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

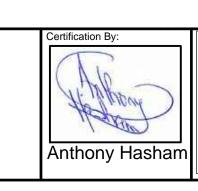


						Architect	Client
						Project Work	Vladimir Van
С	COUNCIL COMMENTS	26/03/2019	HUV	EHZ	JAB	Design Pty	
В	COUNCIL COMMENTS	27/02/2018	HUV	JTF	MBR	PO Box 5138, Chittaway	Council
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Issue	Description	Date	Drawn	Design		M : 0412 637 875	
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DRAWING INDEXDrawing No.DESCRIPTIONACE171195.SW.DA - 000COVER SHEET PLANACE171195.SW.DA - 101STORMWATER CONCEPT PLAN GROUND LEVELACE171195.SW.DA - 102WSUD TANK DETAILS SHEET 1 OF 3ACE171195.SW.DA - 103WSUD TANK DETAILS SHEET 2 OF 3ACE171195.SW.DA - 104WSUD TANK DETAILS SHEET 3 OF 3ACE171195.SW.DA - 105MISCELLANEOUS DETAILS SHEET								
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ACE171195.SW.DA - 104 WSUD TANK DETAILS SHEET 3 OF 3	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 - 105 MISCELLANEOUS DETAILS SHEET	ACE171195.SW.DA - 104	WSUD TANK DETAILS SHEET 3 OF 3						
	ACE171195.SW.DA - 105	MISCELLANEOUS DETAILS SHEET						

novac
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110 - 112 MOUNT VERNON PROPOSED CHIL STORMWATER DEVELOPMENT

USTRALIAN

GINEERS

PTY LTD - A.C.N. 084 059 941 SHOP 2-141 CONCORD RD NORTH STRATHFIELD NSW 213

PH: (02) 9763 I500 FX: (02) 9763 I5I5 EMAIL: info@aceeng.com.au

ENGINEERS.

NSULTING

		NOT FOR CONST	RUCTION	
N ROAD, MOUNT VERNON LDCARE CENTRE CONCEPT PLAN	Drawing Title COVER	SHEET PLAN		
T APPLICATION	Scale A1 N.T.S.	Project No. 171195	Dwg. No. 000	lssue C

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

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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 STORMWATER

PROPOSED OSD STORAGE

PROPOSED WSUD / BIO-RETENTION AREA / POND

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 OTHERWIS

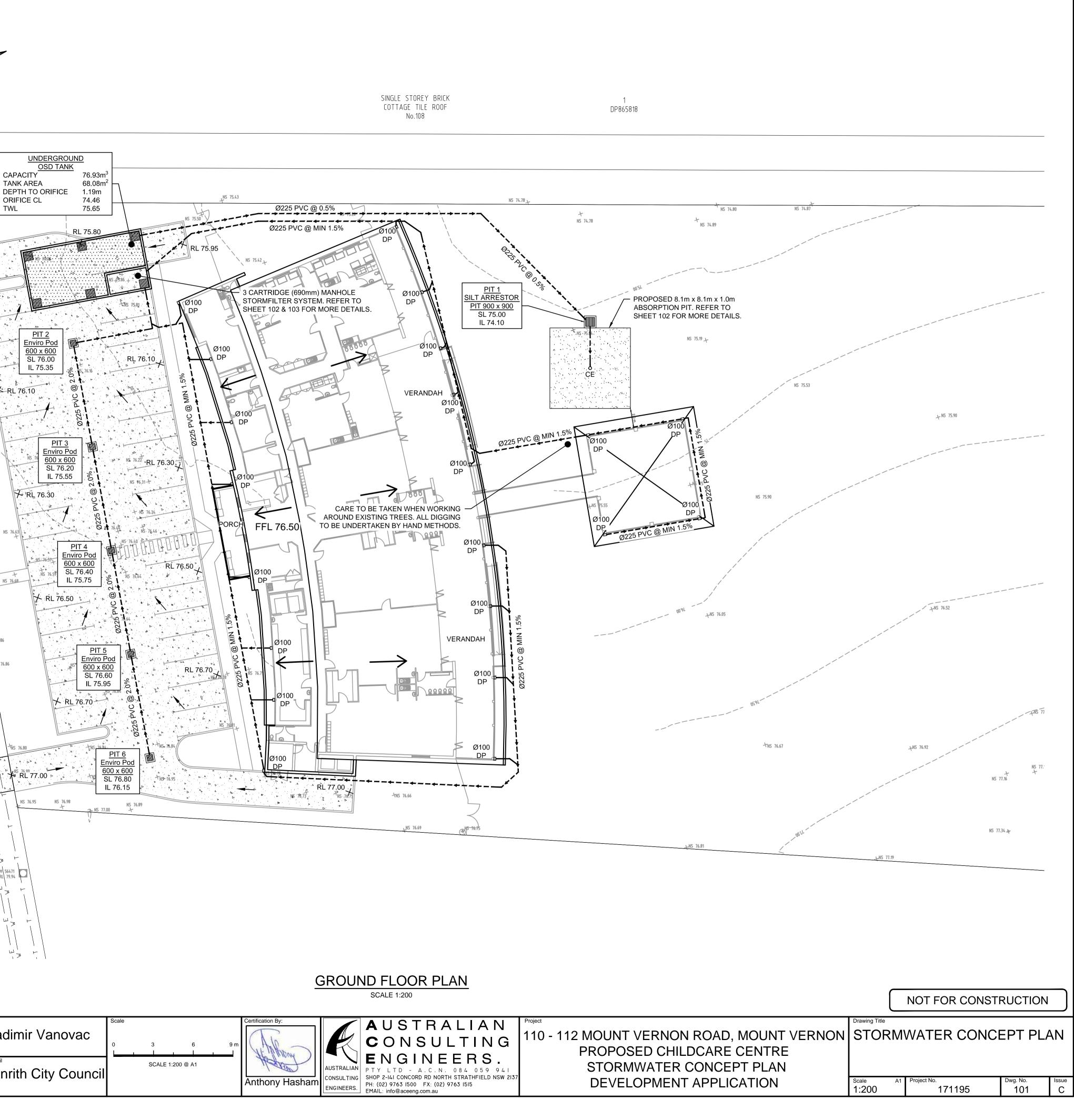
CAPACITY TANK AREA 15 76 48 ORIFICE CL TWL د TOK 76.79 TOK 76.84 × DA D ₩ . RL_76.50 PROPOSED DRIVEWAY[~] CROSSOVER SIZE AND LAYOUT TO COMPLY A D 'S WITH COUNCIL VEHICULAR CROSSING POLICY NS 76.50 🖈 RL 76.10 STREET NS 76.55 N ≁ RL 76.30 NS 76.63 NS 76.70 NS 76.68 VERNON TOK 76.94 5 76.86 PROPOSED DRIVEWAY CROSSOVER SIZE AND LAYOUT TO COMPLY WITH COUNCIL VEHICULAR CROSSING POLICY TREE NOTE: ALL TREES TO BE TREATED AS PER THE ARBORIST REPORT (WHERE AVAILABLE) ABSORPTION PIT CALCULATION

<u>PIT 2</u>

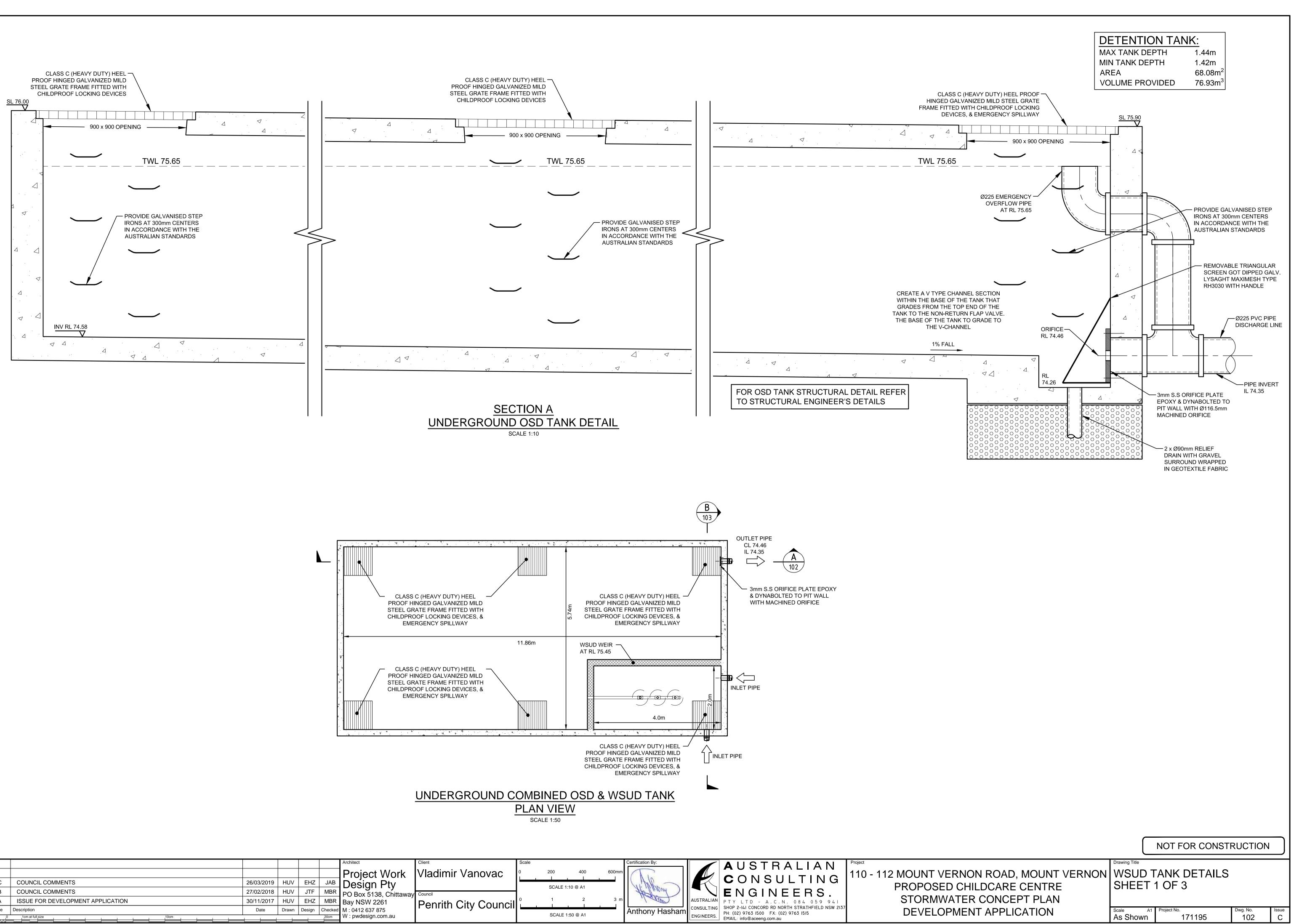
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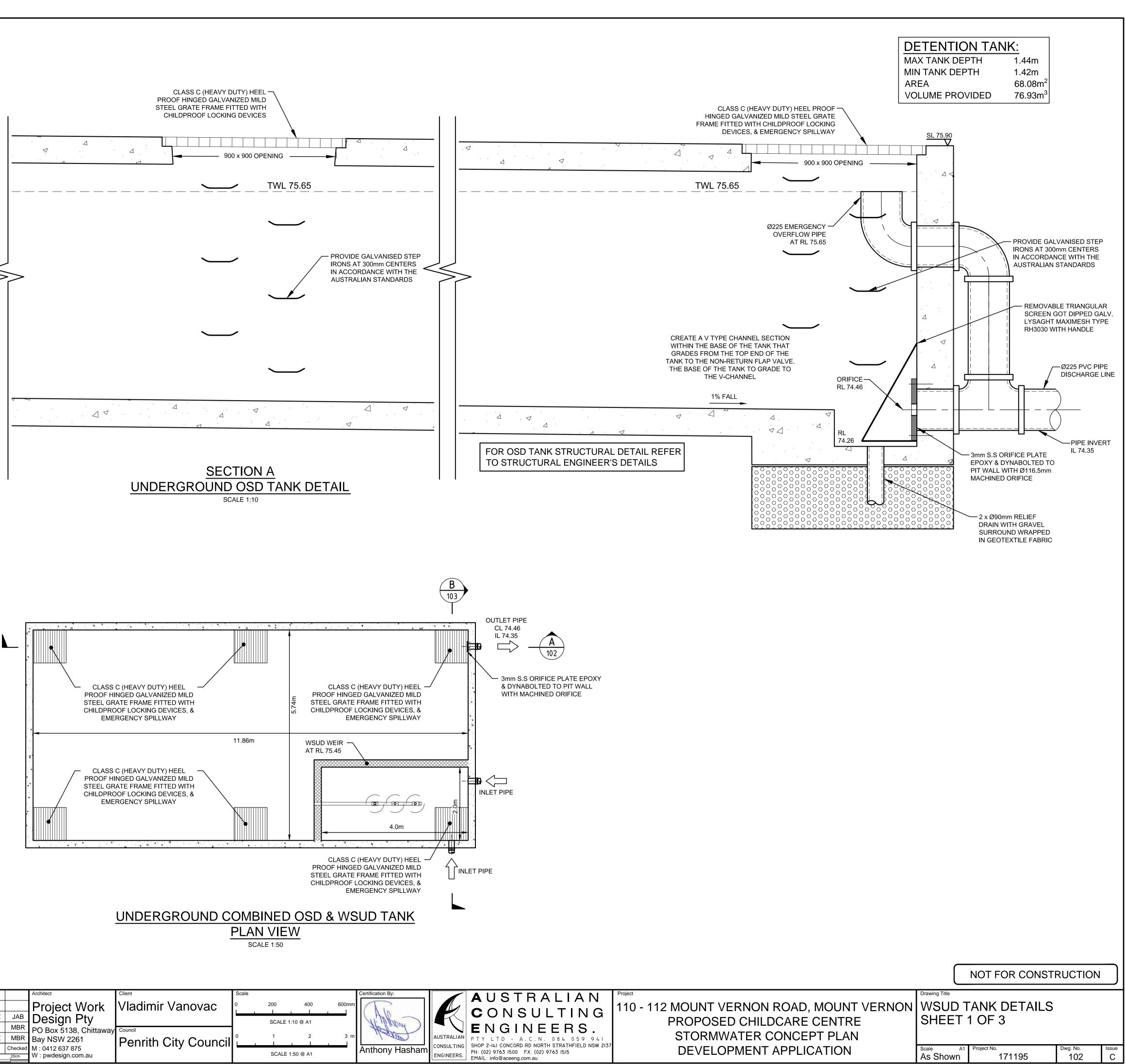
IMPERVIOUS	VOLUME	VOLUME
AREA	REQUIRED	PROVIDED
100 m ²	2.5 m ³	0 m ³
2616.2 m ²	65.40 m ³	65.61 m ³

CCOUNCIL COMMENTS26/03/2019HUVEHZJABDesign PtyBCOUNCIL COMMENTS27/02/2018HUVJTFMBRPO Box 5138, ChittawayCouncilAISSUE FOR DEVELOPMENT APPLICATION30/11/2017HUVEHZMBRBay NSW 2261Bay NSW 2261Penrith CityIssueDescriptionDateDrawnDesignCheckedM: 0412 637 875Penrith City								
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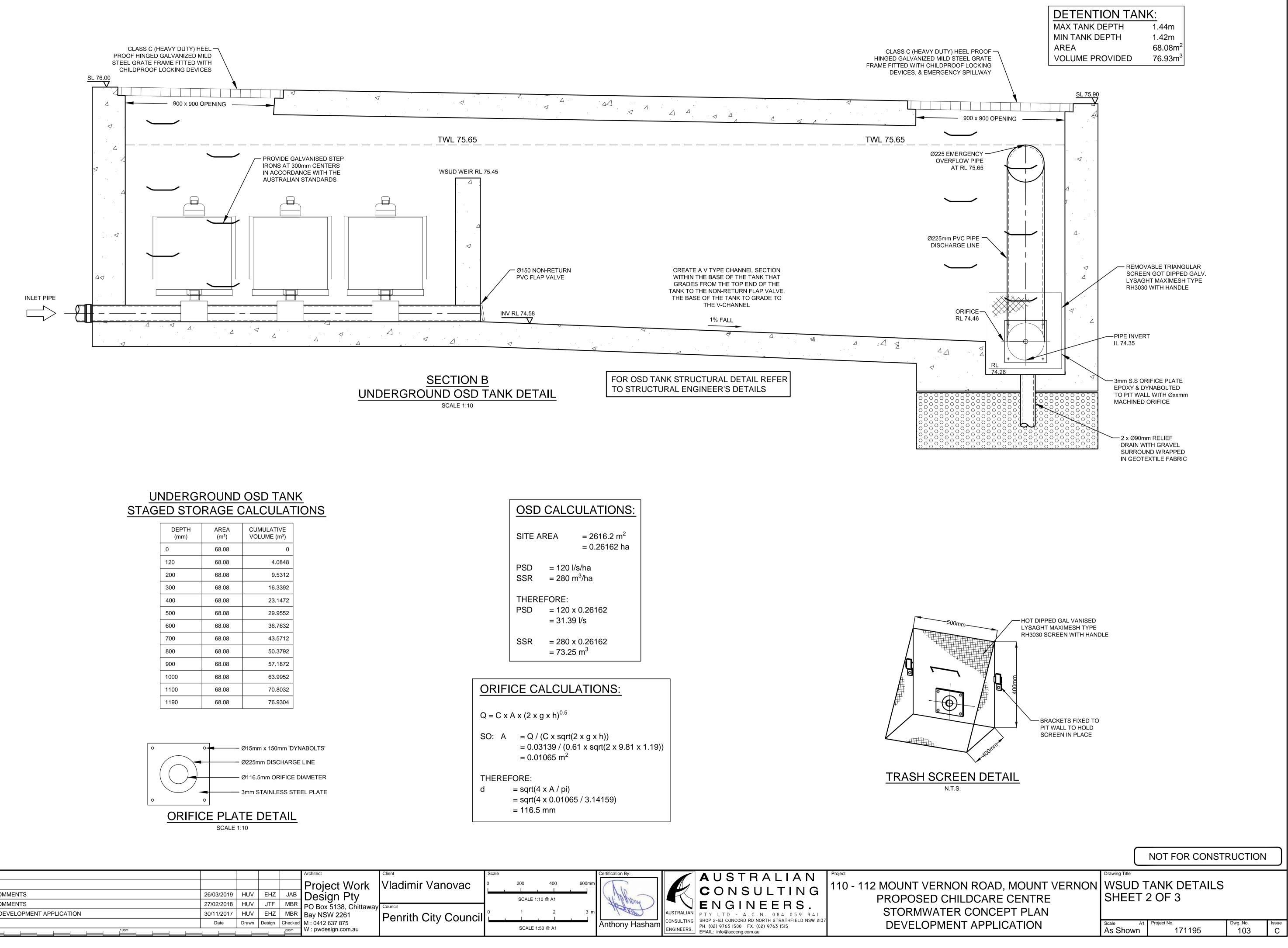
novac	Scale 0 3 6 9 m	Certification By:	CONSULTING	Project 110 - 112 MOUNT VERNOI PROPOSED CHII
Council	SCALE 1:200 @ A1		AUSTRALIAN CONSULTING ENGINEERS. BUD 2-141 CONCORD RD NORTH STRATHFIELD NSW 2137 PH: (02) 9763 1500 FX: (02) 9763 1515 EMAIL: info@aceeng.com.au	STORMWATER DEVELOPMEN





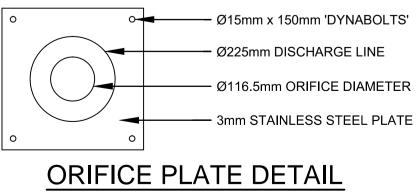
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						Project Work	Vladimir Van
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	AUSTRALIAN	EINGINE PTYLTD - A.C.N.
	CONSULTING	SHOP 2-141 CONCORD RD NORTH PH: (02) 9763 1500 FX: (02) 97
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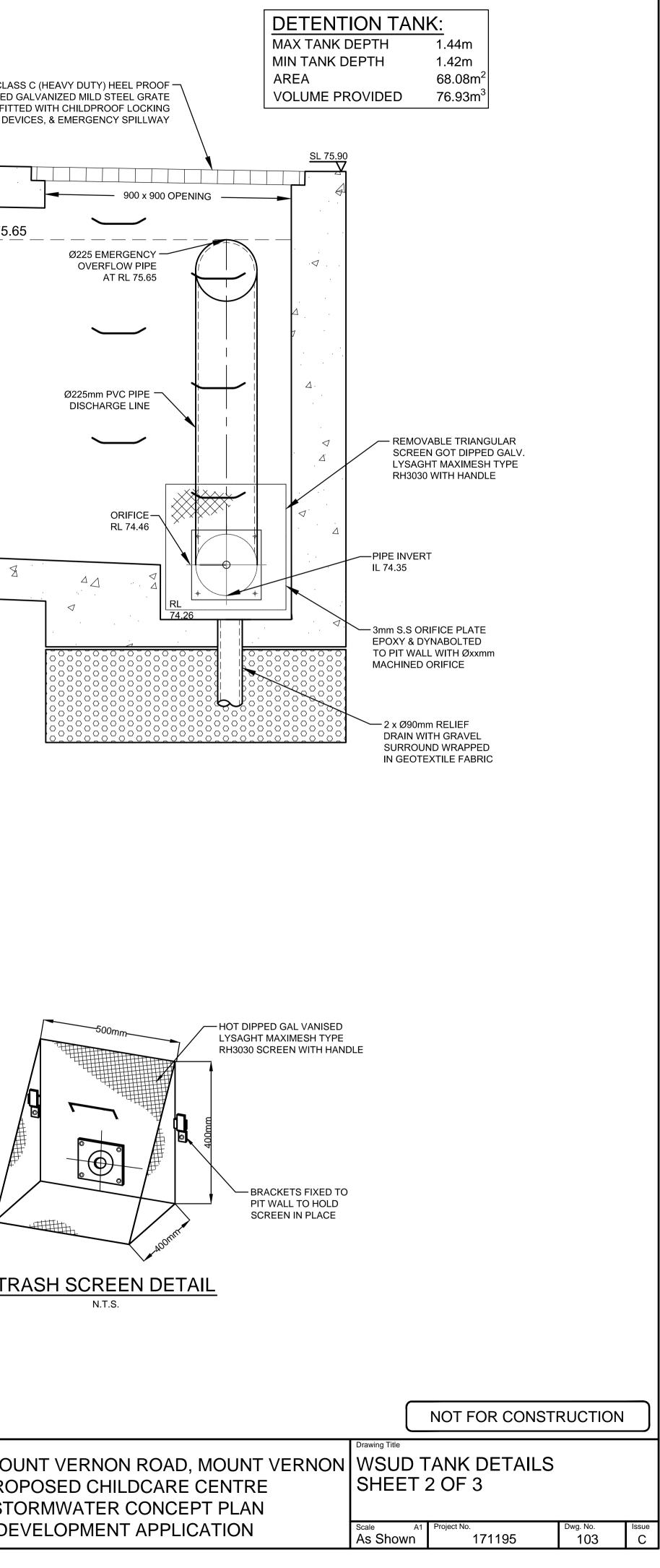
UNDERGROUND OSD TANK
STAGED STORAGE CALCULATIONS

DEPTH (mm)	AREA (m²)	CUMULATIVE VOLUME (m ³)
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

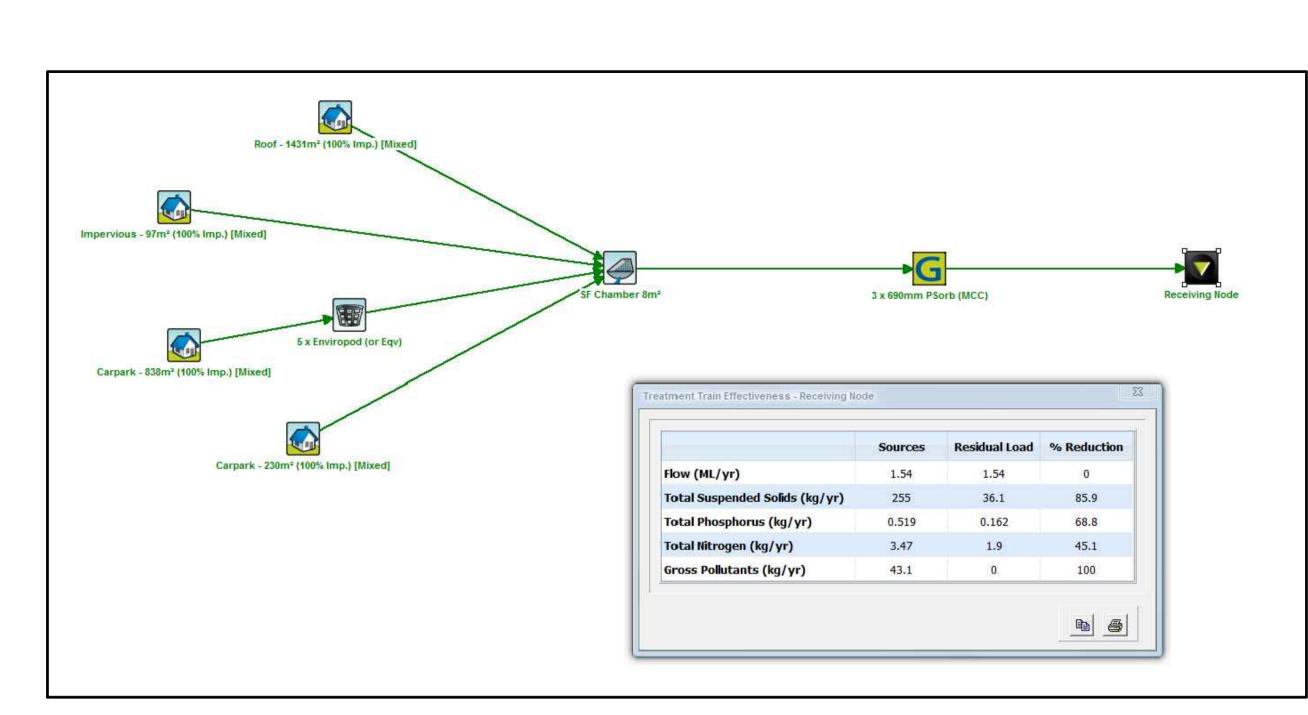


						Architect	Client
						Architect	Chern
						Project Work	Vladimir Van
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SITE A	REA	= 2616.2 m ² = 0.26162 ha				
PSD SSR						
THERE PSD	FORE: = 120 x = 31.39	0.26162 I/s				







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. • THE STANDARD CONFIGURATION IS SHOWN. ACTUAL CONFIGURATION OF THE SPECIFIED STRUCTURE(S) PER CIVIL ENGINEER WILL BE SHOWN ON SUBMITTAL DRAWING(S).

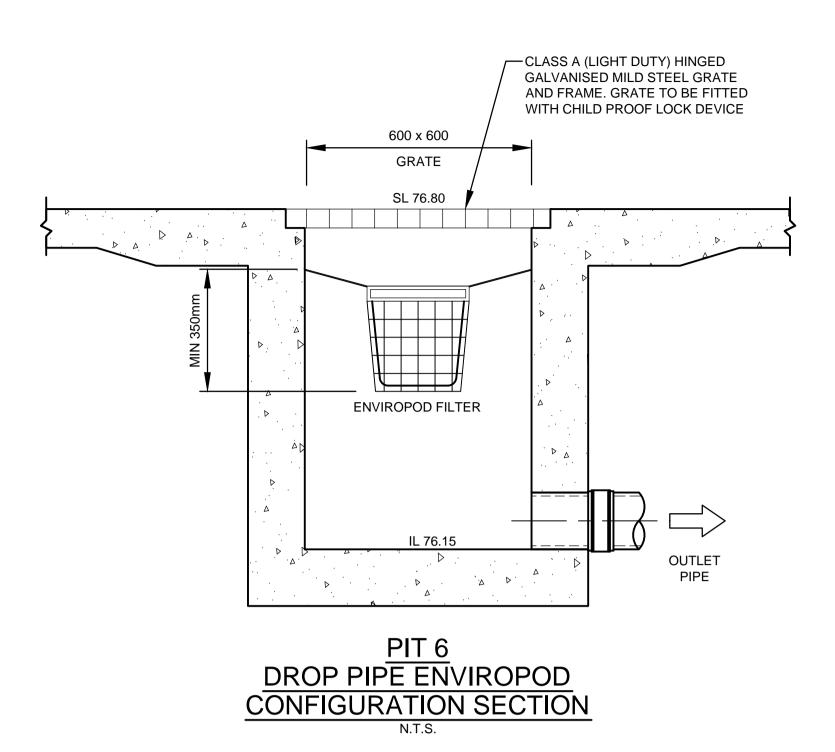
• ALL PARTS PROVIDED AND INTERNAL ASSEMBLY BY STORMWATER360 AUSTRALIA UNLESS OTHERWISE NOTED.

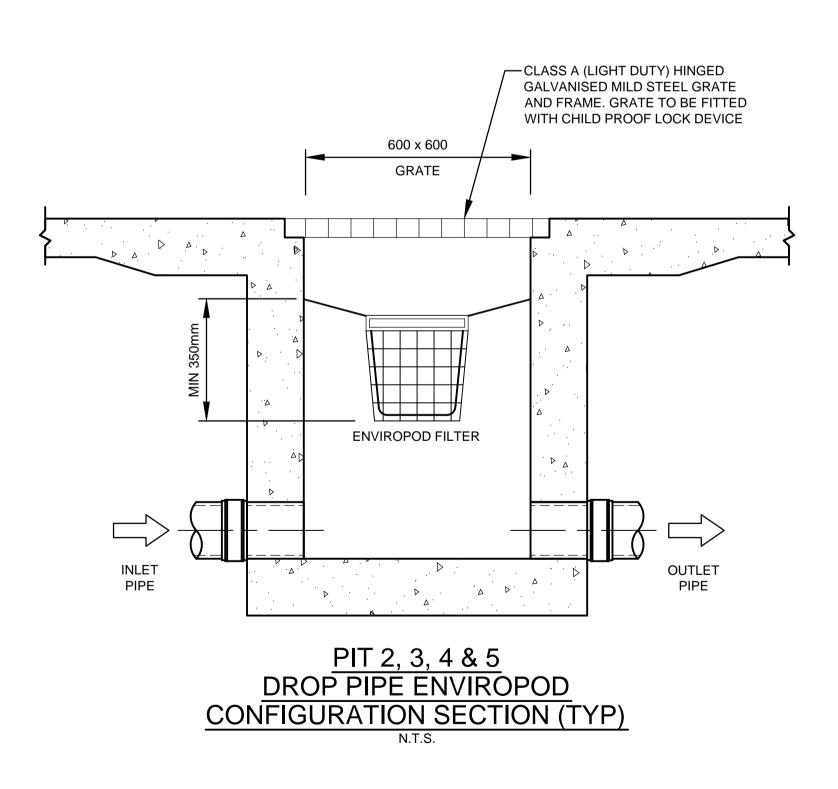
	_					
CARTRIDGE HEIGHT	69	90	46	50	31	10
SYSTEM HYDRAULIC DROP (H - REQ'D. MIN.)	930		700		550	
TREATMENT BY MEDIA SURFACE AREA L/S/m2	1.4	0.7	1.4	0.7	1.4	0.7
CARTRIDGE FLOW RATE (L/s)	1.42	0.71	0.95	0.47	0.63	0.32

SYSTEM HYDRAULIC DROP CARTRIDGE FLOW RATE STORMFILTER CARTRIDGE FILTRATION UNIT ← FALSE FLOOR ← PRECAST PIT . Þ 🛆 BASE

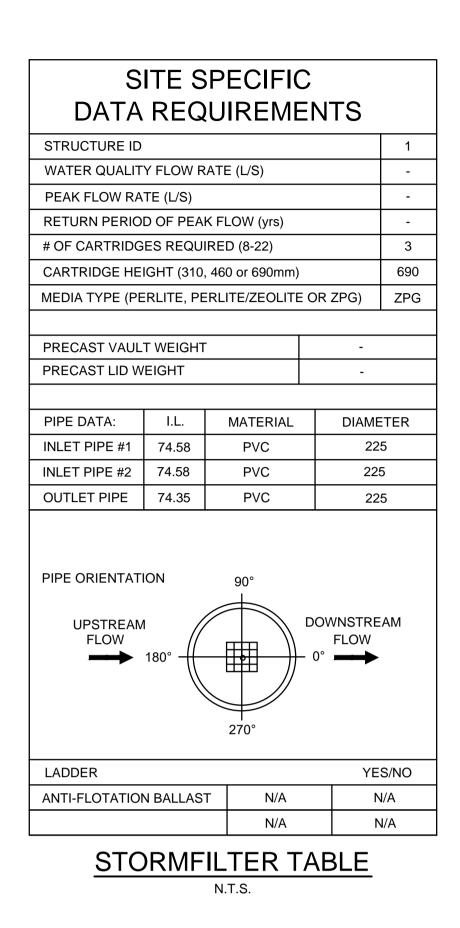
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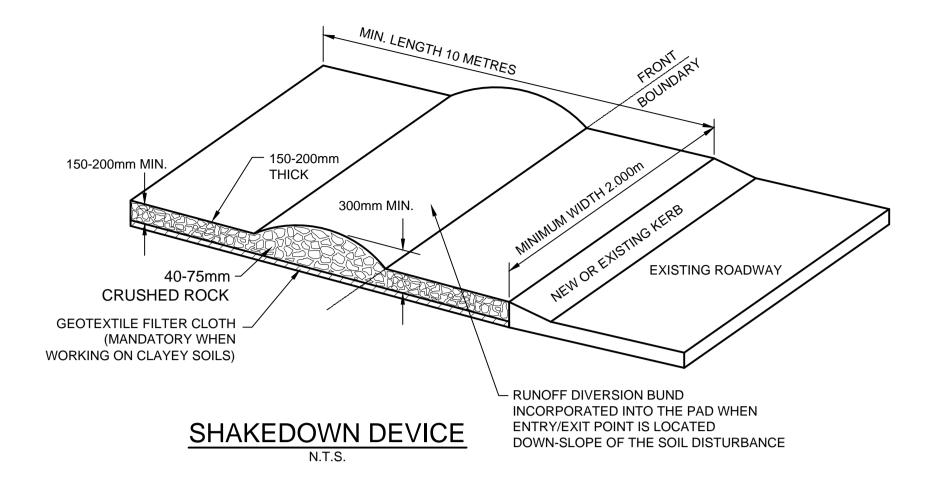




GENERAL NOTES

- 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						
I ROAD, MOUNT VERNON DCARE CENTRE CONCEPT PLAN	Drawing Title WSUD T SHEET (
ScaleA1Project No.Dwg. No.As Shown171195104							



Ø225 PVC INLET PIPE

DIRECTION OF FLOW

FALL TO PIT

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.

						Architect	Client
						Project Work	Vladimir Van
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