173 BIRDWOOD ROAD, GEORGES HALL PROPOSED ADDITIONS AND ALTERATIONS AND PROPOSED GRANNY FLAT STORMWATER MANAGEMENT PLANS

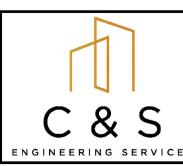


							Council
						Fuvis Building Design	Cante
							Banks
						Suite 5, 13 Bridge Street Epping NSW 2121	Counc
Α	ISSUE FOR COMPLYING DEVELOPMENT CERTIFICATE	03/05/2024	SFK	EH	OC		
Issue	Description	Date	Designed	Engineer	Checked	T: 02 8065 8978 M: 0433 165 933	
-1 0	1cm at full size				20cm	E: info@fuvis.com.au	

LOCALITY PLAN N.T.S

DRAWING INDEX						
Drawing No.	DESCRIPTION					
000	COVER SHEET PLAN					
101	STORMWATER LAYOUT PLAN GROUND LEVEL					
102	SEDIMENT & EROSION CONTROL PLAN & DETAILS					
103	MAINTENANCE SCHEDULE & MISCELLANEOUS DETAILS SHEET					

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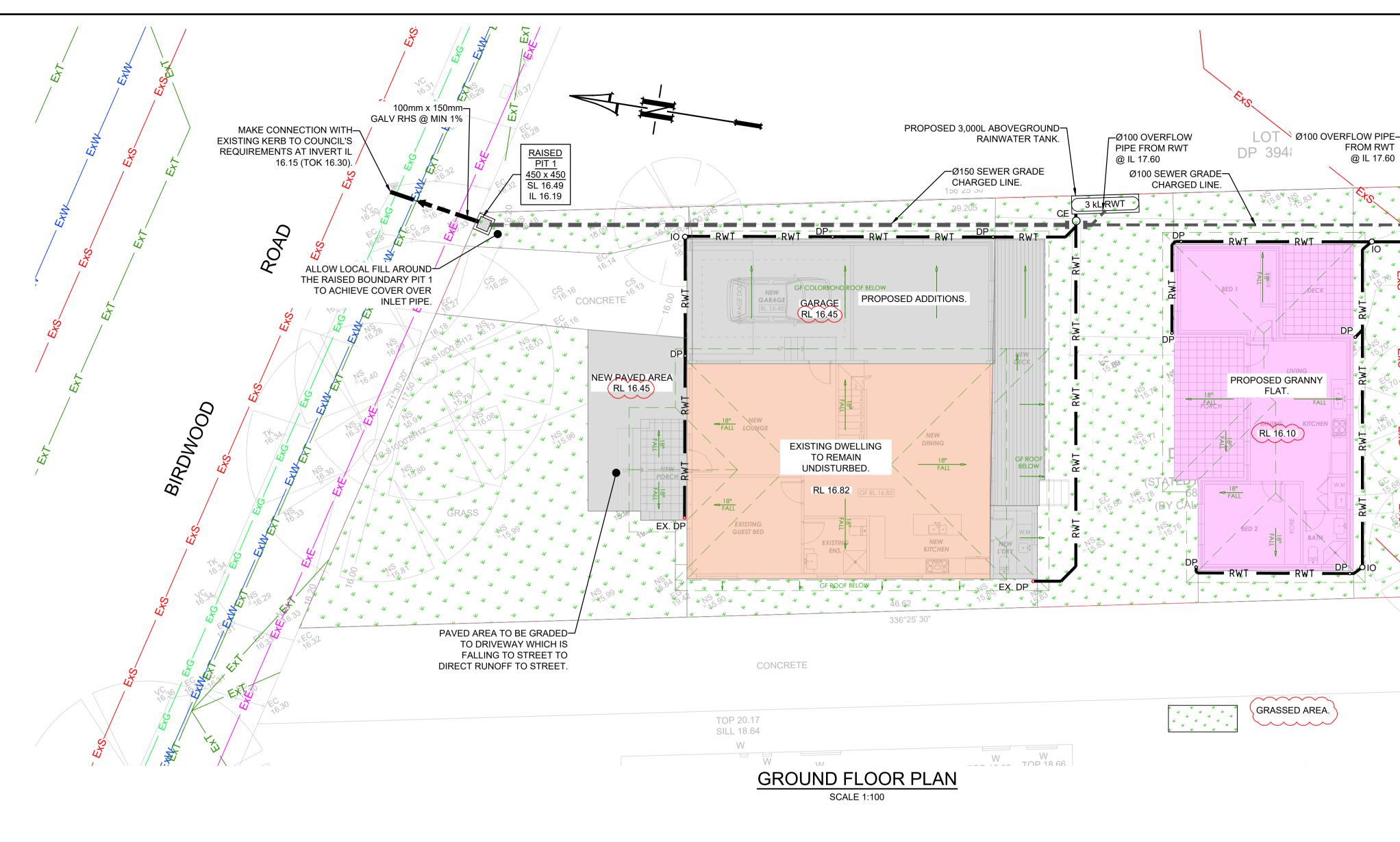


CIVIL & STORMWATER ENGINEERING SERVICES PTY LTD ABN: 27 644 422 506 Shop 1, 143-147 Parramatta Road, Concord, NSW 2137 P:(02) 8397 6500 ENGINEERING SERVICES E:info@esaconsult.com.au

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	Drawing Title							
OOD ROAD, GEORGES HALL	COVER SHEET PLAN							
ADDITIONS AND ALTERATIONS								
ROPOSED GRANNY FLAT								
ATER MANAGEMENT PLAN	Scale A1	Project No.	Dwg. No.	Issue				
	N.T.S.	240102	000	А				

<u>LEGEND</u>	
— – → —	PROPOSED STORMWATER DRAINAGE PIPE
	PROPOSED SEWER GRADE CHARGED PIPE
RWT	PROPOSED SEWER GRADE CHARGED PIPE TO RWT
OCE	Ø300 CLEANING EYE
RWT	RAINWATER TANK
o DP	DOWNPIPE Ø100
o ^{VD}	VERTICAL DROP Ø100
O EX. DP	APPROXIMATE LOCATION OF EXISTING DP T.B.C.
0 ^{IO}	INSPECTION OPENING
XRL 47.00	DESIGN SURFACE LEVEL
+ NS 26.45	EXISTING SURFACE LEVEL
IL 47.00	INVERT LEVEL
	EXISTING WATER MAIN
———— ExS ———	EXISTING SEWER MAIN
———— Ext ———	
———— ExG ————	
——————————————————————————————————————	EXISTING OPTIC FIBER



NOTE:

IT IS CONTRACTOR'S RESPONSIBILITY TO CONFIRM THAT THE EXISTING STORMWATER SYSTEM IS FLUSHED AND CHECKED AGAINST BLOCKAGE AND INTEGRITY.

NOTE:

IT IS CONTRACTOR'S RESPONSIBILITY TO CONFIRM THE DETAILS OF THE EXISTING STORMWATER SYSTEM PRIOR TO COMMENCEMENT OF ANY SITE WORKS. IF ANY DISCREPANCIES WITH WHAT HAS BEEN SHOWN ON THESE SET OF PLANS ARE IDENTIFIED ON SITE, CONTACT CIVIL & STORMWATER ENGINEERING SERVICES PTY LTD IMMEDIATELY FOR AN ALTERNATIVE DESIGN.

NOTE:

PITS DEEPER THAN 1.0m TO BE FITTED WITH STEP IRONS.

NOTE:

ALL STORMWATER DRAINAGE PIPES ARE Ø100 PVC AT MIN 1.0% SLOPE U.N.O. NOTE: SITE SETBACK TO BE GRASSED AREA.

NOTE:

IT IS CONTRACTOR'S RESPONSIBILITY TO ENSURE MINIMUM PONDING IS ACHIEVED OVER THE FLOOR WASTES BY GRADING CATCHMENTS' SURFACES AT MINIMUM 1.0% FALL.

NOTES:

1- CONTRACTOR IS TO PROVIDE OVERFLOW OUTLETS & EMERGENCY OVERFLOW SPITTERS TO ALL TRAPPED AREAS. 2- DP/VD ARE Ø100mm PIPES U.N.O. 3- ALL TRANSFERRING PIPES ARE SUSPENDED U.N.O. 4- BALCONIES PIPES ARE Ø50mm PVC WRAPPED IN 20mm ABLEFLEX CAST IN SLAB AT MIN 1.0% SLOPE.

NOTE: PIPES CAST IN CONCRETE BEAMS/SLABS MUST BE WRAPPED WITH 20mm ABLEFLEX.

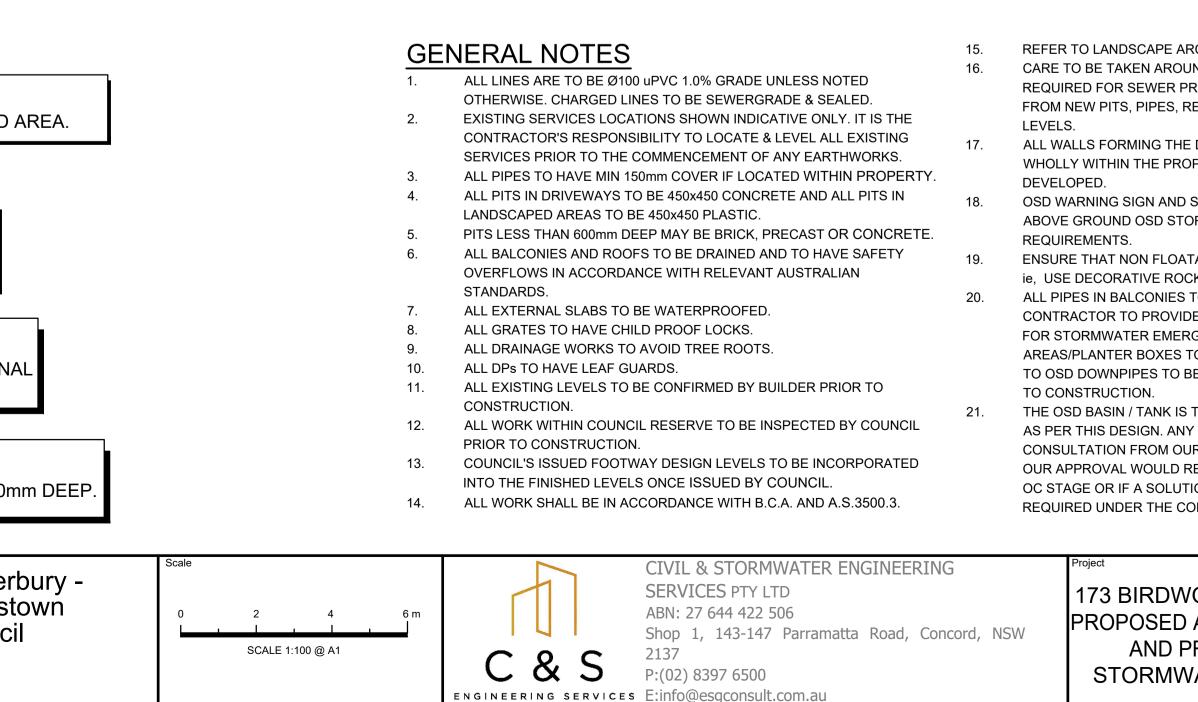
NOTE:

REFER ARCHITECTURAL DRAWINGS FOR FINAL SET-OUT LEVELS.

NOTE:

ALL LINEAR GRATED DRAINS TO BE MIN. 100mm DEEP.

B ISSUE FOR COMPLYING DEVELOPMENT CERTIFICATE A ISSUE FOR COMPLYING DEVELOPMENT CERTIFICATE Issue Description 1 0 1cm at full size	17/05/2024 03/05/2024 Date	SFK	EH EH Engineer	OC OC Checked	Fuvis Building Design ABN 75 143 228 773 Suite 5, 13 Bridge Street Epping	Council Canter Bankst Counc
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		TOP 18.02 KOOL K		
RCHITECT'S DRAWINGS FOR LANDSCAPING. ND EXISTING SEWER. STRUCTURAL ADVICE IS ROTECTION AGAINST ADDITIONAL LOADING ETAINING WALLS AND OSD BASIN WATER DETENTION BASINS SHALL BE CONSTRUCTED PERTY BOUNDARIES OF THE SITE BEING SAFETY FENCING SHALL BE PROVIDED TO ORAGE AREA IN ACCORDANCE WITH COUNCIL TABLE MULCH IS USED IN DETENTION BASINS, K MULCH OR EQUIVALENT. TO BE Ø50 CAST IN CONCRETE SLAB. E A BREAK / OPEN VOID IN RAIL / BALLUSTRADE GENCY OVERFLOW. ALL ENCLOSED TO BE FITTED WITH FLOOR WASTES & DRAINED E CHECKED BY ARCHITECT & PLUMBER PRIOR TO BE BUILT TO THE CORRECT LEVELS & SIZE Y VARIATIONS ARE TO BE DONE UNDER R OFFICE ONLY. ANY AMENDMENTS WITHOUT RESULT IN ADDITIONAL FEES FOR REDESIGN AT ION CANNOT BE FOUND, RECONSTRUCTION IS DNTRACTOR'S EXPENSES.	Drawing Title	NOTE: ALL GRATES WIT FOOTWAY AREA HEEL GUARD & E MIN Ø65 PVC @ MIN Ø100 PVC @ MIN Ø100 PVC @ MIN Ø150 PVC @ MIN Ø225 PVC @ MIN Ø300 PVC @ MIN UNLESS NOTED	S TO BE BIKE SAFE 1.0% 1.0% 1.0% 1.0% 1.0% 0.5% 0.4%	
OOD ROAD, GEORGES HALL ADDITIONS AND ALTERATIONS ROPOSED GRANNY FLAT ATER MANAGEMENT PLAN	STORMW GROUND	VATER LAYOU LEVEL	JT PLA Dwg. No. 101	N Issue B

PROPOSED 3,000L ABOVEGROUND

RAINWATER TANK.

FROM RWT

JUS 1

@ IL 17.60

3 kL RWT

LEGEND

—— E×W
—— E×S——
——— E×T——
——— E×E——— ——— E×G———
——————————————————————————————————————
26.45
+ NS 26.45
+ 143

EXISTING WATER MAIN
EXISTING SEWER MAIN
EXISTING TELSTRA
EXISTING ELECTRICAL
EXISTING GAS
EXISTING OPTIC FIBER
EXISTING CONTOUR
EXISTING SURFACE LEVE
EARTHWORKS LEVEL
DESIGN SURFACE LEVEL

SILT FENCE

000000

STABILISED SITE ACCESS



TREES TO BE RETAINED

1.8 HIGH CONSTRUCTION

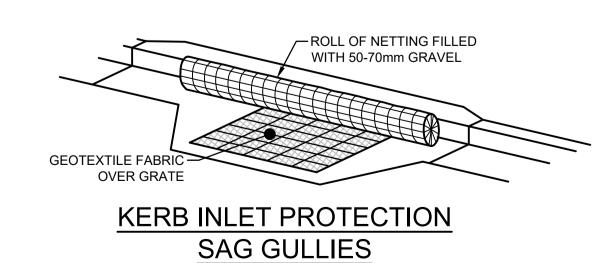
BARRIER FENCING

TREES TO BE REMOVED

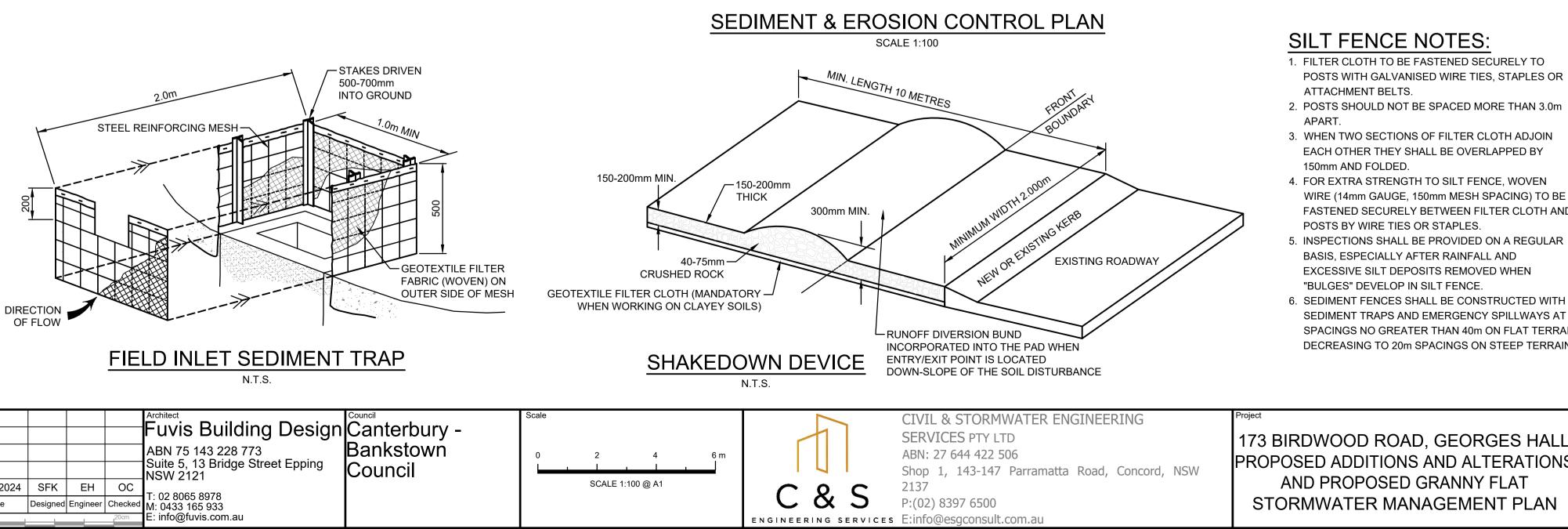
INLET PROTECTION

SEDIMENT & EROSION NOTES

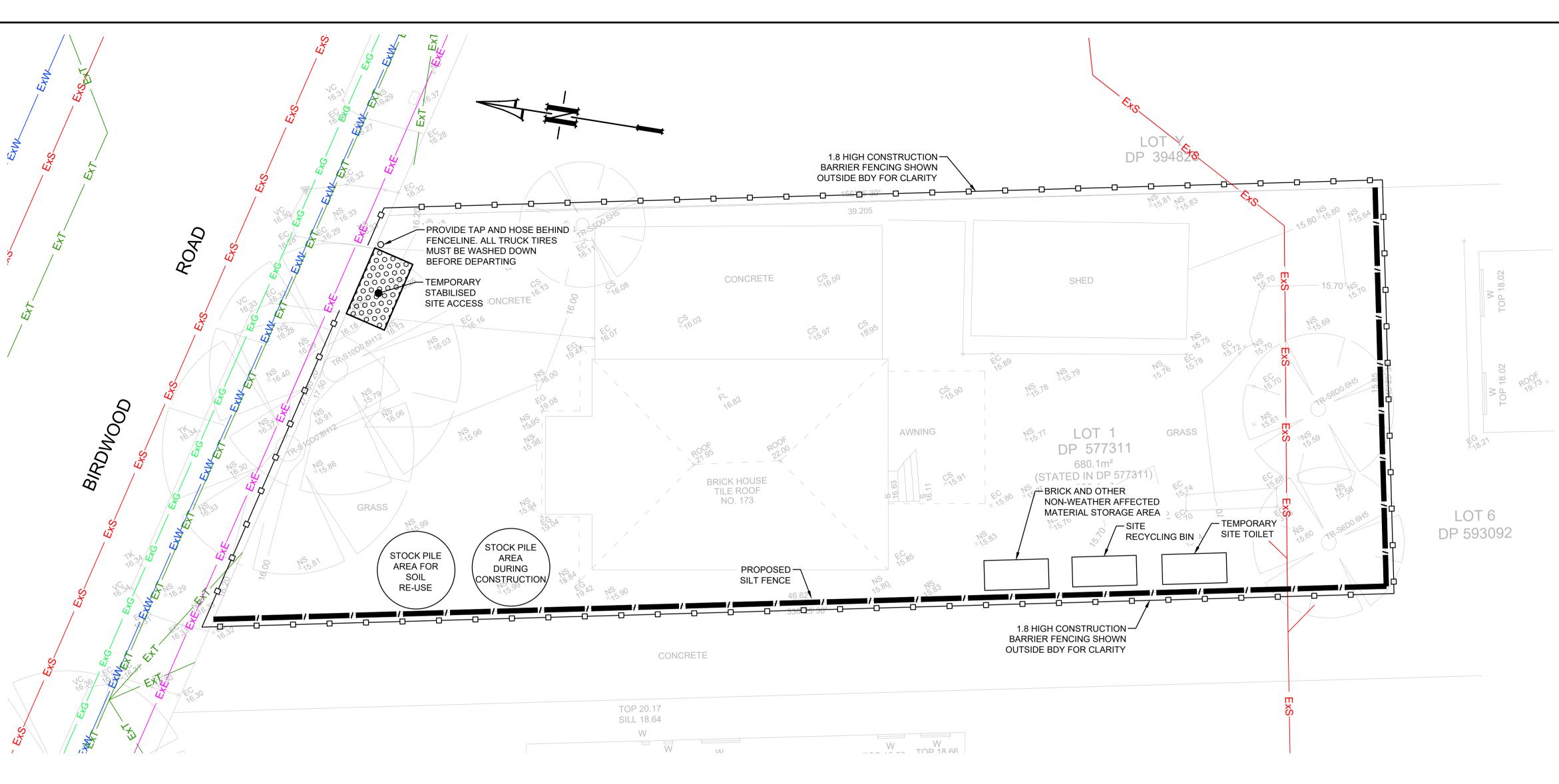
- IMMEDIATELY FOLLOWING SETTING OUT OF THE WORKS, BUT PRIOR TO COMMENCEMENT OF ANY CLEARING OR EARTHWORKS, THE CONTRACTOR AND SUPERINTENDENT SHALL WALK THE SITE TO NOMINATE THE LOCATIONS AND TYPES OF SEDIMENT AND EROSION CONTROL MEASURES TO BE ADOPTED. THESE MEASURES SHALL BE IMPLEMENTED PRIOR TO ANY CLEARING OR EARTHWORKS AND MAINTAINED UNTIL THE WORKS ARE COMPLETED AND NO LONGER POSE AN EROSION HAZARD, UNLESS OTHERWISE APPROVED BY THE SUPERINTENDENT.
- IMMEDIATELY FOLLOWING SETTING OUT OF THE WORKS, BUT PRIOR TO COMMENCEMENT OF ANY CLEARING OR EARTHWORKS, THE CONTRACTOR AND SUPERINTENDENT SHALL WALK THE SITE TO IDENTIFY AND MARK TREES WHICH ARE TO BE PRESERVED. NOTWITHSTANDING THE ABOVE.THE CONTRACTOR SHALL TAKE ALL REASONABLE PRECAUTIONS TO MINIMISE DISTURBANCE TO EXISTING VEGETATION AND GROUND COVER OUTSIDE THE MINIMUM AREAS REQUIRED TO COMPLETE THE WORKS AND SHALL BE RESPONSIBLE FOR RECTIFICATION, AT ITS OWN COST, OF ANY DISTURBANCE BEYOND THOSE AREAS.
- 3. PROVIDE GULLY GRATE INLET SEDIMENT TRAPS AT ALL GULLY PITS. 4. PROVIDE SILT FENCING ALONG PROPERTY LINE AS DIRECTED BY
- SUPERINTENDENT. 5. ADDITIONAL CONTROL DEVICES TO BE PLACED WHERE DIRECTED BY THE PRINCIPLE.
- 3. ALTERNATIVE DESIGNS TO BE APPROVED BY SUPERINTENDENT PRIOR TO CONSTRUCTION.
- 7. WASH DOWN/RUMBLE AREA TO BE CONSTRUCTED WITH PROVISIONS RESTRICTING ALL SILT AND TRAFFICKED DEBRIS FROM ENTERING THE STORMWATER SYSTEM.
- 8. NO WORK OR STOCKPILING OF MATERIALS TO BE PLACED OUTSIDE OF SITE WORK BOUNDARY.
- 9. APPROPRIATE EROSION AND SEDIMENT CONTROLS TO BE USED TO PROTECT STOCKPILES AND MAINTAINED THROUGH OUT CONSTRUCTION.
- 10. IT IS THE CONTRACTORS RESPONSIBILITY TO TAKE DUE CARE OF NATURAL VEGETATION. NO CLEARING IS TO BE UNDERTAKEN WITHOUT PRIOR APPROVAL FROM THE SUPERINTENDENT.
- 11. TO AVOID DISTURBANCE TO EXISTING TREES, EARTHWORKS WILL BE
- MODIFIED AS DIRECTED ON-SITE BY THE SUPERINTENDENT. 12. THE LOCATION OF EROSION AND SEDIMENTATION CONTROLS WILL BE DETERMINED ON SITE BY THE SUPERINTENDENT.
- 13. ACCESS TRACKS THROUGH THE SITE WILL BE LIMITED TO THOSE DETERMINED BY THE SUPERINTENDENT AND THE CONTRACTOR PRIOR TO ANY WORK COMMENCING.
- 14. ALL SETTING OUT IS THE RESPONSIBILITY OF THE CONTRACTOR PRIOR TO WORKS COMMENCING ON SITE. THE SUPERINTENDENT'S SURVEYOR SHALL PEG ALL ALLOTMENT BOUNDARIES, PROVIDE COORDINATE INFORMATION TO THESE PEGS AND PLACE BENCH MARKS. THE CONTRACTOR SHALL SET OUT THE WORKS FROM AND MAINTAIN THESE PEGS.







A ISSUE FOR COMPLYING DEVELOPMENT CERTIFICATE Issue Description 1 0 1cm at full size	03/05/2024 Date	SFK Designed	EH	OC Checked	Fuvis Building Design	Cante Banks Counc
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SILT FENCE NOTES:

1. FILTER CLOTH TO BE FASTENED SECURELY TO POSTS WITH GALVANISED WIRE TIES, STAPLES OR ATTACHMENT BELTS.

2. POSTS SHOULD NOT BE SPACED MORE THAN 3.0m

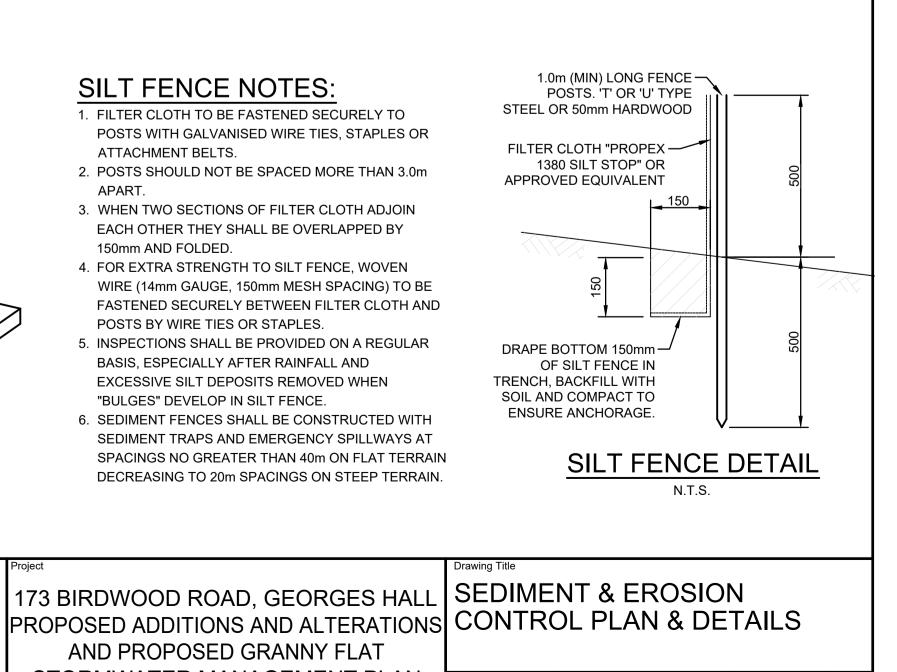
3. WHEN TWO SECTIONS OF FILTER CLOTH ADJOIN EACH OTHER THEY SHALL BE OVERLAPPED BY 150mm AND FOLDED.

4. FOR EXTRA STRENGTH TO SILT FENCE, WOVEN WIRE (14mm GAUGE, 150mm MESH SPACING) TO BE FASTENED SECURELY BETWEEN FILTER CLOTH AND POSTS BY WIRE TIES OR STAPLES.

5. INSPECTIONS SHALL BE PROVIDED ON A REGULAR BASIS, ESPECIALLY AFTER RAINFALL AND EXCESSIVE SILT DEPOSITS REMOVED WHEN

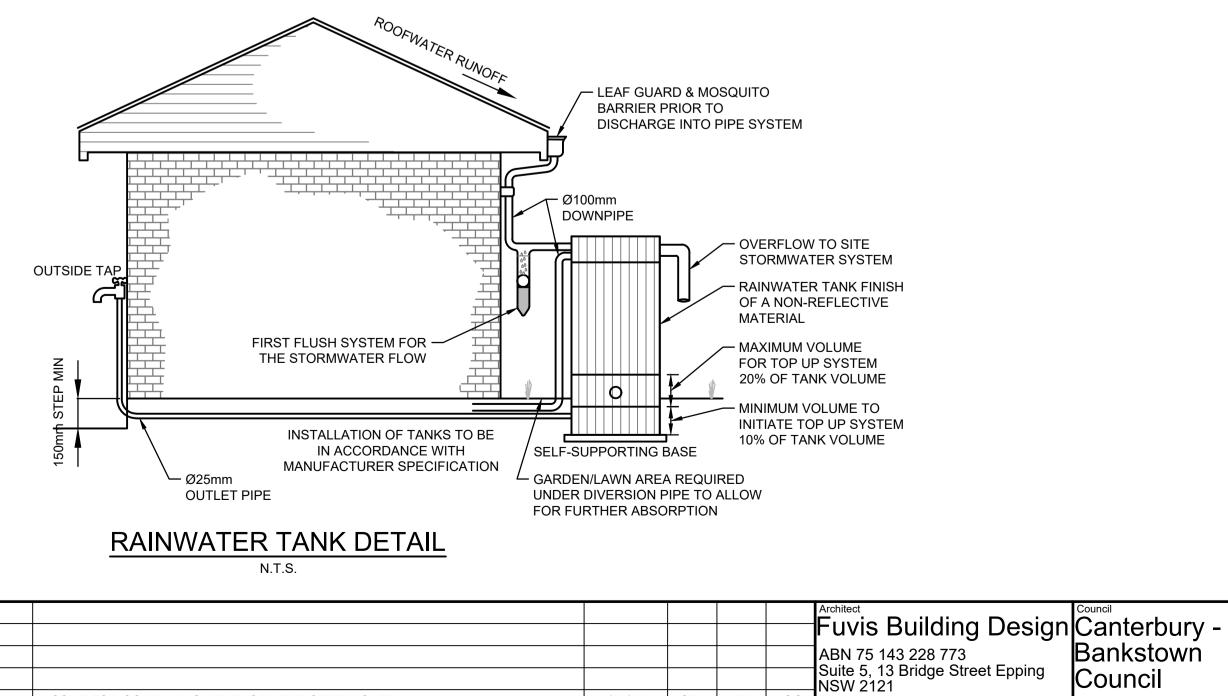
"BULGES" DEVELOP IN SILT FENCE. 6. SEDIMENT FENCES SHALL BE CONSTRUCTED WITH

SEDIMENT TRAPS AND EMERGENCY SPILLWAYS AT SPACINGS NO GREATER THAN 40m ON FLAT TERRAIN DECREASING TO 20m SPACINGS ON STEEP TERRAIN.



Scale A1	Project No.	Dwg. No.	Issue
As Shown	240102	102	Α

	Stormwa	Stormwater Drainage System Maintenance Schedule					
Maintenance Action	Frequency	Responsibility					
General							
Inspect roof drainage system of building and remove any debris/sludge	Six Monthly	Strata/Maintenance Contractor	Remove any leaves or debris a blockages. Pits downstream of				
Inspect pits and trench drains on site and remove debris/litter/sludge	Monthly or following Rain Period	Strata/Maintenance Contractor	Remove grate. Remove any de				
Inspect site for litter and floatable debris and remove	Fortnightly	Strata/Maintenance Contractor	Remove litter from site and sw enter into the drainage system				
Storage							
Inspect storage & remove any sediment/sludge in pit	Six monthly	Strata/Maintenance Contractor	Remove grate(s) and screen				
Inspect internal walls of storage (and external, if appropriate) for cracks or spalling	Annually	Strata/Maintenance Contractor	Remove grate(s) to inspect i necessary and repair as requ				
Inspect & remove any debris/litter/mulch etc blocking grates	Six monthly	Strata/Maintenance Contractor	Remove blockages from gra				
Inspect areas draining to the storage(s) & remove debris/mulch/litter etc likely to block screens/grates	Six monthly	Strata/Maintenance Contractor	Remove debris and floatable				
Compare storage volume to volume approved. (Rectify if loss > 5%)	Annually	Strata/Maintenance Contractor	Compare actual storage avail arrange for reconstruction to				
Inspect storages for subsidence near pits	Annually	Strata/Maintenance Contractor	Check along drainage lines				



03/05/2024 SFK EH OC

ISSUE FOR COMPLYING DEVELOPMENT CERTIFICATE

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Issue Description

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Procedure
s and sludge from gutters of building and flush downpipes of building to remove any of downpipes to be cleaned of flushed debris.
debris/litter/sludge from within pits.
sweep all driveway and pathways in order to remove leaves or sediments that may m.
en(s). Remove sediment/sludge build-up.
t internal walls. Repair as required. Clear vegetation from external walls if quired.
rate(s) and check if storage is blocked.
ble material likely to be carried to grates.
vailable with Work-as Executed plans. If volume loss is greater than 5%, to replace the volume lost. Council to be notified of the proposal.
s and at pits for subsidence likely to indicate leakages.

STORAGE TANK NOTES:

- 1. TANK WATER TAPS SHALL BE MARKED "RAINWATER NOT TO HUMAN CONSUMPTION".
- 2. RAINWATER TANKS SHALL BE CONNECTED TO MAINS WATER SUPPLY AS BACKUP.
- 3. THE PUMPS ARE TO BE INSULATED IN ACCORDANCE WITH COUNCIL POLICY.
- 4. PUMPS SHALL PROVIDE MINIMUM 150 kPa PRESSURE. 5. EACH TANK TO BE CONNECTED TO AN OUTDOOR TAP FOR
- IRRIGATION USE. 6. RAINWATER TANKS TO BE CLEANED OUT EVERY 6 MONTHS. 7. WATER TANK AND ASSOCIATED STRUCTURE TO BE THE
- SAME COLOR, OR A COLOR COMPLEMENTARY TO THE DWELLING.
- 8. TOP TANK TO BE BELOW TOP OF NEAREST FENCE, OR 1.8 METERS WHICHEVER IS LESS.
- 9. THE WATER TANK SHOULD BE LOCATED AT LEAST 900mm FROM ANY PROPERTY BOUNDARY.
- 10. PLUMBING FROM THE WATER TANK IS TO BE KEPT SEPARATED FROM THE RETICULATED WATER SUPPLY SYSTEM.
- 11. TANK TO BE BUILT ON SELF-SUPPORTING BASE.
- 12. PROVIDE BACK-FLOW PREVENTION DEVICE AT MAINS WATER METER.
- 13. ROOF DRAINING TO TANK MUST NOT CONTAIN LEAD, TAR BASED PAINTS OR ASBESTOS.
- 14. WATER TO BE DRAWN FROM ANAEROBIC ZONE OF TANK.

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CIVIL & STORMWATER ENGINEERING SERVICES PTY LTD ABN: 27 644 422 506 Shop 1, 143-147 Parramatta Road, Concord, NSW 2137 P:(02) 8397 6500 ENGINEERING SERVICES E:info@esqconsult.com.au

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