STORMWATER MANAGEMENT PLANS PROPOSED GRANNY FLAT LOT 2, 41 GARRONG RROAD, LAKEMBA

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 LINPAVED ARFAS 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 EXCEPTING 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 UNDER A SEALED ROAD	450mm WHERE NOT IN A 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 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.

GRATE

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		
Α	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		

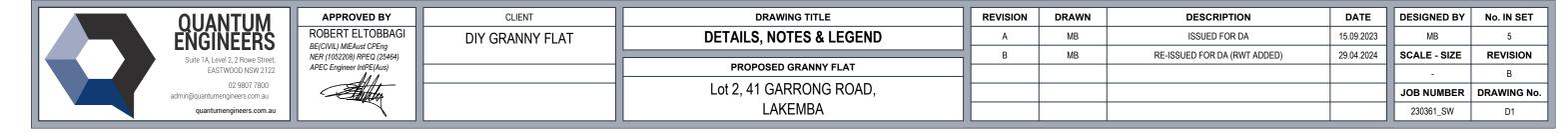
GENERAL NOTES

- FINAL LOCATION OF NEW DOWNPIPES TO BE DETERMINED BY BUILDER/ARCHITECT AT TIME OF CONSTRUCTION.
- 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.
- 6. 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
- 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 AFFECTIBE AFFECTED BY THIS DESIGN PRIOR TO
 COMMENCEMENT OF WORKS.
- ALL PITS WITHIN DRIVEWAYS TO BE 150mm THICK CONCRETE
 OR FOLIAL
- THIS PLAN IS THE PROPERTY OF QUANTUM ENGINEERS AND MAY NOT BE USED OR REPRODUCED WITHOUT WRITTEN PERMISSION FROM QUANTUM ENGINEERS.

PLAN NOTES

- 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:
- 1.1. FOR TYPICAL STANDARD QUAD GUTTER WITH Ae = 6000mm² AND GUTTER SLOPE 1:500 AND STEEPER, THIS REQUIRES ONE DOWNPIPE PER 30m² ROOF AREA.
- 1.2. DOWNPIPES TO BE MINIMUM 90mm DIA. OR 100 x 50mm FOR GUTTERS SLOPE 1:500 AND STEPPER.
- 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
- 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

(11111111111111111111111111111111111111	LEGEND GRATED TRENCH DRAIN		SURFACE INLET PIT
	ABSORPTION TRENCH		SURFACE INLET PIT (WITH ENVIROPOD 200 MICRON)
	PROPOSED ROOF GUTTER FALL	00 00	ACCESS GRATE
⊢● SP	PROPOSED DOWNPIPE SPREADER	_	(WITH ENVIROPOD 200 MICRON)
	STORMWATER PIPE 100mm DIA. MIN. UNO		ACCESS GRATE (TO HED PIT)
—_a—_a—_	SUBSOIL PIPE	450 X 450	450 SQUARE INTERVAL
	EXISTING STORMWATER PIPE	SL 75.50	GRATE LEVEL = 75.50
O IR	INSPECTION RISER	IL 75.20	INVERT LEVEL = RL 75.20
RWH	RAINWATER HEAD	DP 90	PROPOSED DOWNPIPE 90mm DIA. PVC



TOTAL SITE AREA	505.9	m²	
EXISTING DEVELOPMEN	IT		
BUILDING FOOTPRINT AREA	215.7	m²	
PAVED AREA	1.6	m²	
DRIVEWAY AREA	36	m²	
TOTAL IMPERVIOUS AREA	253.3	m²	
IMPERVIOUS AREA PERCENTAGE	50.1%		
PROPOSED DEVELOPMENT			
BUILDING FOOTPRINT AREA	215.7	m²	
PAVED AREA	1.6	m²	
DRIVEWAY AREA	36	m²	
TOTAL IMPERVIOUS AREA	253.3	m²	
INCREASE IN IMPERVIOUS AREA	0.0	m²	
TOTAL IMPERVIOUS AREA PERCENTAGE	50.1%		

AREA CALCULATIONS HAVE TAKEN INTO ACCOUNT THE REMOVED IMPERVIOUS AREA AS NOTED ON THE ARCHITECTURAL PLANS

DISCHARGE VIA EXISTING OUTLET.

LICENSED PLUMBER TO CHECK

EXISTING LINES TO STREET ARE

ORDER. REPAIR/REPLACE AS

MINIMUM STORMWATER PIPE.

UNBLOCKED AND IN GOOD WORKING

NECESSARY WITH 100 DIA uPVC 1%

OSD WARRANT

CANTERBURY-BANKSTOWN COUNCIL RELEVANT CODE:

CANTERBURY BANKSTOWN DCP 2021 CHAPTER 3 PART 3.1 SECTION 4 - ON-SITE DETENTION SYSTEMS

"SINGLE DWELLINGS WILL NOT REQUIRE OSD WHERE:

SINGLE DWELLINGS AND OUTBUILDINGS HAVE A COMBINED IMPERVIOUS AREA OF NO MORE THAN 75% OF THE SITE AREA.

• PRE-DEV. IMPERVIOUS AREA = 253.3m² (50.1%) • POST. DEV. IMPERVIOUS AREA = 253.3m² (50.1%)

THEREFORE POST-DEV. IMPERVIOUS AREA <75%

OSD NOT REQUIRED

DRAINAGE PIPE LEGEND

DRAINAGE PIPES VIA GRAVITY

DRAINAGE PIPES TO RAINWATER TANK EXISTING STORMWATER PIPE

NOTE: ALL PIPES TO BE 100mm DIA UNO

NOTE: PRIOR TO CONNECTING TO EXISTING DRAINAGE SYSTEM, **BUILDER MUST VERIFY SYSTEM IS FUNCTIONING** SATISFACTORILY.

ADVISE CIVIL DESIGN ENGINEER IF NOT SATISFACTORY

THE DESIGN AS INDICATED ON THESE PLANS MUST BE UNDERTAKEN AS DOCUMENTED. IF FOR ANY REASON, UNFORESEEN CONDITIONS LEAD TO THE NECESSITY TO VARY THE DESIGN DURING CONSTRUCTION, THEN CONTACT THE CIVIL DESIGN ENGINEER FOR CLARIFICATION.

ANY VARIATIONS MUST MEET THE ORIGINAL DESIGN INTENT. SUBJECT TO COMPLIANCE WITH THE REQUIREMENTS OUTLINED IN AUSTRALIAN STANDARDS, BUILDING CODE OF **AUSTRALIA AND RELEVANT COUNCIL GUIDELINES.**

Ø100mm

(OVERFLOW FROM

SITE/GROUND FLOOR PLAN

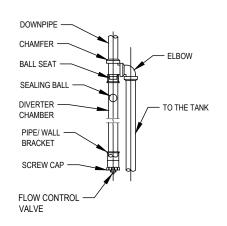
ALL STORMWATER DRAINAGE TO BE SEWER GRADE PVC U.N.O ALL STORMWATER DRAINAGE TO BE 1% MINIMUM GRADE U.N.O

CONNECT NEW STORMWATER DRAINAGE TO RWT) BY GRAVITY SINGLE STOREY REND. HOUSE EXISTING DRAINAGE. PROVIDE INSPECTION RISER (IR) AT POINT OF CONNECTION. SP 645 METAL ROOF ASSUMED LOCATION OF EXISTING REFER TO DETAIL ON DRAWING No.D3 No.43 SITE DRAINAGE SYSTEM. 2,000 LITRE(MIN) RWT TO BE CONFIRMED ON-SITE. LOT 1 TOP OF RWT ≈ RL 37.845 DP 932191 RWT BASE ≈ RL 36.060 EXIST. SIP REFER TO DETAIL ON D3 S.L 34.85 _ TE\ 33.37 50.29 ₹ TEL 33.48 CONCRETE DRIVEWAY ROOF GUTTER RL ≈ 39.578 LOT 2/ **PROPOSED** EXISTING OUTLET DP 932191 PATIO **EXISTING DWELLING GRANNY FLAT** DECK SITE AREA 505.9m² FFL 35.17 FFL 36.27 GRASS EXISTING RETAINING No.41 WALL TO REMAIN SARRONG GRASS LOT 111 BENCHMARK DP 3323 BOUNDAR' RL 33.68 (AHD) EXIST. SIP S.L 35.88 ALL EXISTING DOWNPIPES TO BE LOT 1 Ø100mm SOLVENT SEALED TO MINIMUM DP 124922 'CHARGED LINE' 600mm ABOVE TOP OF RWT. TO RWT (TYPICAL) REPLACE/UPGRADE EXISTING EXISTING DOWNPIPES IF REQUIRED. GRASS SINGLE STOREY BRICK HOUSE TILE ROOF



MITMALIO	APPROVED BY
ENCINEEDS	ROBERT ELTOBBAGI
ENGINEERS	BE(CIVIL) MIEAust CPEng
Suite 1A, Level 2, 2 Rowe Street,	NER (1052208) RPEQ (25464) APEC Engineer IntPE(Aus)
EASTWOOD NSW 2122	Arte Engineer Intre(Aus)
02 9807 7800	
admin@quantumengineers.com.au	
quantumengineers.com.au	1 1

APPROVED BY	CLIENT	DRAWING TITLE	REVISION	DRAWN	DESCRIPTION	DATE	DESIGNED BY	No. IN SET
ROBERT ELTOBBAGI	DIY GRANNY FLAT	SITE/GROUND FLOOR PLAN	А	MB	ISSUED FOR DA	15.09.2023	МВ	5
BE(CIVIL) MIEAust CPEng NER (1052208) RPEQ (25464)			В	MB	RE-ISSUED FOR DA (RWT ADDED)	29.04.2024	SCALE - SIZE	REVISION
APEC Engineer IntPE(Aus)		PROPOSED GRANNY FLAT			, ,		1:200 - A3	R
		Let 2, 44 CARRONC ROAR				-		Ь
		Lot 2, 41 GARRONG ROAD,					JOB NUMBER	DRAWING No.
		LAKEMBA					230361_SW	D2



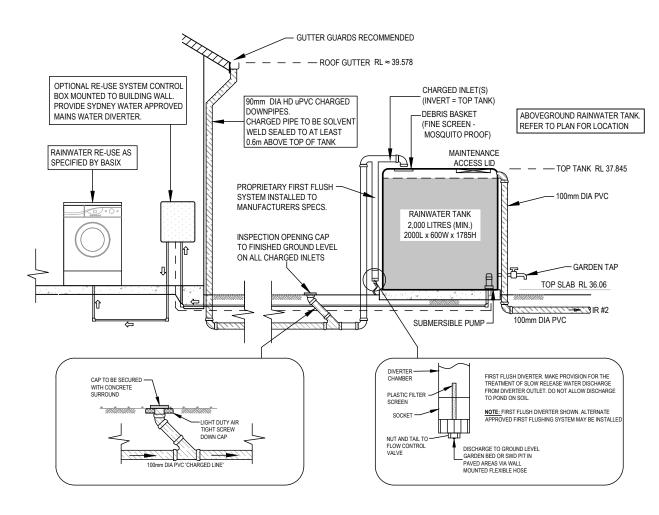
FIRST FLUSH DIVERTER

RAINWATER RE-USE TANK - RWT

(AS PER BASIX REQUIREMENTS)

SIZE: 2,000 LITRES (MIN) SLIMLINE TANK BY "KINGSPAN WATER" OR SIMILAR (2000L x 600W x 1785H) INSTALL TO MANUFACTURES SPECIFICATIONS, AS3500 AND COUNCIL REQUIREMENTS

- FOR RE-USE AS SPECIFIED BY BASIX CERTIFICATE
- ENSURE TOP OF TANK IS MIN 0.6m BELOW ROOF GUTTERS TO ENSURE SUFFICIENT HEAD FOR THE
- TANK TO BE INSTALLED BY LICENSED PLUMBER IN ACCORDANCE WITH AS/NZS 3500:2021 AND NSW CODE OF PRACTICE PLUMBING AND DRAINAGE 2006

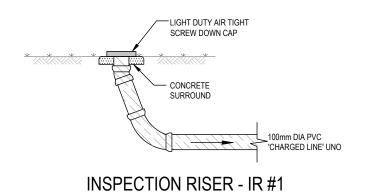


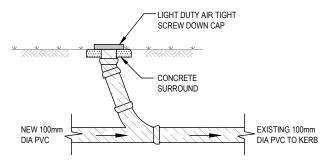


TYPICAL WARNING SIGN

EVERY EXTERNAL SUPPLY OUTLET FROM RAINWATER RE-USE TANK TO BE LABELED WITH METALLIC WARNING SIGN

RAINWATER RE-USE TANK - ABOVE GROUND





INSPECTION RISER - IR #2

QUANTUM ENGINEERS
Suite 1A, Level 2, 2 Rowe Street, EASTWOOD NSW 2122
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APEC Engineer IntPE(Aus)
-411
-

CLIENT
DIY GRANNY FLAT
2 3 2

REVISION	DRAWN	DESCRIPTION	DATE	DESIGNED BY	No. IN SET
A	MB	ISSUED FOR DA	15.09.2023	MB	5
В	MB	RE-ISSUED FOR DA (RWT ADDED)	29.04.2024	SCALE - SIZE	REVISION
				AS NOTED - A3	В
				JOB NUMBER	DRAWING No.
				230361_SW	D3

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.
- 2. ALL STOCKPILES TO BE CLEAR FROM DRAINS, GUTTERS AND FOOTPATHS.
- 3. DRAINAGE IS TO BE CONNECTED TO STORMWATER SYSTEM AS SOON AS POSSIBLE.
- 4. ROADS AND FOOTPATH TO BE SWEPT DAILY AS REQUIRED BY COUNCIL.
- 5. IF YOU DO NOT COMPLY WITH COUNCIL REQUIREMENTS & DOCUMENTATION, YOU MAY BE LIABLE TO PROSECUTION FROM GOVERNMENT AUTHORITIES .

LEGEND:
UNDISTURBED VEGETATION + + + + + + + + + + + + + + + + + + +
SEDIMENT FENCE —x—x—x——x—
STOCK PILES
STABILIZED SITE ACCESS
MESH & GRAVEL INLET FILTER
WATER DIVERSION
STORMWATER PIT WITH SEDIMENT BARRIER

SEDIMENT CONTROL PLAN

DATE

15.09.2023

29.04.2024

DESIGNED BY

SCALE - SIZE

1:200 - A3

JOB NUMBER

230361 SW

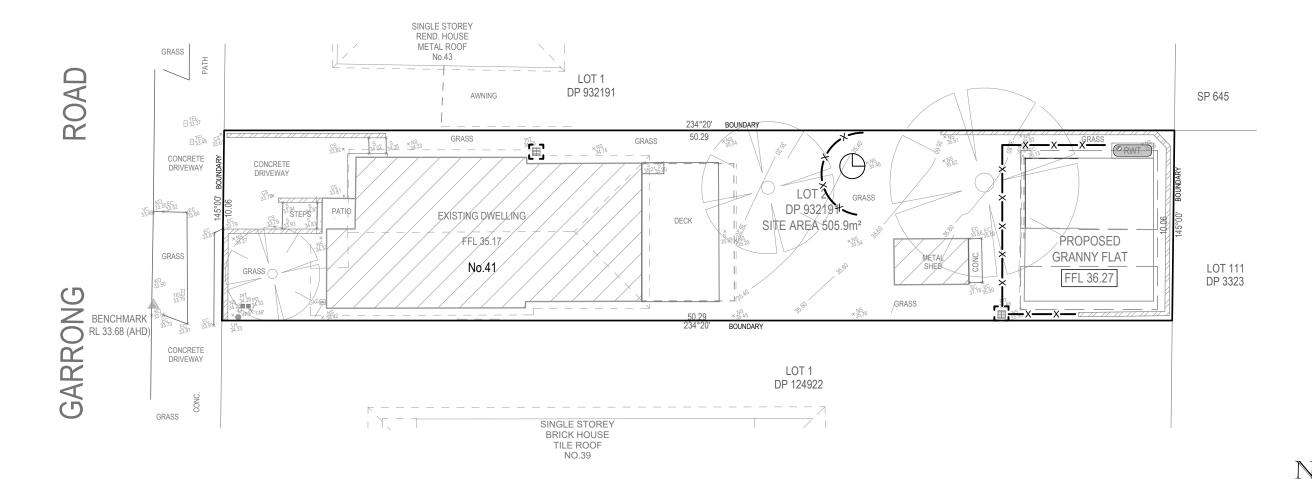
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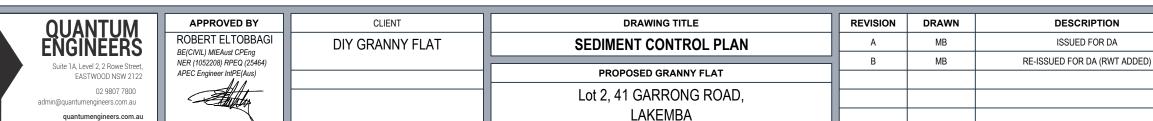
REVISION

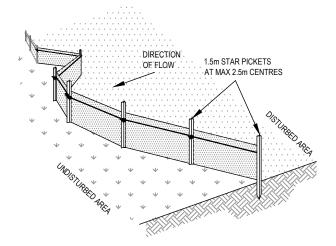
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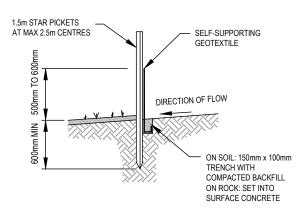
D4







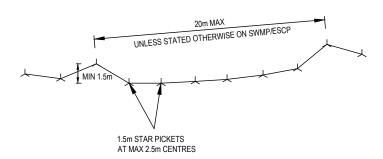


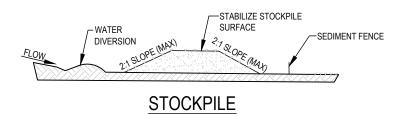


SEDIMENT FENCE DETAIL

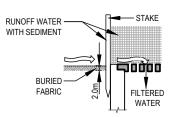
CONSTRUCTION NOTES:

- CONSTRUCT SEDIMENT FENCES AS CLOSE AS POSSIBLE TO BEING PARALLEL TO THE CONTOURS OF THE SITE, BUT WITH SMALL RETURNS AS SHOWN IN THE DRAWING TO LIMIT THE CATCHMENTS AREA OF ANY ONE SECTION. THE CATCHMENTS AREA SHOULD BE SMALL ENOUGH TO LIMIT WATER FLOW IF CONCENTRATED AT ONE POINT TO 50 LITRES PER
- SECOND IN THE DESIGN STORM EVENT, USUALLY THE 10 YEAR EVENT. CUT A 150mm DEEP TRENCH ALONG THE UPSLOPE LINE OF THE FENCE FOR THE BOTTOM OF THE FABRIC TO BE ENTRENCHED.
- DRIVE 1.5m LONG STAR PICKETS INTO GROUND AT 2.5m INTERVALS (MAX) AT THE DOWNSLOPE EDGE OF THE TRENCH, ENSURE ANY STAR PICKETS ARE FITTED WITH SAFETY CAPS.
- FIX SELF-SUPPORTING GEOTEXTILE TO THE UPSLOPE SIDE OF THE POSTS ENSURING IT GOES TO THE BASE OF THE TRENCH. FIX THE GEOTEXTILE WITH WIRE TIES OR AS RECOMMENDED BY THE MANUFACTURER. ONLY USE GEOTEXTILE SPECIFICALLY PRODUCED FOR SEDIMENT FENCING. THE USE OF SHADE CLOTH FOR THIS PURPOSE IS NOT SATISFACTORY.
- JOIN SECTIONS OF FABRIC AT A SUPPORT POST WITH 150mm OVERLAP. BACKFILL THE TRENCH OVER THE BASE OF THE FABRIC AND COMPACT IT THOROUGHLY OVER THE GEOTEXTILE





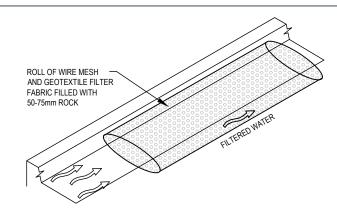
- PLACE STOCKPILES MORE THAN 2 (PREFERABLY 5) METRES FROM EXISTING VEGETATION, CONCENTRATED WATER FLOW, ROADS AND HAZARD AREAS.
- CONSTRUCT ON THE CONTOUR AS LOW, FLAT, ELONGATED MOUNDS.
- WHERE THERE IS SUFFICIENT AREA, TOPSOIL STOCKPILES SHALL BE LESS THAN 2 METRES IN HEIGHT.
- WHERE THEY ARE TO BE IN PLACE FOR MORE THAN 10 DAYS, STABILIZE FOLLOWING THE APPROVED ESCP OR SWMP TO REDUCE THE C-FACTOR TO LESS THAN 0.10. CONSTRUCT EARTH BANKS (LOW FLOW) ON THE UPSLOPE SIDE TO DIVERT WATER
- AROUND STOCKPILES AND SEDIMENT FENCES 1 TO 2 METRES ON THE DOWNSLOPE.



SEDIMENT BARRIER AROUND PIT

CONSTRUCTION NOTES:

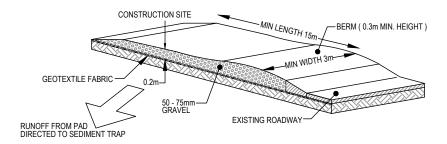
- FABRICATE A SEDIMENT BARRIER MADE FROM GEOTEXTILE OR STRAW BALES.
- FOLLOW STRAW FILTER AND SEDIMENT FENCE FOR INSTALLATION PROCEDURES FOR THE STRAW BALES OR GEOFABRIC. REDUCE THE PICKET SPACING TO 1 METRE CENTRES.
- IN WATERWAYS, ARTIFICIAL SAG POINTS CAN BE CREATED WITH SANDBAGS OR EARTH BANKS AS SHOWN IN THE DRAWING.
- DO NOT COVER THE INLET WITH GEOTEXTILE UNLESS THE DESIGN IS ADEQUATE TO ALLOW FOR ALL WATERS TO BYPASS IT.



MESH AND GRAVEL FILTER

CONSTRUCTION NOTES:

- INSTALL FILTERS TO KERB INLETS ONLY AT SAG POINTS
- FABRICATE A SLEEVE MADE FROM GEOTEXTILE OR WIRE MESH LONGER THAN THE LENGTH OF THE INLET PIT AND FILL IT WITH 25mm TO 50mm GRAVEL.
- FORM AN ELLIPTICAL CROSS-SECTION ABOUT 150mm(h) x 400mm(w).
- PLACE THE FILTER AT THE OPENING LEAVING AT LEAST 100mm SPACE BETWEEN IT AND THE KERB INLET. MAINTAIN THE OPENING WITH SPACER BLOCKS.
- FORM A SEAL WITH THE KERB TO PREVENT SEDIMENT BYPASSING THE FILTER.
- SANDBAGS FILLED WITH GRAVEL CAN SUBSTITUTE FOR THE MESH OR GEOTEXTILE PROVIDING THEY ARE PLACED SO THAT THEY FIRMLY ABUT EACH OTHER AND SEDIMENT-LADEN WATERS CANNOT PASS BETWEEN.



STABILIZED SITE ACCESS

CONSTRUCTION NOTES:

- STRIP THE TOPSOIL, LEVEL THE SITE AND COMPACT THE SUBGRADE
- COVER THE AREA WITH NEEDLE-PUNCHED GEOTEXTILE
- CONSTRUCT A 200mm THICK PAD OVER THE GEOTEXTILE USING ROAD BASED OR 30mm AGGREGATE
- ENSURE THE STRUCTURE IS AT LEAST 15m LONG OR TO BUILD ALIGNMENT
- AND AT LEAST 3 METRES WIDE WHERE A SEDIMENT FENCE JOINS ONTO THE STABILIZED ACCESS,
- CONSTRUCT A HUMP IN THE STABILIZED ACCESS TO DIVERT WATER TO THE SEDIMENT FENCE.



APPROVED BY ROBERT ELTOBBAGI BE(CIVIL) MIEAust CPEng NER (1052208) RPEQ (25464) APEC Engineer IntPE(Aus)

DIY GRANNY FLAT

DRAWING TITLE SEDIMENT DETAILS PROPOSED GRANNY FLAT Lot 2, 41 GARRONG ROAD, LAKEMBA

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REVISION	DRAWN	DESCRIPTION	DATE	DESIGNED BY	No. IN SET
А	MB	ISSUED FOR DA	15.09.2023	MB	5
В	MB	RE-ISSUED FOR DA (RWT ADDED)	29.04.2024	SCALE - SIZE	REVISION
				AS NOTED - A3	В
				JOB NUMBER	DRAWING No.
				230361 5W	DE

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