STORMWATER MANAGEMENT PLANS PROPOSED DWELLING Lot 34 PRINCE ALFRED PARADE, NEWPORT

DRAINAGE NOTES

PIPE SIZE:

THE MINIMUM PIPE SIZE SHALL BE:

- 90mm DIA WHERE THE LINE ONLY RECEIVES ROOFWATER RUNOFF; OR
 100mm DIA WHERE THE LINE RECEIVES RUNOFF FROM PAVED OR
- 100mm DIA WHERE THE LINE RECEIVES
 UNPAVED AREAS ON THE PROPERTY

THE MINIMUM PIPE VELOCITY SHOULD BE 0.6 m/s AND A MAXIMUM PIPE VELOCITY OF 6.0 m/s DURING THE DESIGN STORM.

PIPE GRADE:

THE MINIMUM PIPE GRADE SHALL BE:

- 1.0% FOR PIPES LESS THAN 225mm DIA
- 0.5% FOR ALL LARGER PIPES

PIPES WITH A GRADIENT GREATER THAN 20% WILL REQUIRE ANCHOR BLOCKS AT THE TOP AND BOTTOM OF THE INCLINED SECTION; AND AT INTERVALS NOT EXCEEDING 3.0m

ANCHOR BLOCKS ARE DESIGNED ACCORDING TO CLAUSE 7.9 OF AS3500.3-2021

DEPTH OF COVER FOR PVC PIPES:

MINIMUM PIPE COVER SHALL BE AS FOLLOWS

LOCATION	MINIMUM COVER
NOT SUBJECT TO VEHICLE LOADING	100mm SINGLE RESIDENTIAL 300mm ALL OTHER DEVELOPMENTS
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 AS3725-2007 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 THEN 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 TRAFFIC.

CONNECTIONS TO STORMWATER DRAINS UNDER BUILDINGS:

SHALL BE CARRIED OUT IN ACCORDANCE WITH SECTION 6.2.8 OF AS3500.3-2021

ABOVE GROUND PIPEWORK:

SHALL BE CARRIED OUT IN ACCORDANCE WITH SECTION 6 OF AS3500.3-2021

PIT SIZES AND DESIGN:

DEPTH (mm)	MINIMUM PIT SIZE (mm)
UP TO 450mm	450 x 450
450mm TO to 600mm	600 x 600
600mm TO 900mm	600 x 900
900mm TO 1500mm	900 x 900 (WITH STEP IRONS)
1500mm TO 2000mm	1200 x 1200 (WITH STEP IRONS)

ALL PIPES SHOULD BE CUT FLUSH WITH THE WALL OF THE PIT.

PITS GREATER THAN 600mm DEEP SHALL HAVE A MINIMUM ACCESS OPENING OF 600 x 600mm

THE GRATED COVERS OF PITS LARGER THAN 600 x 600mm ARE TO BE HINGED TO PREVENT THE GRATE FROM FALLING INTO THE PIT.

THE BASE OF THE DRAINAGE PITS SHOULD BE AT THE SAME LEVEL AS THE INVERT OF THE OUTLET PIPE. RAINWATER SHOULD NOT BE PERMITTED TO POND WITHIN THE STORMWATER SYSTEM

- TRENCH DRAINS: CONTINUOUS TRENCH DRAINS ARE TO BE OF WIDTH NOT LESS THAN 150mm AND DEPTH NOT LESS THAN 100mm. THE BARS OF THE GRATING ARE TO BE PARALLEL TO THE DIRECTION OF SURFACE FLOW
- STEP IRONS: PITS BETWEEN 1.2m AND 6m ARE 1

PITS BETWEEN 1.2m AND 6m ARE TO HAVE STEP IRONS IN ACCORDANCE WITH AS1657. FOR PITS GREATER THAN 6m OTHER MEANS OF ACCESS MUST BE PROVIDED.

- IN-SITU PITS: IN-SITU PITS ARE TO BE CONSTRUCTED ON A CONCRETE BED OF AT LEAST 150mm THICK. THE WALLS ARE TO BE DESIGNED TO MEET THE MINIMUM REQUIREMENTS OF CLAUSE 7.5.5.1 OF AS3500.3-2021. PITS DEEPER THAN 1.8m SHALL BE CONSTRUCTED WITH REINFORCED CONCRETE.
- GRATES: GRATES ARE TO BE GALVANISED STEEL GRID TYPE. GRATES ARE TO BE OF HEAVY-DUTY TYPE IN AREAS WHERE THEY MAY BE SUBJECT TO VEHICLE LOADING.

	CLASS	USE
А	EXTRA LIGHT DUTY	AREAS INCLUDING FOOTWAYS, ACCESSIBLE ONLY TO PEDESTRIANS, PEDAL CYCLISTS AND CLOSED TO OTHER TRAFFIC
В	LIGHT DUTY	AREAS INCLUDING FOOTWAYS AND LIGHT TRACTOR PATHS ACCESSIBLE TO VEHICLES (EXCLUDING COMMERCIAL VEHICLES) OR LIVESTOCK
С	MEDIUM DUTY	MALLS AND AREAS OPEN TO SLOW-MOVING COMMERCIAL TRAFFIC
D	HEAVY DUTY	CARRIAGEWAYS OF ROADS AND AREAS OPEN TO COMMERCIAL VEHICLES
E	EXTRA HEAVY DUTY	GENERAL DOCKS AND AIRCRAFT PAVEMENTS
F	EXTRA HEAVY DUTY	DOCK AND AIRCRAFT PAVEMENTS SUBJECT TO HIGH WHEEL LOADS
G	EXTRA HEAVY DUTY	DOCKS AND AIRCRAFT PAVEMENTS SUBJECT TO VERY HIGH WHEEL LOADS

GENERAL NOTES

- 1. FINAL LOCATION OF NEW DOWNPIPES TO BE DETERMINED BY BUILDER/ARCHITECT AT TIME OF CONSTRUCTION.
- 2. THESE DRAWINGS TO BE READ IN CONJUNCTION WITH ARCHITECTS AND OTHER CONSULTANTS DRAWINGS. ANY DISCREPANCIES TO BE REFERRED TO THE ENGINEER BEFORE PROCEEDING WITH WORK.
- ALL MATERIALS AND WORKMANSHIP TO BE IN ACCORDANCE WITH AS/NZS 3500.3:2021 STORMWATER DRAINAGE, BCA AND LOCAL COUNCIL POLICY/CONSENT/REQUIREMENTS.
- ALL DIMENSIONS AND LEVELS TO BE VERIFIED BY BUILDER ON-SITE PRIOR TO COMMENCEMENT OF WORKS. THESE DRAWINGS ARE NOT TO BE SCALED FOR DIMENSIONS NOR TO BE USED FOR SETOUT PURPOSES.
- ALL SURVEY INFORMATION AND PROPOSED BUILDING AND FINISHED SURFACE LEVELS SHOWN IN THESE DRAWINGS ARE BASED ON LEVELS OBTAINED FROM DRAWINGS BY OTHERS.
- THESE DRAWINGS DEPICT THE DESIGN OF SURFACE STORMWATER RUNOFF DRAINAGE SYSTEMS ONLY AND DO NOT DEPICT ROOF DRAINAGE OR SUBSOIL DRAINAGE SYSTEMS UNLESS NOTED OTHERWISE. THE DESIGN OF ROOF AND SUBSOIL DRAINAGE SYSTEMS IS THE RESPONSIBILITY OF OTHERS.
- 7. ALL STORMWATER DRAINAGE PIPES ARE TO BE uPVC AT MINIMUM 1% GRADE UNLESS NOTED OTHERWISE.
- IT IS THE CONTRACTORS RESPONSIBILITY TO LOCATE AND LEVEL ALL EXISTING SERVICES OR OTHER STRUCTURES WHICH MAY AFFECT/BE AFFECTED BY THIS DESIGN PRIOR TO COMMENCEMENT OF WORKS.
- 9. ALL PITS WITHIN DRIVEWAYS TO BE 150mm THICK CONCRETE OR EQUAL.
- 10. THIS PLAN IS THE PROPERTY OF QUANTUM ENGINEERS AND MAY NOT BE USED OR REPRODUCED WITHOUT WRITTEN PERMISSION FROM QUANTUM ENGINEERS.

LE		SURFACE INLET PIT
		SURFACE INLET PIT (WITH ENVIROPOD 200 MICRON)
		ACCESS GRATE (WITH ENVIROPOD 200 MICRON)
		ACCESS GRATE (TO HED PIT)
	450 X 450	450 SQUARE INTERVAL
	SL 75.50	GRATE LEVEL = 75.50
	IL 75.20	INVERT LEVEL = RL 75.20
	DP 90	PROPOSED DOWNPIPE 90mm DIA. PVC

	OLIANTIIM	APPROVED BY	CLIENT	DRAWING TITLE	REVISION	DRAWN	DE
	FNGINFFRS		SLOPESON PTY LTD	DETAILS, NOTES & LEGEND	A	DB	PREL
	LITOITLEITO	NER (1052208) RPEO (25464)			В	DB	ISS
	Suite TA, Level 2, 2 Rowe Street, EASTWOOD NSW 2122	APEC Engineer IntPE(Aus)	ARCHITECT	PROPOSED DWELLING			
	02 9807 7800	- Ali			l		
ad	dmin@quantumengineers.com.au	- Allaha	MARKER ARCHITECTURE	LUI 2, 34 FRINCE ALFRED FARADE,			
	quantumengineers.com.au			NEWPORT			
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NOT FOR CONSTRUCTION

PLAN NOTES

- 1. ROOF DRAINAGE NOTE: AS 3500 ROOF DRAINAGE REQUIRES EAVES GUTTERS TO BE SIZED FOR 20 YEAR 5 MIN. STORM = 205mm/hr. FOR EAVES GUTTERS, AS 3500.3:2021 THEN HAS THE FOLLOWING REQUIREMENTS:
- FOR TYPICAL STANDARD QUAD GUTTER WITH Ae = 6000mm² AND GUTTER SLOPE 1:500 AND STEEPER, THIS REQUIRES ONE DOWNPIPE PER 30m² ROOF AREA.
 DOWNPIPES TO BE MINIMUM 90mm DIA. OR 100 x 50mm
- FOR GUTTERS SLOPE 1:500 AND STEPPER. 1.3. OVERELOW METHOD TO FIGURE F.1 OF AS 3500.3:2021
- 1.3. OVERFLOW METHOD TO FIGURE F.1 OF AS 3500.3:2021 IT IS THE RESPONSIBILITY OF THE PLUMBER AND / OR BUILDER TO COMPLY WITH THIS. THIS DRAWING SHOWS PRELIMINARY LOCATIONS / NUMBERS OF DOWNPIPES ONLY WHICH ARE TO BE VERIFIED BY BUILDER / PLUMBER
- 2. TREE PRESERVATION: IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO OBTAIN ANY PRIOR APPROVAL REQUIRED FROM COUNCIL WITH RESPECT TO POTENTIAL IMPACT ON TREES FOR ANY WORKS SHOWN ON THIS DRAWING PRIOR TO THE COMMENCEMENT OF THOSE WORKS
- ALL ROOF GUTTERS TO HAVE OVERFLOW PROVISION IN ACCORDANCE WITH AS 3500.3:2021 AND SECTIONS 3.5, 3.7.7 AND APPENDIX G OF AS 3500.3:2021
- 4. THIS DRAWING IS NOT TO BE USED FOR SET-OUT PURPOSES - REFER TO ARCHITECTURAL DRAWINGS
- 5. LOCATION OF SURFACE STORMWATER GRATED INLET PITS MAY BE VARIED OR NEW PITS INSTALLED AT THE CONSTRUCTION STAGE PROVIDED DESIGN INTENT OF THIS DRAWING IS MAINTAINED



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		240231-SW	D1



240231-SW

D2



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		NER (1052208) RPEQ (25464) APEC Engineer InIPE(Aus)			В	DB	ISS
	Suite I A, Level 2, 2 Rowe Street, EASTWOOD NSW 2122		ARCHITECT	PROPOSED DWELLING			
	02 9807 7800 admin@quantumengineers.com.au		MARKER ARCHITECTURE	Lot 2, 34 PRINCE ALFRED PARADE,			
	quantumengineers.com.au			INEWFORI			











BOX GUTTER

вох	GUTTER TO BE CO	ONSTRUCTED	IN AC	CCORDANCE WITH AS/NZS 3500.3.2:2021: SEC
•	BOX GUTTER		-	250mm WIDTH x 150mm DEPTH (MIN)
•	RWH (EXTERNAL)		-	125mm LENGTH x 250 WIDTH x 200mm DEPTH

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SUMP

RWH OVERFLOW (OF)

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- 2 400mm LENGTH x 250 WIDTH x 100mm DEPTH (MIN)
 - 100mm WIDE x 75mm HIGH (MIN)

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	FNGINFFRS	ROBERT ELTOBBAGI	SLOPESON PTY LTD	ROOF PLAN	А	DB	PRELIMINARY ISSUE	31.03.2025	DB	12
Suite 1/ Street,	Suite 1A, Level 2, 2 Rowe	NER (1052208) RPEQ (25464)			В	DB	ISSUED FOR DA	14.05.2025	SCALE - SIZE	REVISION
	Street, EASTWOOD NSW 2122	APEC Engineer IntPE(Aus)	ARCHITECT	PROPOSED DWELLING					1:200 - A3	В
	02 9807 7800 admin@quantumengineers.com.au	- Alles	MARKER ARCHITECTURE	Lot 2, 34 PRINCE ALFRED PARADE,					JOB NUMBER	DRAWING No.
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AS NOTED - A3

JOB NUMBER

240231-SW

В

DRAWING No.

D9

		OLIANTUM	APPROVED BY	CLIENT	DRAWING TITLE	REVISION	DRAWN	DE
		FNGINFFRS	ROBERT ELTOBBAGI	SLOPESON PTY LTD	STORMWATER DETAILS (PART 1)	A	DB	PREL
		Suite 1A Level 2 2 Bowe	NER (1052208) RPEQ (25464)			В	DB	ISS
		Street, EASTWOOD NSW 2122	APEC Engineer IntPE(Aus)	ARCHITECT	PROPOSED DWELLING			
		02 9807 7800			Lot 2, 34 PRINCE ALERED PARADE			
	admin@quantumengineers.com.au		MARKER ARCHITECTURE					
		quantumengineers.com.au	1		NEWPORI			

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	FNGINEERS		SLOPESON PTY LTD	STORMWATER DETAILS (PART 2)	A	DB	PRELIMINARY ISSUE	31.03.2025	DB	12
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	Street, EASTWOOD NSW 2122	APEC Engineer IntPE(Aus)	ARCHITECT	PROPOSED DWELLING					AS NOTED - A3	В
	02 9807 7800 admin@quantumengineers.com.au		MARKER ARCHITECTURE	Lot 2, 34 PRINCE ALFRED PARADE,					JOB NUMBER	DRAWING No.
	quantumengineers.com.au			NEWPORT					240231-SW	D10
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DUST CONTROL:

 NOTE: DURING EXCAVATION, DEMOLITION AND CONSTRUCTION, ADEQUATE MEASURES SHALL BE TAKEN TO PREVENT DUST FROM AFFECTING THE AMENITY OF THE NEIGHBORHOOD.

THE FOLLOWING MEASURES MUST BE ADOPTED:

1. PHYSICAL BARRIERS SHALL BE ERECTED AT RIGHT ANGLES TO PREVENT WIND DIRECTION OR SHALL BE PLACED AROUND OR OVER DUST SOURCES TO PREVENT WIND OR ACTIVITY FROM GENERATING DUST.

2. EARTHWORKS AND SCHEDULING ACTIVITIES SHALL BE MANAGED TO COINCIDE WITH THE NEXT STAGE OF DEVELOPMENT TO MINIMISE THE AMOUNT OF TIME THE SITE IS LEFT TO CUT OR EXPOSED.

3. ALL MATERIALS SHALL BE STORED OR STOCKPILED AT THE BEST LOCATIONS. 4. THE GROUND SURFACE SHOULD BE DAMPENED SLIGHTLY TO PREVENT DUST FROM BECOMING AIRBORNE BUT SHOULD NOT BE WET TO THE EXTENT THAT RUN-OFF OCCURS.

5. ALL VEHICLES CARRYING SOIL OR RUBBLE TO OR FROM THE SITE SHALL AT ALL TIMES BE COVERED TO PREVENT THE ESCAPE OF DUST.

6. ALL EQUIPMENT WHEELS SHALL BE WASHED BEFORE EXISTING THE SITE USING MANUAL OR AUTOMATED SPRAYERS AND DRIVE - THROUGH WASHING BAYS.

7. GATES SHALL BE CLOSED BETWEEN VEHICLE MOVEMENTS SHALL BE FITTED WITH SHADE CLOTH.

8. CLEANING OF FOOTPATHS AND ROADWAYS SHALL CARRIED OUT DAILY. 9. ALL BUILDERS REFUSE, SPOIL AND/OR MATERIAL UNSUITABLE FOR USE IN LANDSCAPE AREAS SHALL

BE REMOVED FROM SITE ON COMPLETION OF THE BUILDING WORKS.

NOTES:

- ALL EROSION AND SEDIMENT CONTROL MEASURES TO BE INSPECTED AND MAINTAINED DAILY BY SITE MANAGER IN ACCORDANCE WITH COUNCIL REQUIREMENTS.
- ALL STOCKPILES TO BE CLEAR FROM DRAINS, GUTTERS AND FOOTPATHS.
- DRAINAGE IS TO BE CONNECTED TO STORMWATER SYSTEM AS SOON AS POSSIBLE.
- ROADS AND FOOTPATH TO BE SWEPT DAILY AS REQUIRED BY COUNCIL.
- IF YOU DO NOT COMPLY WITH COUNCIL **REQUIREMENTS & DOCUMENTATION, YOU** MAY BE LIABLE TO PROSECUTION FROM GOVERNMENT AUTHORITIES

LEGEND:	
UNDISTURBED VEGETATION	¥
SEDIMENT FENCEXX	(—
STOCK PILES	
STABILIZED SITE ACCESS	.]
MESH & GRAVEL INLET FILTER	\sim
WATER DIVERSION	7
STORMWATER PIT WITH SEDIMENT BARRIER	

1:400 - A3

	QUANTUM	APPROVED BY ROBERT ELTOBBAGI BE(CIVIL) MIEAust CPEng NER (1052208) RPEQ (25464) APEC Engineer IntPE(Aus)	CLIENT	DRAWING TITLE	REVISION	DRAWN	DE
	FNGINFFRS		SLOPESON PTY LTD ARCHITECT MARKER ARCHITECTURE	SEDIMENT CONTROL PLAN	A	DB	PREL
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		240231-SW	D12		