110 - 112 MOUNT VERNON ROAD, MOUNT VERNON
PROPOSED CHILDCARE CENTRE

STORMWATER CONCEPT PLAN

LOCALITY PLAN

N.T.S

DRAWING INDEX	
Drawing No.	DESCRIPTION
ACE171195.SW.DA - 000	COVER SHEET PLAN
ACE171195.SW.DA - 101	STORMWATER CONCEPT PLAN GROUND LEVEL
ACE171195.SW.DA - 102	WSUD TANK DETAILS SHEET 1 OF 3
ACE171195.SW.DA - 103	WSUD TANK DETAILS SHEET 2 OF 3
ACE171195.SW.DA - 104	WSUD TANK DETAILS SHEET 3 OF 3
ACE171195.SW.DA - 105	MISCELLANEOUS DETAILS SHEET

NOT FOR CONSTRUCTION

Issue	Description	Date	Drawn	Design	Checked
E	COUNCIL COMMENTS	30/03/2020	HUV	EHZ	JSF
D	COUNCIL COMMENTS	10/10/2019	HUV	EHZ	JSF
C	COUNCIL COMMENTS	26/03/2019	HUV	EHZ	JAB
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A	ISSUE FOR DEVELOPMENT APPLICATION	30/11/2017	HUV	EHZ	MBR

0 1cm at full size 10cm 20cm

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Client
Vladimir Vanovac

Council
Penrith City Council

Scale

Certification By:
Anthony Hasham

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Project
110 - 112 MOUNT VERNON ROAD, MOUNT VERNON
PROPOSED CHILDCARE CENTRE
STORMWATER CONCEPT PLAN
DEVELOPMENT APPLICATION

Drawing Title
COVER SHEET PLAN

Scale	Project No.	Dwg. No.	Issue
N.T.S. A1	171195	000	E

GENERAL NOTES

1. ALL LINES ARE TO BE Ø90 uPVC 1.0% GRADE UNLESS NOTED OTHERWISE. CHARGED LINES TO BE SEWERGRADE & SEALED.
2. EXISTING SERVICES LOCATIONS SHOWN INDICATIVE ONLY. IT IS THE CONTRACTOR'S RESPONSIBILITY TO LOCATE & LEVEL ALL EXISTING SERVICES PRIOR TO THE COMMENCEMENT OF ANY EARTHWORKS.
3. ALL PIPES TO HAVE MIN 150mm COVER IF LOCATED WITHIN PROPERTY.
4. ALL PITS IN DRIVEWAYS TO BE 450x450 CONCRETE AND ALL PITS IN LANDSCAPED AREAS TO BE 450x450 PLASTIC.
5. PITS LESS THAN 600mm DEEP MAY BE BRICK, PRECAST OR CONCRETE.
6. ALL BALCONIES AND ROOFS TO BE DRAINED AND TO HAVE SAFETY OVERFLOWS IN ACCORDANCE WITH RELEVANT AUSTRALIAN STANDARDS.
7. ALL EXTERNAL SLABS TO BE WATERPROOFED.
8. ALL GRATES TO HAVE CHILD PROOF LOCKS.
9. ALL DRAINAGE WORKS TO AVOID TREE ROOTS.
10. ALL DPs TO HAVE LEAF GUARDS.
11. ALL EXISTING LEVELS TO BE CONFIRMED BY BUILDER PRIOR TO CONSTRUCTION.
12. ALL WORK WITHIN COUNCIL RESERVE TO BE INSPECTED BY COUNCIL PRIOR TO CONSTRUCTION.
13. COUNCIL'S ISSUED FOOTWAY DESIGN LEVELS TO BE INCORPORATED INTO THE FINISHED LEVELS ONCE ISSUED BY COUNCIL.
14. ALL WORK SHALL BE IN ACCORDANCE WITH B.C.A. AND A.S.3500.3.
15. REFER TO LANDSCAPE ARCHITECT'S DRAWINGS FOR LANDSCAPING.
16. CARE TO BE TAKEN AROUND EXISTING SEWER. STRUCTURAL ADVIICE IS REQUIRED FOR SEWER PROTECTION AGAINST ADDITIONAL LOADING FROM NEW PITS, PIPES, RETAINING WALLS AND OSD BASIN WATER LEVELS.
17. THE OSD BASIN / TANK IS TO BE BUILT TO THE CORRECT LEVELS & SIZE AS PER THIS DESIGN. ANY VARIATIONS ARE TO BE DONE UNDER CONSULTATION FROM OUR OFFICE ONLY. ANY AMENDMENTS WITHOUT OUR APPROVAL WOULD RESULT IN ADDITIONAL FEES FOR REDESIGN AT OC STAGE OR IF A SOLUTION CANNOT BE FOUND, RECONSTRUCTION IS REQUIRED UNDER THE CONTRACTOR'S EXPENSES.

LEGEND

- PROPOSED STORMWATER
- EXISTING OPTIC FIBER MAIN (FROM RECORDS)
- EXISTING WATER (FROM RECORDS)
- EXISTING POWER (FROM RECORDS)
- EXISTING TELSTRA (FROM RECORDS)
- GUTTER DOWNPIPE
- ROOF SLOPE
- Ø300 CLEANING EYE
- SURFACE FLOW ARROWS
- DESIGN SURFACE LEVEL
- EXISTING SURFACE LEVEL
- PROPOSED OSD STORAGE
- PROPOSED WSUD / BIO-RETENTION AREA / POND
- PROPOSED PERVIOUS PAVING PARKING

PIPES NOTE:

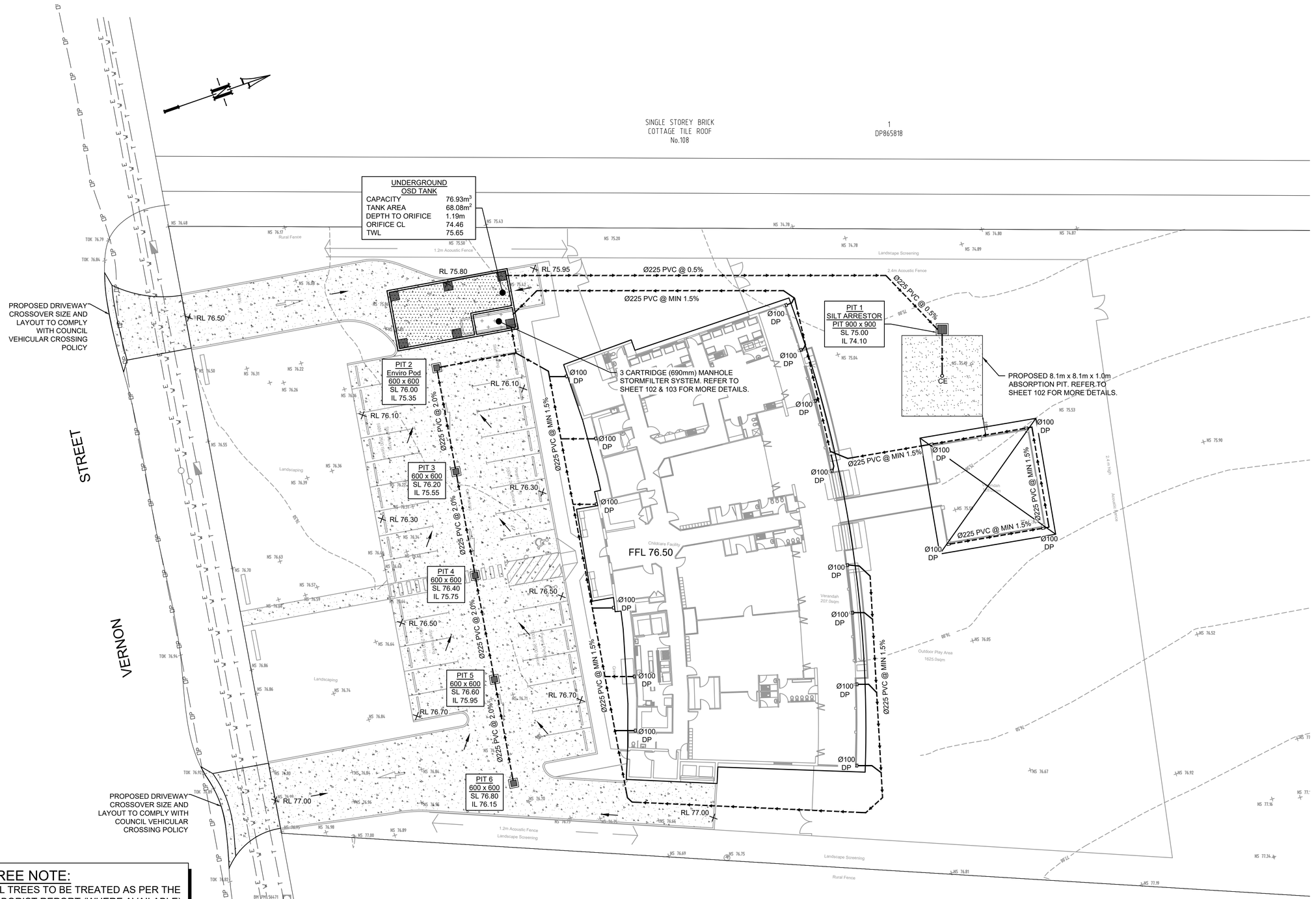
Ø65 PVC @ MIN 1.0%
Ø90 PVC @ MIN 1.0%
Ø100 PVC @ MIN 1.0%
Ø150 PVC @ MIN 1.0%
Ø225 PVC @ MIN 0.5%
Ø300 PVC @ MIN 0.4%
UNLESS NOTED OTHERWISE

TREE NOTE:

ALL TREES TO BE TREATED AS PER THE ARBORIST REPORT (WHERE AVAILABLE).

ABSORPTION PIT CALCULATION

IMPERVIOUS AREA	VOLUME REQUIRED	VOLUME PROVIDED
100 m^2	2.5 m^3	0 m^3
2607 m^2	65.18 m^3	65.61 m^3



GROUND FLOOR PLAN

SCALE 1:200

NOT FOR CONSTRUCTION

Issue	Description	Date	Drawn	Design	Checked
E	COUNCIL COMMENTS	30/03/2020	HUV	EHZ	JSF
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Scale: 0 3 6 9 m — SCALE 1:200 @ A1

Certification By: Anthony Hasham

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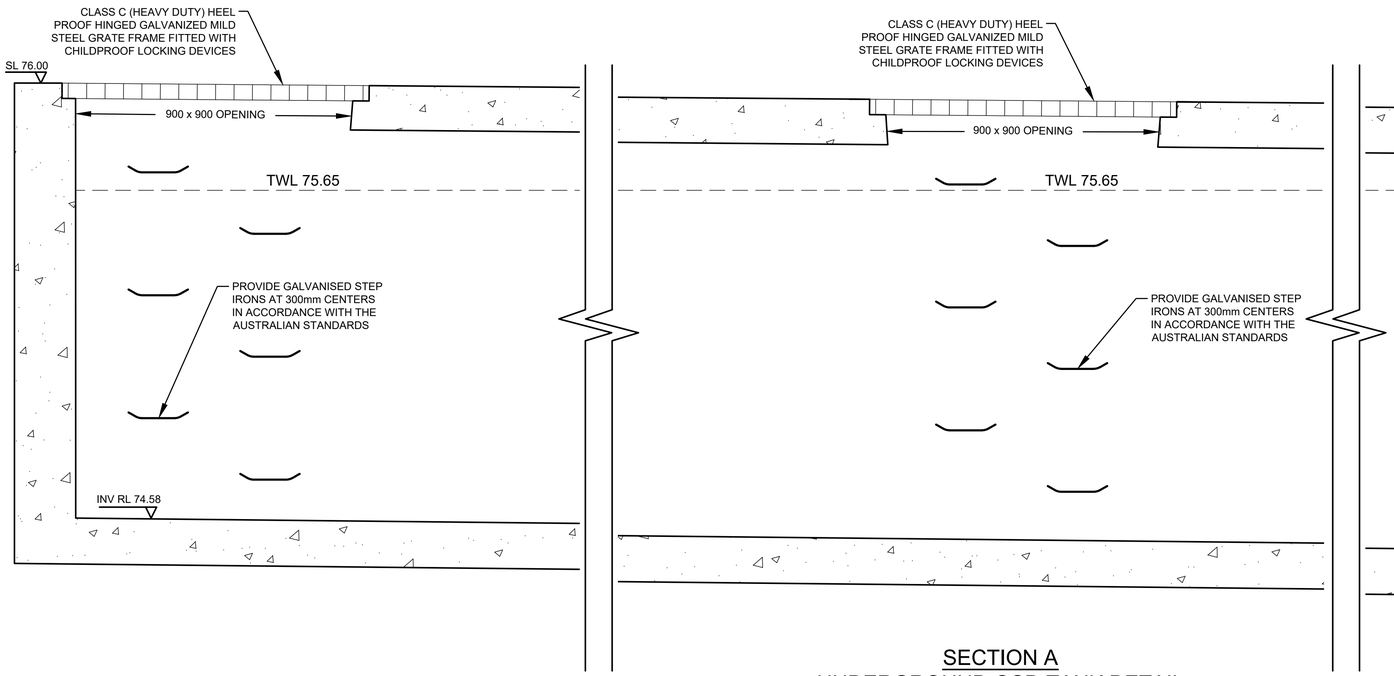
Project: 110 - 112 MOUNT VERNON ROAD, MOUNT VERNON
PROPOSED CHILDCARE CENTRE
STORMWATER CONCEPT PLAN
DEVELOPMENT APPLICATION

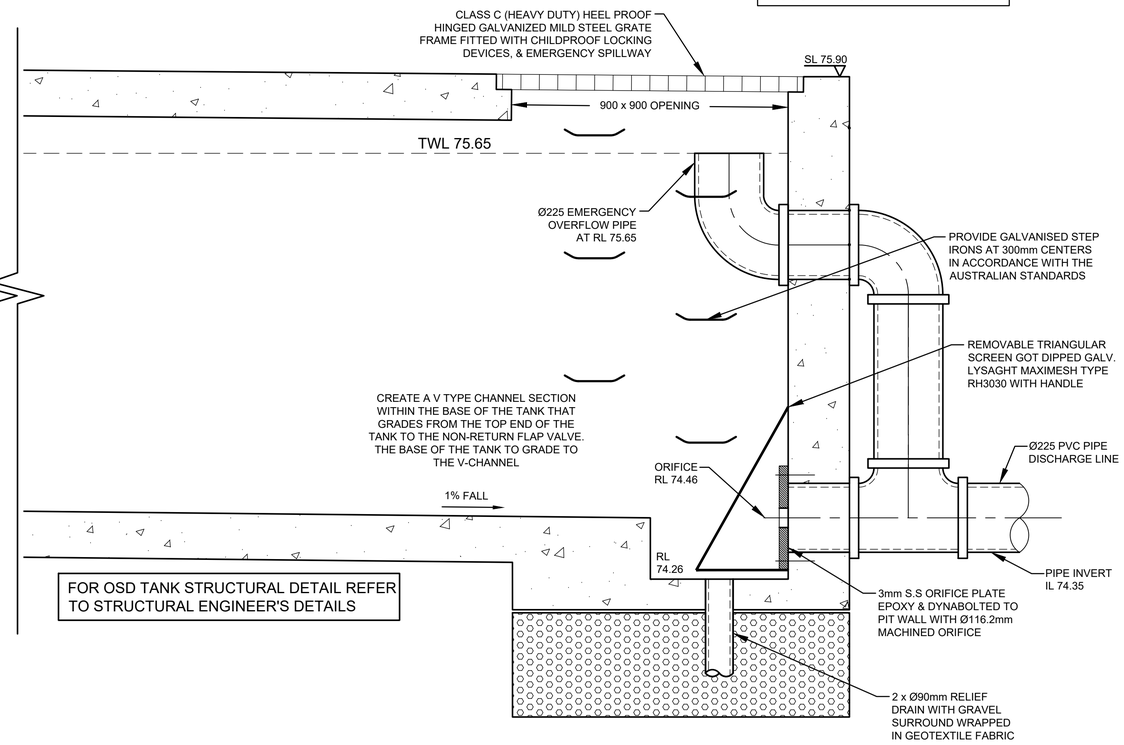
Drawing Title: STORMWATER CONCEPT PLAN

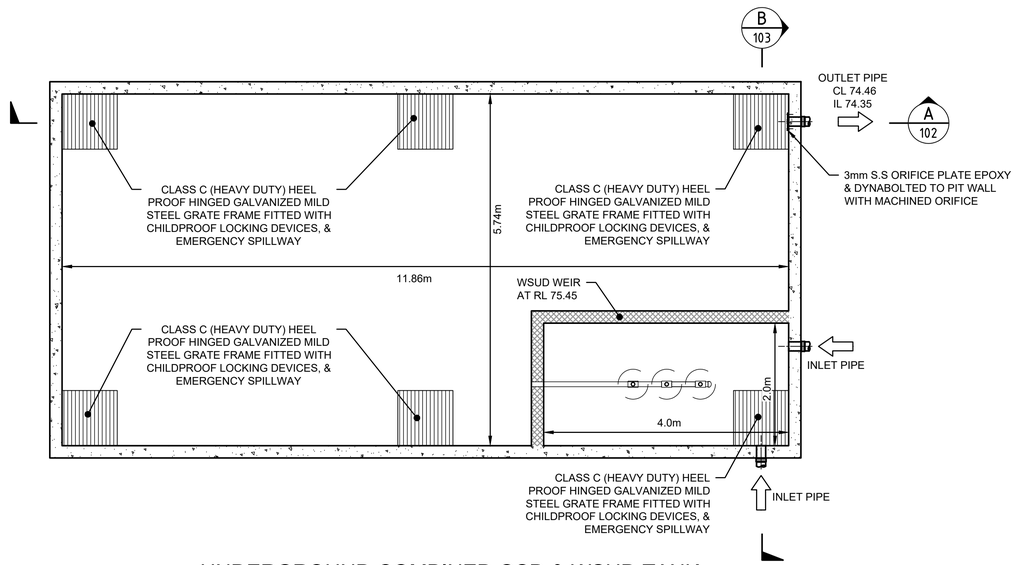
Scale	Project No.	Dwg. No.	Issue
1:200 A1	171195	101	E

DETENTION TANK:	
MAX TANK DEPTH	1.44m
MIN TANK DEPTH	1.42m
AREA	68.08m^2
VOLUME PROVIDED	76.93m^3



SECTION A
UNDERGROUND OSD TANK DETAIL
SCALE 1:10





UNDERGROUND COMBINED OSD & WSUD TANK
PLAN VIEW
SCALE 1:50

NOT FOR CONSTRUCTION

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Scale
0 200 400 600mm
SCALE 1:10 @ A1
0 1 2 3 m
SCALE 1:50 @ A1

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Project
110 - 112 MOUNT VERNON ROAD, MOUNT VERNON
PROPOSED CHILDCARE CENTRE
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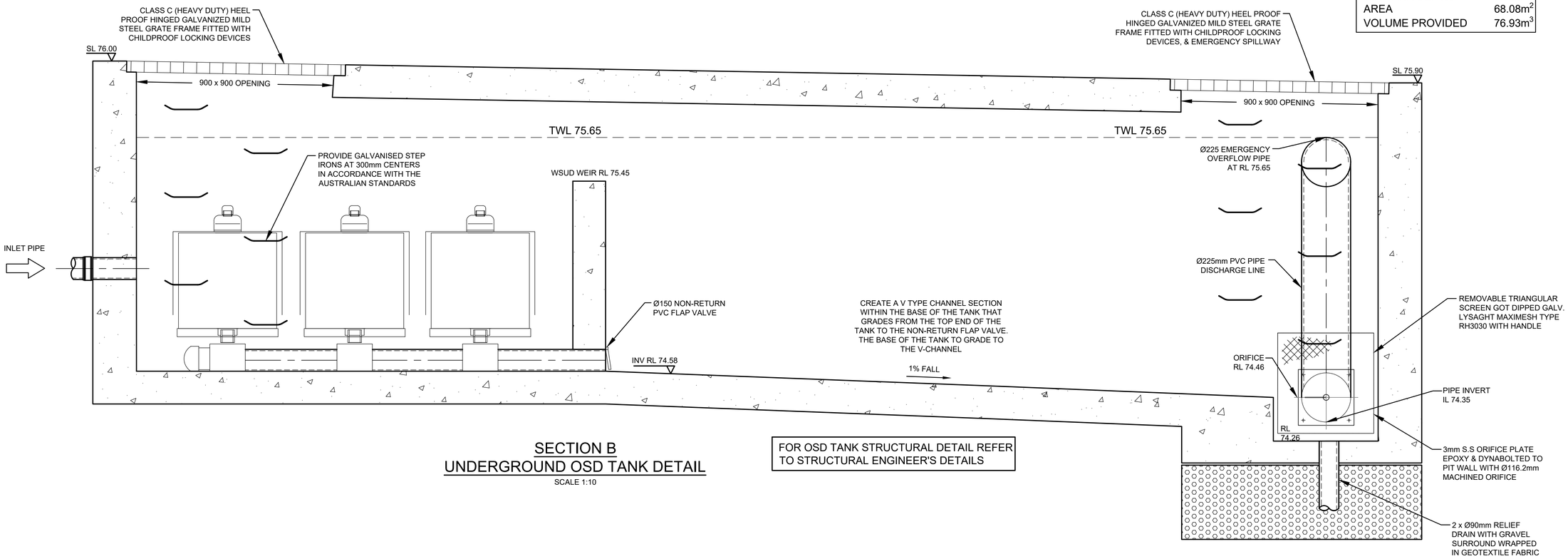
DEVELOPMENT APPLICATION

Drawing Title
WSUD TANK DETAILS
SHEET 1 OF 3

Scale	Project No.	Dwg. No.	Issue
As Shown A1	171195	102	E

DETENTION TANK:	
MAX TANK DEPTH	1.44m
MIN TANK DEPTH	1.42m
AREA	68.08m^2
VOLUME PROVIDED	76.93m^3

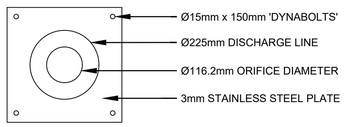


SECTION B
UNDERGROUND OSD TANK DETAIL
SCALE 1:10

FOR OSD TANK STRUCTURAL DETAIL REFER TO STRUCTURAL ENGINEER'S DETAILS

UNDERGROUND OSD TANK STAGED STORAGE CALCULATIONS

DEPTH (mm)	AREA (m²)	CUMULATIVE VOLUME (m³)
0	68.08	0
120	68.08	4.0848
200	68.08	9.5312
300	68.08	16.3392
400	68.08	23.1472
500	68.08	29.9552
600	68.08	36.7632
700	68.08	43.5712
800	68.08	50.3792
900	68.08	57.1872
1000	68.08	63.9952
1100	68.08	70.8032
1190	68.08	76.9304



ORIFICE PLATE DETAIL
SCALE 1:10

OSD CALCULATIONS:

SITE AREA = 2607 m^2
= 0.2607 ha

PSD = 120 l/s/ha
SSR = 280 m^3/ha

THEREFORE:
PSD = 120 x 0.2607
= 31.28 l/s

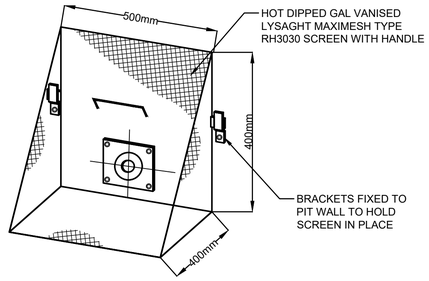
SSR = 280 x 0.2607
= 73.00 m^3

ORIFICE CALCULATIONS:

$Q = C \times A \times (2 \times g \times h)^{0.5}$

SO: A = Q / (C x sqrt(2 x g x h))
= 0.03128 / (0.61 x sqrt(2 x 9.81 x 1.19))
= 0.0106 m^2

THEREFORE:
d = sqrt(4 x A / pi)
= sqrt(4 x 0.0106 / 3.14159)
= 116.2 mm



TRASH SCREEN DETAIL
N.T.S.

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Council: Penrith City Council

Scale: SCALE 1:10 @ A1; SCALE 1:50 @ A1

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Project: 110 - 112 MOUNT VERNON ROAD, MOUNT VERNON
PROPOSED CHILDCARE CENTRE
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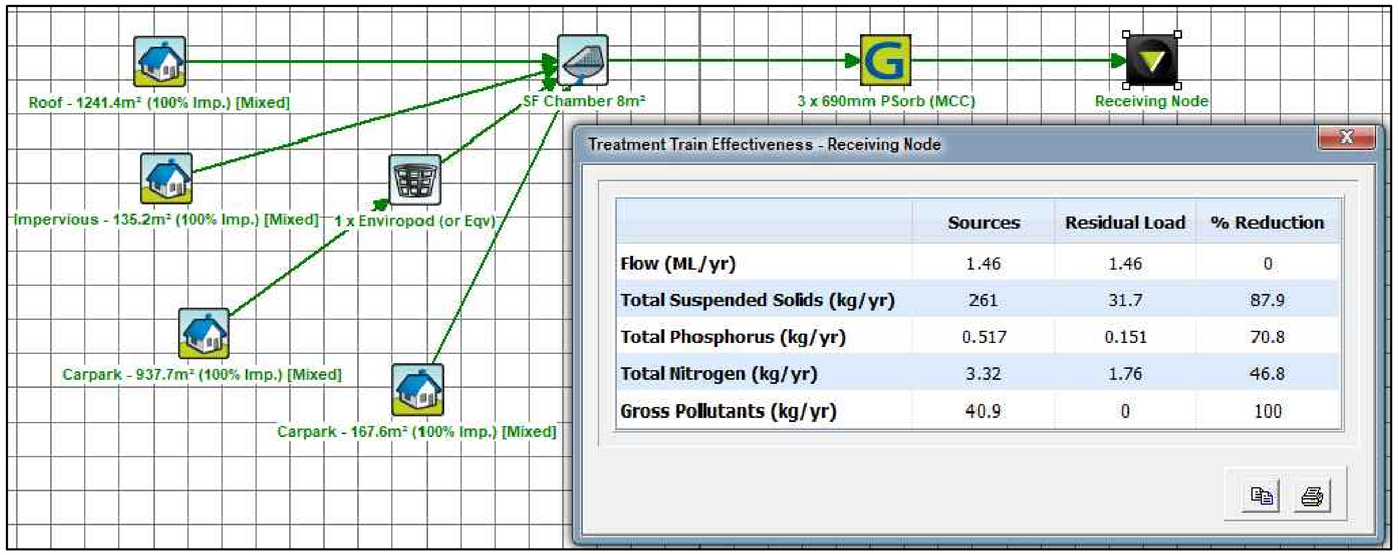
DEVELOPMENT APPLICATION

Drawing Title: WSUD TANK DETAILS
SHEET 2 OF 3

Scale	Project No.	Dwg. No.	Issue
A1 As Shown	171195	103	E



	Sources	Residual Load	% Reduction
Flow (ML/yr)	1.46	1.46	0
Total Suspended Solids (kg/yr)	261	31.7	87.9
Total Phosphorus (kg/yr)	0.517	0.151	70.8
Total Nitrogen (kg/yr)	3.32	1.76	46.8
Gross Pollutants (kg/yr)	40.9	0	100

WSUD MUSIC RESULTS
N.T.S.

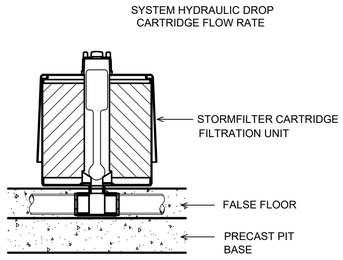
WSUD NOTE:

THE WSUD TANK IS TO BE BUILT TO THE CORRECT LEVELS & SIZE AS PER THIS DESIGN. ANY VARIATIONS ARE TO BE DONE UNDER CONSULTATION FROM OUR OFFICE ONLY. ANY AMENDMENTS WITHOUT OUR APPROVAL WOULD RESULT IN ADDITIONAL FEES FOR REDESIGN AT OC STAGE OR IF A SOLUTION CANNOT BE FOUND, RECONSTRUCTION IS REQUIRED UNDER THE CONTRACTOR'S EXPENSES.

STORMFILTER DESIGN TABLE

- STORMFILTER TREATMENT CAPACITY VARIES BY NUMBER OF FILTER CARTRIDGES INSTALLED AND BY REGION SPECIFIC INTERNAL FLOW CONTROLS. CONVEYANCE CAPACITY IS RATED AT 80L/S.
- ALL PARTS PROVIDED AND INTERNAL ASSEMBLY BY STORMWATER360 AUSTRALIA UNLESS OTHERWISE NOTED.

CARTRIDGE HEIGHT	690		460		310	
SYSTEM HYDRAULIC DROP (H - REQ'D. MIN.)	930		700		550	
TREATMENT BY MEDIA SURFACE AREA L/S/m2	1.4	0.7	1.4	0.7	1.4	0.7
CARTRIDGE FLOW RATE (L/s)	1.42	0.71	0.95	0.47	0.63	0.32

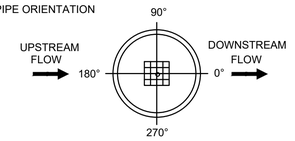


SITE SPECIFIC DATA REQUIREMENTS

STRUCTURE ID	1
WATER QUALITY FLOW RATE (L/S)	-
PEAK FLOW RATE (L/S)	-
RETURN PERIOD OF PEAK FLOW (yrs)	-
# OF CARTRIDGES REQUIRED (8-22)	3
CARTRIDGE HEIGHT (310, 460 or 690mm)	690
MEDIA TYPE (PERLITE, PERLITE/ZEOLITE OR ZPG)	ZPG
PRECAST VAULT WEIGHT	-
PRECAST LID WEIGHT	-

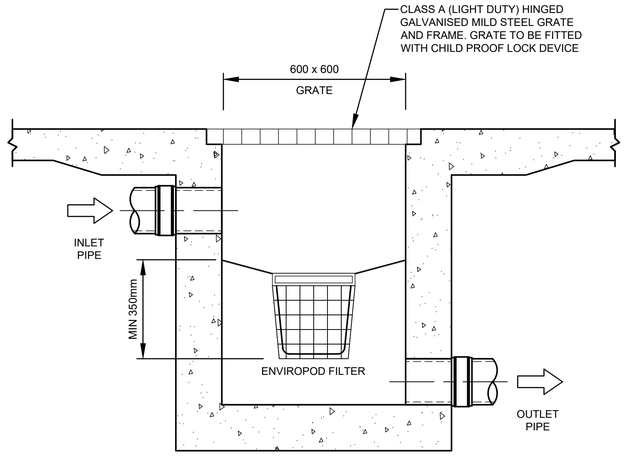
PIPE DATA:	I.L.	MATERIAL	DIAMETER
INLET PIPE #1	74.58	PVC	225
INLET PIPE #2	74.58	PVC	225
OUTLET PIPE	74.35	PVC	225

PIPE ORIENTATION



LADDER		YES/NO
ANTI-FLOTATION BALLAST	N/A	N/A
	N/A	N/A

STORMFILTER TABLE
N.T.S.



PIT 2
DROP PIPE ENVIROPOD CONFIGURATION SECTION
N.T.S.

GENERAL NOTES

1. INLET AND OUTLET PIPING SHALL BE SPECIFIED BY SITE CIVIL ENGINEER (SEE PLANS) AND PROVIDED BY CONTRACTOR. STORMFILTER IS PROVIDED WITH OPENINGS AT INLET AND OUTLET LOCATIONS.
2. IF THE PEAK FLOW RATE, AS DETERMINED BY THE SITE CIVIL ENGINEER, EXCEEDS THE PEAK HYDRAULIC CAPACITY OF THE PRODUCT, AN UPSTREAM BYPASS STRUCTURE IS REQUIRED. PLEASE CONTACT STORMWATER360 FOR OPTIONS.
3. THE FILTER CARTRIDGE(S) ARE SIPHON-ACTUATED AND SELF-CLEANING. THE STANDARD DETAIL DRAWING SHOWS THE MAXIMUM NUMBER OF CARTRIDGES. THE ACTUAL NUMBER SHALL BE SPECIFIED BY THE SITE CIVIL ENGINEER ON SITE PLANS OR IN DATA TABLE BELOW. PRECAST STRUCTURE TO BE CONSTRUCTED IN ACCORDANCE WITH AS3600.
4. FOR SHALLOW, LOW DROP OR SPECIAL DESIGN CONSTRAINTS, CONTACT STORMWATER360 FOR DESIGN OPTIONS.
5. ALL WATER QUALITY PRODUCTS REQUIRE PERIODIC MAINTENANCE AS OUTLINED IN THE O&M GUIDELINES. PROVIDE MINIMUM CLEARANCE FOR MAINTENANCE ACCESS.
6. STRUCTURE AND ACCESS COVERS DESIGNED TO MEET AUSTROADS T44 LOAD RATING WITH 0-2m FILL MAXIMUM.
7. THE STRUCTURE THICKNESSES SHOWN ARE FOR REPRESENTATIONAL PURPOSES AND VARY REGIONALLY.
8. ANY BACKFILL DEPTH, SUB-BASE, AND OR ANTI-FLOTATION PROVISIONS ARE SITE-SPECIFIC DESIGN CONSIDERATIONS AND SHALL BE SPECIFIED BY SITE CIVIL ENGINEER.
9. STORMFILTER BY STORMWATER360:
   SYDNEY (AU) PHONE: (02) 9525 5833,
   BRISBANE (AU) PHONE: (07) 3272 1872.

NOT FOR CONSTRUCTION

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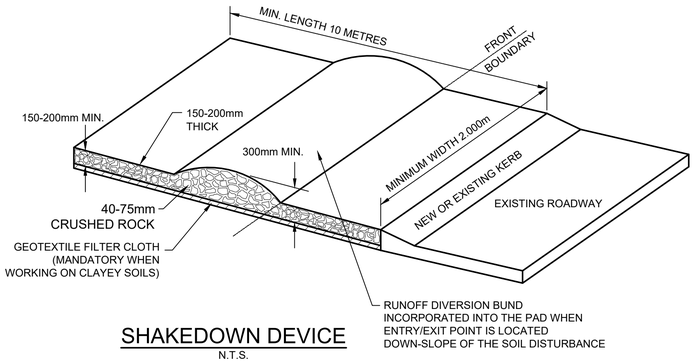
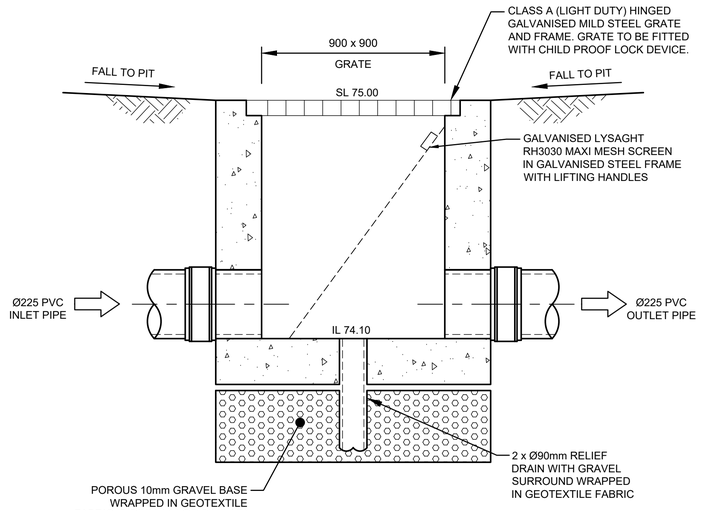
Drawing Title: WSUD TANK DETAILS
SHEET 3 OF 3

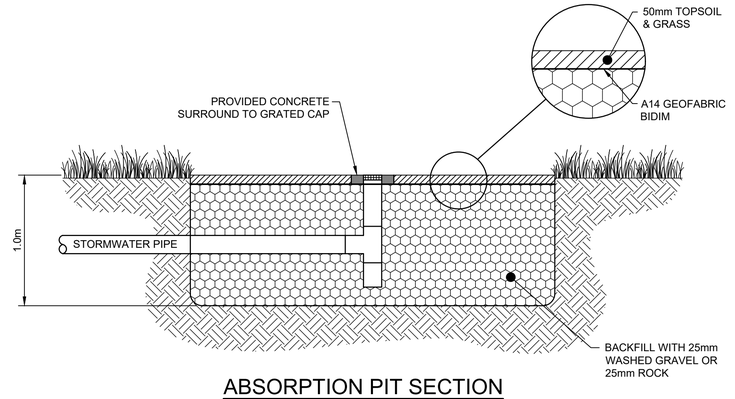
Scale	Project No.	Dwg. No.	Issue
As Shown A1	171195	104	E



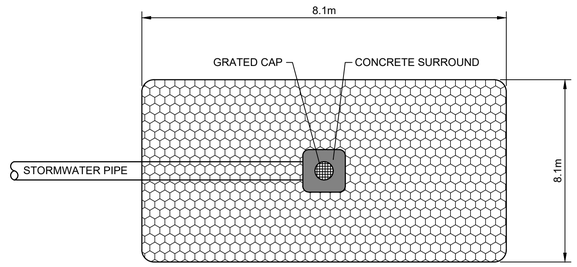
SHAKEDOWN DEVICE
N.T.S.



SILT ARRESTOR PIT 1
SCALE 1:10



ABSORPTION PIT SECTION
N.T.S.

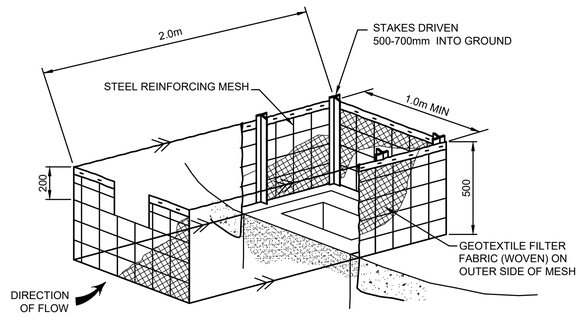


ABSORPTION PIT PLAN
N.T.S.

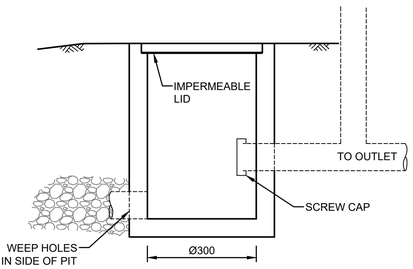
NOTE:
MINIMUM 2.0m SETBACK FROM SIDE / REAR BOUNDARIES

SEDIMENT & EROSION NOTES

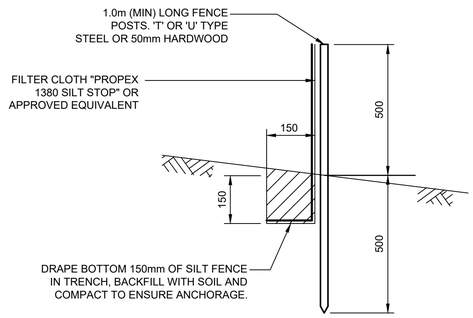
1. IMMEDIATELY FOLLOWING SETTING OUT OF THE WORKS, BUT PRIOR TO COMMENCEMENT OF ANY CLEARING OR EARTHWORKS, THE CONTRACTOR AND SUPERINTENDENT SHALL WALK THE SITE TO NOMINATE THE LOCATIONS AND TYPES OF SEDIMENT AND EROSION CONTROL MEASURES TO BE ADOPTED. THESE MEASURES SHALL BE IMPLEMENTED PRIOR TO ANY CLEARING OR EARTHWORKS AND MAINTAINED UNTIL THE WORKS ARE COMPLETED AND NO LONGER POSE AN EROSION HAZARD, UNLESS OTHERWISE APPROVED BY THE SUPERINTENDENT.
2. 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.
6. 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.
15. PLANS ARE MINIMUM REQUIREMENTS AND ARE TO BE USED AS A GUIDE ONLY. EXACT MEASURES USED SHALL BE DETERMINED ON SITE IN CONJUNCTION WITH PROGRAM OF CONTRACTORS WORKS etc.



FIELD INLET SEDIMENT TRAP
N.T.S.



CLEANING EYE DETAIL
N.T.S.



SILT FENCE DETAIL
N.T.S

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 APART.
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.

NOT FOR CONSTRUCTION

Issue	Description	Date	Drawn	Design	Checked
E	COUNCIL COMMENTS	30/03/2020	HUV	EHZ	JSF
D	COUNCIL COMMENTS	10/10/2019	HUV	EHZ	JSF
C	COUNCIL COMMENTS	26/03/2019	HUV	EHZ	JAB
B	COUNCIL COMMENTS	27/02/2018	HUV	JTF	MBR
A	ISSUE FOR DEVELOPMENT APPLICATION	30/11/2017	HUV	EHZ	MBR

1 0 1cm at full size 10cm 20cm

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Council: Penrith City Council

Scale: 0 200 400 600mm — SCALE 1:10 @ A1

Certification By: Anthony Hasham

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Project: 110 - 112 MOUNT VERNON ROAD, MOUNT VERNON
PROPOSED CHILDCARE CENTRE
STORMWATER CONCEPT PLAN
DEVELOPMENT APPLICATION

Drawing Title: MISCELLANEOUS DETAILS SHEET

Scale	Project No.	Dwg. No.	Issue
As Shown A1	171195	105	E