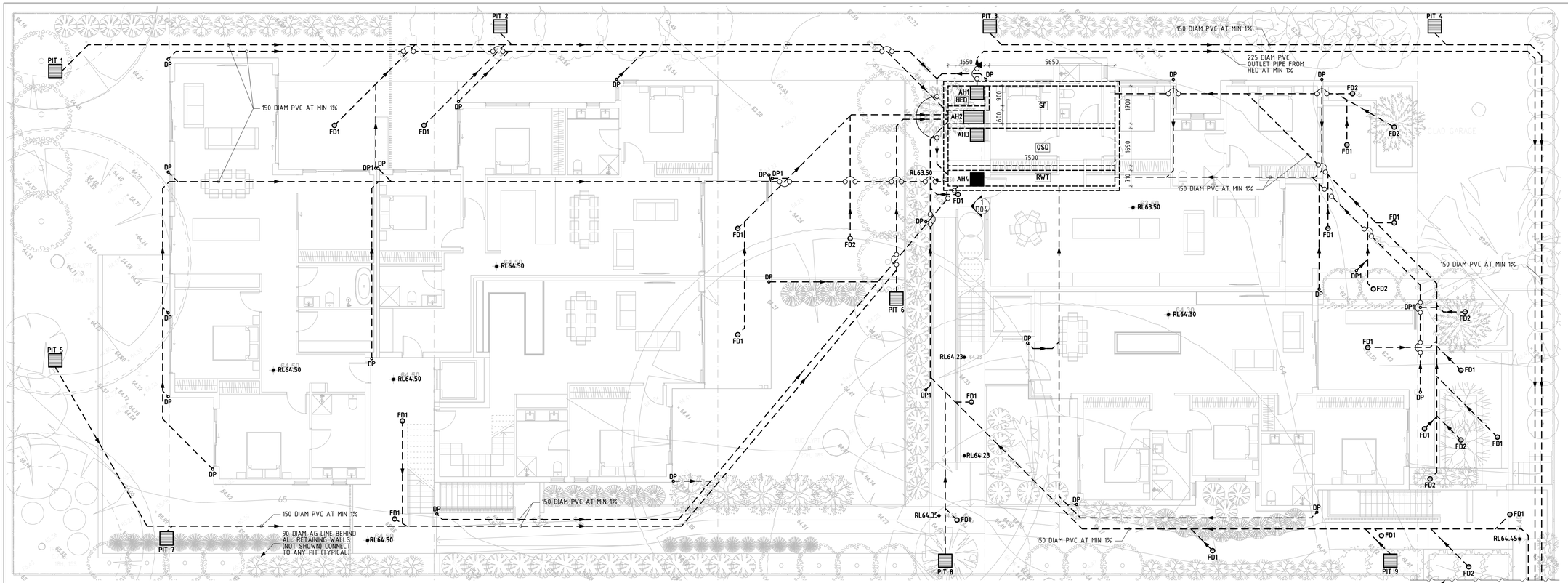
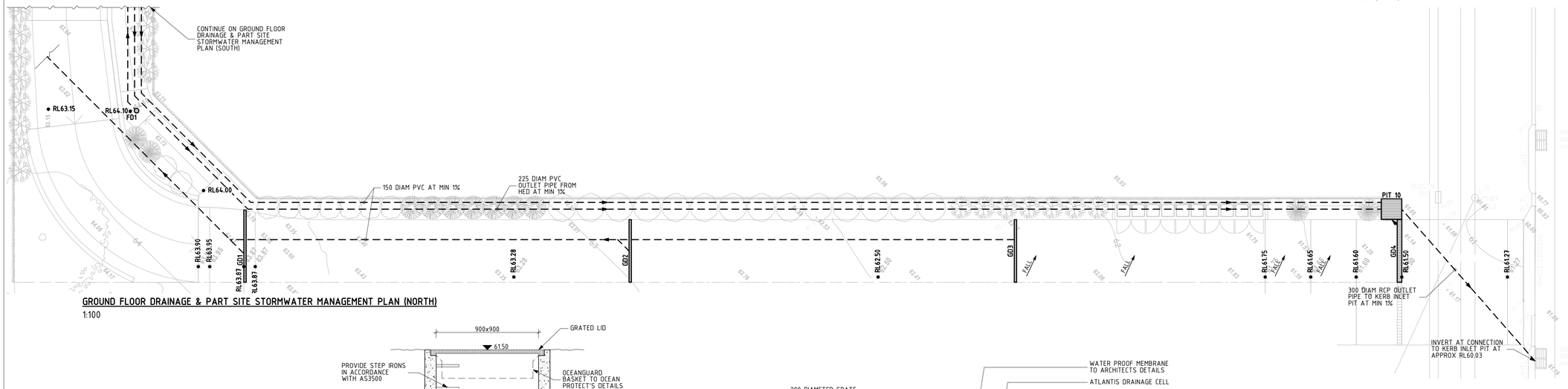
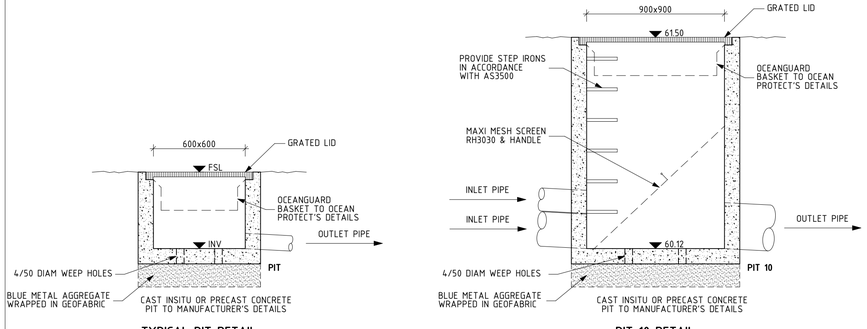


GROUND FLOOR DRAINAGE & PART SITE STORMWATER MANAGEMENT PLAN (SOUTH)
1:100

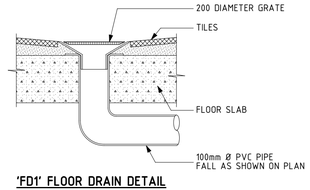


GROUND FLOOR DRAINAGE & PART SITE STORMWATER MANAGEMENT PLAN (NORTH)
1:100

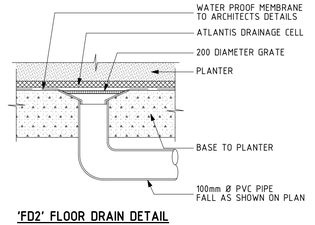


TYPICAL PIT DETAIL
1:20

PIT 10 DETAIL
1:20



'FD1' FLOOR DRAIN DETAIL
1:10



'FD2' FLOOR DRAIN DETAIL
1:10

STORMWATER NOTES:

1. ALL PIPES TO BE 100mm Ø UNLESS NOTED OTHERWISE.
2. ALL PIPES TO BE uPVC UNLESS NOTED OTHERWISE.
3. ALL PIPES TO BE LAID AT 1 % 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 PIPES SHOWN ON PLAN ARE SHOWN INDICATIVELY ONLY & MINIMUM CLEARANCES FROM THE EXTERNAL WALLS OF BUILDINGS, FOR THE EXCAVATION OF TRENCHES, ARE TO BE PROVIDED IN ACCORDANCE WITH AS3500.
6. ALL DOWN PIPES TO BE 90mm Ø UNLESS NOTED OTHERWISE.
7. DOWN PIPE LOCATIONS ARE INDICATIVE ONLY. LOCATIONS TO BE CONFIRMED WITH ARCHITECT PRIOR TO COMMENCEMENT OF WORK.
8. PROVIDE CLEANING EYES AT ALL DOWNPIPES U.N.O.
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. ALL LEVELS SHOWN ARE TO AHD.
12. ENSURE THAT ALL PITS AND STORMWATER PIPES ARE LOCATED CLEAR FROM TREE ROOT SYSTEMS.
13. EXCAVATION OF TRENCHES ADJACENT TO TREES TO BE CARRIED OUT USING HAND TOOLS ONLY.
14. ALL EXISTING EARTHENWARE PIPES TO BE UPGRADED TO uPVC.
15. ALL WORKS TO BE IN ACCORDANCE WITH AS 3500.
16. THE FOLLOWING ABBREVIATIONS DENOTE:
    FSL - FINISHED SURFACE LEVEL
    INV - INVERT
17. PROVIDE FALLS IN SURFACES TO ALL PITS, GRATED DRAINS & FLOOR DRAINS IN ACCORDANCE WITH AS3500 & ARCHITECT'S DETAILS.

RL63.15	DENOTES EXISTING LEVELS
● RL65.15	DENOTES PROPOSED LEVELS

ON-SITE DETENTION (OSD) CALCULATION SHEET

DEVELOPMENT TYPE:	SEPP HSPD	
DESIGN METHOD USED:	FULL COMPUTATION METHOD	
SITE AREA:	2029	m²
PRE DEVELOPMENT IMPERVIOUS AREA:	782	m²
	0	m² (DRAINS)
POST DEVELOPMENT IMPERVIOUS AREA:	1366	m²
INCREASE IN IMPERVIOUS AREA:	584	m²
IMPERVIOUS AREA DRAINING TO OSD:	1319	m²
PERVIOUS AREA DRAINING TO OSD:	476	m²
IMPERVIOUS AREA BYPASSING OSD:	55	m²
PERVIOUS AREA BYPASSING OSD:	187	m²
PRE DEVELOPMENT SITE DISCHARGE (5-YEAR):	36	l/s
POST DEVELOPMENT SITE DISCHARGE (5-YEAR):	36	l/s
PRE DEVELOPMENT SITE DISCHARGE (100-YEAR):	85	l/s
POST DEVELOPMENT SITE DISCHARGE (100-YEAR):	43	l/s
SITE STORAGE REQUIREMENT (SSR):	63	m³
RAINWATER RE-USE TANK REQUIRED FOR BASIX:	25000	l
RAINWATER RE-USE TANK PROVIDED:	25000	l
OSD VOLUME REQUIRED:	38	m³
TYPE OF CONTROL:	BELOW GROUND CONCRETE TANK ON BASEMENT	
DIMENSIONS OF OSD:	7.5m x 1.69m x 1.57m = 10.7m³ x 1.61m + 1.65m x 0.9m x 1.61m	
OSD VOLUME PROVIDED:	39.3	m³
ORIFICE SIZE:	108	mm Ø

NOTE:

- PROVIDE GUTTER GUARD TO ALL GUTTERS
- MOSQUITO PROOF MESH TO BE PROVIDED AT ALL END POINTS TO CHARGED LINES
- ALL PIPES UNDER SUSPENDED FLOOR TO BE STRAPPED TO UNDERSIDE OF FLOOR STRUCTURE AT MIN 1%

MARK	SIZE/TYPE	FSL	INV
AH1	600x600 GRATED ACCESS HATCH	63.50	-
AH2	900x600 GRATED ACCESS HATCH	63.50	-
AH3	600x600 GRATED ACCESS HATCH	63.50	-
AH4	600x600 PRESSURE SEALED ACCESS HATCH	63.50	-
PIT 1	600x600 PIT WITH GRATED LID WITH OCEANGUARD BASKET - REFER DETAIL	64.36	63.86
PIT 2	600x600 PIT WITH GRATED LID WITH OCEANGUARD BASKET - REFER DETAIL	63.75	63.45
PIT 3	600x600 PIT WITH GRATED LID WITH OCEANGUARD BASKET - REFER DETAIL	62.61	62.11
PIT 4	600x600 PIT WITH GRATED LID WITH OCEANGUARD BASKET - REFER DETAIL	61.75	61.25
PIT 5	600x600 PIT WITH GRATED LID WITH OCEANGUARD BASKET - REFER DETAIL	64.90	64.40
PIT 6	600x600 PIT WITH GRATED LID WITH OCEANGUARD BASKET - REFER DETAIL	64.28	63.78
PIT 7	600x600 PIT WITH GRATED LID WITH OCEANGUARD BASKET - REFER DETAIL	64.40	63.90
PIT 8	600x600 PIT WITH GRATED LID WITH OCEANGUARD BASKET - REFER DETAIL	64.25	63.75
PIT 9	600x600 PIT WITH GRATED LID WITH OCEANGUARD BASKET - REFER DETAIL	63.81	63.31
PIT 10	900x900 PIT WITH GRATED LID WITH OCEANGUARD BASKET - REFER DETAIL	61.50	60.12
GD1	100 WIDE x 100 DEEP GRATED DRAIN	63.87	63.77
GD2	100 WIDE x 100 DEEP GRATED DRAIN	63.03	62.93
GD3	100 WIDE x 100 DEEP GRATED DRAIN	62.23	62.13
GD4	200 WIDE x 100 DEEP GRATED DRAIN	61.50	61.40
FD1	200 DIAMETER FLOOR DRAIN	-	-
FD2	200 DIAMETER FLOOR DRAIN (PLANTER)	-	-
DP	100 DIAMETER PVC DOWNPIPE	-	-
DP1	100 DIAMETER PVC DOWNPIPE TO COLLECT WATER FROM BALCONY & TERRACE ONLY	-	-
RWT	25000 LITRE BELOW GROUND RAINWATER RE-USE TANK (7500Lx710Wx2350D + 7500Lx3390Wx440D). TANK TO COLLECT RAINWATER RUNOFF FROM ALL ROOF AREAS AS SHOWN & BE CONNECTED FOR TOILET FLUSHING, LAUNDRIES & GARDEN IRRIGATION. TANK TO BE FITTED WITH FIRST FLUSH DEVICE & WATER FILTRATION DEVICES & INSTALLED IN ACCORDANCE WITH AS3500, BASIX & SYDNEY WATER REQUIREMENTS. ALL CONNECTIONS INTO & OUT OF RWT TO BE FULLY SEALED.	-	-
OSD	MIN 19800 LITRE BELOW GROUND ON-SITE DETENTION TANK (7500Lx1690Wx1570D (AVERAGE))	-	-
HED	MIN 2300 LITRE HIGH EARLY DISCHARGE CHAMBER (1650Lx900Wx1610D)	-	-
SF	MIN 17200 LITRE STORMFILTER CHAMBER (MIN 10.2m³x1610D) TO OCEAN PROTECT'S SPECIFICATIONS	-	-

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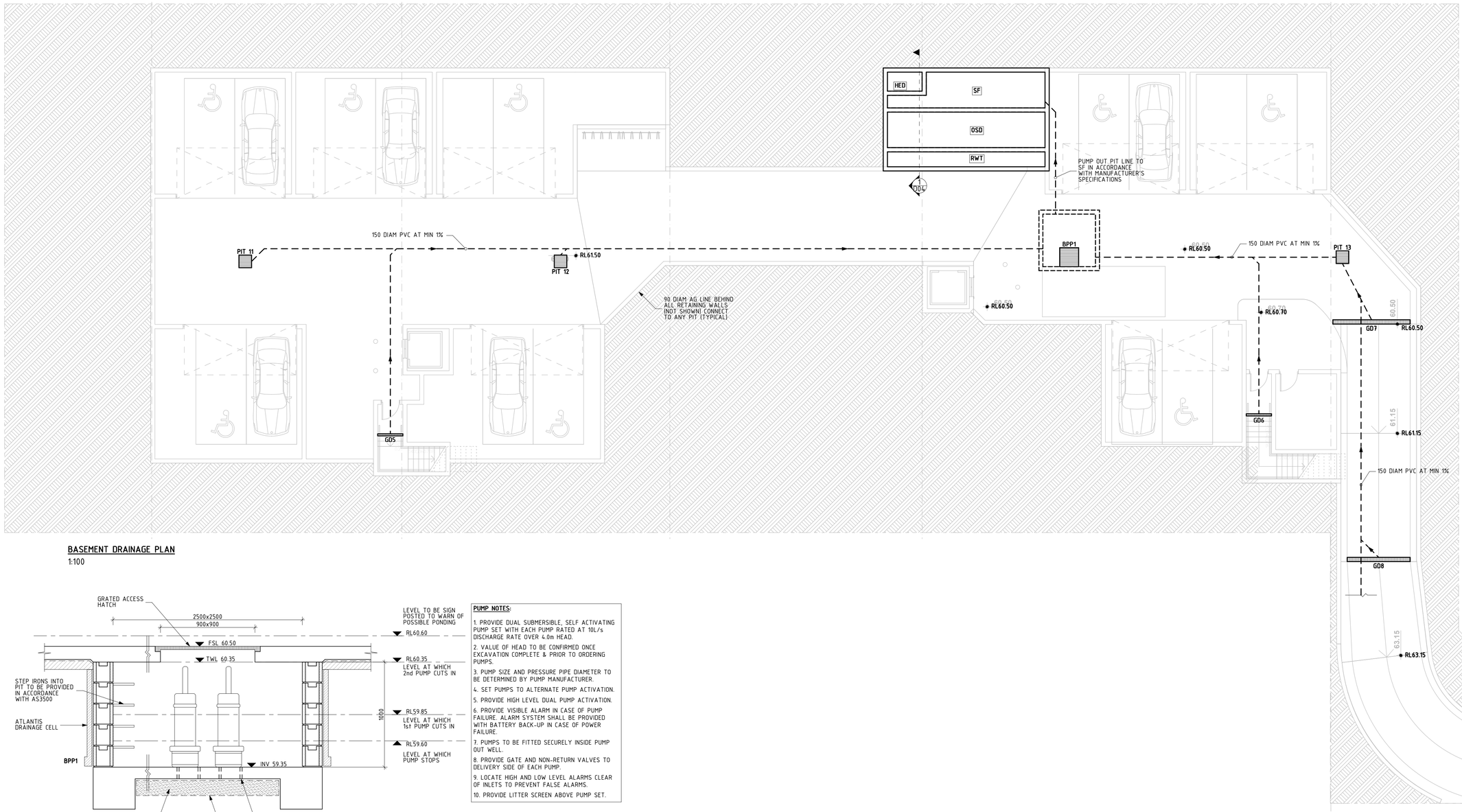
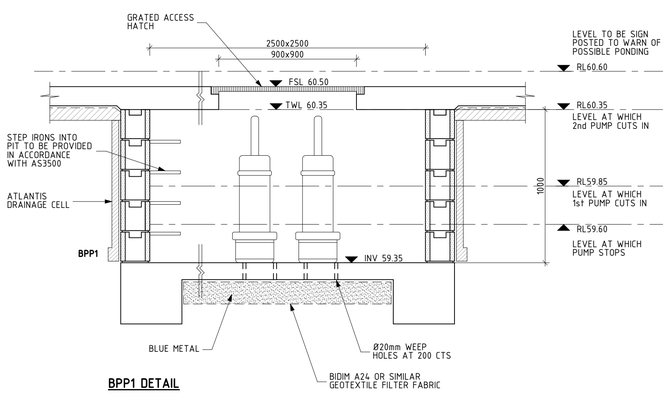
B	25.06.21	AMENDED AS PER COUNCIL'S REQUEST	DI
2	23.06.21	ISSUE FOR REVIEW ONLY	DI
A	11.12.20	ISSUE FOR DA SUBMISSION ONLY	DI
1	08.12.20	ISSUE FOR REVIEW ONLY	DI

STATUS	ISSUE FOR DA SUBMISSION ONLY
DATE	DEC 2020
ARCHITECT	GARTNER TROVATO ARCHITECTS
PROJECT	45 LANTANA AVENUE, WHEELER HEIGHTS
CLIENT	ROB MASON
DRAWING	GROUND FLOOR DRAINAGE & SITE STORMWATER MANAGEMENT PLAN
DESIGNED	DM
SCALE	REFER DWG
DRAWN	DM
PAGE SIZE	A1
CHECKED	DI
REVISION	B
PROJECT NUMBER	201110
DRAWING NUMBER	D01



BASEMENT DRAINAGE PLAN
1:100



BPP1 DETAIL
1:20

PUMP NOTES:

1. PROVIDE DUAL SUBMERSIBLE, SELF ACTIVATING PUMP SET WITH EACH PUMP RATED AT 10L/s DISCHARGE RATE OVER 4.0m HEAD.
2. VALUE OF HEAD TO BE CONFIRMED ONCE EXCAVATION COMPLETE & PRIOR TO ORDERING PUMPS.
3. PUMP SIZE AND PRESSURE PIPE DIAMETER TO BE DETERMINED BY PUMP MANUFACTURER.
4. SET PUMPS TO ALTERNATE PUMP ACTIVATION.
5. PROVIDE HIGH LEVEL DUAL PUMP ACTIVATION.
6. PROVIDE VISIBLE ALARM IN CASE OF PUMP FAILURE. ALARM SYSTEM SHALL BE PROVIDED WITH BATTERY BACK-UP IN CASE OF POWER FAILURE.
7. PUMPS TO BE FITTED SECURELY INSIDE PUMP OUT WELL.
8. PROVIDE GATE AND NON-RETURN VALVES TO DELIVERY SIDE OF EACH PUMP.
9. LOCATE HIGH AND LOW LEVEL ALARMS CLEAR OF INLETS TO PREVENT FALSE ALARMS.
10. PROVIDE LITTER SCREEN ABOVE PUMP SET.

MARK	SIZE/TYPE	FSL	INV
PIT 11	600x600 PIT WITH GRATED LID	61.50	61.00
PIT 12	600x600 PIT WITH GRATED LID	61.50	61.00
PIT 13	600x600 PIT WITH GRATED LID WITH OCEANGUARD BASKET - REFER DETAIL	60.50	60.00
BPP1	MIN 7m³ BASEMENT PUMP OUT PIT - REFER DETAIL	60.50	59.35
GD5	100 WIDE x 100 DEEP GRATED DRAIN	61.50	61.40
GD6	100 WIDE x 100 DEEP GRATED DRAIN	60.70	60.60
GD7	200 WIDE x 100 DEEP GRATED DRAIN	60.50	60.40
GD8	200 WIDE x 100 DEEP GRATED DRAIN	COS	COS
RWT, OSD, HED, SF	ON-SITE DETENTION & RAINWATER RE-USE TANK REFER TO SCHEDULE ON D01	-	-

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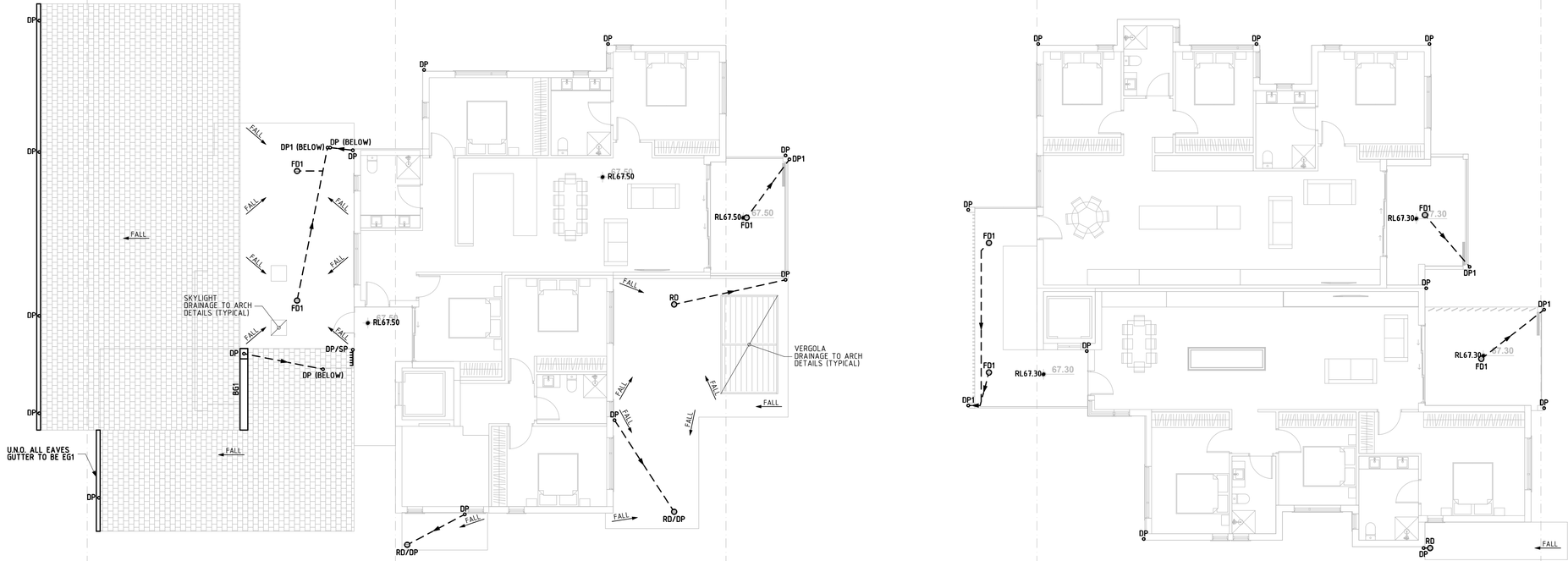
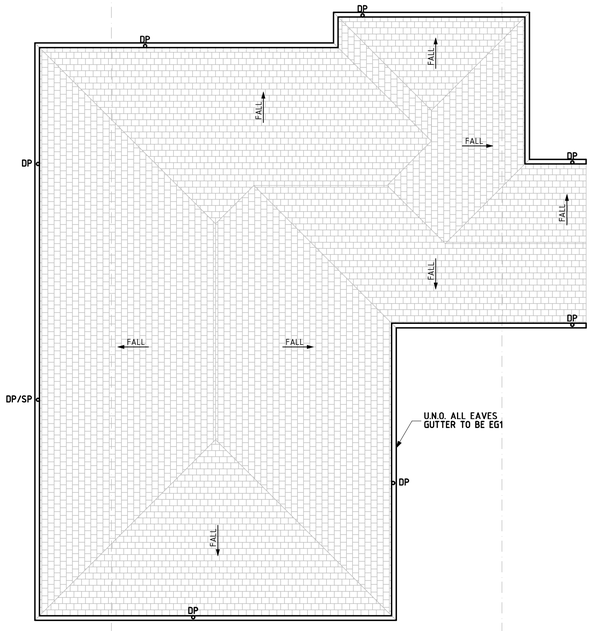
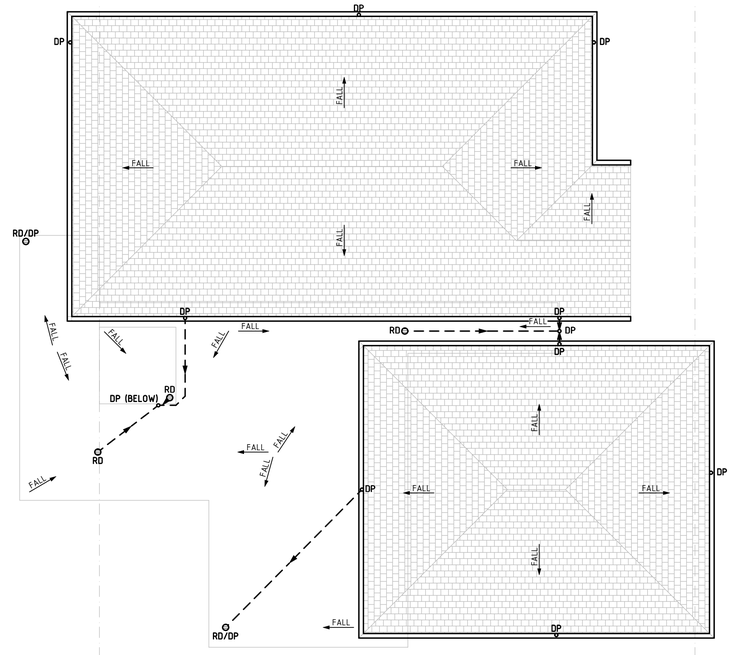
ARCHITECT: GARTNER TROVATO ARCHITECTS
CLIENT: ROB MASON

STATUS: ISSUE FOR DA SUBMISSION ONLY
DATE: DEC 2020
PROJECT: 45 LANTANA AVENUE, WHEELER HEIGHTS
DRAWING: BASEMENT DRAINAGE PLAN
DESIGNED: DM
SCALE: REFER DWG
DRAWN: DM
PAGE SIZE: A1
CHECKED: DI
REVISION: B
PROJECT NUMBER: 201110
DRAWING NUMBER: D02

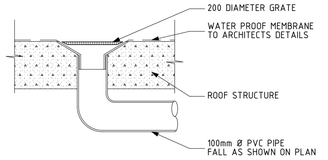


FIRST FLOOR DRAINAGE PLAN
1:100





ROOF DRAINAGE PLAN
1:100



'RD' ROOF DRAIN DETAIL
1:10

MARK	SIZE/TYPE	FSL	INV
FD1	200 DIAMETER FLOOR DRAIN	-	-
DP	100 DIAMETER PVC DOWNPIPE	-	-
DP1	100 DIAMETER PVC DOWNPIPE TO COLLECT WATER FROM BALCONY & TERRACE ONLY	-	-
SP	SPREADER ONTO LOWER ROOF	-	-
EG1	QUAD 150 EAVES GUTTER	-	-
BG1	300 WIDE x MIN 125 DEEP BOX GUTTER WITH 400 LONG x 300 WIDE x 70 DEEP SUMP AT DOWNPIPE & 240 WIDE x 70 DEEP OVERFLOW SLOT THROUGH END OF BOX GUTTER	-	-
RD	200 DIAMETER ROOF DRAIN	-	-

NOTE:
- PROVIDE GUTTER GUARD TO ALL GUTTERS
- MOSQUITO PROOF MESH TO BE PROVIDED AT ALL END POINTS TO CHARGED LINES
- ALL PIPES UNDER SUSPENDED FLOOR TO BE STRAPPED TO UNDERSIDE OF FLOOR STRUCTURE AT MIN 1%

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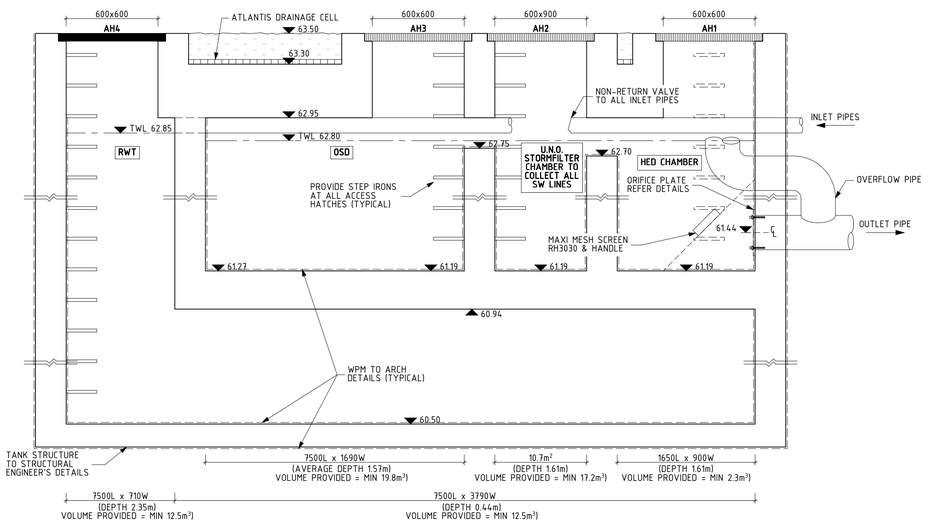
CLIENT: ROB MASON

STATUS: ISSUE FOR DA SUBMISSION ONLY
DATE: DEC 2020
PROJECT: 45 LANTANA AVENUE, WHEELER HEIGHTS
DESIGNED: DM
SCALE: REFER DWG
DRAWN: DM
PAGE SIZE: A1
CHECKED: DI
REVISION: B
PROJECT NUMBER: 201110
DRAWING: FIRST FLOOR & ROOF DRAINAGE PLANS
DRAWING NUMBER: D03



SECTION 1
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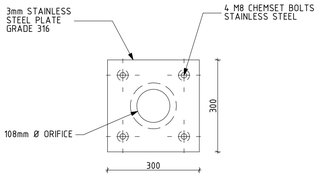
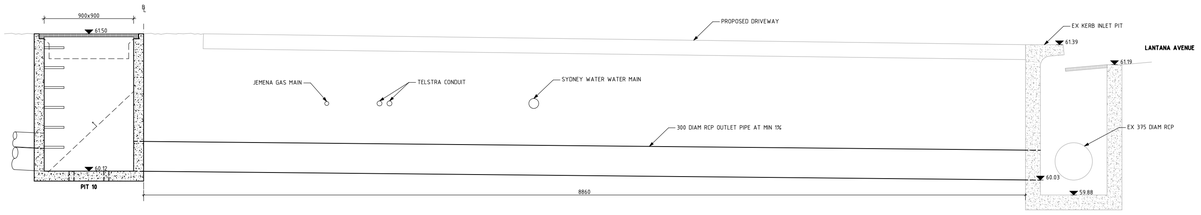
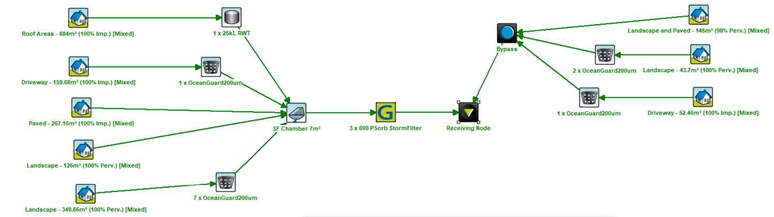


ORIFICE PLATE DETAIL
1:10



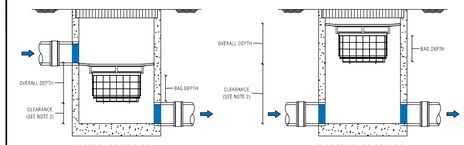
OUTLET PIPE IN LANTANA AVENUE LONG SECTION
1:20

NOTE:
- ALL EX UNDERGROUND SERVICES SHOWN ARE INDICATIVE ONLY. REFER TO DRAWINGS BY DBYD JOB NO. 21864139



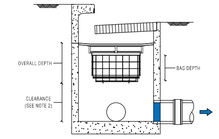
Treatment Train Effectiveness - Receiving Node

	Sources	Residual Load	% Reduction
Flow (ML/yr)	1.86	1.2	35.4
Total Suspended Solids (kg/yr)	181	26.9	85.2
Total Phosphorus (kg/yr)	0.438	0.112	74.5
Total Nitrogen (kg/yr)	3.94	1.39	64.7
Gross Pollutants (kg/yr)	40.2	0.0467	99.9

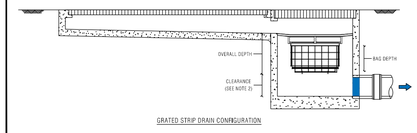


PIPE FLOW CONFIGURATION

SURFACE FLOW CONFIGURATION



SURFACE FLOW CONFIGURATION



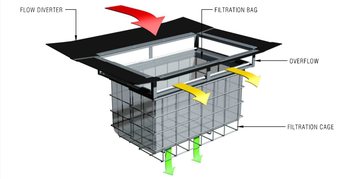
GRATED STRIP DRAIN CONFIGURATION

LAST MODIFIED: 15-10-19

PLAN ID	MAXIMUM PIT PLAN DIMENSIONS
S	450mm x 450mm
M	600mm x 600mm
L	900mm x 900mm
XL	1200mm x 1200mm

DEPTH ID	BAG DEPTH	OVERALL DEPTH
1	170	270
2	300	450
3	600	700

PLAN ID	DEPTH ID 1	2	3
S	■		
M	■	■	
L	■	■	■
XL	■	■	■



GENERAL NOTES

1. THE MINIMUM CLEARANCE DEPENDS ON THE CONFIGURATION (SEE NOTE 2) AND THE LOCAL COUNCIL REQUIREMENTS.
2. CLEARANCE FOR ANY PIT WITHOUT AN INLET PIPE (ONLY USED FOR SURFACE FLOW) CAN BE AS LOW AS 50mm, FOR OTHER PITS, THE RECOMMENDED CLEARANCE SHOULD BE GREATER OR EQUAL TO THE PIPE OBVERT SO AS NOT TO INHIBIT HYDRAULIC CAPACITY.
3. OCEAN PROTECT PROVIDES TWO FILTRATION BAG TYPES:- 200 MICRON BAGS FOR HIGHER WATER QUALITY FILTERING AND A COARSE BAG FOR TARGETING GROSS POLLUTANTS.
4. DRAWINGS NOT TO SCALE.

OCEAN PROTECT
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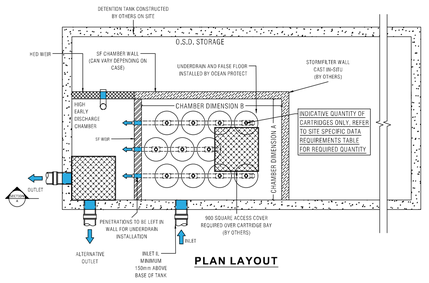
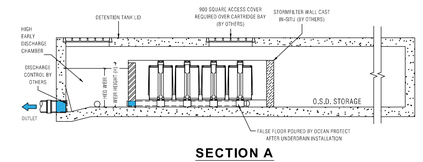


PLAN LAYOUT



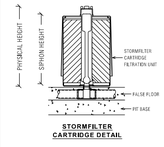
SECTION A

LAST MODIFIED: 07-03-19

STORMFILTER DESIGN TABLE

- STORMFILTER TREATMENT CAPACITY VARIES BY NUMBER OF FILTER CARTRIDGES INSTALLED.
- THE STANDARD CONFIGURATION IS SHOWN. ACTUAL CONFIGURATION OF THE SPECIFIED STRUCTURE(S) PER CERTIFYING ENGINEER WILL BE SHOWN ON SUBMITTAL DRAWING(S).
- FILTER CARTRIDGES SHALL BE MEDIA-FILLED, PASSIVE, SIPHON ACTUATED, RADIAL FLOW, AND SELF-CLEANING. RADIAL MEDIA DEPTH SHALL BE 178mm.

CARTRIDGE NAME / SIPHON HEIGHT (mm)	690	460	310
CARTRIDGE PHYSICAL HEIGHT (mm)	840	600	600
TYPICAL WEIR HEIGHT (H) (mm)	920	690	540
CARTRIDGE FLOW RATE FOR ZPG MEDIA (L/s)	1.6	1.1	0.7
CARTRIDGE FLOW RATE FOR PSORB MEDIA (L/s)	0.9	0.46	0.39



STORMFILTER CARTRIDGE DETAIL

SITE SPECIFIC DATA REQUIREMENTS

STRUCTURE ID	[ ]
NUMBER OF CARTRIDGES REQ'D	[ ]
SIPHON HEIGHT (310 / 460 / 690)	[ ]
MEDIA TYPE (ZPG / PSORB)	[ ]
WATER QUALITY FLOW RATE (L/S)	[ ]
DIMENSION A	[ ]
DIMENSION B	[ ]

TOTAL CARTRIDGE BAY AREA (A x B) TO MATCH AREA REQUIRED BY MUSIC MODELLING OR COUNCIL SPECIFIC REQUIREMENTS

GENERAL NOTES

1. INLET AND OUTLET PIPES TO BE IN ACCORDANCE WITH APPROVED PLANS.
2. A HIGH FLOW BYPASS ARRANGEMENT OR DISSIPATION STRUCTURE MAY BE REQUIRED TO MINIMISE RE-SUSPENSION OF SOLIDS OR ANY SIGNIFICANT INERTIAL FORCES ON THE CARTRIDGES.
3. ALL WATER QUALITY TREATMENT DEVICES REQUIRE PERIODIC MAINTENANCE. REFER TO OPERATION AND MAINTENANCE MANUAL FOR GUIDELINES AND ACCESS REQUIREMENTS.
4. SITE SPECIFIC PRODUCTION DRAWING WILL BE PROVIDED ON PLACEMENT OF ORDER.
5. THE INVERT LEVEL OF THE INLET PIPE MUST BE GREATER THAN THE RL OF THE FALSE FLOOR WITHIN THE CARTRIDGE CHAMBER.
6. CONCRETE STRUCTURE AND ACCESS COVERS DESIGNED AND PROVIDED BY OTHERS. ACCESS COVERS TO BE A MINIMUM 900 X 900 ABOVE CARTRIDGES. OH&S REGARDING ACCESS COVERS AND TANK ACCESS TO BE ASSESSED BY OTHERS ON SITE.
7. THE STRUCTURE THICKNESSES SHOWN ARE FOR REPRESENTATIONAL PURPOSES.
8. DRAWINGS NOT TO SCALE.

INSTALLATION NOTES

1. UNDERDRAIN AND FALSE FLOOR INSTALLED BY OCEAN PROTECT.

OCEAN PROTECT
STORMFILTER SYSTEM
HED GENERAL ARRANGEMENT
SPECIFICATION DRAWING

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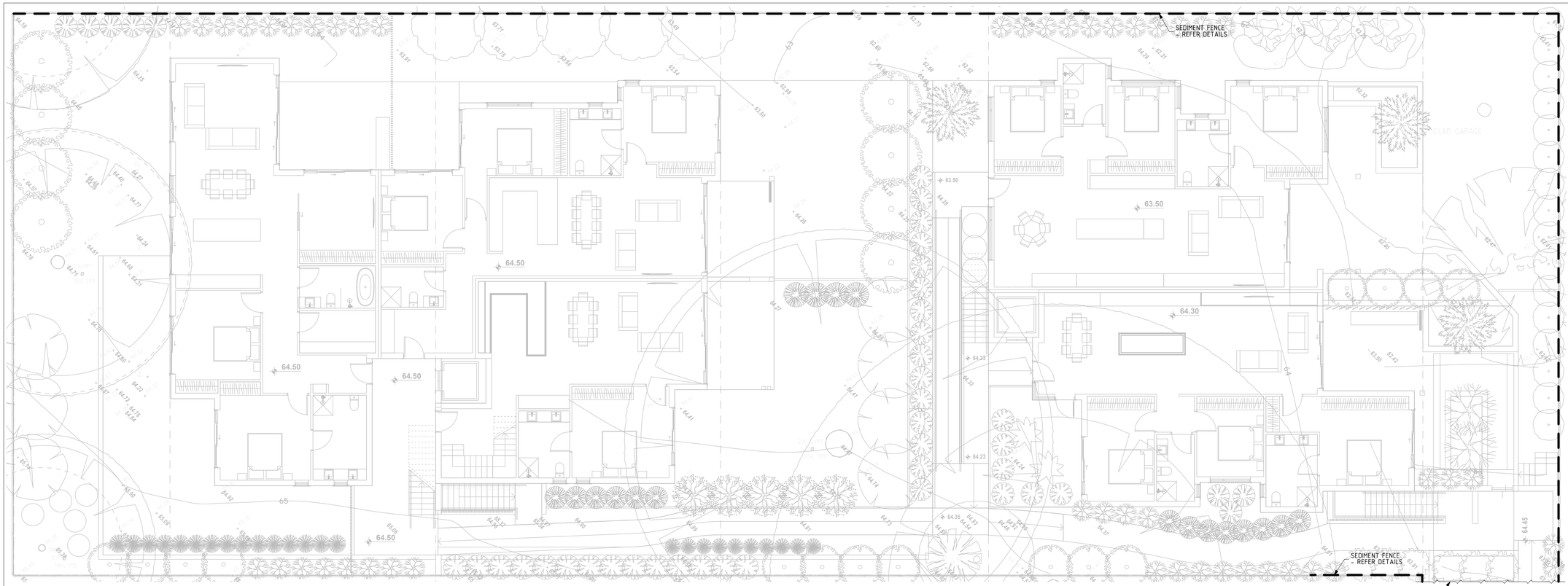
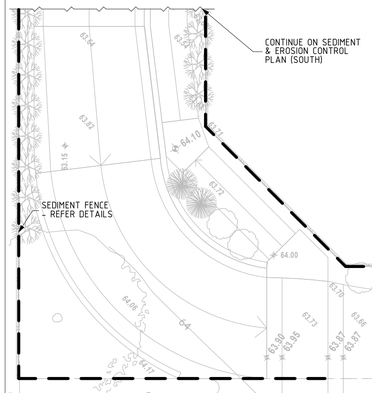
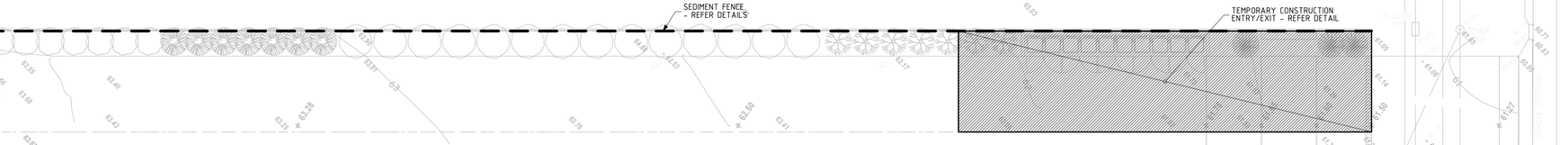
REV.	DATE	REVISION DESCRIPTION	BY
B	25.06.21	AMENDED AS PER COUNCIL'S REQUEST	DI
1	23.06.21	ISSUE FOR REVIEW ONLY	DI
A	11.12.20	ISSUE FOR DA SUBMISSION ONLY	DI

ARCHITECT: GARTNER TROVATO ARCHITECTS
CLIENT: ROB MASON
STATUS: ISSUE FOR DA SUBMISSION ONLY
PROJECT: 45 LANTANA AVENUE, WHEELER HEIGHTS
DRAWING: OSD & RWT & OCEAN PROTECT DETAILS
DATE: DEC 2020
PROJECT NUMBER: 201110
DESIGNED: DM
DRAWN: DM
CHECKED: DI
SCALE: REFER DWG
PAGE SIZE: A1
REVISION: B
DRAWING NUMBER: D04



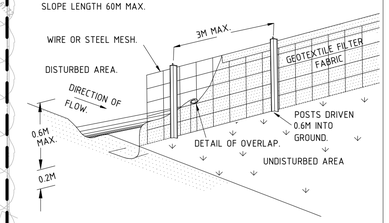
PART SEDIMENT & EROSION CONTROL PLAN (SOUTH)
1:100





PART SEDIMENT & EROSION CONTROL PLAN (NORTH)
1:100

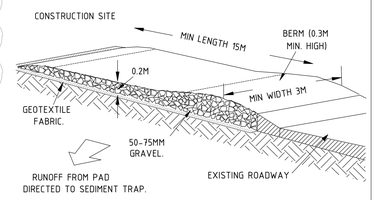
DRAINAGE AREA 0.6HA. MAX. SLOPE GRADIENT 1:2 MAX.
SLOPE LENGTH 60M MAX.



SEDIMENT FENCE

CONSTRUCTION NOTES:

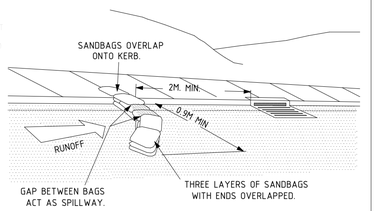
1. CONSTRUCT SEDIMENT FENCE AS CLOSE AS POSSIBLE TO PARALLEL TO THE CONTOURS OF THE SITE.
2. DRIVE 1.5 METRE LONG STAR PICKETS INTO GROUND, 3 METRES APART.
3. DIG A 150mm DEEP TRENCH ALONG THE UPSLOPE LINE OF THE FENCE FOR THE BOTTOM OF THE FABRIC TO BE ENTRENCHED.
4. BACKFILL TRENCH OVER BASE OF FABRIC.
5. FIX SELF-SUPPORTING GEOTEXTILE TO UPSLOPE SIDE OF POSTS WITH WIRE TIES or AS RECOMMENDED BY GEOTEXTILE MANUFACTURER.
6. JOIN SECTIONS OF FABRIC AT A SUPPORT POST WITH A 150mm OVERLAP.



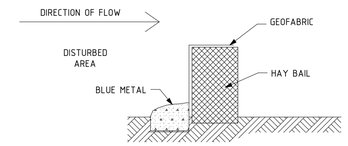
TYPICAL TEMPORARY CONSTRUCTION ENTRY/EXIT DETAIL

CONSTRUCTION NOTES:

1. STRIP TOPSOIL AND LEVEL SITE.
2. COMPACT SUBGRADE.
3. COVER AREA WITH NEEDLE-PUNCHED GEOTEXTILE.
4. CONSTRUCT 200mm THICK PAD OVER GEOTEXTILE USING ROADBASE or 30mm AGGREGATE. MINIMUM LENGTH 15 METRES OR TO BUILDING ALIGNMENT. MINIMUM WIDTH 3 METRES.
5. CONSTRUCT HUMP IMMEDIATELY WITHIN BOUNDARY TO DIVERT WATER TO A SEDIMENT FENCE or OTHER SEDIMENT TRAP.



SANDBAG KERB INLET SEDIMENT TRAP



REMOVABLE HAY BALE DETAIL

N.T.S.

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DRAWING NUMBER: D05