STORMWATER MANAGEMENT PLAN:
PROPOSED GRANNY FLAT
65 BULLECOUR AVENUE, MILPERA NSW 2214

GENERAL

G1. THESE DRAWINGS SHALL BE READ IN CONJUNCTION WITH ALL ARCHITECTURAL & OTHER WORKING DRAWINGS, SPECIFICATIONS & WITH SUCH WRITTEN INSTRUCTIONS AS MAY BE ISSUED DURING THE COURSE OF THE CONTRACT.

G2. ALL WORKMANSHIP & MATERIALS SHALL BE IN ACCORDANCE WITH THE REQUIREMENTS OF THE CURRENT EDITION OF THE RELEVANT AUSTRALIAN STANDARDS, THE BUILDING CODE OF AUSTRALIA AND ANY OTHER APPLICABLE AUTHORITY REQUIREMENTS.

G3. ANY CONFLICT BETWEEN THESE NOTES, THE SPECIFICATION, THE DRAWINGS OR ANY OTHER RELEVANT DOCUMENTS SHALL BE REFERRED TO HAMEC DESIGN STUDIO FOR DECISION PRIOR TO PROCEEDING WITH THE WORK.

G4. DIMENSIONS SHALL NOT BE OBTAINED BY SCALING THE DRAWINGS. FOR SETTING OUT DIMENSIONS & LEVELS REFER TO ARCHITECTURAL DRAWINGS.

G5. THE BUILDER SHALL BE RESPONSIBLE FOR THE PROVISION OF ALL SHORING TO MAINTAIN THE STABILITY & INTEGRITY OF EXCAVATIONS & ADJACENT STRUCTURES.

G6. IT IS THE CONTRACTOR'S RESPONSIBILITY TO LOCATE ALL SERVICES PRIOR TO COMMENCEMENT OF NAY EARTHWORKS.

G7. ALL DIMENSIONS ARE IN MILLIMETERS UNLESS NOTED OTHERWISE.

STORMWATER

SW1. ALL LEVELS ARE TO A.H.D. UNO.

SW2. THE STORMWATER SYSTEM IS DESIGNED TO COMPLY WITH COUNCIL'S DESIGN CRITERIA AND TO APPROXIMATELY MAINTAIN EXISTING FLOW PATTERNS.

SW3. OVERLAND FLOW PATHS ARE PRESERVED.

SW4. EXISTING DRAINAGE AND LEVELS ARE BASED ON SURVEY PROVIDED & SHOULD BE ASSUMED TO BE APPROXIMATE. ALLOW TO CONFIRM ALL RELEVANT DETAILS BEFORE PROCEEDING WITH AFFECTED AREAS.

SW5. STORMWATER DESIGN AND WORKS TO COMPLY WITH COUNCIL'S DCP, DESIGN CRITERIA AND AS3500.

SW6. ALL PITS TO BE PRECAST CONCRETE OR F.R..C. UNO.

SW7. DOWNPIPE LOCATIONS SHOULD BE CONFIRMED WITH ARCHITECTURAL PLANS UNO.

SW8. GRADE LOCAL SURFACES INTO PITS TO ENSURE COLLECTION OF WATER & THAT THERE ARE NO AREAS OF PONDING, TYPICAL.

SW9. GRATED TRENCHES AND SILT ARRESTOR PITS TO BE INSPECTED AND CLEANED AFTER PERIODS OF HEAVY RAINFALL.

SW10. TREE ROOTS TO BE AVOIDED DURING PLACEMENT OF DRAINAGE SYSTEM.

SW11. ALL PIPES TO BE **Ø100 UPVC UNO.**

SW12. ALL PIPES TO HAVE 100MIN. COVER IN LANDSCAPED AREAS AND 600 MIN. COVER IN TRAFFICABLE AREAS.

SW13. ALL INLET AND OUTLET PIPES FROM PITS TO BE CONNECTED AT THE HIGHEST POSSIBLE INVERT LEVEL WHILST KEEPING 1% MIN. GRADE UNO.

SW14. FINISHED SURFACES TO BE GRADED AWAY FROM THE DWELLING AND TOWARD THE PITS.

SW15. GRATED TRENCHES TO BE 1% MIN. GRADE THROUGHOUT TO OUTLET PIPE.

SW16. FINISHED CROSSING AND DRIVEWAY LEVELS ARE BASED ON SURFACE LEVELS OF THE EXISTING LAYBACK AND STREET BOUNDARY LEVELS.

SW17. BEFORE COMMENCING CONSTRUCTION OF THE CROSSING AND DRIVEWAY, COUNCIL'S DESIGNED STREET BOUNDARY LEVELS MUST BE OBTAINED AND USED FOR CONSTRUCTION.

EROSION AND SEDIMENT CONTROL NOTES

GENERAL INSTRUCTIONS

1. THIS SOIL AND WATER MANAGEMENT PLAN IS TO BE READ IN CONJUNCTION WITH OTHER ENGINEERING PLANS RELATING TO THIS DEVELOPMENT.
2. CONTRACTORS WILL ENSURE THAT ALL SOIL AND WATER MANAGEMENT WORKS ARE UNDERTAKEN AS INSTRUCTED IN THIS SPECIFICATION AND CONSTRUCTED FOLLOWING THE GUIDELINES OF "MANAGING URBAN STORMWATER SOILS AND CONSTRUCTION", DEPT OF HOUSING, 2004 (BLUE BOOK).
3. ALL SUBCONTRACTORS WILL BE INFORMED OF THEIRRESPONSIBILITIES IN REDUCING THE POTENTIAL FOR SOIL EROSION AND POLLUTION TO DOWNSLOPE AREAS.

LAND DISTURBANCE INSTRUCTIONS

4. DISTURBANCE TO BE NO FURTHER THAN 5 (PREFERABLY METRES FROM THE EDGE OF ANY ESSENTIAL ENGINEERING ACTIVITY AS SHOWN ON APPROVED PLANS. ALL SITE WORKERS WILL CLEARLY RECOGNISE THESE ZONES THAT, WHERE APPROPRIATE, ARE IDENTIFIED WITH BARRIER FENCING (UPSLOPE) AND SEDIMENT FENCING (DOWNSLOPE) OR SIMILAR MATERIALS.
5. ACCESS AREAS ARE TO BE LIMITED TO A MAXIMUM WIDTH OF 10 METRES THE SITE MANAGER WILL DETERMINE AND MARK THE LOCATION OF THESE ZONES ON-SITE. ALL SITE WORKERS WILL CLEARLY RECOGNISE THESE BOUNDARIES THAT, WHERE APPROPRIATE, ARE IDENTIFIED WITH BARRIER FENCING (UPSLOPE) AND SEDIMENT FENCING (DOWNSLOPE) OR SIMILAR MATERIALS.
6. ENTRY TO LANDS NOT REQUIRED FOR CONSTRUCTION OR ACCESS IS PROHIBITED EXCEPT FOR ESSENTIAL THINNING OF PLANT GROWTH.
7. WORKS ARE TO PROCEED IN THE FOLLOWING SEQUENCE:
   A. INSTALL ALL BARRIER AND SEDIMENT FENCING WHERE SHOWN ON THE PLAN.
   B. CONSTRUCT THE STABILISED SITE ACCESS.
   C. CONSTRUCT DIVERSION DRAINS AS REQUIRED.
   D. INSTALL MESH AND GRAVEL INLETS FOR ANY ADJACENT KERB INLETS.
   E. INSTALL GEOTEXTILE INLET FILTERS AROUND ANY ON-SITE DROP INLET PITS.
   F. CLEAR SITE AND STRIP AND STOCKPILE TOPSOIL IN LOCATIONS SHOWN ON THE PLAN.
   G. UNDERTAKE ALL ESSENTIAL CONSTRUCTION WORKS ENSURING THAT ROOF AND/OR PAVED AREA STORMWATER SYSTEMS ARE CONNECTED TO PERMANENT DRAINAGE AS SOON AS PRACTICABLE.
   H. GRADE LOT AREAS TO FINAL GRADES AND APPLY PERMANENT STABILISATION (LANDSCAPING) WITHIN 20 DAYS OF COMPLETION OF CONSTRUCTION WORKS.
   I. REMOVE TEMPORARY EROSION CONTROL MEASURES AFTER THE PERMANENT LANDSCAPING HAS BEEN COMPLETED.
5. ENSURE THAT SLOPE LENGTHS DO NOT EXCEED 80 METRES WHERE PRACTICABLE. SLOPE LENGTHS ARE DETERMINED BY SILTATION FENCING AND CATCH DRAIN SPACING.
6. ON COMPLETION OF MAJOR WORKS LEAVE DISTURBED LANDS WITH A SCARIFIED SURFACE TO ENCOURAGE WATER INFILTRATION AND ASSIST WITH KEYING TOPSOIL LATER.

SITE MAINTENANCE INSTRUCTIONS

7. THE SITE SUPERINTENDENT WILL INSPECT THE SITE AT LEAST WEEKLY AND AT THE CONCLUSION OF EVERY STORM EVENT TO:
   A. ENSURE THAT DRAINS OPERATE PROPERLY AND TO EFFECT ANY NECESSARY REPAIRS.
   B. REMOVE SPILLED SAND OR OTHER MATERIALS FROM HAZARD AREAS, INCLUDING LANDS CLOSER THAN 5 METRES FROM AREAS OF LIKELY CONCENTRATED OR HIGH VELOCITY FLOWS ESPECIALLY WATERWAYS AND PAVED AREAS.
   C. REMOVE TRAPPED SEDIMENT WHENEVER THE DESIGN CAPACITY OF THAT STRUCTURE HAS BEEN EXCEEDED.
   D. ENSURE REHABILITATED LANDS HAVE EFFECTIVELY REDUCED THE EROSION HAZARD AND TO INITIATE UPGRADING OR REPAIR AS NECESSARY.
   E. CONSTRUCT ADDITIONAL EROSION AND/OR SEDIMENT CONTROL WORKS AS MIGHT BECOME NECESSARY TO ENSURE THE DESIRED PROTECTION IS GIVEN TO DOWNSLOPE LANDS AND WATERWAYS. MAKE ONGOING CHANGES TO THE PLAN WHERE IT PROVES INADEQUATE IN PRACTICE OR IS SUBJECTED TO CHANGES IN CONDITIONS ON THE WORK-SITE OR ELSEWHERE IN THE CATCHMENT.
   F. MAINTAIN EROSION AND SEDIMENT CONTROL STRUCTURES IN A FULLY FUNCTIONING CONDITION UNTIL ALL EARTHWORK ACTIVITIES ARE COMPLETED AND THE SITE IS REHABILITATED.
8. THE SITE SUPERINTENDENT WILL KEEP A LOGBOOK MAKING ENTRIES AT LEAST WEEKLY, IMMEDIATELY BEFORE FORECAST RAIN AND AFTER RAINFALL. ENTRIES WILL INCLUDE:
   A. THE VOLUME AND INTENSITY OF ANY RAINFALL EVENTS.
   B. THE CONDITION OF ANY SOIL AND WATER MANAGEMENT WORKS.
   C. THE CONDITION OF VEGETATION AND ANY NEED TO IRRIGATE.
   D. THE NEED FOR DUST PREVENTION STRATEGIES.
   E. ANY REMEDIAL WORKS TO BE UNDERTAKEN.

THE LOGBOOK WILL BE KEPT ON-SITE AND MADE AVAILABLE TO ANY AUTHORISED PERSON UPON REQUEST. IT WILL BE GIVEN TO THE PROJECT MANAGER AT THE CONCLUSION OF THE WORKS.

SEDIMENT CONTROL INSTRUCTIONS

9. SEDIMENT FENCES WILL BE INSTALLED AS SHOWN ON THE PLAN AND ELSEWHERE AT THE DISCRETION OF THE SITE SUPERINTENDENT TO CONTAIN SOIL AS NEAR AS POSSIBLE TO THEIR SOURCE.
10. SEDIMENT FENCES WILL NOT HAVE CATCHMENT AREAS EXCEEDING 900 SQUARE METRES AND HAVE A STORAGE DEPTH OF AT LEAST 0.6 METRES.
11. SEDIMENT REMOVED FROM ANY TRAPPING DEVICES WILL BE RELOCATED WHERE FURTHER POLLUTION TO DOWNSLOPE LANDS AND WATERWAYS CANNOT OCCUR.
12. STOCKPILES ARE NOT TO BE LOCATED WITHIN 5 METRES OF HAZARD AREAS INCLUDING AREAS OF HIGH VELOCITY FLOWS SUCH AS WATERWAYS, PAVED AREAS AND DRIVEWAYS.
13. WATER WILL BE PREVENTED FROM DIRECTLY ENTERING THE PERMANENT DRAINAGE SYSTEM UNLESS THE CATCHMENT AREA HAS BEEN PERMANENTLY LANDSCAPED AND/OR WATER HAS BEEN TREATED BY AN APPROVED DEVICE.
14. TEMPORARY SEDIMENT TRAPS WILL REMAIN IN PLACE UNTIL AFTER THE LANDS THEY ARE PROTECTING ARE COMPLETELY REHABILITATED.
15. ACCESS TO SITES SHOULD BE STABILISED TO REDUCE THE LIKELIHOOD OF VEHICLES TRACKING SOIL MATERIALS ONTO PUBLIC ROADS AND ENSURE ALL-WEATHER ENTRY/EXIT.

SOIL EROSION CONTROL INSTRUCTIONS

16. EARTH BATTERS WILL BE CONSTRUCTED WITH AS LOW A
    - GRADIENT AS PRACTICABLE BUT NO STEEPER, UNLESS OTHERWISE NOTED, THAN:
    - 2(H):1(V) WHERE SLOPE LENGTH LESS THAN 12 METRES
    - 2.5(H):1(V) WHERE SLOPE LENGTH BETWEEN 12 AND 16 METRES.
    - 3(H):1(V) WHERE SLOPE LENGTH BETWEEN 16 AND 20 METRES.
    - 4(H):1(V) WHERE SLOPE LENGTH GREATER THAN 20 METRES.
17. ALL WATERWAYS, DRAINS, SPILLWAYS AND THEIR OUTLETS WILL BE CONSTRUCTED TO BE STABLE IN AT LEAST THE 1:20 YEAR ARI, TIME OF CONCENTRATION STORM EVENT.
18. WATERWAYS AND OTHER AREAS SUBJECT TO CONCENTRATED FLOWS AFTER CONSTRUCTION ARE TO HAVE A MAXIMUM GROUNDCOVER C-FACTOR OF 0.05 (70% GROUND COVER) WITHIN 10 WORKING DAYS FROM COMPLETION OF FORMATION. FLOW VELOCITIES ARE TO BE LIMITED TO THOSE SHOWN IN TABLE 5-1 OF "MANAGING URBAN STORMWATER – SOILS AND CONSTRUCTION", DEPT OF HOUSING 2004 (BLUE BOOK). FOOT AND VEHICULAR TRAFFIC WILL BE PROHIBITED IN THESE AREAS.
19. STOCKPILES AFTER CONSTRUCTION ARE TO HAVE A MAXIMUM GROUND-COVER C-FACTOR OF 0.1 (60% GROUND-COVER) WITHIN 10 WORKING DAYS FROM COMPLETION OF FORMATION.
20. ALL LANDS, INCLUDING WATERWAYS AND STOCKPILES, DURING CONSTRUCTION ARE TO HAVE A MAXIMUM GROUND-COVER C-FACTOR OF 0.15 (50% GROUND COVER) WITHIN 20 WORKING DAYS FROM INACTIVITY EVEN THOUGH WORKS MAY CONTINUE LATER.
21. FOR AREAS OF SHEET FLOW USE THE FOLLOWING GROUND COVER PLANT SPECIES FOR TEMPORARY JAPANESE MILLET 20 KG/HA AND OATS 20 KG/HA.
22. PERMANENT REHABILITATION OF LANDS AFTER CONSTRUCTION WILL ACHIEVE A GROUND-COVER C-FACTOR OF LESS THAN 0.1 AND LESS THAN 0.05 WITHIN 60 DAYS. NEWLY PLANTED LANDS WILL BE WATERED REGULARLY UNTIL AN EFFECTIVE COVER IS ESTABLISHED AND PLANTS ARE GROWING VIGOROUSLY. FOLLOW-UP SEED AND FERTILISER WILL BE APPLIED AS NECESSARY.
23. REVEGETATION SHOULD BE AIMED AT RE-ESTABLISHING NATURAL SPECIES. NATURAL SURFACE SOILS SHOULD BE REPLACED AND NON-PERSISTANT ANNUAL COVER CROPS SHOULD BE USED.

WASTE CONTROL INSTRUCTIONS

24. ACCEPTABLE BINS WILL BE PROVIDED FOR ANY CONCRETE AND MORTAR SLURRIES, PAINTS, ACID WASHING, LIGHTWEIGHT WASTE MATERIALS AND LITTER. CLEARANCE SERVICES WILL BE PROVIDED AT LEAST DISPOSAL OF WASTE WILL BE IN A MANNER APPROVED BY THE SITE SUPERINTENDENT.
25. ALL POSSIBLE POLLUTANT MATERIALS ARE TO BE STORED WELL CLEAR OF ANY POORLY DRAINED AREAS, FLOOD PRONE AREAS, STREAMBANKS, CHANNELS AND STORMWATER DRAINAGE AREAS. STORE SUCH MATERIALS IN A DESIGNATED AREA UNDER COVER WHERE POSSIBLE AND WITHIN CONTAINMENT BUNDS.
26. ALL SITE STAFF AND SUB-CONTACTORS ARE TO BE INFORMED OF THEIR OBLIGATION TO USE WASTE CONTROL FACILITIES PROVIDED.
27. ANY DE-WATERING ACTIVITIES ARE TO BE CLOSELY MONITORED TO ENSURE THAT WATER IS NOT POLLUTED BY SEDIMENT, TOXIC MATERIALS OR PETROLEUM PRODUCTS.
28. PROVIDE DESIGNATED VEHICULAR WASHDOWN AND MAINTENANCE AREAS WHICH ARE TO HAVE CONTAINMENT BUNDS.

STANDARD LINE TYPES, SYMBOLS & ABBREVIATIONS

- STORMWATER PIPE CONNECTED TO RAINWATER TANK
- STORMWATER DRAINAGE PIPE
- AG — SUBSOIL DRAINAGE PIPE BEHIND RETAINING WALL
- STORMWATER RISING MAIN
- STORMWATER PIPE DRAINING TO BASEMENT PUMP-OUT PIT
- RAINWATER OVERFLOW PIPE
- IMPERVIOUS PAVED AREA
- FIRST FLOOR ROOF AREA
- SECOND FLOOR ROOF AREA
- PERVIOUS AREA
- OVERLAND FLOW PATH
- FW — FLOOR WASTE 150X150
- FW — FLOOR WASTE 150Ø
- RWO — RAINWATER OUTLET 300Ø
- HP — HIGH POINT IN GUTTER
- DPS — DOWNPIPE SPREADER Ø 90 mm UPVC
- DP — EXTERIOR DOWNPIPE Ø 90 mm UPVC BOX GUTTER DOWNPIPE Ø 150 mm UPVC
- CO — CLEAN OUT
- IO — INSPECTION OPENING
- VD — VERTICAL DROP
- VR — VERTICAL RISER
- CONCRETE COVER JUNCTION PIT
- GRATED PIT
- LL — LID LEVEL OF PIT
- ILin — INVERT LEVEL OF INLET PIPE
- ILout — INLET LEVEL OF OUTLET PIPE
- TWL — TOP WATER LEVEL
- IL — INLET LEVEL
- TK — TOP OF KERB

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 ON ROAD
UNDER A SEALED ROAD	600mm
UNSEALED ROAD	750mm
PAVED DRIVEWAY	100mm BELOW CONCRETE

PIT SIZES AND DESIGN

DEPTH	MINIMUM PIT SIZE (mm)
UP TO 450mm	450 X 450
450mm 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)

DRAWING REGISTER

NUMBER	NAME	REVISION
SW00	STORMWATER NOTES	A
SW01	GF - STORMWATER DRAINAGE PLAN	A
SW02	STORMWATER DETAILS	A
SW03	EROSION AND SEDIMENT CONTROL PLAN	A

REV	DESCIPTION	ENG	DATE
A	ISSUED FOR CDC	OH	30/07/2024

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COUNCIL: CANTERBURY BANKSTOWN COUNCIL	DRAWING TITLE: STORMWATER NOTES	DRAWN: SB	DESIGNED: OH	DO NOT SCALE DRAWING, USE FIGURED DIMENSIONS ONLY.	SCALE: NTS AT A1 SIZE		
PROJECT: GRANNY FLAT	ADDRESS: 65 BULLECOUR AVENUE, MILPERA NSW 2214	CHECKED: OE	APPROVED: OH	PROJECT No.: EI24-001	DRAWING No.: SW00	REV.: A	VER.: 2

A1 0 20 40 60 80 100 120 140 160 180 200 220 240 260 280 300

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GROUND FLOOR STORMWATER DRAINAGE PLAN

SCALE 1:100 @ A1

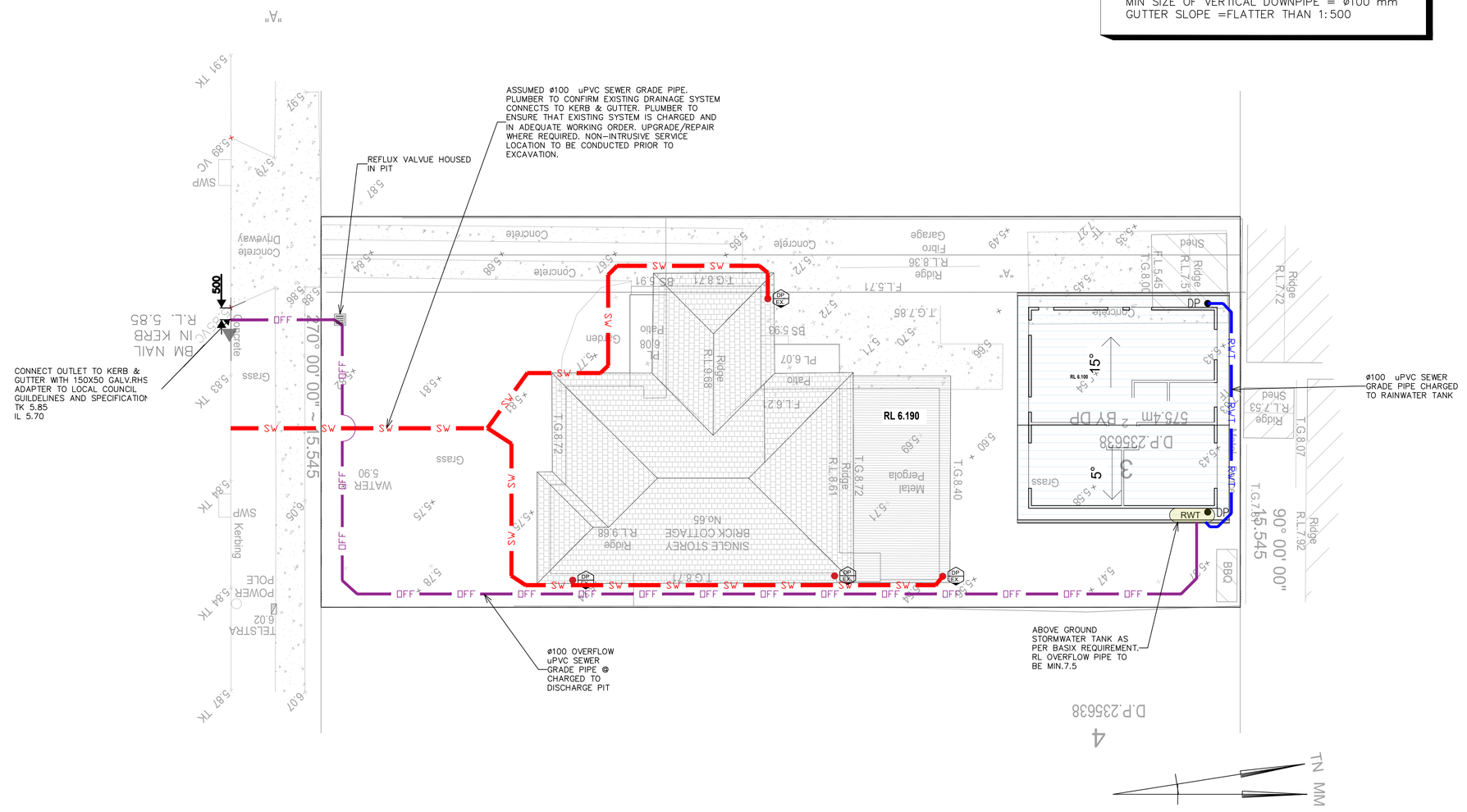
NOTES

1. ALL PIPES ARE TO BE MIN. 100ø uPVC @ MIN 1.0% GRADE UNLESS NOTED OTHERWISE.
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.
3. ALL PIPES TO HAVE MIN 200mm COVER IF LOCATED WITHIN PROPERTY.
4. ALL PITS IN DRIVEWAYS BE HEAVY DUTY GRATES. DIRECT SURFACE FLOW TO ALL GRATED SURFACE INLET PITS.
5. ALL WORK DO BE DONE IN ACCORDANCE WITH AS/NZ 3500.3.2:1998 AND COUNCIL SPECIFICATIONS.
6. LOCATION OF DOWNPIPES & FLOOR WASTES ARE INDICATIVE ONLY. DOWNPIPE & FLOOR WASTE SIZE, LOCATION & QUANTITY TO BE DETERMINED BY BUILDER & IN ACCORDANCE WITH RELEVANT AUSTRALIAN STANDARDS.
7. THIS PLAN IS TO BE READ IN CONJUNCTION WITH THE ARCHITECTURAL, LANDSCAPE AND STRUCTURAL PLANS.
8. ANY DISCREPANCIES OR OMISSIONS SHALL BE REFERRED TO THE DESIGN ENGINEER FOR RESOLUTION.
9. ALL PITS OR GRATES IN TRAFFICABLE AREAS TO BE HEAVY DUTY.
10. ALL GUTTERS WILL BE FITTED WITH LEAF GUARDS AND SHOULD BE INSPECTED AND CLEANED TO ENSURE LEAF LITTER CANNOT ENTER THE DOWNPIPES
11. EXISTING STORMWATER DRAINAGE TO BE UTILISED WHERE CONTRACTOR SEE FIT.

LEGEND :

RWT	STORMWATER PIPE CONNECTED TO RAINWATER TANK
SW	STORMWATER DRAINAGE PIPE
AG AG	DRAINAGE PIPE TO ABSORPTION TANK
RM	STORMWATER RISING MAIN
	STORMWATER PIPE DRAINING TO BASEMENT PUMP-OUT PIT
OFF	RAINWATER OVERFLOW PIPE
	IMPERVIOUS PAVED AREA
	PROPOSED DWELLING ROOF AREA
	MAINED DWELLING ROOF AREA
	PERVIOUS AREA
	OVERLAND FLOW PATH
FW	FLOOR WASTE 150X150
FW	FLOOR WASTE 150ø
RWO	RAINWATER OUTLET 300ø
HP	HIGH POINT IN GUTTER
DP EX	DOWNPIPE SPREADER Ø 90 mm UPVC
DP EX	EXTERIOR DOWNPIPE Ø 90 mm UPVC BOX GUTTER DOWNPIPE Ø 150 mm UPVC
CO	CLEAN OUT
IO	INSPECTION OPENING
VD	VERTICAL DROP
VR	VERTICAL RISER
	CONCRETE COVER JUNCTION PIT
	GRATED PIT
LL	LID LEVEL OF PIT
ILin	INVERT LEVEL OF INLET PIPE
ILout	INLET LEVEL OF OUTLET PIPE
TWL	TOP WATER LEVEL
IL	INLET LEVEL
TK	TOP OF KERB

BULLECOURT ROAD



STORMWATER DESIGN SUMMARY

COUNCIL: CANTERBURY BANKSTOWN COUNCIL

SITE AREA: 575.4 m^2
TOTAL IMPERVIOUS AREA: 300 m^2 (52%)
-ROOFED AREA (NEW): 74 m^2
-ROOFED AREA (MAIN DWELLING): 154 m^2
-PAVED AREA: 72 m^2
-SUPPLEMENTARY AREA: 0 m^2
TOTAL PERVIOUS AREA: 275.4 m^2 (48%)

THEREFORE OSD IS NOT REQUIRED ACCORDING TO THE DEVELOPMENT CONTROL PLAN

EAVE GUTTERS

$^{20}I_5$ =152 mm/hr
MIN. EAVES GUTTER CROSS-SECTIONAL AREA = 10,000 mm^2
MIN SIZE OF VERTICAL DOWNPIPE = ø100 mm
GUTTER SLOPE =FLATTER THAN 1:500

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COUNCIL: CANTERBURY BANKSTOWN COUNCIL	DRAWING TITLE: GF-STORMWATER DRAINAGE PLAN	DRAWN: SB	DESIGNED: OH	DO NOT SCALE DRAWING, USE FIGURED DIMENSIONS ONLY.	SCALE: 1:100 AT A1 SIZE		
PROJECT: GRANNY FLAT	ADDRESS: 65 BULLECOUR AVENUE, MILPERA NSW 2214	CHECKED: OE	APPROVED: OH	PROJECT No.: EI24-001	DRAWING No.: SW01	REV.: A	VER.: 2

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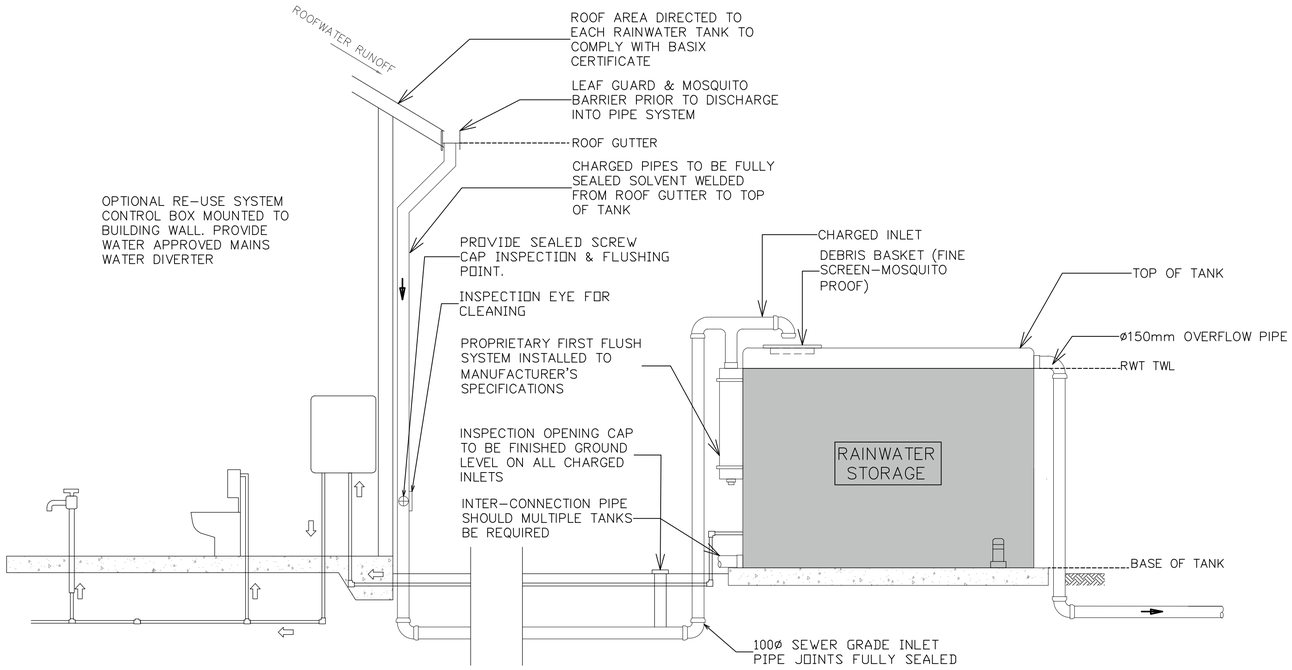
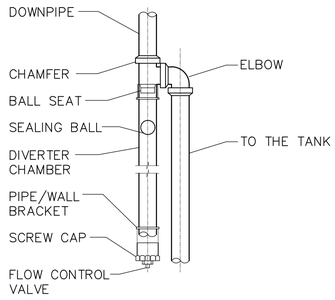


- ROOF GUTTER SCREENING RECOMMENDED
- CONCRETE BASE SLAB TO MANUFACTURER'S SPECIFICATIONS
- VOLUME IS EXCLUSIVE OF AIRSPACE ABOVE OVERFLOW PIPE INVERT
- U.N.O TANK SIZE& CONNECTED SERVICES BE IN ACCORDANCE WITH BASIX REPORT

TYPICAL RAINWATER TANK SECTION

SCALE NTS



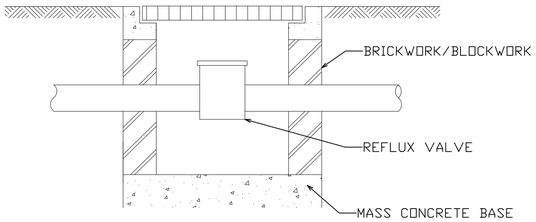
FIRST FLUSH DETAIL

SCALE NTS

LEGEND:
BACKGROUND IS YELLOW
TEXT IS WHITE ON BLACK BACKGROUND

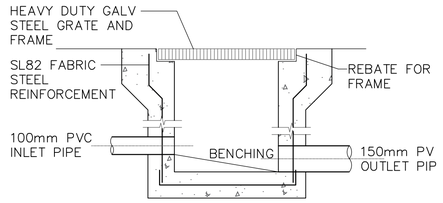
RAINWATER SIGN DETAIL

SCALE NTS

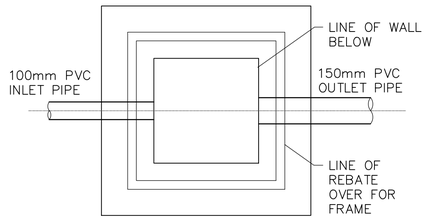


PIT AND REFLUX VALVE

SCALE NTS



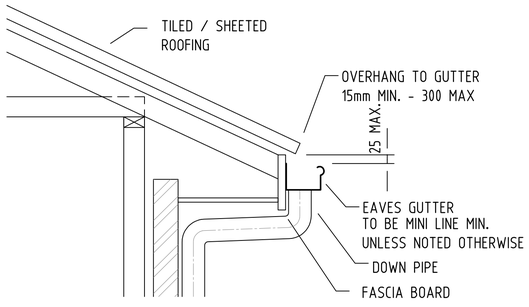
SECTION



PLAN WITHOUT GRATE

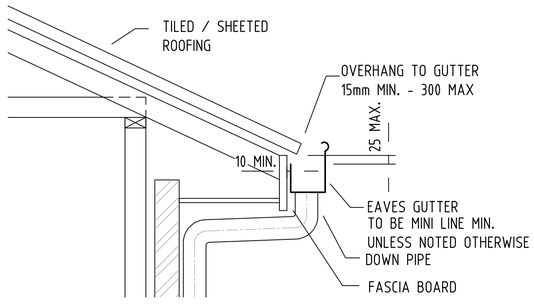
STORMWATER PIT DETAIL

SCALE 1:20



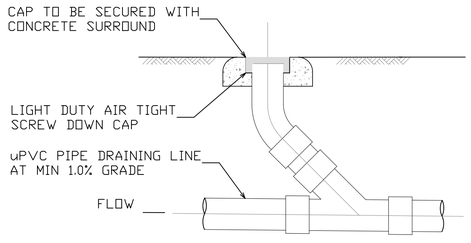
TYPICAL EAVE GUTTER DETAIL – WITH LOW FRONT

SCALE NTS



TYPICAL EAVE GUTTER DETAIL – WITH HIGH FRONT & 10mm GAP TO FACIA

SCALE NTS



TYPICAL CLEANING EYE DETAIL

SCALE NTS

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COUNCIL: CANTERBURY BANKSTOWN COUNCIL	DRAWING TITLE: STORMWATER DRAINAGE DETAILS	DRAWN: SB	DESIGNED: OH	DO NOT SCALE DRAWING, USE FIGURED DIMENSIONS ONLY.	SCALE: NTS AT A1 SIZE				
PROJECT: GRANNY FLAT	ADDRESS: 65 BULLECOUR AVENUE, MILPERA NSW 2214	CHECKED: OE	APPROVED: OH	PROJECT No.: EI24-001	DRAWING No.: SW02	REV.: A	VER.: 2		

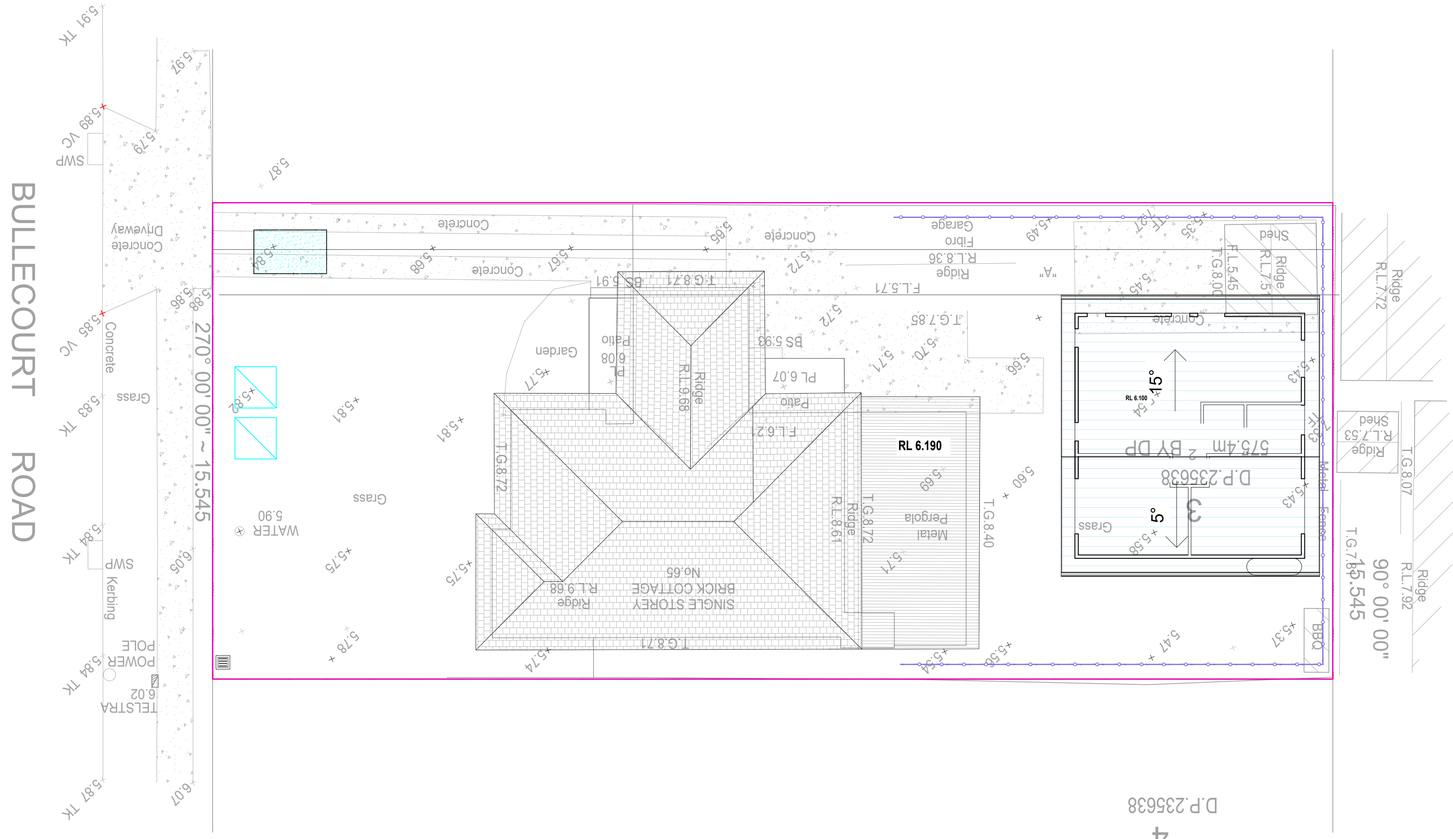
A1 0 20 40 60 80 100 120 140 160 180 200 220 240 260 280 300

EROSION/SEDIMENT CONTROL PLAN

NOTES:

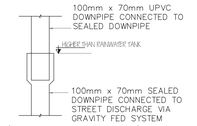
1. DRAWINGS TO BE READ IN CONJUNCTION WITH ARCHITECTURAL PLANS

DIAL 1100 BEFORE YOU DIG
www.1100.com.au



SYMBOLS

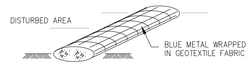
- SITE FENCE
- SEDIMENT FENCE
- STABILISED SITE ACCESS
- MATERIAL STOCK PILES



(FOR CHARGED LINE SYSTEM)
NOTES: Downpipes to be sealed higher than tank charged line system.

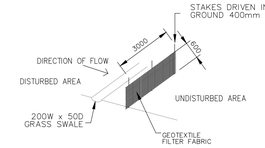
TYPICAL RAINWATER DETAIL

N.T.S



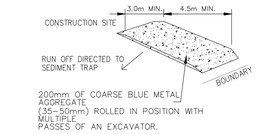
SEDIMENT BARRIER

N.T.S



SEDIMENT FENCE DETAIL

N.T.S

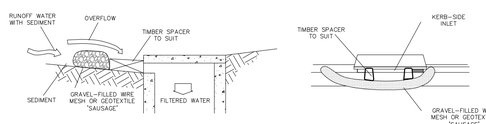


200mm OF COARSE BLUE METAL AGGREGATE (35–50mm) ROLLED IN POSITION WITH MULTIPLE PASSES OF AN EXCAVATOR.

CONSTRUCTION ENTRY/EXIT DETAIL

N.T.S

PLACE GRAVEL SAUSAGE AROUND THE NEAREST DOWNSTREAM COUNCIL STORMWATER PIT IN XXXXX STREET.

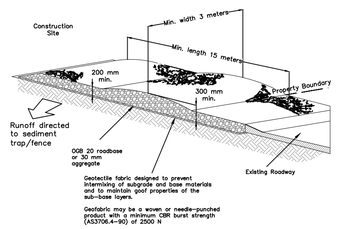


Construction Notes

1. INSTALL FILTERS TO KERB INLETS 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 25 mm TO 50 mm GRAVEL.
3. FROM AND ELLIPTICAL CROSS-SECTION ABOUT 150 mm HIGH X 400 mm WIDE.
4. PLACE THE FILTER AT THE OPENING LEAVING AT LEAST A 100 mm SPACE BETWEEN IT AND THE KERB INLET.
5. FORM A SEAL WITH THE KERB TO PREVENT SEDIMENT BYPASSING FILTER.
6. SANDBAGS FILLED WITH GRAVEL CAN BE SUBSTITUTE FOR THE MESH OR GEOTEXTILE PROVIDING THEY ARE PLACED SO THAT THEY FIRMLY ABUT EACH OTHER AND SEDIMENT-LADEN WATERS CANNOT PASS BETWEEN.

GRAVEL AND MESH INLET FILTER

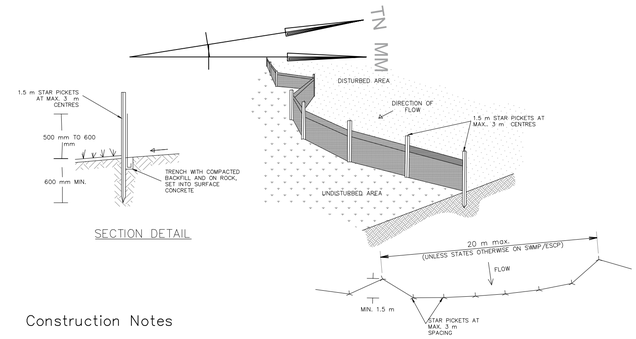
(SOURCE: "SOILS AND CONSTRUCTION",LANDCOM,2004)



Construction Notes

1. Strip the topsoil, level the site and compact the subgrade.
2. Cover the area with needle-punched geotextile.
3. Construct a 200-mm thick pad over the geotextile using road base or 30-mm aggregate.
4. Ensure the structure is at least 15 meters long or to building alignment and at least 3 metres 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.

DETAIL – TEMPORARY STABILISED STIDE ACCESS



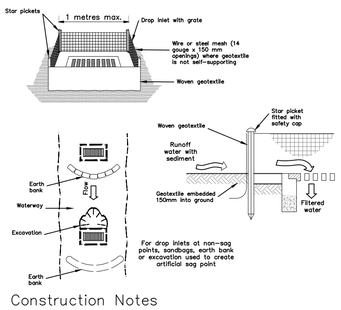
SECTION DETAIL

PLAN

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 150 MM 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 GEOTEXTILEMANUFACTURER.
6. JOIN SECTIONS OF FABRIC AT A SUPPORT POST WITH A 150 MM OVERLAP.

DETAIL – SEDIMENT FENCING



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 show in the drawing
3. Do no cover inlet with geotextile unless the design is adequate to allow for all waters to bypass it.

DETAIL – GEOTEXTILE INLET FILTER

REV	DESCIPTION	ENG	DATE
A	ISSUED FOR CDC	OH	30/07/2024

REVISIONS

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CANTERBURY BANKSTOWN COUNCIL	EROSION/SEDIMENT CONTROL PLAN	SB	OH		1:100	AT A1 SIZE			
PROJECT	ADDRESS	CHECKED	APPROVED	PROJECT No.	DRAWING No.	REV.	VER.		
GRANNY FLAT	65 BULLECOUR AVENUE, MILPERA NSW 2214	OE	OH	EI24-001	SW03	A	2		

A1 0 20 40 60 80 100 120 140 160 180 200 220 240 260 280 300

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