WITHIN THE PROPERTY TO BE MIN. 100 DIA UPVC @ 1% MIN. GRADE, UNO.
- D3. ALL PITS WITHIN THE PROPERTY ARE TO BE FITTED WITH "WELDLOK" OR APPROVED **EQUIVALENT GRATES:** - LIGHT DUTY FOR LANDSCAPED AREAS
- HEAVY DUTY WHERE SUBJECTED TO VEHICULAR TRAFFIC
- D4. PITS WITHIN THE PROPERTY MAY BE CONSTRUCTED AS: 1) PRECAST STORMWATER PITS
- 2) CAST INSITU MASS CONCRETE
- 3) CEMENT RENDERED 230mm BRICKWORK
- SUBJECT TO THE RELEVANT LOCAL AUTHORITY CONSTRUCTION SPECIFICATION. D5. ENSURE ALL GRATES TO PITS ARE SET BELOW FINISHED SURFACE LEVEL WITHIN THE
- PROPERTY. TOP OF PIT RL'S ARE APPROXIMATE ONLY AND MAY BE VARIED SUBJECT TO APPROVAL OF THE ENGINEER. ALL INVERT LEVELS ARE TO BE ACHIEVED. D6. ANY PIPES BENEATH RELEVANT LOCAL AUTHORITY ROAD TO BE RUBBER RING JOINTED
- RCP, UNO. D7. ALL PITS IN ROADWAYS ARE TO BE FITTED WITH HEAVY DUTY GRATES WITH LOCKING
- BOLTS AND CONTINUOUS HINGE.
- D8. PROVIDE STEP IRONS TO STORMWATER PITS GREATER THAN 1200 IN DEPTH. D9. TRENCH BACK FILL IN ROADWAYS SHALL COMPRISE SHARP, CLEAN GRANULAR BACK FILL IN
- ACCORDANCE WITH THE RELEVANT LOCAL AUTHORITY SPECIFICATION TO NON-TRAFFICABLE AREAS TO BE COMPACTED BY RODDING AND TAMPING USING A FLAT PLATE VIBRATOR.
- D10. WHERE A HIGH EARLY DISCHARGE (HED) PIT IS PROVIDED ALL PIPES ARE TO BE
- CONNECTED TO THE HED PIT, UNO. D11. DOWN PIPES SHALL BE A MINIMUM OF DN100 SW GRADE UPVC OR 100X100
- COLORBOND/ZINCALUME STEEL, UNO. D12. COLORBOND OR ZINCALUME STEEL BOX GUTTERS SHALL BE A MINIMUM OF 450 WIDE X 150
- D13. EAVES GUTTERS SHALL BE A MINIMUM OF 125 WIDE X 100 DEEP (OR OF EQUIVALENT AREA)
- COLORBOND OR ZINCALUME STEEL, UNO.
- D14. SUBSOIL DRAINAGE SHALL BE PROVIDED TO ALL RETAINING WALLS & EMBANKMENTS, WITH THE LINES FEEDING INTO THE STORMWATER DRAINAGE SYSTEM, UNO.

EARTHWORKS NOTES

- E1. THE EARTHWORKS SHALL BE CARRIED OUT IN ACCORDANCE WITH THE PROJECT
- GEOTECHNICAL REPORT.
- E2. THE SITE OF THE WORKS SHALL BE PREPARED BY STRIPPING ALL EXISTING TOPSOIL, FILL AND VEGETATION.
- E3. SUBGRADE SHALL BE COMPACTED UNTIL A DRY DENSITY HAS BEEN ACHIEVED OF NOT LESS THAN 100% OF THE STANDARD MAXIMUM DRY DENSITY WHEN TESTED IN ACCORDANCE WITH AS 1289 TESTS E.1.1. OR E.1.2.
- E4. THE EXPOSED SUBGRADE SHOULD BE PROOF ROLLED TO DETECT ANY SOFT OR WET AREAS WHICH SHOULD BE LOCALLY EXCAVATED AND BACK FILLED WITH SELECTED MATERIAL.
- E5. THE BACK FILLING MATERIAL SHALL BE IMPORTED GRANULAR FILL OF LOW PLASTICITY, PREFERABLY CRUSHED SANDSTONE, AND TO BE PLACED IN LAYERS NOT EXCEEDING 150 LOOSE THICKNESS AND COMPACTED TO 98% OF STANDARD DRY DENSITY AT A MOISTURE
- CONTENT WITHIN 2% OF OPTIMUM. SITE WORKS ARE TO BE BATTERED TO ADJACENT PROPERTY LEVELS.
- STORMWATER MUST NOT BE CONCENTRATED ON TO AN ADJACENT PROPERTY.
- E8. AT NO TIME DURING OR AFTER CONSTRUCTION IS STORMWATER TO BE PONDED ON
- ADJOINING PROPERTIES. E9. THE SITE SHALL BE GRADED AND DRAINED SO THAT STORMWATER WILL BE DIRECTED
- AWAY FROM THE BUILDING PLATFORM. E10. STORMWATER DRAINAGE SHALL BE PROVIDED AND MAINTAINED THROUGHOUT THE COURSE OF CONSTRUCTION. ALL STORMWATER RUNOFF SHALL BE GRADED AWAY FROM THE SITE WORKS AND DISPOSED OF VIA SURFACE CATCHDRAINS AND STORMWATER
- COLLECTION PITS. E11. ALL SURFACE CATCH DRAINS SHALL BE GRADED AT 1% (1 IN 100) MINIMUM. THE GROUND SHALL GRADE AWAY FROM ANY DWELLING AT 5% (1 IN 20) FOR THE FIRST METRE THEN AT
- 2.5% (1 IN 40). E12. WHERE A CUT FILL PLATFORM IS USED THERE SHALL BE A MINIMUM BERM 1000 WIDE TO THE PERIMETER OF THE SITE WORKS WHICH SHALL BE SUPPORTED BY BATTERS OF 3:1 IN
- E13. ANY VERTICAL OR NEAR VERTICAL PERMANENT EXCAVATION (CUT) DEEPER THAN 600 IN MATERIAL OTHER THAN ROCK SHALL BE ADEQUATELY RETAINED OR BATTERED AT A
- MINIMUM OF 3:1. E14. WHERE BATTERS CANNOT BE PROVIDED TO SUPPORT THE CUT OR FILL, THEY SHALL BE
- ADEQUATELY RETAINED.
- E15. RETAINING WALLS ARE TO BE CONSTRUCTED WITH ADEQUATE SUBSOIL DRAINAGE.

CONCRETE PAVEMENT

- C1. SUBGRADE SHALL BE PREPARED AS OUTLINED IN EARTHWORKS
- C2. PROVIDE JOINTING AT MINIMUM 6000 MAX. INTERVALS OR AS OTHERWISE SPECIFIED IN THE
- C3. CONCRETE SHALL COMPRISE A MIN. COMPRESSIVE STRENGTH OF 32MPa AT 28 DAYS IN ACCORDANCE WITH THE RELEVANT LOCAL AUTHORITY SPECIFICATION, UNO.
- C4. ANY SUB-BASE MATERIAL SHALL BE COMPACTED AS OUTLINED IN EARTHWORKS. C5. CONCRETE KERB AND GUTTER SHALL COMPRISE A MINIMUM COMPRESSIVE STRENGTH OF
- C6. CONCRETE WORKS ARE TO BE CURED BY ONE OF THE FOLLOWING MEANS: i) WETTING TWICE DAILY FOR THE FIRST THREE DAYS; ii) USING AN APPROVED CURING COMPOUNDED FOR A MINIMUM OF 7 DAYS COMMENCING IMMEDIATELY AFTER POURING.

FLEXIBLE PAVEMENT NOTES

- F1. SUBGRADE SHALL BE PREPARED AS OUTLINED IN EARTHWORKS. F2. PAVEMENT MATERIAL SHALL CONSIST OF APPROVED OR RIPPED SANDSTONE, NATURAL
- GRAVEL OR FINE CRUSH ROCK AS PER THE RELEVANT COUNCIL AUTHORITY SPECIFICATION.
- F3. PAVEMENT MATERIALS SHALL BE SPREAD IN LAYERS NOT EXCEEDING 150 AND NOT LESS 75 COMPACTED THICKNESS.
- F4. PAVEMENT MATERIALS SHALL BE SIZED AND OF A STANDARD OUTLINED IN AS1141. F5. CRUSHED OR RIPPED SANDSTONE SHALL BE MINUS 75 NOMINAL SIZE DERIVED FROM SOUND, CLEAN SANDSTONE FREE FROM OVERBURDEN, CLAY SEAMS, SHALE AND OTHER
- **DELETERIOUS MATERIAL** F6. PAVEMENT MATERIALS SHALL BE COMPACTED BY SUITABLE MEANS TO SATISFY THE FOLLOWING MINIMUM SPECIFICATIONS (AS PER AS1289.2)

MEDIUM DENSITY RATIO SUB-BASE 98% MOD

BASE COURSE 98% MOD ASPHALTIC CONCRETE 97% MOD

- AND SUBJECT TO THE RELEVANT LOCAL AUTHORITY CONSTRUCTION SPECIFICATION.
- F7. TESTING FOR EACH LAYER SHALL BE UNDERTAKEN BY A N.A.T.A. REGISTERED LABORATORY IN ACCORDANCE WITH AS1289, AT NOT MORE THAN 50m INTERVALS AND A MINIMUM OF TWO PER LAYER. FURTHER FREQUENCY OF TESTING SHALL BE NO LESS THAN THAT REQUIRED BY AS3978.

PAVED AREAS NOTES

- A1. SUBGRADE SHALL BE PREPARED AS OUTLINED IN EARTHWORKS. A2. ALL PAVERS ARE TO BE PLACED IN ACCORDANCE WITH THE MANUFACTURER'S
- SPECIFICATION. A3. TRAFFICABLE AREAS:
- SUB-BASE TO BE 150 COMPACTED THICKNESS DGS75. SUB-BASE TO BE SUITABLY COMPACTED TO MEDIUM DENSITY 98% MOD. SUB-BASE TO EXTEND AT LEAST 200 BEYOND PAVED SURFACE.
- PAVERS TO BE 80 THICK INTERLOCKING PAVERS ON 50 SAND BEDDING A4. NON TRAFFICABLE AREAS: SUB BASE AS PER TRAFFICABLE AREAS

EROSION AND SEDIMENT NOTES

B1. THIS PLAN TO BE READ IN CONJUNCTION WITH EROSION AND SEDIMENT CONTROL DETAILS AS ATTACHED.

PAVERS TO BE 60 INTERLOCKING PAVERS ON 50 SAND BEDDING (UNO).

- B2. THE CONTRACTOR SHALL IMPLEMENT ALL SOIL EROSION AND SEDIMENT CONTROL MEASURES AS NECESSARY AND TO THE SATISFACTION OF THE RELEVANT LOCAL AUTHORITY PRIOR TO THE COMMENCEMENT OF AND 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
- B3. TOPSOIL SHALL BE STRIPPED AND STOCKPILED OUTSIDE HAZARD AREAS SUCH AS DRAINAGE LINES. THIS TOPSOIL SHALL BE RESPREAD LATER ON AREAS TO BE REVEGETATED AND STABILISED ONLY, (I.E. ALL FOOTPATHS, BATTERS, SITE REGARDING AREAS, BASINS AND CATCHDRAINS). TOPSOIL SHALL NOT BE RESPREAD ON ANY OTHER AREAS UNLESS SPECIFICALLY INSTRUCTED BY THE SUPERINTENDENT. IF THEY ARE TO REMAIN FOR LONGER THAN ONE MONTH STOCKPILES 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. B4. 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 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 DISTURBED AREAS ARE REVEGETATED AND FURTHER AS MAY BE DIRECTED BY THE
- SUPERINTENDENT OR COUNCIL. B5. LAY TURF STRIP (MIN 300 WIDE) ON 100 TOPSOIL BEHIND ALL KERB WITH 1000 LONG RETURNS EVERY 6000 AND AROUND STRUCTURES IMMEDIATELY AFTER BACKFILLING AS
- PER THE RELEVANT LOCAL AUTHORITY SPECIFICATION. B6. THE CONTRACTOR SHALL GRASS SEED ALL DISTURBED AREAS WITH AN APPROVED MIX AS SOON AS PRACTICABLE AFTER COMPLETION OF EARTHWORKS AND REGRADING.
- VEHICULAR TRAFFIC SHALL BE CONTROLLED DURING CONSTRUCTION CONFINING ACCESS WHERE POSSIBLE TO NOMINATED STABILISED ACCESS POINTS.
- WHEN ANY DEVICES ARE TO BE HANDED OVER TO COUNCIL THEY SHALL BE IN CLEAN AND
- THE CONTRACTOR SHALL IMPLEMENT DUST CONTROL BY REGULAR WETTING DOWN (BUT NOT SATURATING) DISTURBED AREA. PROVIDE AND MAINTAIN SILT TRAPS AROUND ALL SURFACE INLET PITS UNTIL CATCHMENT
- IS REVEGETATED OR PAVED. REVEGETATE ALL TRENCHES IMMEDIATELY UPON COMPLETION OF BACKFILLING. ALL DRAINAGE PIPE INLETS TO BE CAPPED UNTIL:
 - DOWNPIPES CONNECTED - PITS CONSTRUCTED AND PROTECTED WITH SILT BARRIER

MINIMUM PIPE COVER SHALL BE AS FOLLOWS

<u>LOCATION</u>	MINIMUM COVER	
NO SUBJECT TO VEHICLE LOADING	100mm SINGLE RESIDENTAL	
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:

- 150mm 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

PIT SIZES AND DESIGN

DEPTH (mm)	MINIMUM PIT SIZE (mm)
UP TO 600mm	450 x 450
600mm TO 900mm	600 x 600 U.N.O
900mm TO 1200mm	900 x 900
1200mm +	900 x 900 (WITH STEP IRON)

SYMBOLS

	DESCRIPTION
	DENOTE ON-SITE DETENTION TANK OR PUMP OUT TANK
	DENOTE ON-SITE DETENTION BASIN
	DENOTE ABSORPTION TRENCH
o DP	DENOTES DOWNPIPE
Ø100	DENOTES 100mm DIA PVC (SEWER GRADE) AT 1% MIN. GRADE U.N.O
Ø100	DENOTES 100mm DIA PVC TO BE CONNECTED DIRECTLY TO RAINWATER TANK
Ø225	DENOTES 225mm DIA PVC (SEWER GRADE) AT 0.5% MIN. GRADE U.N.O
— G —— G —	DENOTES AGG LINE
ss	DENOTES SEDIMENT FENCE
I₽œ	DENOTES INSPECTION OPENING WITH SCREW DOWN LID AT FINISH SURFACE LEVEL
Œ	DENOTES CLEANING EYE
	STORMWATER PIT - GRATED INLET
\boxtimes	STORMWATER PIT - SOLID COVER
\bowtie	MAINTENANCE PIT
\bowtie	NON RETURN VALVE
FD	DENOTE ROUND FLOOR DRAINS
FD	DENOTE SQUARE FLOOR DRAINS
PB	DENOTE PLANTER BOX DRAINS
	DENOTE GRATED DRAIN
RL 6.20	PROPOSED FINISH FLOOR LEVEL
>>>	DENOTE EXISTING OVERLAND FLOW PATH
	DENOTE RAINWATER TANK
<u> </u>	DENOTE WATER OUTLET
RL	REDUCED LEVEL/SURFACE LEVELL
IL	INVERT LEVEL
тк	TOP OF KERB

SCHEDULE OF DRAWINGS

SHEET No	DESCRIPTION
SW100	STORMWATER NOTES & COVER PAGE
SW101	BASEMENT DRAINAGE PLAN, SECTIONS & DETAILS
SW102	LOWER GROUND FLOOR AND GROUND FLOOR STORMWATER LAYOUT
SW103	FIRST FLOOR AND SECOND FLOOR STORMWATER LAYOUT
SW104	THIRD FLOOR AND FOURTH FLOOR STORMWATER LAYOUT
SW105	FIFTH FLOOR AND ROOF STORMWATER LAYOUT
SW106	STORMWATER SECTIONS & DETAILS

HOLD POINTS FOR STORMWATER INSPECTIONS

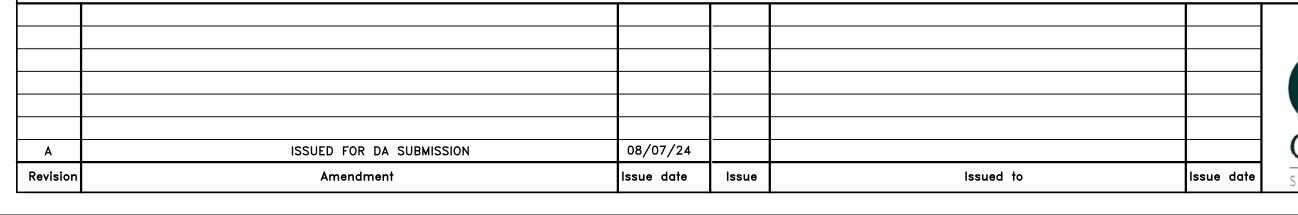
THE FOLLOWING HOLD POINTS MUST BE INSPECTED BY A PROFESSIONAL CIVIL ENGINEER OR COUNCIL ENGINEER AT THE

- 1. INITIAL INSPECTION TO DISCUSS CONCEPT AND SITE CONDITIONS/CONSTRAINTS PRIOR TO COMMENCEMENT OF THE CONSTRUCTION OF OSD TANK.
- 2. AFTER FORMING UP OF OSD TANK & PRIOR TO POURING CONCRETE.
- 3. AFTER COMPLETION OF STORAGE BUT PRIOR TO INSTALLATION OF FITTINGS (E.G ORIFICE PLATE, TRASH SCREEN, NON RETURN FLAP VALVE ETC) 4. FINAL INSPECTION ON COMPLETION OF STORMWATER
- **COMPONENTS**

STORMWATER PLAN COMPLIES WITH DA CONDITIONS:

- DA CONDITION 1
- DA CONDITION 13
- DA CONDITION 19







SUITE 303 / 29-31 LEXTINGTON DRIVE NORWEST BUSINESS PARK, BELLA VISTA N.S.W. 2153 ALL CORRESPONDENCE TO: P.O. BOX 6080 BAULKHAM HILLS BC

BAULKHAM HILLS NSW 2153 PH. 8814 6191 FAX 8814 5301 MOB. 0425 270 333 EMAIL andrew@camconsulting.com.au

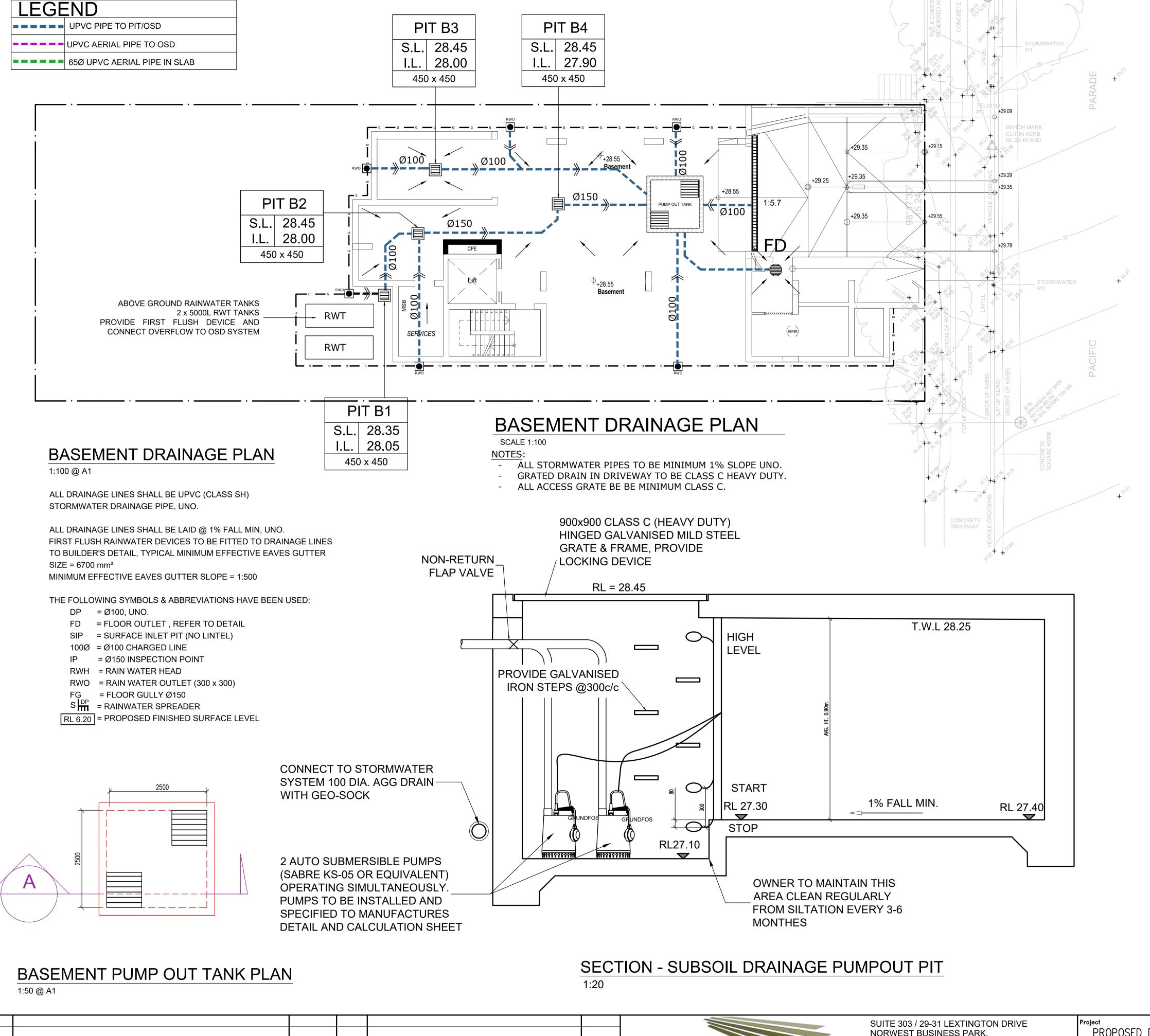
PROPOSED DEVELOPMENT 67 PACIFIC PARADE. DEE WHY ADJANI

Architect / Project Manager

STORMWATER NOTES & COVER PAGE

C23181 - SW 100

Designed A1 - 1:100 Approved



08/07/24

ssue date

Issue

Issued to

Issue date

ISSUED FOR DA SUBMISSION

Amendment

PUMP DESIGN SUMMARY

CATCHMENT AREA = 50 m² (DRIVEWAY RAMP) 100 YEAR ARI 2 HOUR STORM = 42.80 mm/hr TOTAL WATER = 2 x 42.80 mm = 85.60 mm TOTAL STORAGE VOLUME REQUIRED = 50 x 0.085 = 4.25m³

SEEPAGE = $2.5ML/YEAR/Ha = 6.85 \text{ m}^3/Ha$ SEEPAGE = AREA x 6.85m³ = 0.025 x 6.85 = 0.17 m³

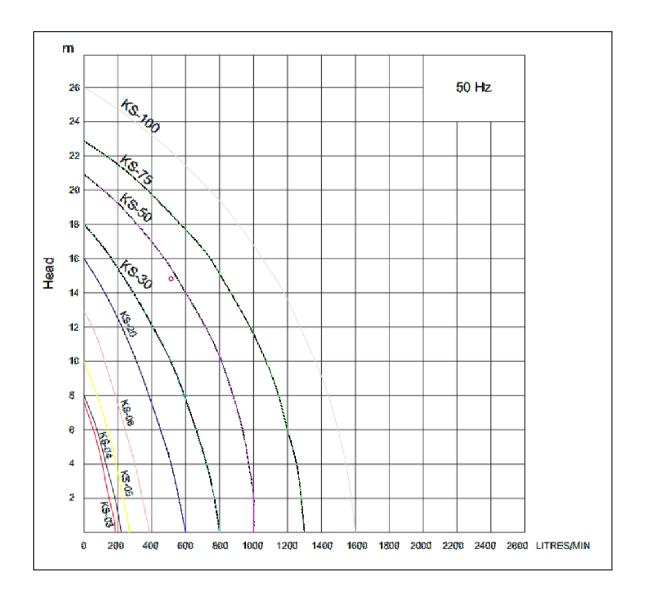
TOTAL PUMP-OUT TANK REQUIRED = $4.25 + 0.17 = 4.4 \text{ m}^3$ PUMP OUT TANK VOLUME PROVIDED = 5.00 m³ (MINIMUM)

PUMP HEAD = 2 m

RAINFALL INTENSITY FOR CALCULATIONS = 100 YEAR ARI STORM DURATION 5 MINUTE = 224 mm/h

PUMP RATE REQUIRED =224 x 50 / 3600 = 3.11 l/s = 186 l/min

2 x SABER KS-05 SUBMERSIBLE PUMPS (OR APPROVED EQUIVALENT) PUMPS TO BE USED



PUMP DESIGN POINT HEAD = 2.00mDISCAHRGE RATE = 186L/Min. PUMP MODEL REQ = KS-05

STANDARD PUMP OUT DESIGN NOTES

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

- > THE PUMPS SHALL BE PROGRAMMED TO WORK ALTERNATIVELY SO AS TO ALLOW BOTH PUMPS TO HAVE AN EQUAL OPERATION LOAD AND PUMP LIFE.
- > A LOW LEVEL FLOAT SHALL BE PROVIDED TO ENSURE THAT 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.
- > A SECOND FLOAT SHALL BE PROVIDED AT A HIGHER LEVEL, APPROXIMATELY 300mm ABOVE THE MINIMUM WATER LEVEL, WHEREBY ONE OF THE PUMPS WILL OPERATE AND DRAIN THE TANK TO THE LEVEL OF THE LOW-LEVEL FLOAT.
- > A THIRD FLOAT SHALL BE PROVIDED AT A HIGH LEVEL, WHICH IS APPROXIMATELY THE ROOF LEVEL OF THE BELOW GROUND TANK. THIS FLOAT SHOULD START THE OTHER PUMP THAT IS NOT OPERATING AND ACTIVATE THE ALARM.
- > AN ALARM SYSTEM SHALL BE PROVIDED 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.

STRUCTURAL & CIVIL ENGINEERS

NORWEST BUSINESS PARK, BELLA VISTA N.S.W. 2153 ALL CORRESPONDENCE TO:

P.O. BOX 6080 BAULKHAM HILLS BC **BAULKHAM HILLS NSW 2153**

PH. 8814 6191 FAX 8814 5301 MOB. 0425 270 333 EMAIL andrew@camconsulting.com.au

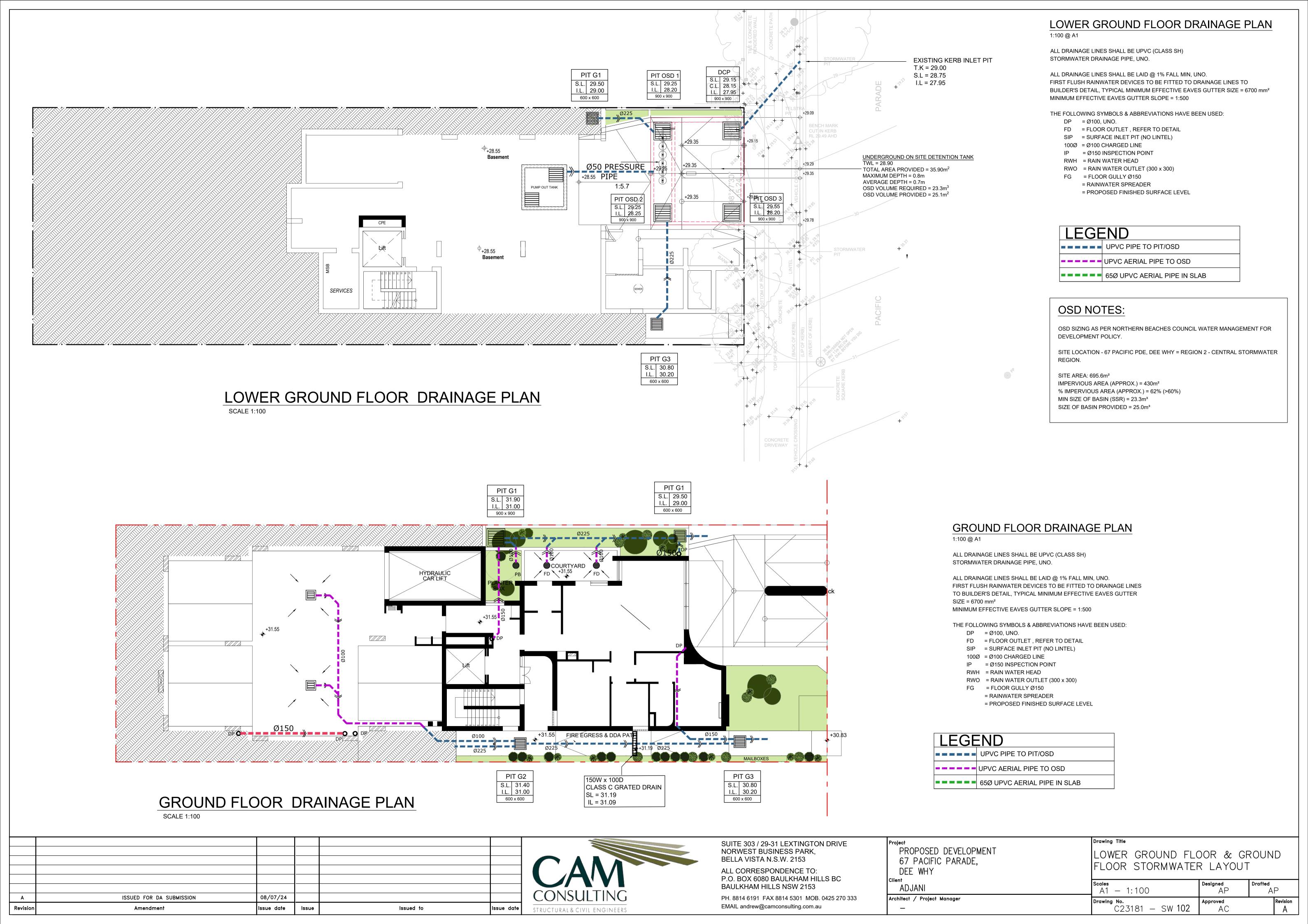
PROPOSED DEVELOPMENT 67 PACIFIC PARADE. DEE WHY

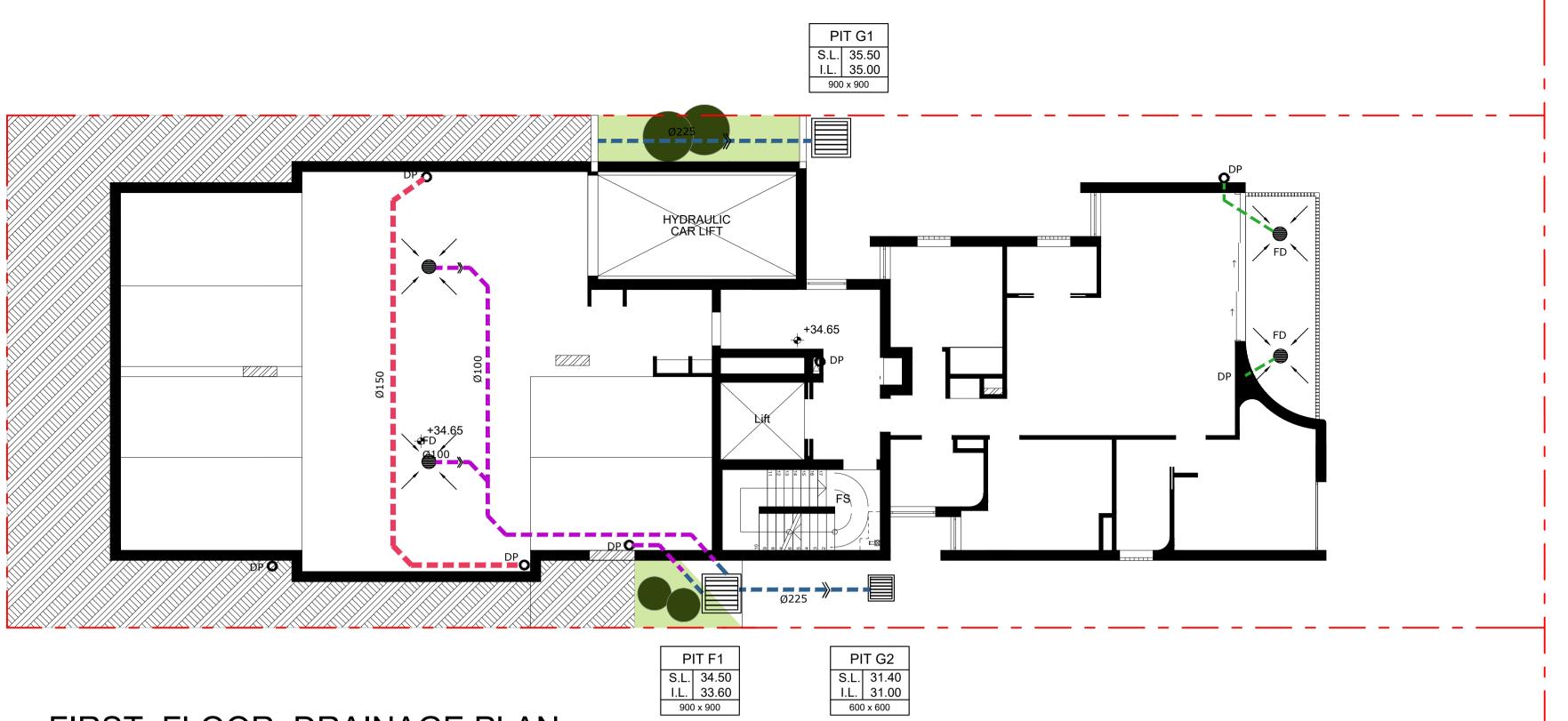
ADJANI

BASEMENT DRAINAGE PLAN, SECTIONS & DETAILS

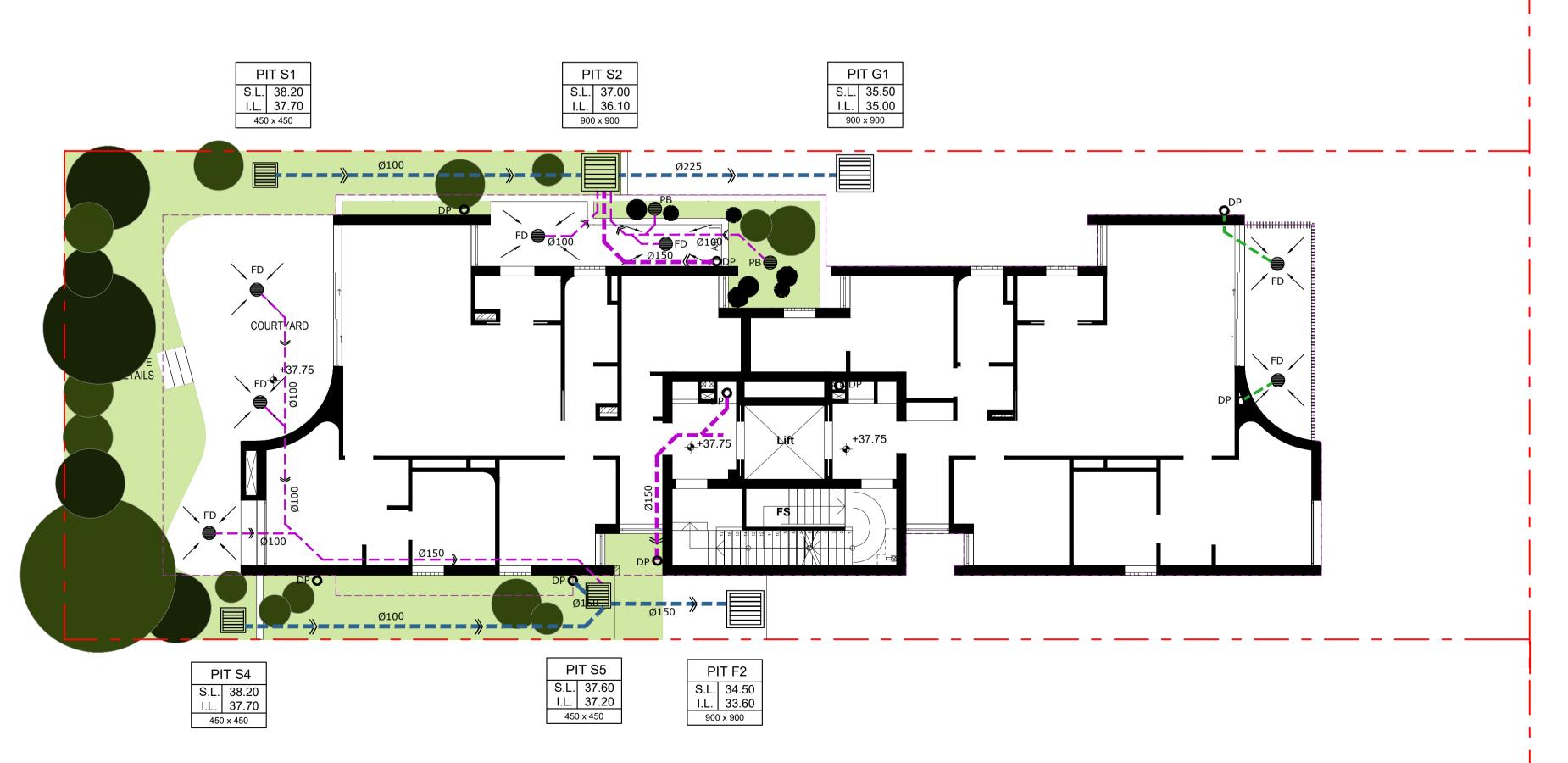
Scales A1 — 1:100 Designed AΡ Approved

Architect / Project Manager C23181 - SW 101 АC





FIRST FLOOR DRAINAGE PLAN SCALE 1:100



SECOND FLOOR DRAINAGE PLAN

SCALE 1:100

Revision	Amendment	Issue date	Issue	Issued to	Issue date	
Α	ISSUED FOR DA SUBMISSION	08/07/24				
					·	1



SUITE 303 / 29-31 LEXTINGTON DRIVE NORWEST BUSINESS PARK, BELLA VISTA N.S.W. 2153

ALL CORRESPONDENCE TO: P.O. BOX 6080 BAULKHAM HILLS BC **BAULKHAM HILLS NSW 2153**

PH. 8814 6191 FAX 8814 5301 MOB. 0425 270 333 EMAIL andrew@camconsulting.com.au

PROPOSED DEVELOPMENT 67 PACIFIC PARADE, DEE WHY

Architect / Project Manager

ADJANI

FIRST FLOOR & SECOND FLOOR STORMWATER LAYOUT

Scales A1 — 1:100 C23181 - SW **103**

LEVEL 01 DRAINAGE PLAN

ALL DRAINAGE LINES SHALL BE UPVC (CLASS SH) STORMWATER DRAINAGE PIPE, UNO.

ALL DRAINAGE LINES SHALL BE LAID @ 1% FALL MIN, UNO. FIRST FLUSH RAINWATER DEVICES TO BE FITTED TO DRAINAGE LINES TO BUILDER'S DETAIL, TYPICAL MINIMUM EFFECTIVE EAVES GUTTER $SIZE = 6700 \text{ mm}^2$

MINIMUM EFFECTIVE EAVES GUTTER SLOPE = 1:500

THE FOLLOWING SYMBOLS & ABBREVIATIONS HAVE BEEN USED:

DP = \emptyset 100, UNO. FD = FLOOR OUTLET, REFER TO DETAIL

SIP = SURFACE INLET PIT (NO LINTEL) 100Ø = Ø100 CHARGED LINE

IP = Ø150 INSPECTION POINT

RWH = RAIN WATER HEAD

RWO = RAIN WATER OUTLET (300 x 300)

FG = FLOOR GULLY Ø150 = RAINWATER SPREADER

= PROPOSED FINISHED SURFACE LEVEL

LEGEND				
	UPVC PIPE TO PIT/OSD			
	UPVC AERIAL PIPE TO OSD			
	65Ø UPVC AERIAL PIPE IN SLAB			
	UPVC AERIAL PIPE TO RWT			

LEVEL 02 DRAINAGE PLAN

1:100 @ A1

ALL DRAINAGE LINES SHALL BE UPVC (CLASS SH) STORMWATER DRAINAGE PIPE, UNO.

ALL DRAINAGE LINES SHALL BE LAID @ 1% FALL MIN, UNO. FIRST FLUSH RAINWATER DEVICES TO BE FITTED TO DRAINAGE LINES TO BUILDER'S DETAIL, TYPICAL MINIMUM EFFECTIVE EAVES GUTTER $SIZE = 6700 \text{ mm}^2$

MINIMUM EFFECTIVE EAVES GUTTER SLOPE = 1:500

THE FOLLOWING SYMBOLS & ABBREVIATIONS HAVE BEEN USED:

DP = \emptyset 100, UNO.

LEGEND

FD = FLOOR OUTLET, REFER TO DETAIL SIP = SURFACE INLET PIT (NO LINTEL)

100Ø = Ø100 CHARGED LINE

IP = Ø150 INSPECTION POINT

RWH = RAIN WATER HEAD

UPVC PIPE TO PIT/OSD

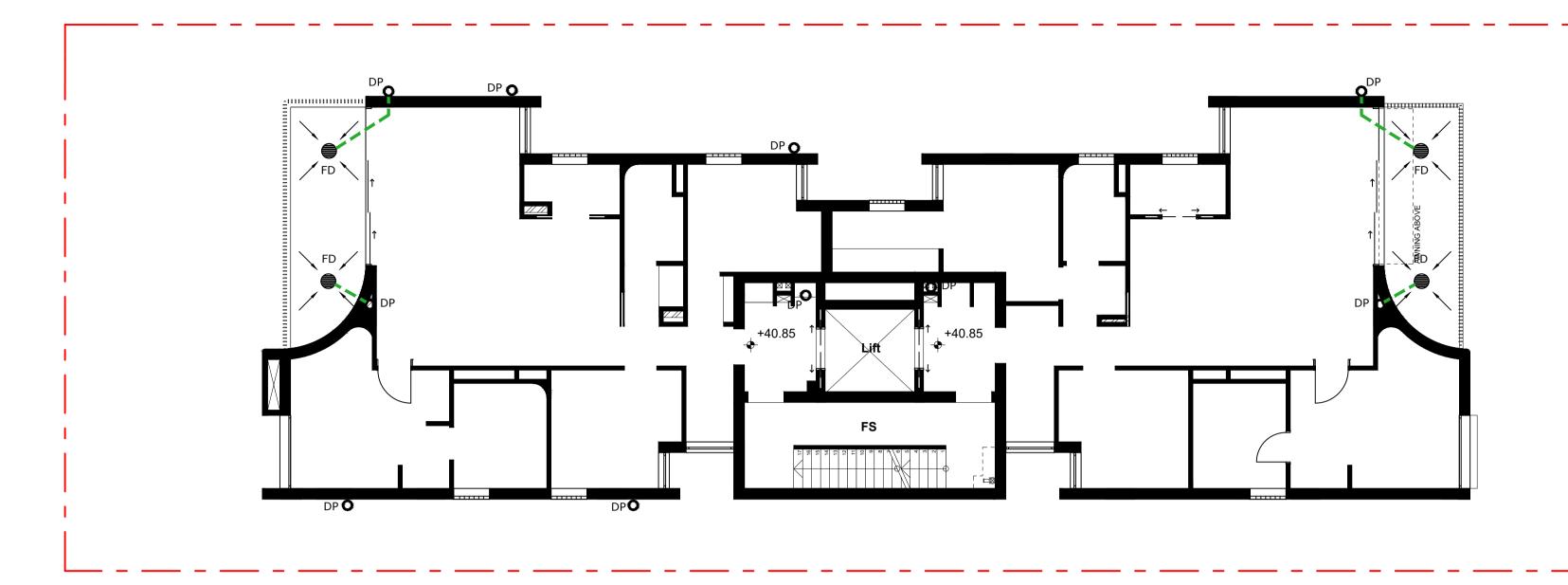
UPVC AERIAL PIPE TO OSD

65Ø UPVC AERIAL PIPE IN SLAB

RWO = RAIN WATER OUTLET (300 x 300) FG = FLOOR GULLY Ø150

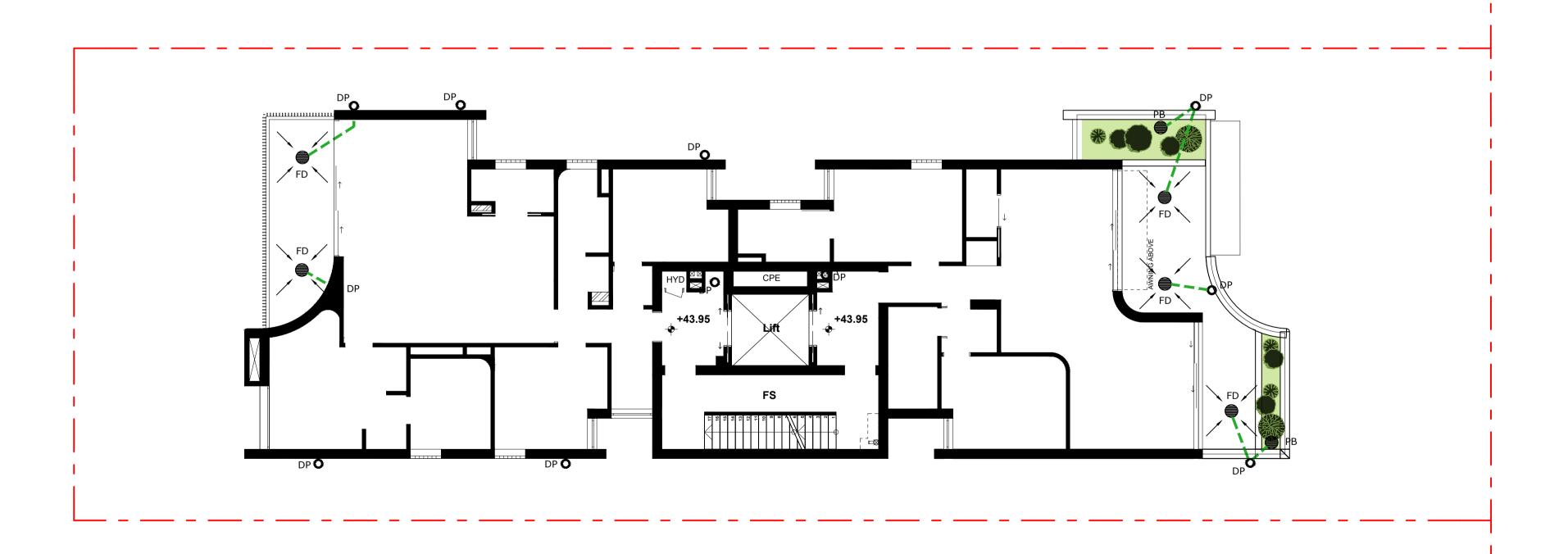
= RAINWATER SPREADER

= PROPOSED FINISHED SURFACE LEVEL



THIRD FLOOR DRAINAGE PLAN

SCALE 1:100



FOURTH FLOOR DRAINAGE PLAN

SCALE 1:100

100 @ A1

LEVEL 03 DRAINAGE PLAN

1:100 @

ALL DRAINAGE LINES SHALL BE UPVC (CLASS SH) STORMWATER DRAINAGE PIPE, UNO.

ALL DRAINAGE LINES SHALL BE LAID @ 1% FALL MIN, UNO.
FIRST FLUSH RAINWATER DEVICES TO BE FITTED TO DRAINAGE LINES
TO BUILDER'S DETAIL, TYPICAL MINIMUM EFFECTIVE EAVES GUTTER
SIZE = 6700 mm²

MINIMUM EFFECTIVE EAVES GUTTER SLOPE = 1:500

THE FOLLOWING SYMBOLS & ABBREVIATIONS HAVE BEEN USED:

DP = \emptyset 100, UNO.

FD = FLOOR OUTLET , REFER TO DETAIL

SIP = SURFACE INLET PIT (NO LINTEL)

100Ø = Ø100 CHARGED LINE

IP = Ø150 INSPECTION POINT

RWH = RAIN WATER HEAD

RWO = RAIN WATER OUTLET (300 x 300) FG = FLOOR GULLY Ø150

= RAINWATER SPREADER

= PROPOSED FINISHED SURFACE LEVEL

LEGEND

UPVC PIPE TO PIT/OSD

UPVC AERIAL PIPE TO OSD

65Ø UPVC AERIAL PIPE IN SLAB

LEVEL 04 DRAINAGE PLAN

1:100 @ A1

ALL DRAINAGE LINES SHALL BE UPVC (CLASS SH)

STORMWATER DRAINAGE PIPE, UNO.

ALL DRAINAGE LINES SHALL BE LAID @ 1% FALL MIN, UNO.
FIRST FLUSH RAINWATER DEVICES TO BE FITTED TO DRAINAGE LINES
TO BUILDER'S DETAIL, TYPICAL MINIMUM EFFECTIVE EAVES GUTTER
SIZE = 6700 mm²

MINIMUM EFFECTIVE EAVES GUTTER SLOPE = 1:500

THE FOLLOWING SYMBOLS & ABBREVIATIONS HAVE BEEN USED:

DP = Ø100, UNO.

FD = FLOOR OUTLET, REFER TO DETAIL
SIP = SURFACE INLET PIT (NO LINTEL)

100Ø = Ø100 CHARGED LINE

IP = Ø150 INSPECTION POINT

RWH = RAIN WATER HEAD

RWO = RAIN WATER OUTLET (300 x 300) FG = FLOOR GULLY Ø150

= FLOOR GULLY Ø150 = RAINWATER SPREADER

= PROPOSED FINISHED SURFACE LEVEL

LEGEND

UPVC PIPE TO PIT/OSD

UPVC AERIAL PIPE TO OSD

65Ø UPVC AERIAL PIPE IN SLAB

·						
Α	ISSUED FOR DA SUBMISSION	08/07/24				
Revision	Amendment	Issue date	Issue	Issued to	Issue date	
		· · ·			<u> </u>	



SUITE 303 / 29-31 LEXTINGTON DRIVE NORWEST BUSINESS PARK, BELLA VISTA N.S.W. 2153

ALL CORRESPONDENCE TO: P.O. BOX 6080 BAULKHAM HILLS BC BAULKHAM HILLS NSW 2153

PH. 8814 6191 FAX 8814 5301 MOB. 0425 270 333 EMAIL andrew@camconsulting.com.au

PROPOSED DEVELOPMENT 67 PACIFIC PARADE, DEE WHY

Client ADJANI

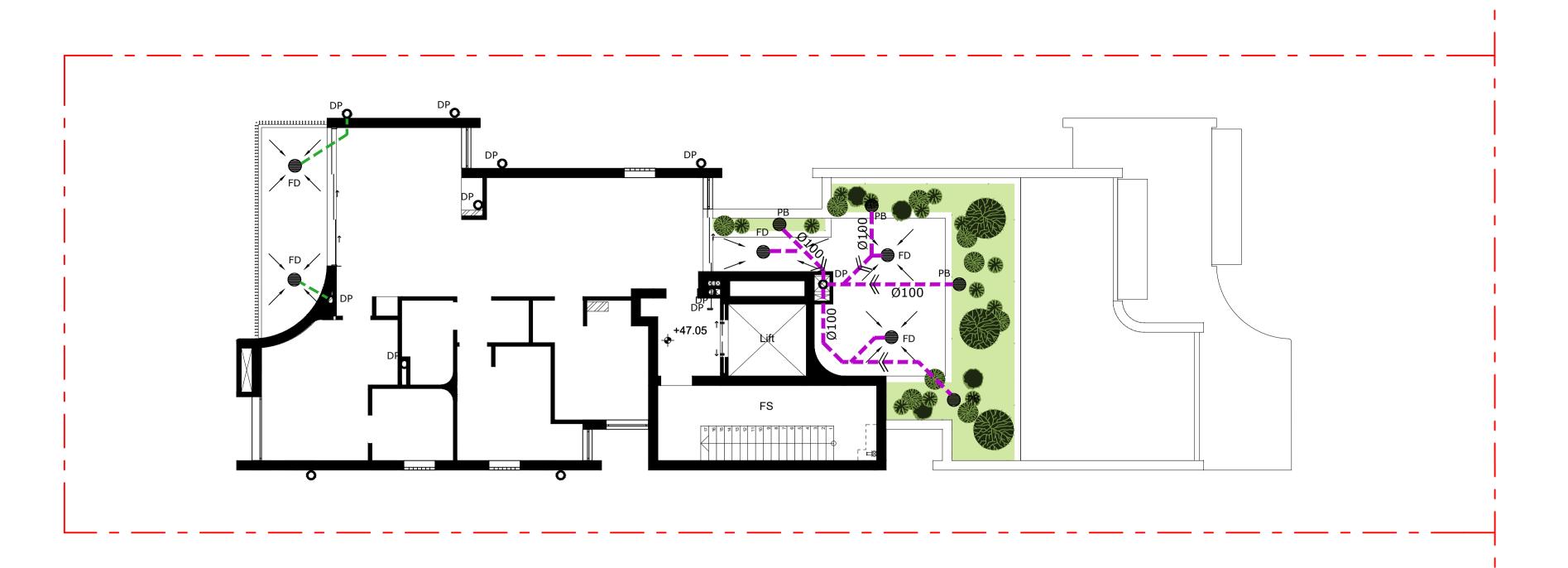
ADJANI Architect / Project Manager THIRD FLOOR & FOURTH FLOOR STORMWATER LAYOUT

 Scales
 Designed
 Drafted

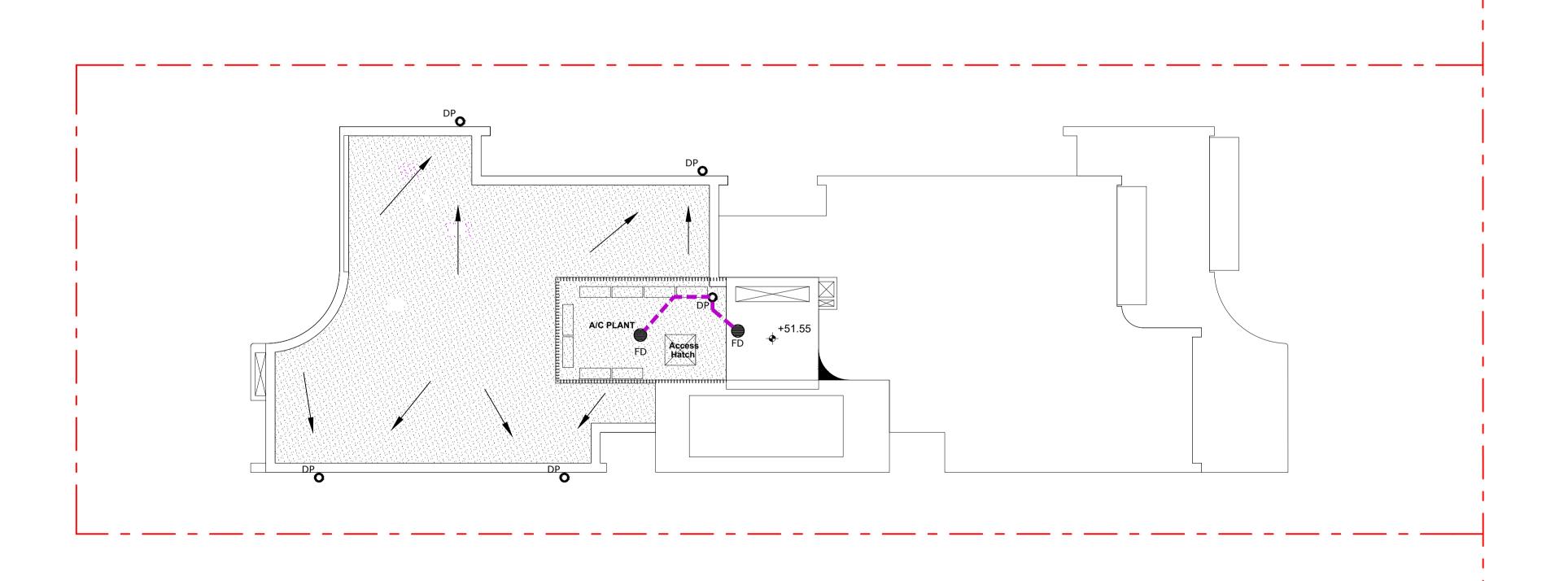
 A1 - 1:100
 AP
 AP

 Drawing No.
 Approved
 Revision

 C23181 - SW 104
 AC
 A



FIFTH FLOOR DRAINAGE PLAN



ROOF DRAINAGE PLAN

SCALE 1:100

SCALE 1:100

ISSUED FOR DA SUBMISSION 08/07/24 Amendment Issue date Issue Issued to Issue date



SUITE 303 / 29-31 LEXTINGTON DRIVE NORWEST BUSINESS PARK, BELLA VISTA N.S.W. 2153

ALL CORRESPONDENCE TO: P.O. BOX 6080 BAULKHAM HILLS BC BAULKHAM HILLS NSW 2153

PH. 8814 6191 FAX 8814 5301 MOB. 0425 270 333 EMAIL andrew@camconsulting.com.au

Architect / Project Manager

LEVEL 05 DRAINAGE PLAN

1:100 @ A1

ALL DRAINAGE LINES SHALL BE UPVC (CLASS SH) STORMWATER DRAINAGE PIPE, UNO.

ALL DRAINAGE LINES SHALL BE LAID @ 1% FALL MIN, UNO. FIRST FLUSH RAINWATER DEVICES TO BE FITTED TO DRAINAGE LINES TO BUILDER'S DETAIL, TYPICAL MINIMUM EFFECTIVE EAVES GUTTER

SIZE = 6700 mm² MINIMUM EFFECTIVE EAVES GUTTER SLOPE = 1:500

THE FOLLOWING SYMBOLS & ABBREVIATIONS HAVE BEEN USED:

DP = \emptyset 100, UNO. FD = FLOOR OUTLET, REFER TO DETAIL

SIP = SURFACE INLET PIT (NO LINTEL)

100Ø = Ø100 CHARGED LINE

IP = Ø150 INSPECTION POINT RWH = RAIN WATER HEAD

RWO = RAIN WATER OUTLET (300 x 300)

FG = FLOOR GULLY Ø150

= RAINWATER SPREADER

= PROPOSED FINISHED SURFACE LEVEL

LEGEND UPVC PIPE TO PIT/OSD UPVC AERIAL PIPE TO OSD 65Ø UPVC AERIAL PIPE IN SLAB

ROOF DRAINAGE PLAN

1:100 @ A1

ALL DRAINAGE LINES SHALL BE UPVC (CLASS SH) STORMWATER DRAINAGE PIPE, UNO.

ALL DRAINAGE LINES SHALL BE LAID @ 1% FALL MIN, UNO. FIRST FLUSH RAINWATER DEVICES TO BE FITTED TO DRAINAGE LINES TO BUILDER'S DETAIL, TYPICAL MINIMUM EFFECTIVE EAVES GUTTER $SIZE = 6700 \text{ mm}^2$

MINIMUM EFFECTIVE EAVES GUTTER SLOPE = 1:500

THE FOLLOWING SYMBOLS & ABBREVIATIONS HAVE BEEN USED:

DP = \emptyset 100, UNO.

FD = FLOOR OUTLET, REFER TO DETAIL

SIP = SURFACE INLET PIT (NO LINTEL)

100Ø = Ø100 CHARGED LINE

IP = Ø150 INSPECTION POINT

RWH = RAIN WATER HEAD

RWO = RAIN WATER OUTLET (300 x 300)

FG = FLOOR GULLY Ø150 = RAINWATER SPREADER

= PROPOSED FINISHED SURFACE LEVEL

LEG	END
	UPVC PIPE TO PIT/OSD
	UPVC AERIAL PIPE TO OSD
	65Ø UPVC AERIAL PIPE IN SLAB

Project	Drawing Title		
PROPOSED DEVELOPMENT 67 PACIFIC PARADE, DEE WHY	FIFTH FLOOR & ROOLAYOUT	OF STORM	1WATER
Client ADJANI	Scales A1 - 1:100	Designed AP	Drafted A₽

Drawing No. C23181 — SW 105

