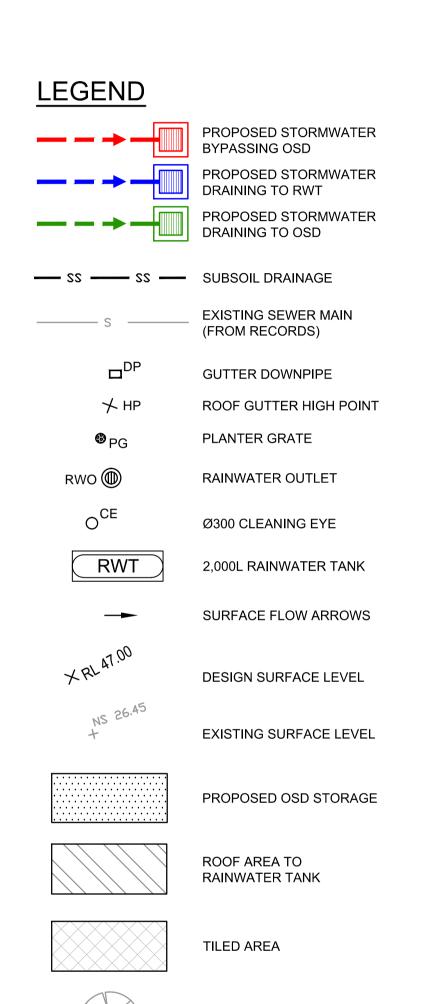
1 EDNA STREET, KINGSWOOD PROPOSED NEW GENERATION BOARDING HOUSE

STORMWATER CONCEPT PLANS



TREES TO BE RETAINED

TREES TO BE REMOVED



LOCALITY PLAN

DRAWING INDEX				
Drawing No.	rawing No. DESCRIPTION			
000	COVER SHEET, LEGEND & NOTES			
101	STORMWATER CONCEPT PLAN BASEMENT LEVEL SHEET 1 OF 2			
102	STORMWATER CONCEPT PLAN BASEMENT LEVEL SHEET 2 OF 2			
103 STORMWATER CONCEPT PLAN				
104	ON-SITE DETENTION TANK AND CALCULATION SHEET			
105	MISCELLANEOUS DETAILS SHEET			

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**

GENERAL NOTES

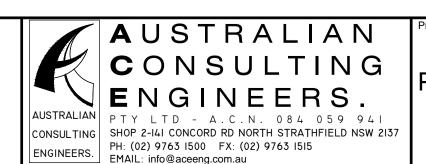
- 1. ALL LINES ARE TO BE Ø90 uPVC 1.0% GRADE UNLESS NOTED OTHERWISE. CHARGED LINES TO BE SEWERGRADE & SEALED.
- EXISTING SERVICES LOCATIONS SHOWN INDICATIVE ONLY. IT IS THE CONTRACTOR'S RESPONSIBILITY TO LOCATE & LEVEL ALL EXISTING SERVICES PRIOR TO THE
- 3. ALL PIPES TO HAVE MIN 150mm COVER IF LOCATED
- 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.
- 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
- 14. ALL WORK SHALL BE IN ACCORDANCE WITH B.C.A. AND
- 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. ALL PIPES IN BALCONIES TO BE Ø65 uPVC CAST IN CONCRETE SLAB. CONTRACTOR TO PROVIDE A BREAK / OPEN VOID IN RAIL / BALLUSTRADE FOR STORMWATER EMERGENCY OVERFLOW. ALL ENCLOSED AREAS/PLANTER BOXES TO BE FITTED WITH FLOOR WASTES & DRAINED TO OSD DOWNPIPES TO BE CHECKED BY ARCHITECT & . PLUMBER PRIOR TO CONSTRUCTION
- 18. 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.

NOT FOR CONSTRUCTION

COUNCIL COMMENTS 19/11/2018 | EHZ | JAB ARCHITECTURAL AMENDMENTS EHZ JAB ISSUE FOR DEVELOPMENT APPLICATION 28/06/2018 | SMF | JAB ssue Description Design Checke

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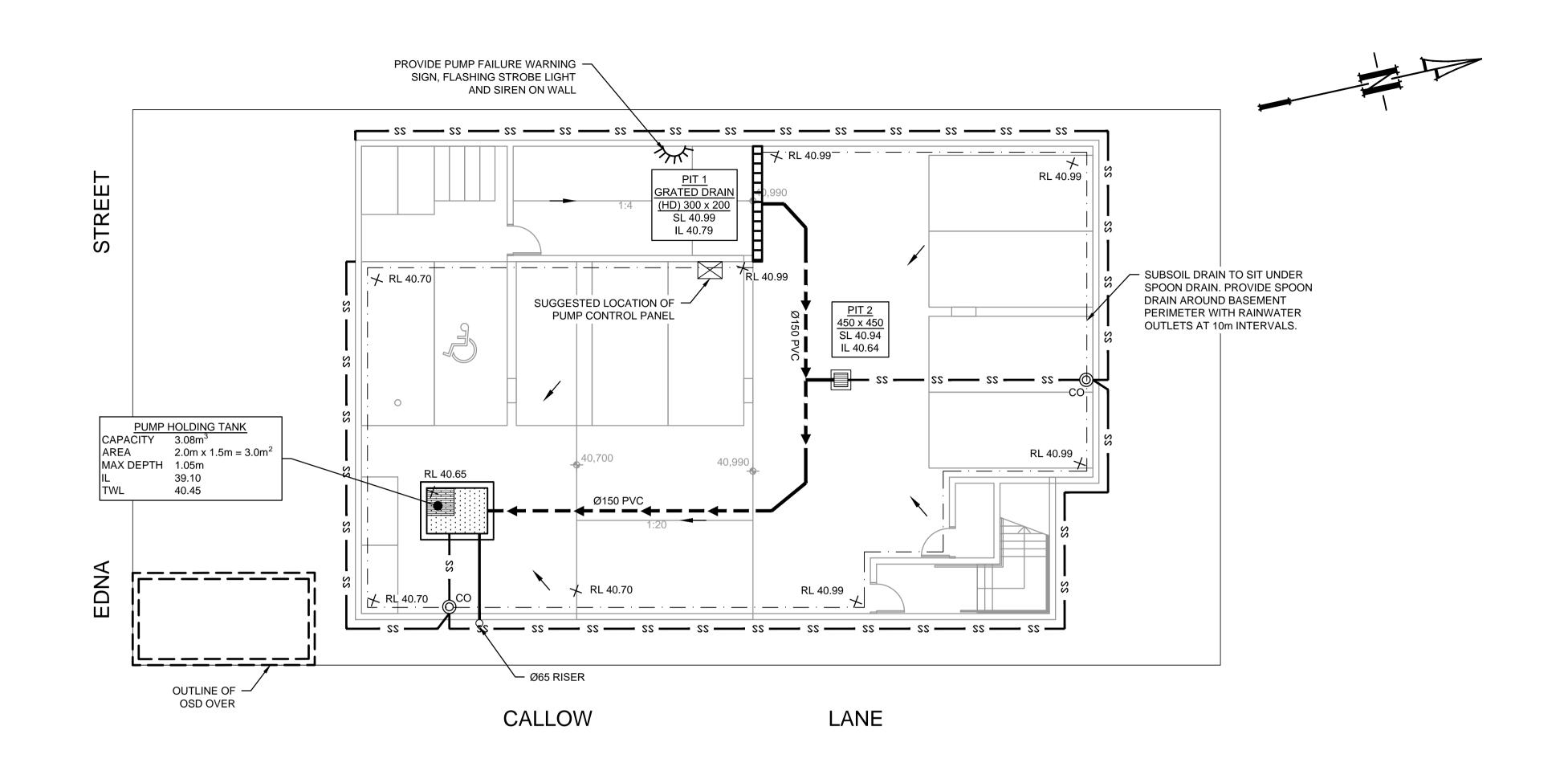
Mr. Elie Elias Penrith City Council



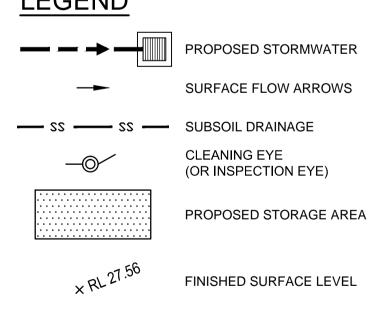
1 EDNA STREET, KINGSWOOD PROPOSED NEW GENERATION BOARDING HOUSE LEGEND & NOTES STORMWATER CONCEPT PLANS **DEVELOPMENT APPLICATION**

COVER SHEET,

180698 N.T.S. 000







GRATED DRAIN

STANDARD PUMP OUT DESIGN NOTES

- THE PUMP OUT SYSTEM SHALL BE DESIGN TO BE OPERATED IN THE FOLLOWING MANNER: 1 - THE PUMP SHALL BE PROGRAMMED TO WORK ALTERNATELY TO ALLOW BOTH PUMPS TO HAVE AN EQUAL OPERATION LOAD AND PUMP LIFE.
- 2 A FLOAT SHALL BE PROVIDED TO ENSURE OF 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 AT THE MINIMUM WATER LEVEL. THE SAME FLOAT SHALL BE SET TO TURN ONE OF THE PUMPS ON UPON THE WATER LEVEL IN THE TANK RISING TO APPROXIMATELY 300mm ABOVE THE MINIMUM WATER LEVEL. THE PUMP SHALL OPERATE UNTIL THE TANK IS DRAINED TO THE MINIMUM WATER LEVEL.
- 3 A SECOND FLOAT SHALL BE PROVIDE AT A HIGH LEVEL, WHICH IS APPROXIMATELY THE ROOF LEVEL OF THE BELOW GROUND TANK. THIS FLOAT SHALL START THE OTHER PUMP THAT IS NOT OPERATING AND ACTIVATE THE ALARM.
- 4 AN ALARM SYSTEM SHALL BE PROVIDE WITH A FLASHING STROBE LIGHT AND 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.
- 5 A CONFINED SPACE DANGER SIGN SHALL BE PROVIDED AT ALL ACCESS POINT TO THE PUMP-OUT STORAGE TANK IN ACCORDANCE WITH THE UPPER PARRAMATA RIVER CATCHMENT TRUST OSD HANDBOOK.



WHEN EXCAVATING WITHIN ANY SITE, FOOTPATH AND ROADWAY, ALL SERVICES SHALL BE LOCATED PRIOR TO COMMENCEMENT OF THE EXCAVATION WORKS.

CONTACT "DIAL BEFORE YOU DIG" ON PHONE No. 1100 OR GO TO THE WEB SITE

"www.1100.com.au"

WARNING

PUMP OUT SYSTEM **FAILURE IN BASEMENT** WHEN LIGHT IS FLASHING AND SIREN SOUNDING

BASEMENT PUMP OUT FAILURE WARNING SIGN SIGN SHALL BE PLACED IN A CLEAR AND VISIBLE LOCATION WHERE VEHICLES ENTER THE BASEMENT

COLOURS: "WARNING" = RED BORDER AND OTHER LETTERING = BLACK



CONFINED SPACE DANGER SIGN

A) A CONFINED SPACE DANGER SIGN SHALL BE POSITIONED IN A LOCATION AT ALL ACCESS POINTS, SUCH THAT IT IS CLEARLY VISIBLE TO PERSONS PROPOSING TO ENTER THE BELOW GROUND TANK/S CONFINED SPACE.

B) MINIMUM DIMENSIONS OF THE SIGN - 300mm x 450mm (LARGE ENTRIES, SUCH AS DOORS) -250mm x 180mm (SMALL ENTRIES SUCH AS GRATES & MANHOLES)

C) THE SIGN SHALL BE MANUFACTURED FROM COLOUR BONDED ALUMINUM OR POLYPROPYLENE

D) SIGN SHALL BE AFFIXED USING SCREWS AT EACH CORNER OF

THE SIGN

<u>COLOURS:</u> "DANGER" & BACKGROUND = WHITE ELLIPTICAL AREA = RED RECTANGLE CONTAINING ELLIPSE = BLACK BORDER AND OTHER LETTERING = BLACK

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	С	COUNCIL COMMENTS	19/11/2018	EHZ	JAB	
	В	ARCHITECTURAL AMENDMENTS	06/07/2018	EHZ	JAB	1
I	Α	ISSUE FOR DEVELOPMENT APPLICATION	28/06/2018	SMF	JAB	
	Issue	Description	Date	Design	Checked	
	ი 1ი	m at full size 10cm			20cm	1

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Mr. Elie Elias SCALE 1:100 @ A1 Penrith City Council

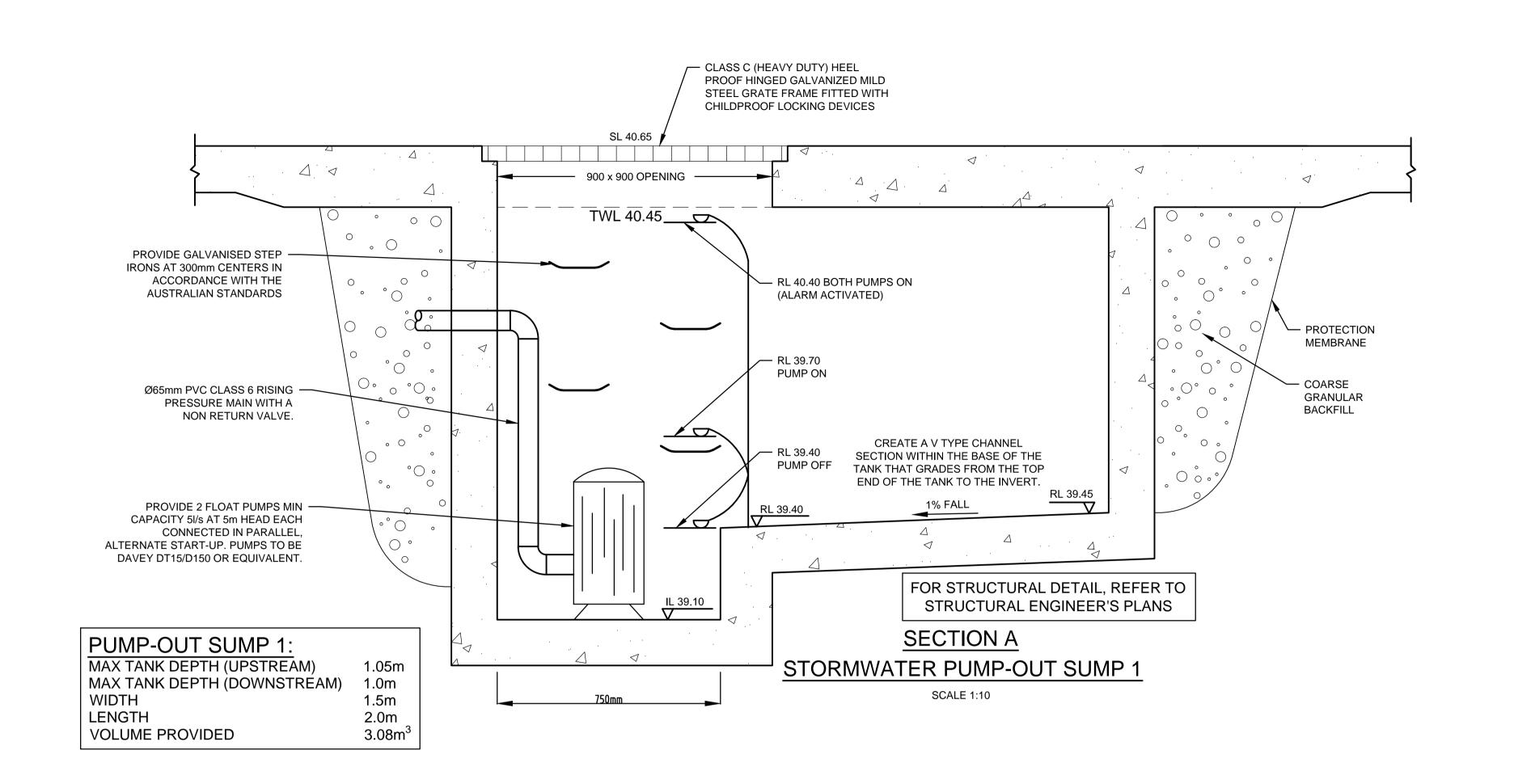
AUSTRALIAN CONSULTING ENGINEERS. AUSTRALIAN | PTY LTD - A.C.N. 084 059 941 CONSULTING | SHOP 2-141 CONCORD RD NORTH STRATHFIELD NSW 2137 PH: (02) 9763 I500 FX: (02) 9763 I5I5 EMAIL: info@aceeng.com.au

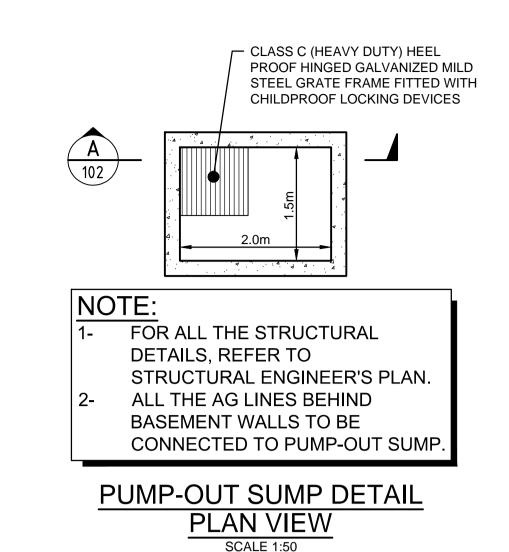
1 EDNA STREET, KINGSWOOD PROPOSED NEW GENERATION BOARDING HOUSE BASEMENT LEVEL STORMWATER CONCEPT PLANS **DEVELOPMENT APPLICATION**

STORMWATER CONCEPT PLAN

SHEET 1 OF 2

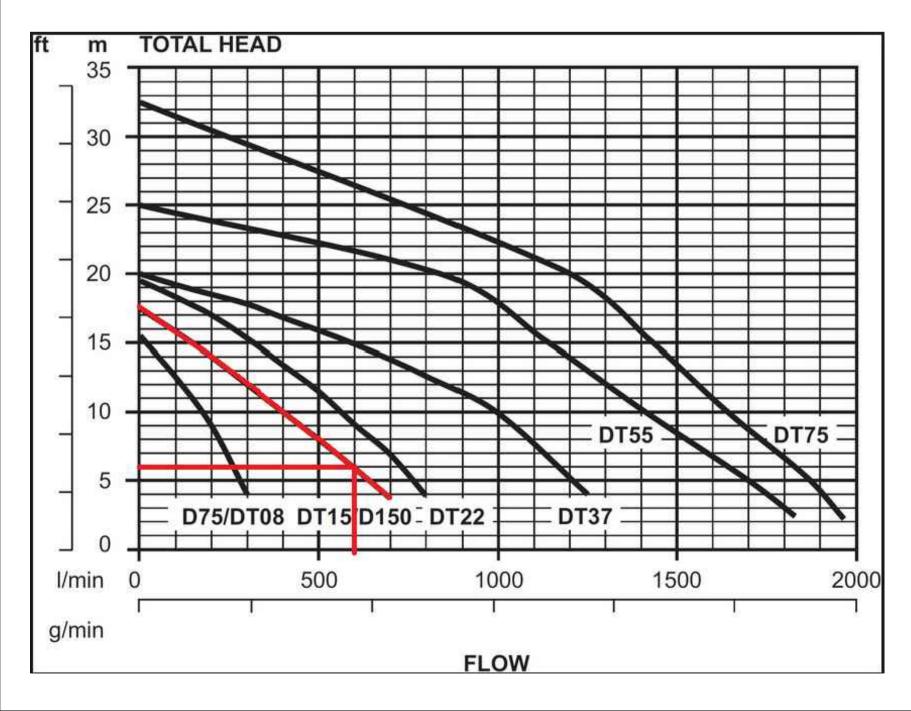
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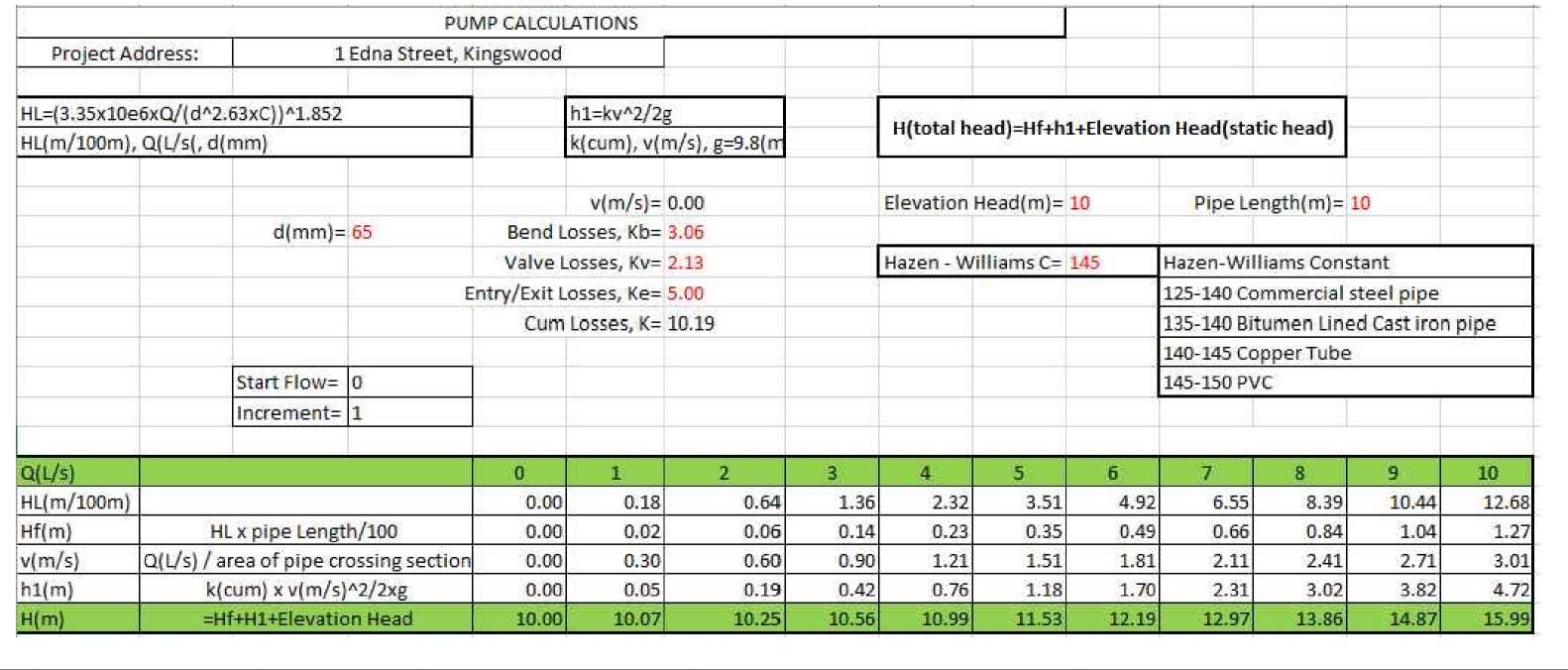




PUMP STORAGE VOLUME CALCULATION

- = 55.15 mm/hour
- I_{100, 90 min} = 55.15 mm/hour
 PUMP STORAGE CATCHMENT AREA: A = 22.5 m² = 0.00225 ha
- Q = C x I x A / 360 WHERE C = 1.0 (REFER TO AS3500.3.5.4.6 (a))
 - = 1.0 x 55.15 x 0.00225 / 360 $= 0.000345 \text{ m}^3/\text{s}$
 - = 0.345 L/s
- THEREFORE, THE PUMP HOLDING TANK VOLUME IS: $V = 0.345 \times 1.5 \times 3600$
- $= 1.86 \text{ m}^3$ • TOTAL REQUIRED VOLUME IS 3.0m³





UNDERGROUND PUMP - OUT SUMP STAGED STORAGE CALCULATIONS

DEPTH (mm)	AREA (m²)	CUMULATIVE VOLUME (m³)
0	3.0	0
100	3.0	0.225
200	3.0	0.525
300	3.0	0.825
400	3.0	1.125
500	3.0	1.425
600	3.0	1.725
700	3.0	2.025
800	3.0	2.325
900	3.0	2.625
1000	3.0	2.925
1050	3.0	3.075

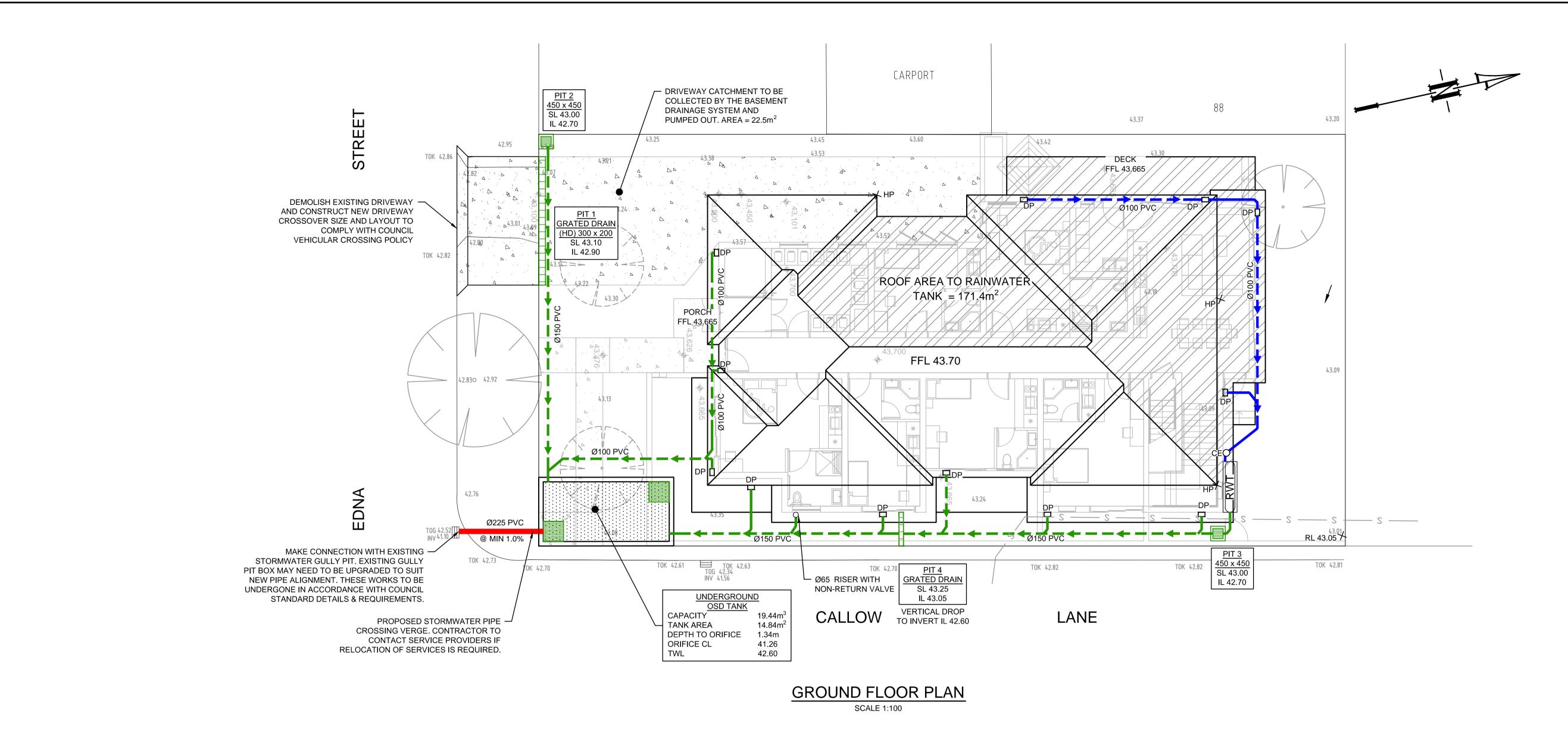
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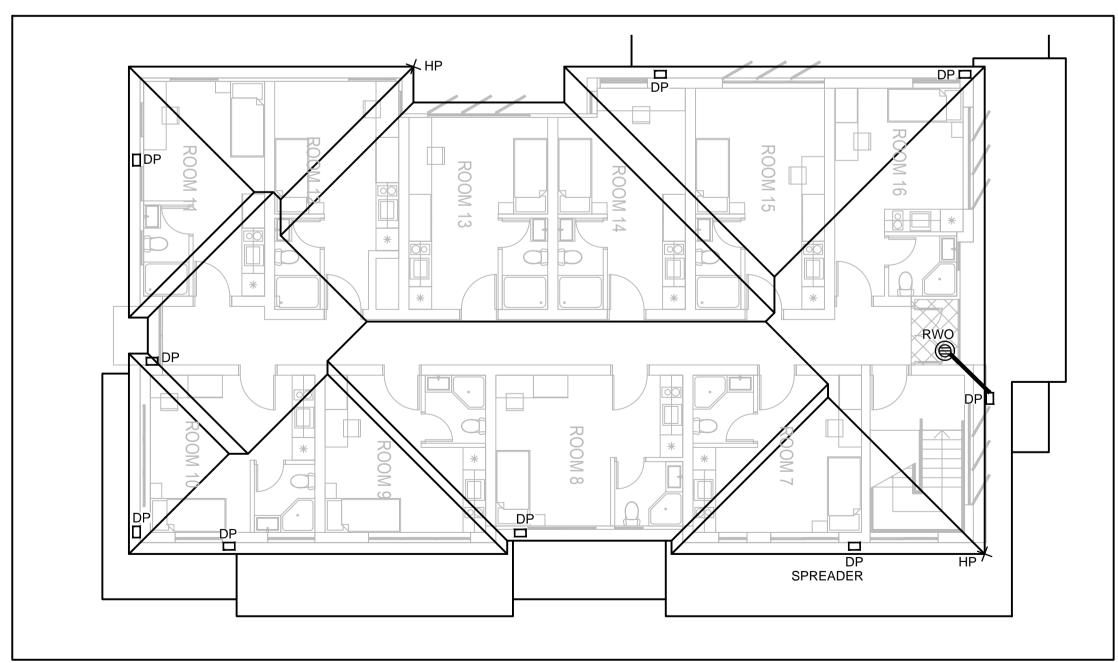
102

AUSTRALIAN Designcorp 1 EDNA STREET, KINGSWOOD Mr. Elie Elias CONSULTING 19/11/2018 | EHZ | JAB COUNCIL COMMENTS 16 Dunlop Street, ARCHITECTURAL AMENDMENTS EHZ JAB North Parramatta, NSW 2151 STORMWATER CONCEPT PLANS ISSUE FOR DEVELOPMENT APPLICATION SMF | JAB Penrith City EMAIL : admin@designcorp.com.au PHONE : (+612) 9630 9911 WEB : www.designcorp.com.au ssue Description Design Checked PH: (02) 9763 I500 FX: (02) 9763 I5I5 EMAIL: info@aceeng.com.au Council SCALE 1:50 @ A1

PROPOSED NEW GENERATION BOARDING HOUSE BASEMENT LEVEL DEVELOPMENT APPLICATION As Shown

STORMWATER CONCEPT PLAN SHEET 2 OF 2 180698





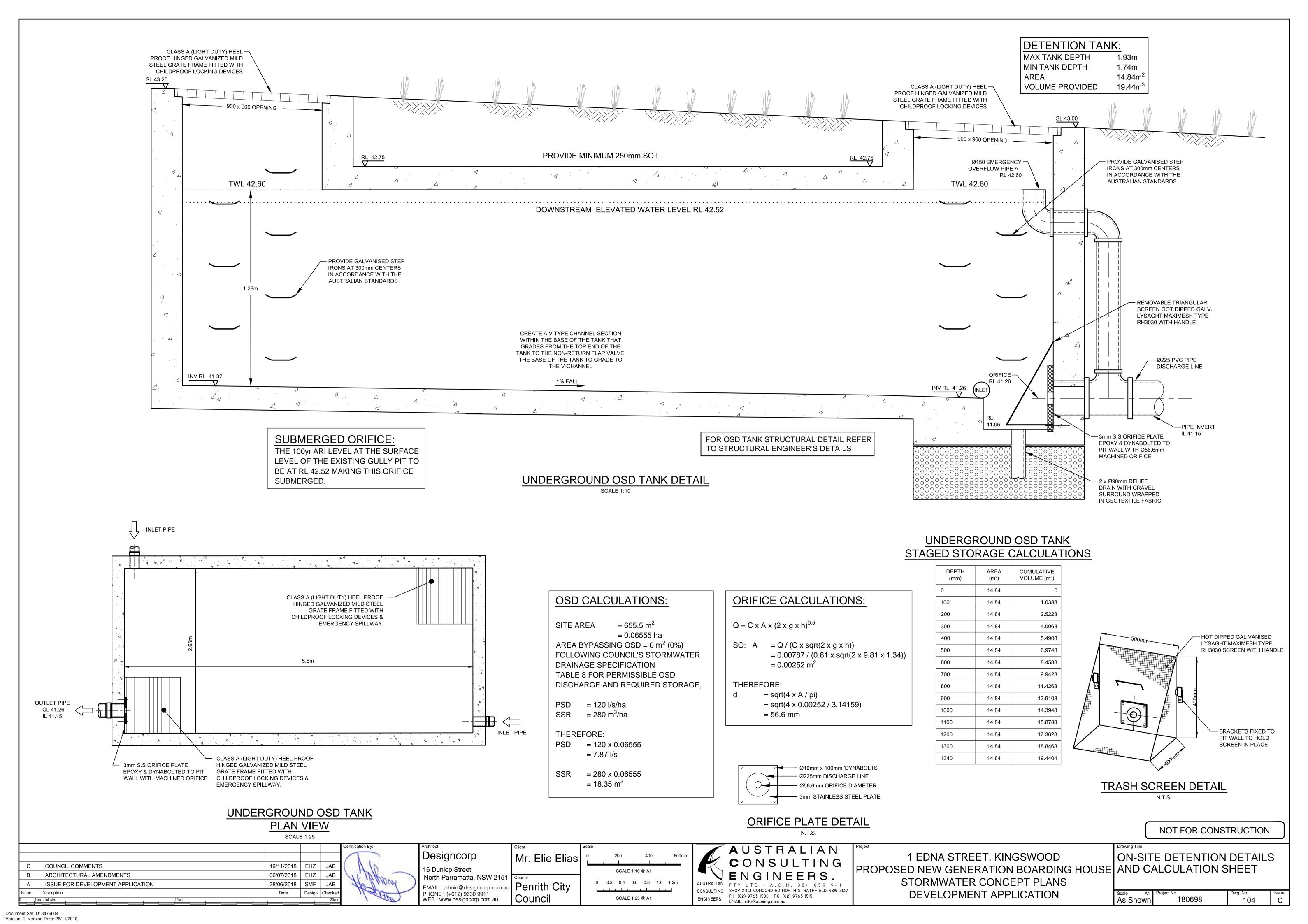
LEVEL 1 PLAN

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103

180698

AUSTRALIAN Designcorp 1 EDNA STREET, KINGSWOOD STORMWATER CONCEPT PLAN Mr. Elie Elias **C**ONSULTING COUNCIL COMMENTS 19/11/2018 | EHZ | JAB PROPOSED NEW GENERATION BOARDING HOUSE 16 Dunlop Street, ARCHITECTURAL AMENDMENTS EHZ JAB North Parramatta, NSW 2151 STORMWATER CONCEPT PLANS SCALE 1:100 @ A1 ISSUE FOR DEVELOPMENT APPLICATION 28/06/2018 | SMF | JAB Penrith City EMAIL : admin@designcorp.com.au PHONE : (+612) 9630 9911 WEB : www.designcorp.com.au CONSULTING SHOP 2-141 CONCORD RD NORTH STRATHFIELD NSW 2137 DEVELOPMENT APPLICATION Issue Description Design Checked ENGINEERS. PH: (02) 9763 I500 FX: (02) 9763 I5I5 EMAIL: info@aceeng.com.au Council 1:100



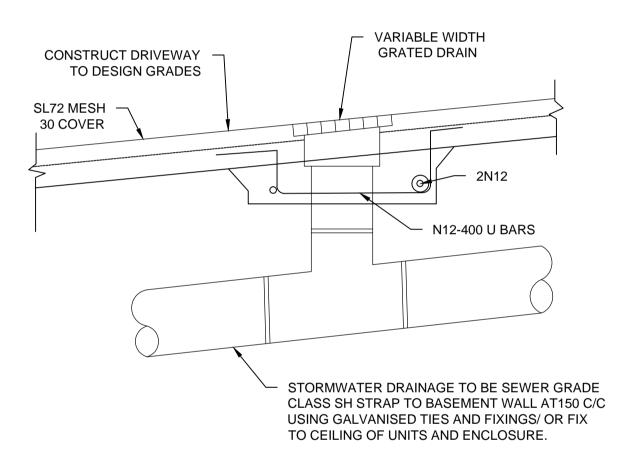
SEDIMENT & EROSION NOTES

- 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
- 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
- 11. TO AVOID DISTURBANCE TO EXISTING TREES, EARTHWORKS WILL BE MODIFIED AS
- DIRECTED ON-SITE BY THE SUPERINTENDENT.

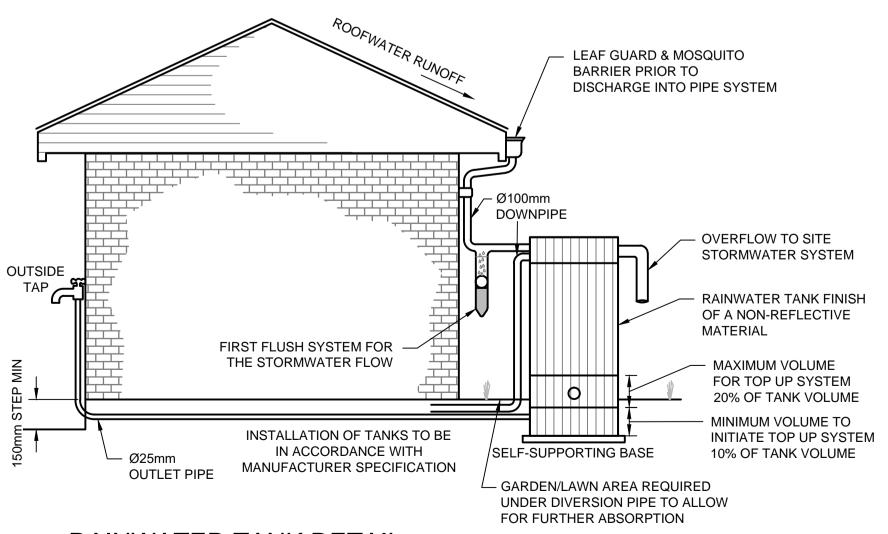
BOUNDARY

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.



GRATED DRAIN DETAIL



RAINWATER TANK DETAIL

COUNCIL COMMENTS 19/11/2018 | EHZ | JAB ARCHITECTURAL AMENDMENTS EHZ JAB ISSUE FOR DEVELOPMENT APPLICATION SMF | JAB ssue Description Date Design | Checke

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Mr. Elie Elias SCALE 1:10 @ A1 Penrith City

WATER FLOW

FROM ROOF

BALL FLOAT OR SIMILAR TO -

SHUT OFF DIVERSION SYSTEM

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SLOW RELEASE OF STORMWATER

DEBRIS

AFTER STORM EVENT. MUST HAVE THE

ABILITY TO BE CLEANED TO REMOVE

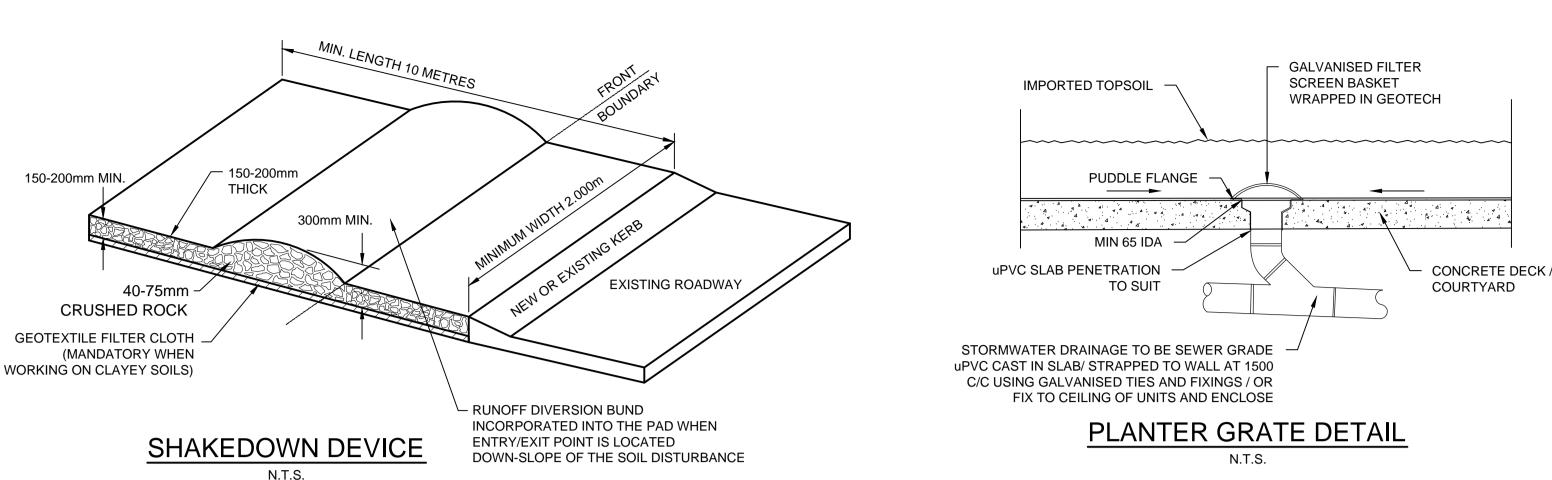
ALLOW FOR FURTHER ABSORPTION

1 EDNA STREET, KINGSWOOD PROPOSED NEW GENERATION BOARDING HOUSE DETAILS SHEET STORMWATER CONCEPT PLANS **DEVELOPMENT APPLICATION** As Shown

TO OUTLET

-SCREW CAP

MISCELLANEOUS 180698 105



SURROUND SURFACES SHALL

GALVANISED MILD STEEL GRATE

WITH CHILD SAFE 'J-LOCKS'.

HINGED TO FRAME AND PROVIDED

GRADE TO INLET PIT

-IMPERMEABLE

Ø300

CLEANING EYE DETAIL

LID

TYPICAL GRATED

INLET PIT DETAIL

WEEP HOLES:

IN SIDE OF PIT

FIELD INLET SEDIMENT TRAP

STAKES DRIVEN

500-700mm INTO GROUND

-GEOTEXTILE FILTER

FABRIC (WOVEN) ON

OUTER SIDE OF MESH

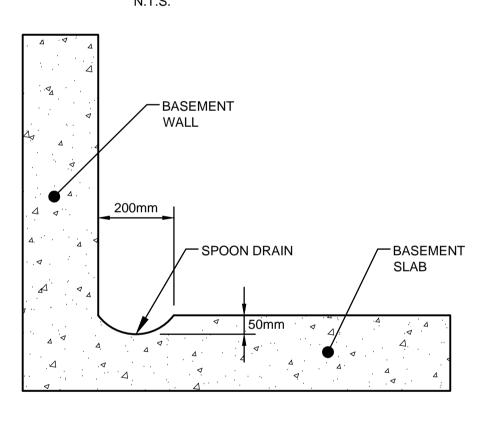
ROLL OF NETTING FILLED WITH 50-70mm GRAVEL GEOTEXTILE FABRIC **OVER GRATE**

KERB INLET PROTECTION SAG GULLIES

STEEL REINFORCING MESH.

DIRECTION .

OF FLOW



SPOON DRAIN SECTION DETAIL

STORAGE TANK NOTES: 1. TANK WATER TAPS SHALL BE MARKED "RAINWATER

2. RAINWATER TANKS SHALL BE CONNECTED TO MAINS WATER SUPPLY AS BACKUP. 3. THE PUMPS ARE TO BE INSULATED IN ACCORDANCE WITH COUNCIL POLICY.

NOT TO HUMAN CONSUMPTION".

4. PUMPS SHALL PROVIDE MINIMUM 150 kPa

- 5. EACH TANK TO BE CONNECTED TO AN OUTDOOR TAP FOR IRRIGATION USE.
- 6. RAINWATER TANKS TO BE CLEANED OUT EVERY 6 MONTHS. 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

Council

FIRST FLUSH WATER **DIVERTER DETAIL**

FIRST FLUSH OF CONTAMINATED

WATER IS DIVERTED INTO CHAMBER

GROUND SURFACE

• • •

TYPICAL SUBSOIL DRAIN

N.T.S

- Ø150mm GRANULE SOIL

PERVIOUS MEMBRANE

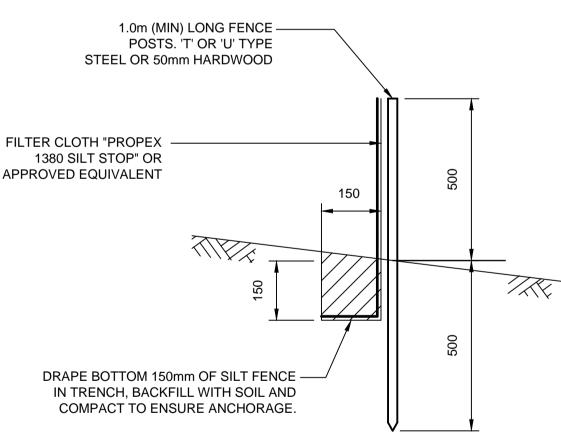
- IMPERVIOUS MEMBRANE

- Ø100mm 'AGG' LINE WRAPPED IN A GEOTEXTILE FABRIC SOCK

20mm AGGREGATE

(SIZE AS INDICATED "QUICKSERT" SLAB ON PLAN) PENETRATION TERRACE UNITS OR EQUIVALENT CONCRETE STORMWATER DRAINAGE TO BE SEWER GRADE CLASS SH STRAP TO BASEMENT WALL AT150 C/C USING GALVANISED TIES AND FIXINGS/ OR FIX TO CEILING OF UNITS AND ENCLOSURE.

RAINWATER OUTLET DETAIL



SILT FENCE DETAIL

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

Document Set ID: 8476604

Version: 1, Version Date: 26/11/2018