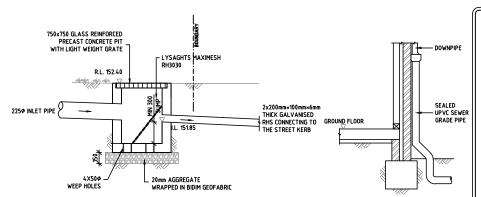


#### GROUND FLOOR STORMWATER DRAINAGE CONCEPT PLAN SCALE 1:100 NOTES:

1. ALL DOWNPIPE LOCATIONS TO BE CHECKED BY ARCHITECT AND CONTRACTOR PRIOR TO CONSTRUCTION



#### DOWN PIPE DETAILS TYPICAL SILT ARRESTOR PIT

DESCRIPTION

APPD

### SITE CALCULATIONS

#### SITE INFORMATION

TOTAL SITE AREA: PRE-DEVELOPMENT AREA: PROPOSED IMPERVIOUS AREA PROPOSED PERVIOUS AREA:

473.9m<sup>2</sup> (46.8%) 552.4 m<sup>2</sup> (54.5%)  $460.6 \text{ m}^2$ 

1012.6m<sup>2</sup>

OSD INFORMATION

PERMISSIBLE DISCHARGE RATE:

26L/S (20% AEP FROM PRE-DEVELOPMENT) 20L/S (DISCHARGE TO THE KERB)

REQUIRED OSD STORAGE VOLUME: PROPOSED OSD STORAGE VOLUME

29.6m<sup>3</sup> 14.7 + 95.30 = 110m<sup>2</sup> PROPOSED OSD STORAGE VOLUME:

DESIGN DISCHARGE RATE:

 $110 \times 0.3 = 33 \text{ m}^3$ 19L/S (CONTROLLED BY 135mm 

Ø ORIFICE)

ALL DATA ARE CALCULATED BY DRAINS, SEE DETAIL CALCULATION ON D.030

#### STORMWATER DRAINAGE NOTES

- ALL LINES ARE TO BE MIN. 1000 UPVC @ MIN 1.0% GRADE UNLESS
- 2. IT IS THE CONTRACTORS RESPONSIBILITY TO LOCATE & LEVEL ALL EXISTING SERVICES PRIOR TO THE COMMENCEMENT OF ANY EARTHWORKS. ALL DESIGN LEVELS SHOWN ON PLAN SHALL BE VERIFIED ON SITE PRIOR TO THE COMMENCEMENT OF ANY WORK
- ALL PIPES TO HAVE MIN 300mm COVER IF LOCATED WITHIN PROPERTY (MEASURED FROM THE CROWN OF THE PIPE).
- ALL PITS IN DRIVEWAYS BE HEAVY DUTY GRATES. DIRECT SURFACE FLOW TO ALL GRATED SURFACE INLET PITS.
- ALL WORK DO BE DONE IN ACCORDANCE WITH AS/NZ 3500.3:2015 AND COUNCIL SPECIFICATIONS.
- LOCATION OF DOWNPIPES ARE INDICATIVE ONLY. DOWNPIPE & FLOOR WASTE SIZE, LOCATION & QUANTITY TO BE DETERMINED BY BUILDER & IN ACCORDANCE WITH RELEVANT AUSTRALIAN STANDARDS.
- THIS PLAN IS TO BE READ IN CONJUNCTION WITH THE ARCHITECTURAL, HYDRAULIC, LANDSCAPE AND STRUCTURAL PLANS.
- ANY DISCREPANCIES OR OMISSIONS SHALL BE REFERRED TO THE DESIGN ENGINEER FOR RESOLUTION.
- ALL GUTTERS WILL BE FITTED WITH LEAF GUARDS AND SHOULD BE INSPECTED AND CLEANED TO ENSURE LEAF LITTER CANNOT ENTER THE
- ALL PITS WITH DEPTH MORE THAN 1M MUST HAVE IRON STEPS.

#### RAINWATER REUSE NOTES

- EVERY FIXTURE SERVICED FROM THE RECYCLED WATER SUFWLY MUST BE NOTED WITH A PLAQUE FOR IDENTIFICATION AND MARKED WITH "NOT FOR HUMAN CONSUMPTION" OR "NON-POTABLE WATER".
- RAINWATER TANK TO BE CONNECTED TO AT LEAST ONE OUTDOOR TAP.
- OVERFLOW FROM RAINWATER TANK TO BE CONNECTED TO STORMWATER DRAINAGE SYSTEM. NO OTHER CONNECTIONS TO THE OVERFLOW PIPELINE SUCH AS SURFACE WATER INLETS.
- ALL RECYCLE WATER PIPES TO BE COLOUR CODED FOR IDENTIFICATION.
- FIRST-FLUSH DEVICES ARE REQUIRED TO BE CHECKED AND CLEANED REGULARLY.
- WATER AUTHORITY MUST BE CONTACTED REGARDING RECYCLED WATER ON THE BUILDING AND FOR THE BACKFLOW PREVENTION REQUIREMENTS AND TOP-UP SYSTEM.
- ANY GARDEN OR CARWASH TAPS CONNECTED RECYCLE SYSTEM MUST BE LOCATED 1.5m MIN. ABOVE THE SURFACE.
- FOR PERIOD OF LOW WATER LEVEL IN THE RAINWATER TANK, A CONNECTION TO WATER MAIN IS NEEDED AND TO BE PROVIDED IN ACCORDANCE WITH THE WATER AUTHORITY.
- PUMPS AND FILTERS ON OUTLETS FROM RECYCLE SYSTEM TO BE SUFWLIED AS MAY BE REQUIRED.



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A K.Z. 30.09.20

No. BY DATE



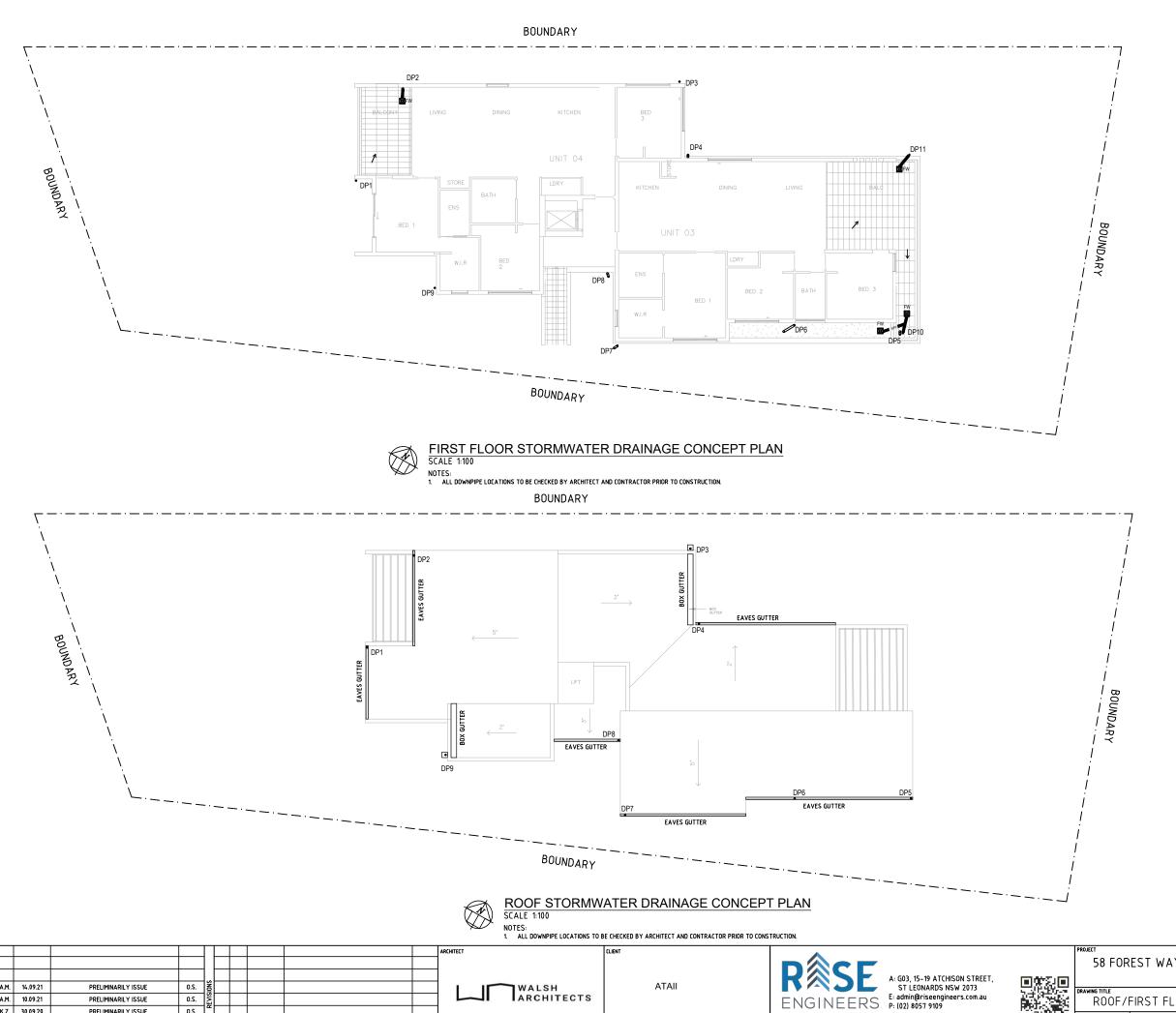
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回翻 RISE CONSULTING ENGINEERS PTY. LTD.

58 FOREST WAY FRENCHES FOREST NSW 2086

GROUND 1	LOOR STO	RMWATER	RDRAINAG	E CONCEPT	ΓPLAN		
<sup>JOB №</sup> 20124	DESIGNED A.M.	DRAWN A.M.	CHECKED O.S.	DRAWING No D.010	AS SHOWN	SIZE	A1



WALSH ARCHITECTS

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B A.M. 10.09.21

A K.Z. 30.09.20

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DESCRIPTION

LEGEND

FLOW DIRECTION

PROPOSED STORMWATER PIPES

PROPOSED RAINWATER PIPES PIT SURFACE LEVEL

INVERT LEVEL GRATED INLET PIT

GRATE DRAIN



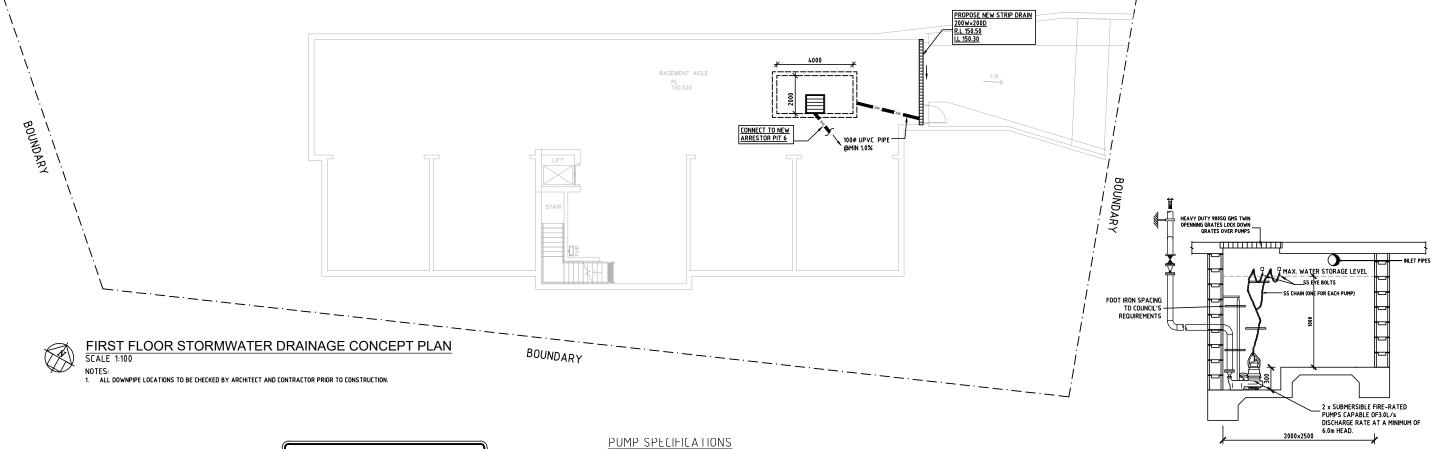
58 FOREST WAY FRENCHES FOREST NSW 2086

A: G03, 15-19 ATCHISON STREET, ST LEONARDS NSW 2073
E: admin@riseengineers.com.au
P: (02) 8057 9109

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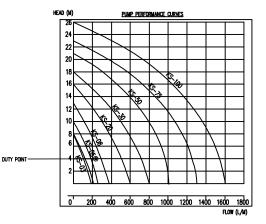
#### BOUNDARY





"DANGER" AND BACKGROUND WHITE ELLIPTICAL AREA RED RECTANGLE CONTAINING ELIPSE OTHER LETTERING AND BORDER BLACK

CONFINED SPACE WARNING SIGN



PUMP OUT DETAILS:

DUAL KS-20 PUMP OR EQUIVALENT TO BE INSTALLED IN SUMP AND CONNECTED TO CONTROL PANEL WHICH WILL ALLOW FOR THE PUMPS TO OPERATE ALTERNATIVELY ON HIGH LEVEL ALARMS AT 5.0 L/s (PER PUMP) AT 4.0m HEAD.

## STANDARD PUMP-OUT NOTES

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THE PUMP-OUT SYSTEM IS DESIGNED TO WORK IN THE FOLLOWING MANNER 
1. THE PUMPS SHALL BE PROGRAMMED TO WORK ALTERNATELY SO AS TO ALLOW BOTH PUMPS TO HAVE EQUAL OPERATION LOAD & 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.
- 3. A SECOND FLOAT SHALL BE PROVIDED AT A HIGHER LEVEL, APPROXIMATELY 300mm ABOVE THE MINIMUM WATER LEVEL, WHEREBY ONE OF THE PUMPS WILL OPERATE & 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 & ACTIVATE THE ALARM.
- AN ALARM SYSTEM SHALL BE PROVIDED WITH A FLASHING STROBE LIGHT & 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.

	Out	m t	Outlet		Ra	Rated		Maximum		Dimension			
Туре	Output		Oudet		Head Capacity		Head Capacity		Weigh		Dimension		
	HP kW		mm Inch		M LPM		М	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	

### TYPICAL SECTION TROUGH PUMP PIT

SCALE: NTS

#### **PUMP OUT CALCULATION**

1. PUMP OUT REQUIREMENT:

DESIGN ARI: EXPOSED AREA DRAINING TO PUMP:

MINIMUM STORAGE CAPACITY( $V_c$ ): 60.4×(65/1000)×2=7.85m<sup>3</sup>

(2HRS. 10YRS ARI) 60.4×276/3600 = 4.63L/s

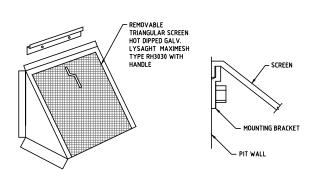
MINIMUM DISCHARGE RATE (Q<sub>C</sub>): (6MIN, 100 YRS ARI)

2. DESIGNED PUMP OUT SYSTEM:

PROPOSED PUMP PIT:

PROPOSED PUMP OUT RATE: 5L/s (MIN RATE REQUIRED AS PER AS3500.3 IS 10L/s) PUMP OUT HYDRAULIC HEAD:

PUMP OPERATION HOURS IS BE RESTRICTED BETWEEN 11:00pm AND 3.00 am.



SILT FILTER SCREEN SCALE: NTS

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A: G03, 15-19 ATCHISON STREET, ST LEONARDS NSW 2073
ENGINEERS
P: (02) 8057 9109

RISE CONSULTING ENGINEERS PTY. LTD.



58 FOREST WAY FRENCHES FOREST NSW 2086

JOB № 20124	DESIGNED A.M.	DRAWN A.M.	CHECKED O.S.	DRAWING No D.030	SCALE AS SHOWN	s
DRAWING TITLE BASEM	ENT STOR	MWATER [	DRAINAGE	CONCEPT F	PLAN	

#### STORMWATER RUN- OFF DATA ( 1 IN 5 YRS STORM EVENT) SUB-CATCHMENT DETAILS Max Paved Grassed Paved Grassed Supp. Due to Storm Name Flow Q Max Q Max Q Tc Tc Tc (cu.m/s) (cu.m/s) (min) (min) (min) Pre - Dev 0.024 0.016 0.008 5 8 2 20% AEP, 10 min burst, Storm 8 SUB-CATCHMENT DETAILS Name Max Paved Grassed Paved Due to Storm Flow Q Max Q Max Q Tc Tc (cu.m/s) (cu.m/s) (cu.m/s) (min) 0.056 0.03 0.027 n) (min) (min) 5 8 2 1% AEP, 10 min burst, Storm 7 Pre -Dev 0.061 0.052 0.009 2 1% AEP, 5 min burst, Storm 1 Name Max WL MaxVol Max Q Max Q Total Low Level High Level Basin2119 152.23 29.6 0.019 0.019

#### DRAINS MODEL RESULT (OSD CALCULATION)

DISCHARGE FROM 1 IN 5 YRS UP TO 1 IN 100 YRS STORM EVENTS

#### SITE CALCULATIONS

SITE INFORMATION

1012.6m<sup>2</sup> 473.9m<sup>2</sup> (46.8%) TOTAL SITE AREA : PRE-DEVELOPMENT AREA: 552.4 m<sup>2</sup> (54.5%) PROPOSED IMPERVIOUS AREA: PROPOSED PERVIOUS AREA:  $460.6 \text{ m}^2$ 

OSD INFORMATION

26L/S (20% AEP FROM PRE-DEVELOPMENT) PERMISSIBLE DISCHARGE RATE:

20L/S (DISCHARGE TO THE KERB)

REQUIRED OSD STORAGE VOLUME:

PROPOSED OSD STORAGE VOLUME:  $14.7 + 95.30 = 110 \text{m}^2$ PROPOSED OSD STORAGE VOLUME:  $110 \times 0.3 = 33 \text{ m}^3$ 

DESIGN DISCHARGE RATE: 19L/S (CONTROLLED BY 135mmø ORIFICE)

ALL DATA ARE CALCULATED BY DRAINS, SEE DETAIL CALCULATION ON D.030



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ARCHITECT S C A.M. 14.09.21 B A.M. 10.09.21 PRELIMINARILY ISSUE 0.S. PRELIMINARILY ISSUE 0.\$. A K.Z. 30.09.20 PRELIMINARILY ISSUE No. BY DATE No. BY DATE DESCRIPTION APPD DESCRIPTION

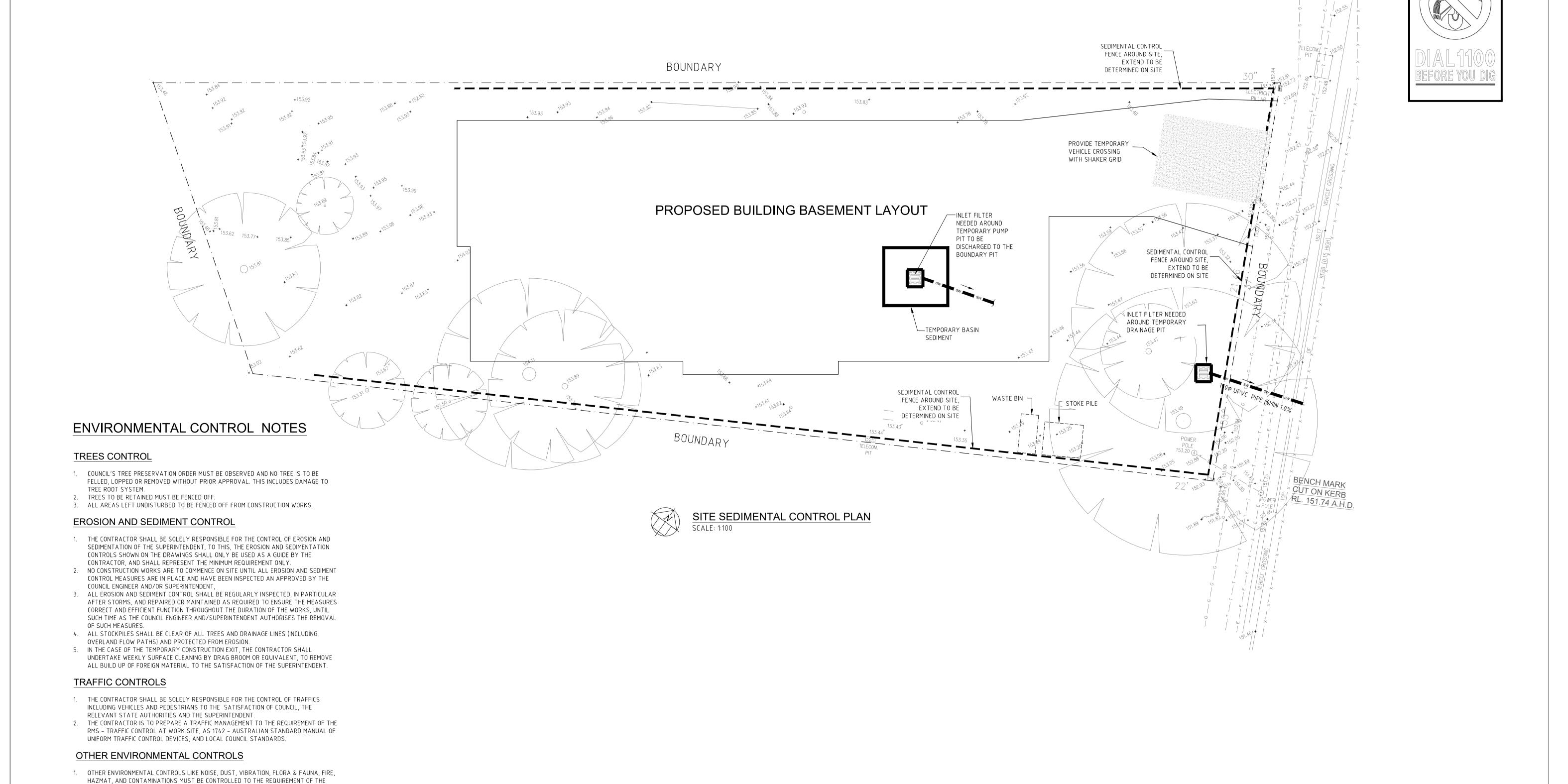


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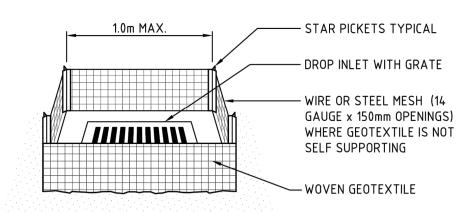
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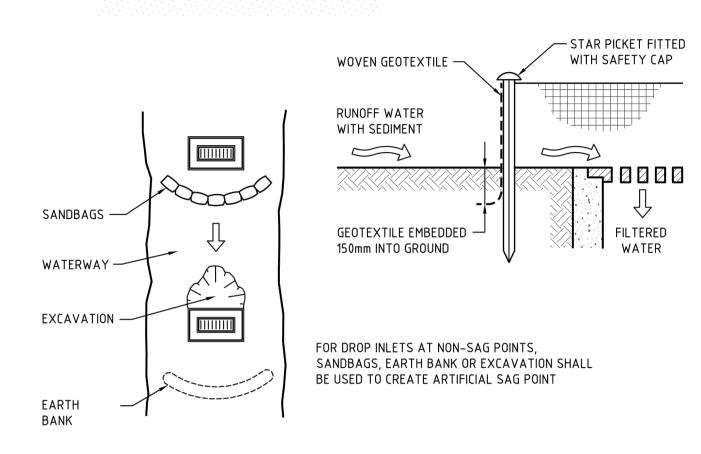


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COUNCIL AND THE RELEVANT STATE AUTHORITIES.

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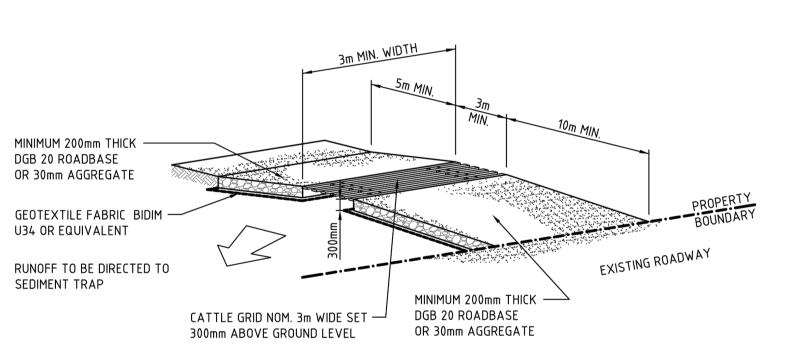


#### **CONSTRUCTION NOTES:**

- 1. FABRICATE A SEDIMENT BARRIER MADE FROM GEOTEXTILE OR STRAW BALES.
- 2. IN WATERWAYS, ARTIFICIAL SAG POINTS CAN BE CREATED WITH SANDBAGS OR EARTH BANKS AS SHOWN IN THE DRAWING.
- 3. DO NOT COVER THE INLET WITH GEOTEXTILE UNLESS THE DESIGN IS ADEQUATE TO ALLOW FOR ALL WATERS TO BYPASS IT.

## GEOTEXTILE INLET FILTER DETAIL

FOR PITS WITHIN LANDSCAPED AREAS NOT TO SCALE



GEOFABRIC MAY BE A WOVEN OR NEEDLE-PUNCHED PRODUCT WITH A MINIMUM CBR BURST STRENGTH (AS3706.4-90) OF 2500 N

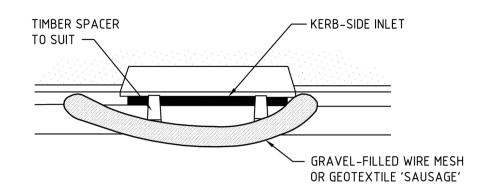
## STABILISED SITE ACCESS WITH SHAKER GRID DETAIL

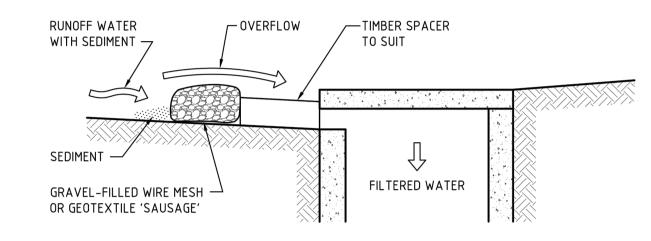
NOT TO SCALE

### CONSTRUCTION NOTES:

- 1. STRIP THE TOPSOIL, LEVEL THE SITE AND COMPACT THE SUBGRADE.
- 2. COVER THE AREA WITH NEEDLE-PUNCHED GEOTEXTILE.
- 3. CONSTRUCT A 200mm THICK PAD OVER THE GEOTEXTILE USING ROAD BASE OR 30mm AGGREGATE. 4. ENSURE THE STRUCTURE IS AT LEAST 15m LONG OR TO BUILDING ALIGNMENT AND AT LEAST 3m WIDE.
- 5. WHERE A SEDIMENT FENCE JOINS ONTO THE STABILISED ACCESS, CONSTRUCT A HUMP IN THE STABILISED

ACCESS TO DIVERT WATER TO THE SEDIMENT FENCE.



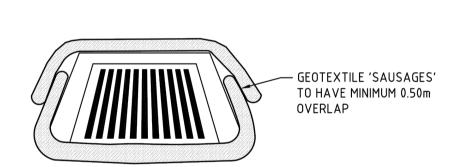


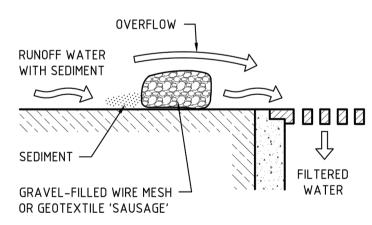
#### CONSTRUCTION NOTES:

- 1. INSTALL FILTERS TO KERB INLETS ONLY AT SAG POINTS.
- 2. 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.
- 3. FORM AN ELLIPTICAL CROSS-SECTION ABOUT 150mm HIGH x 400mm WIDE.
- 4. PLACE THE FILTER AT THE OPENING LEAVING AT LEAST A 100mm SPACE BETWEEN IT AND THE KERB INLET. MAINTAIN THE OPENING WITH SPACER BLOCKS.
- 5. FORM A SEAL WITH THE KERB TO PREVENT SEDIMENT BYPASSING THE FILTER.
- 6. 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.

## MESH AND GRAVEL INLET FILTER DETAIL

NOT TO SCALE





### GEOTEXTILE INLET FILTER DETAIL

FOR PITS WITHIN PAVEMENT AREAS

NOT TO SCALE

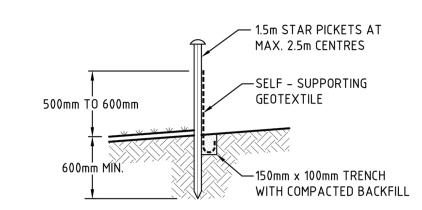
## **CONSTRUCTION NOTES:**

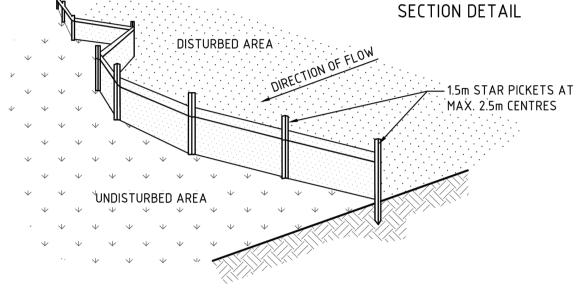
1. FABRICATE A SEDIMENT BARRIER MADE FROM GEOTEXTILE OR STRAW BALES. 2. DO NOT COVER THE INLET WITH GEOTEXTILE UNLESS THE DESIGN IS ADEQUATE

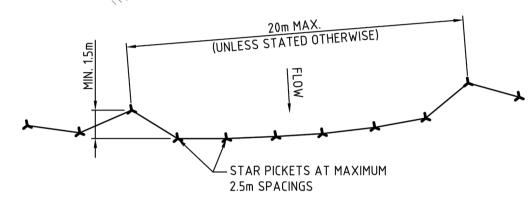
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TO ALLOW FOR ALL WATERS TO BYPASS IT.







## SEDIMENT FENCE DETAIL

NOT TO SCALE

### **CONSTRUCTION NOTES:**

- 1. 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 CATCHMENT AREA OF ANY ONE SECTION. THE CATCHMENT 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.
- 2. CUT A 150mm DEEP TRENCH ALONG THE UPSLOPE LINE OF THE FENCE FOR THE BOTTOM OF THE FABRIC TO BE
- 3. DRIVE 1.5 METRE LONG STAR PICKETS INTO THE GROUND AT 2.5 METRE INTERVALS (MAX) AT THE DOWNSLOPE EDGE OF THE TRENCH. ENSURE ANY STAR PICKETS ARE FITTED WITH SAFETY CAPS.
- 4. 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.
- 5. JOIN SECTIONS OF FABRIC AT A SUPPORT POST WITH A 150-mm OVERLAP. 6. BACKFILL THE TRENCH OVER THE BASE OF THE FABRIC AND COMPACT IT THOROUGHLY OVER THE GEOTEXTILE.

## **ENVIRONMENTAL CONTROL NOTES**

# TREES CONTROL

- 1. COUNCIL'S TREE PRESERVATION ORDER MUST BE OBSERVED AND NO TREE IS TO BE FELLED, LOPPED OR REMOVED WITHOUT PRIOR APPROVAL. THIS INCLUDES DAMAGE TO TREE ROOT SYSTEM.
- 2. TREES TO BE RETAINED MUST BE FENCED OFF.
- 3. ALL AREAS LEFT UNDISTURBED TO BE FENCED OFF FROM CONSTRUCTION WORKS.

### **EROSION AND SEDIMENT CONTROL**

- 1. THE CONTRACTOR SHALL BE SOLELY RESPONSIBLE FOR THE CONTROL OF EROSION AND SEDIMENTATION OF THE SUPERINTENDENT, TO THIS, THE EROSION AND SEDIMENTATION CONTROLS SHOWN ON THE DRAWINGS SHALL ONLY BE USED AS A GUIDE BY THE
- CONTRACTOR, AND SHALL REPRESENT THE MINIMUM REQUIREMENT ONLY. 2. NO CONSTRUCTION WORKS ARE TO COMMENCE ON SITE UNTIL ALL EROSION AND SEDIMENT CONTROL MEASURES ARE IN PLACE AND HAVE BEEN INSPECTED AN APPROVED BY THE
- COUNCIL ENGINEER AND/OR SUPERINTENDENT, 3. ALL EROSION AND SEDIMENT CONTROL SHALL BE REGULARLY INSPECTED, IN PARTICULAR AFTER STORMS, AND REPAIRED OR MAINTAINED AS REQUIRED TO ENSURE THE MEASURES CORRECT AND EFFICIENT FUNCTION THROUGHOUT THE DURATION OF THE WORKS, UNTIL SUCH TIME AS THE COUNCIL ENGINEER AND/SUPERINTENDENT AUTHORISES THE REMOVAL
- 4. ALL STOCKPILES SHALL BE CLEAR OF ALL TREES AND DRAINAGE LINES (INCLUDING
- OVERLAND FLOW PATHS) AND PROTECTED FROM EROSION. 5. IN THE CASE OF THE TEMPORARY CONSTRUCTION EXIT. THE CONTRACTOR SHALL UNDERTAKE WEEKLY SURFACE CLEANING BY DRAG BROOM OR EQUIVALENT, TO REMOVE ALL BUILD UP OF FOREIGN MATERIAL TO THE SATISFACTION OF THE SUPERINTENDENT.

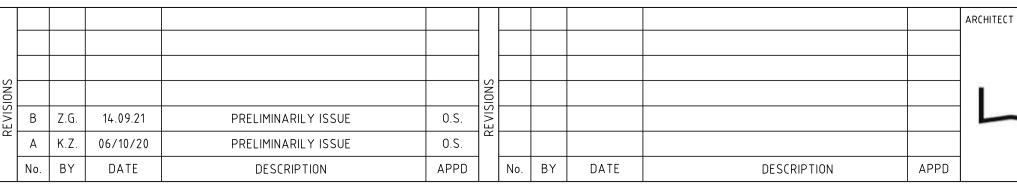
## TRAFFIC CONTROLS

OF SUCH MEASURES.

- 1. THE CONTRACTOR SHALL BE SOLELY RESPONSIBLE FOR THE CONTROL OF TRAFFICS INCLUDING VEHICLES AND PEDESTRIANS TO THE SATISFACTION OF COUNCIL, THE RELEVANT STATE AUTHORITIES AND THE SUPERINTENDENT
- 2. THE CONTRACTOR IS TO PREPARE A TRAFFIC MANAGEMENT TO THE REQUIREMENT OF THE RMS - TRAFFIC CONTROL AT WORK SITE, AS 1742 - AUSTRALIAN STANDARD MANUAL OF UNIFORM TRAFFIC CONTROL DEVICES, AND LOCAL COUNCIL STANDARDS.

## OTHER ENVIRONMENTAL CONTROLS

OTHER ENVIRONMENTAL CONTROLS LIKE NOISE, DUST, VIBRATION, FLORA & FAUNA, FIRE, HAZMAT, AND CONTAMINATIONS MUST BE CONTROLLED TO THE REQUIREMENT OF THE COUNCIL AND THE RELEVANT STATE AUTHORITIES.











PROJECT
PROPOSED NEW SENIORS LIVING
58 FOREST WAY, FRENCHS FOREST, NSW 2086
DRAWING TITLE

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SEDIMENT CONTROL DETAILS	

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<sup>No</sup> 20124	DESIGNED Z.G.	drawn Z.G.	CHECKED O.S.	DRAWING No SC.02	SCALE AS SHOWN	size A1						