51 ARTHUR STREET, FORESTVILLE PROPOSED MIXED USE DEVELOPMENT

STORMWATER CONCEPT PLANS



LOCALITY PLAN

DRAWING INDEX							
Drawing No.	DESCRIPTION						
000	COVER SHEET PLAN						
101	STORMWATER CONCEPT PLAN BASEMENT LEVEL SHEET 1 OF 2						
102	STORMWATER CONCEPT PLAN BASEMENT LEVEL SHEET 2 OF 2						
103	STORMWATER CONCEPT PLAN GROUND LEVEL						
104	OSD & WSUD DETAILS AND CALCULATION SHEETS						
105	ROOF PLAN & MISCELLANEOUS DETAILS SHEET						

NOT FOR CONSTRUCTION

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В	ARCHITECTURAL AMENDMENTS	02/10/2020	EHZ	JSF	1
Α	ISSUE FOR DEVELOPMENT APPLICATION	31/08/2020	EHZ	JSF	1
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Certification By Dr. Anthony Hasham (NPER):

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Cked
20cm

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Gabrielian
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Northern Beaches
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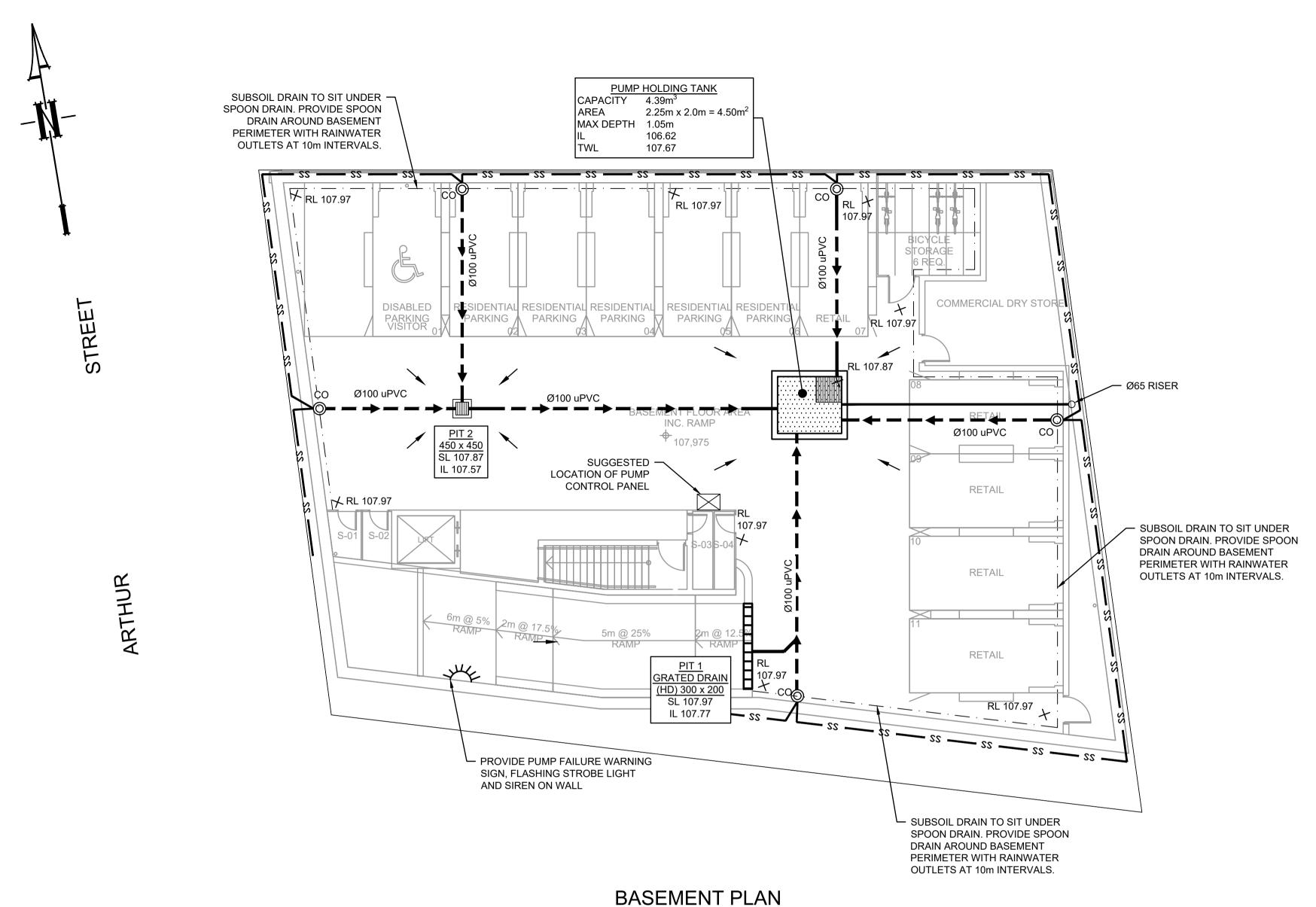


51 ARTHUR STREET, FORESTVILLE
PROPOSED MIXED USE DEVELOPMENT
STORMWATER CONCEPT PLANS
DEVELOPMENT APPLICATION

COVER SHEET PLAN

 Scale
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 Project No.
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PROPOSED STORMWATER SURFACE FLOW ARROWS SUBSOIL DRAINAGE **CLEANING EYE** (OR INSPECTION EYE) PROPOSED STORAGE AREA FINISHED SURFACE LEVEL

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.

SCALE 1:100



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"

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

COLOURS:
"DANGER" & BACKGROUND = WHITE ELLIPTICAL AREA = RED RECTANGLE CONTAINING ELLIPSE = BLACK

BORDER AND OTHER LETTERING = BLACK

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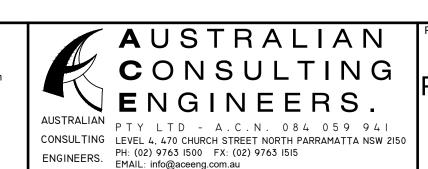
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Α	ISSUE FOR DEVELOPMENT APPLICATION	31/08/2020	EHZ	JSF	
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Ramsay Architects Sydney | Auckland

Gabrielian Holdings Pty. Ltd Northern Beaches City Council

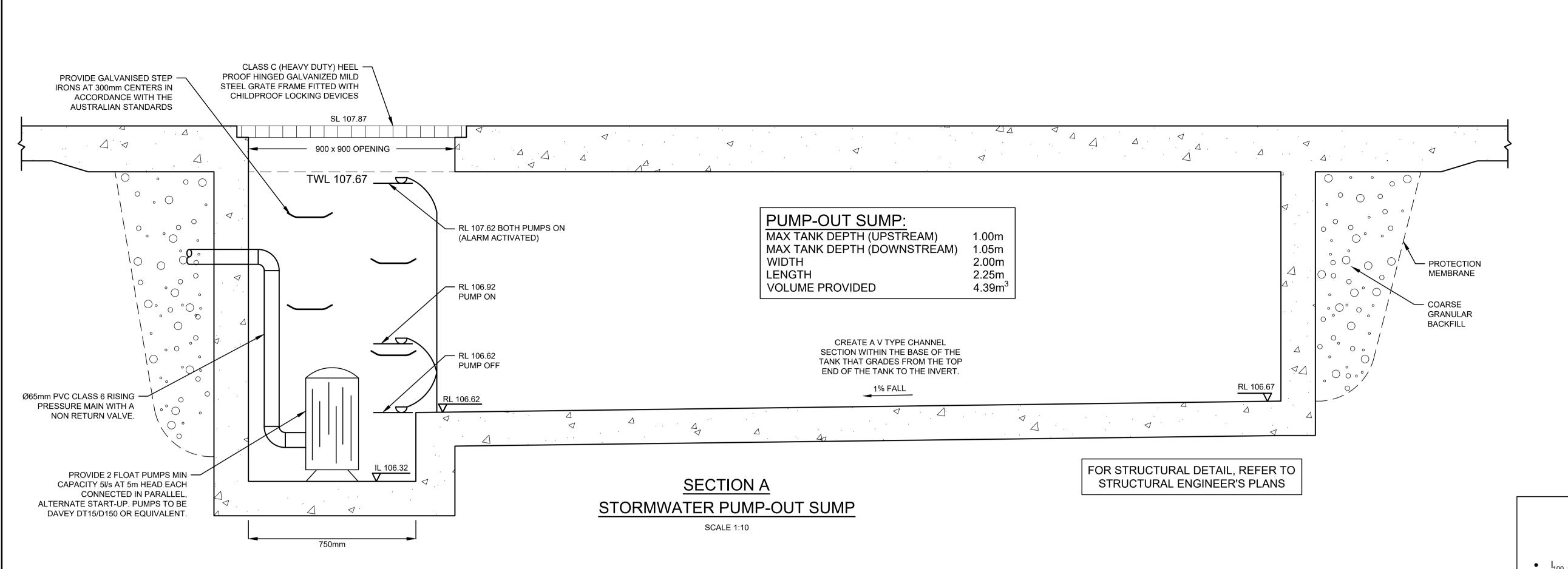
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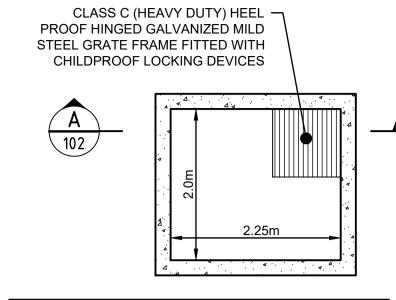


51 ARTHUR STREET, FORESTVILLE PROPOSED MIXED USE DEVELOPMENT BASEMENT LEVEL STORMWATER CONCEPT PLANS **DEVELOPMENT APPLICATION**

STORMWATER CONCEPT PLAN

SHEET 1 OF 2 200706 101 1:100





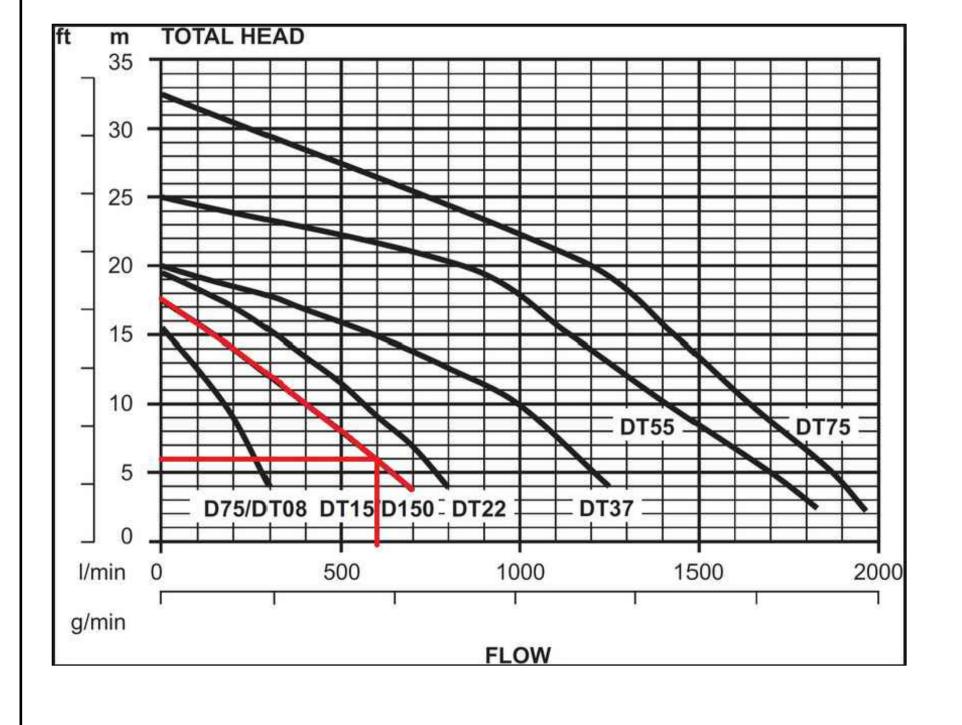
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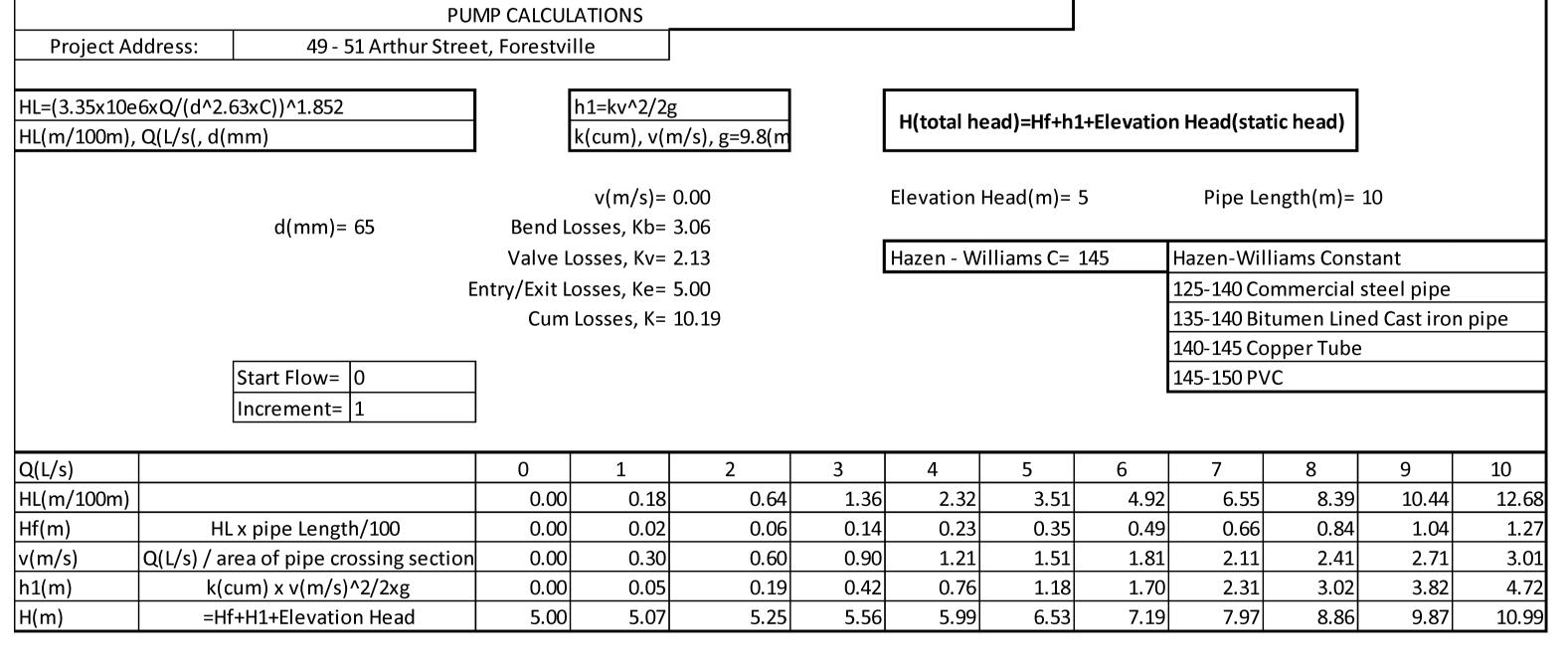
1- FOR ALL THE STRUCTURAL DETAILS, REFER TO STRUCTURAL ENGINEER'S PLAN. ALL THE AG LINES BEHIND BASEMENT WALLS TO BE CONNECTED TO PUMP-OUT SUMP.

PUMP-OUT SUMP DETAIL PLAN VIEW

PUMP STORAGE VOLUME CALCULATION

- = 80.55 mm/hour
- I_{100, 90 min} = 80.55 mm/nour
 PUMP STORAGE CATCHMENT AREA: A = 36.33 m² = 0.003633 ha • Q = C x I x A / 360 WHERE C = 1.0 (REFER TO AS3500.3.5.4.6 (a))
 - $= 1.0 \times 80.55 \times 0.003633 / 360$ $= 0.000813 \text{ m}^3/\text{s}$
 - = 0.813 L/s
- THEREFORE, THE PUMP HOLDING TANK VOLUME IS: $V = 0.813 \times 1.5 \times 3600$
- $= 4.39 \text{ m}^3$ TOTAL REQUIRED VOLUME IS 4.39m³





UNDERGROUND PUMP - OUT SUMP STAGED STORAGE CALCULATIONS

DEPTH (mm)	AREA (m²)	CUMULATIVE VOLUME (m³)
0	4.50	0
100	4.50	0.3375
200	4.50	0.7875
300	4.50	1.2375
400	4.50	1.6875
500	4.50	2.1375
600	4.50	2.5875
700	4.50	3.0375
800	4.50	3.4875
900	4.50	3.9375
1000	4.50	4.3875
1050	4.50	4.6125

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	Certification By Dr.	Dr. Anthony Hasham (NPER): Architect	Client	Scale	A USTRALIAN	Project	Drawing Title
		Ramsay Architects	l Gabrielian	0 200 400 600mm		51 ARTHUR STREET, FORESTVILLE	STORMWATER CONCEPT PLAN
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A ISSUE FOR DEVELOPMENT APPLICATION	11.19	PHONE: +61 406 601 903	Council	0 1 2 3 m	AUSTRALIAN ENGINEERS.	STORMWATER CONCEPT PLANS	SHEET 2 OF 2
A ISSUE FOR DEVELOPMENT APPLICATION	31/08/2020 EHZ JSF	EMAIL: lloyd@rameavarchitects.com.au	Northern Beaches		CONSULTING LEVEL (7.70 CHURCH STREET NORTH PARRAMETTA NOW 2150	STORWIN TER SONSELL LEARNS	
Issue Description	Date Design Checked	LIVIALE : IIOYU@Iairisayaiciiilecis.com.au	City Council	SCALE 1:50 @ A1	ENCINEEDS PH: (02) 9763 1500 FX: (02) 9763 1515	DEVELOPMENT APPLICATION	Scale A1 Project No. Dwg. No. Issue
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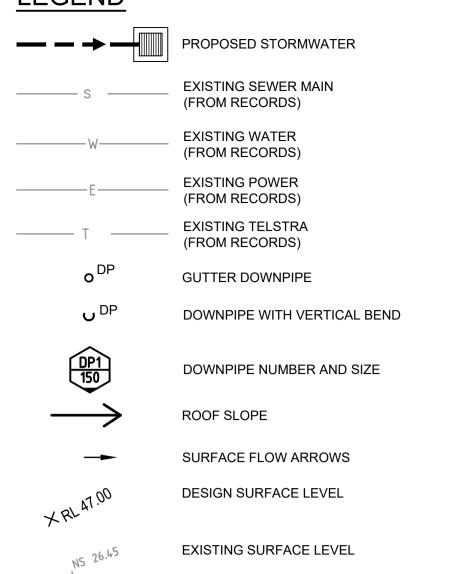
GENERAL NOTES

- ALL THE CLEANING EYES (OR INSPECTION EYES) FOR THE UNDERGROUND PIPES HAVE TO BE TAKEN UP TO THE FINISHED GROUND LEVEL FOR EASY IDENTIFICATION AND MAINTENANCE PURPOSES
- 2. ALL LEVELS SHALL RELATE TO THE ESTABLISHED BENCH MARK.
- 3. THE BUILDER SHALL ENSURE THAT THE STORMWATER ENGINEERS DRAWINGS CORRESPOND TO THE ARCHITECTURAL, STRUCTURAL AND LANDSCAPING DRAWINGS. IF THERE EXISTS AND DISCREPANCIES BETWEEN THE DRAWINGS, THE BUILDER SHALL REPORT THE DISCREPANCIES TO THE ENGINEER PRIOR TO COMMENCEMENT OF ANY WORKS
- 4. ALL MULCHING TO BE USED WITHIN THE AREA DESIGNATED AS ONS-SITE DETENTION STORAGE SHALL BE OF A NON-FLOTABLE MATERIAL SUCH AS DECORATIVE RIVER GRAVEL. PINE BARK MULCHING SHALL NOT BE USED WITHIN THE DETENTION STORAGE AREA.
- 5. ALL RETAINING WALLS SHALL BE CONSTRUCTED COMPLETELY WITHIN THE PROPERTY BOUNDARY LIMITS TO DETAILS PREPARED BY THE STRUCTURAL ENGINEER. WALLS FORMING THE ON-SITE DETENTION SYSTEM SHALL BE OF MASONARY/BRICK CONSTRUCTION AND WATER
- ALL SUB-SOIL DRAINAGE SHALL BE A MINIMUM OF 65MM DIA AND SHALL BE PROVIDED WITH A FILTER SOCK. THE SUBSOIL DRAINAGE SHALL BE INSTALLED IN ACCORDANCE WITH DETAILS TO BE PROVIDED BY THE LANDSCAPE ARCHITECT.
- PRIOR TO COMMENCING ANY WORKS, THE BUILDER SHALL ENSURE THAT THE INVERT LEVELS OF WHERE THE SITE STORMWATER SYSTEM CONNECTS INTO THE COUNCILS KERB/DRAINAGE SYSTEM MATCHED THE DESIGN LEVELS. ANY DISCREPANCIES SHALL BE REPORTED TO THE DESIGN ENGINEER IMMEDIATELY.
- 8. ALL LINES ARE TO BE Ø90 uPVC 1.0% GRADE UNLESS NOTED OTHERWISE CHARGED LINES TO BE SEWERGRADE & SEALED.
- 9. EXISTING SERVICES LOCATIONS SHOWN INDICATIVE ONLY.
- 10. IT IS THE CONTRACTORS RESPONSIBILITY TO LOCATE & LEVEL ALL EXISTING SERVICES PRIOR TO THE COMMENCEMENT OF ANY
- 11. ALL PIPES TO HAVE MIN 150mm COVER IF LOCATED WITHIN PROPERTY.
- 12. ALL PITS IN DRIVEWAYS TO BE 450x450 CONCRETE AND ALL PITS IN LANDSCAPED AREAS TO BE 450x450PLASTIC.
- 13. PITS LESS THAN 450 DEEP MAY BE BRICK, PRECAST OR CONCRETE.
- 14. ALL BALCONIES AND ROOFS TO BE DRAINED AND TO HAVE SAFETY OVERFLOWS IN ACCORDANCE WITH RELEVANT AUSTRALIAN STANDARDS
- 15. ALL EXTERNAL SLABS TO BE WATERPROOFED.
- 16. ALL GRATES TO HAVE CHILD PROOF LOCKS.
- 17. ALL DRAINAGE WORKS TO AVOID TREE ROOTS.
- 18. ALL DP'S TO HAVE LEAF GUARDS.
- 19. ALL EXISTING LEVELS TO BE CONFIRMED BY BUILDER PRIOR TO CONSTRUCTION.
- PRIOR TO CONSTRUCTION. 21. COUNCIL'S ISSUED FOOTWAY DESIGN LEVELS TO BE INCORPORATED INTO

20. ALL WORK WITHIN COUNCIL RESERVE TO BE INSPECTED BY COUNCIL

- THE FINISHED LEVELS ONCE ISSUED BY COUNCIL.
- 22. ALL WORK SHALL BE IN ACCORDANCE WITH B.C.A. AND A.S.3500.3. 23. REFER TO LANDSCAPE ARCHITECT'S DRAWINGS FOR LANDSCAPING.
- 24. ALL WALLS FORMING THE DETENTION BASINS SHALL BE CONSTRUCTED WHOLLY WITHIN THE PROPERTY BOUNDARIES OF THE SITE BEING DEVELOPED.
- 25. OSD WARNING SIGN AND SAFETY FENCING SHALL BE PROVIDED TO ABOVE GROUND OSD STORAGE AREA IN ACCORDANCE WITH COUNCIL'S REQUIREMENTS.
- 26. ENSURE THAT NON FLOATABLE MULCH IS USED IN DETENTION BASINS, ie, USE DECORATIVE ROCK MULCH OR EQUIVALENT.
- 27. 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
- 28. ALL PIPES IN BALCONIES TO BE Ø65 uPVC 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.

LEGEND



Ø65 RISER WITH

NON-RETURN VALVE

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**

PIPES NOTE:

ROOF NOTE:

MAKE CONNECTION WITH EXISTING — KERB TO COUNCIL'S REQUIREMENTS

AT INVERT IL 109.75 (TOK 19.90).

DEMOLISH EXISTING DRIVEWAY —

VEHICULAR CROSSING POLICY

MAKE CONNECTION WITH EXISTING —

AT INVERT IL 109.50 (TOK 109.65).

KERB TO COUNCIL'S REQUIREMENTS

COMPLY WITH COUNCIL

AND CONSTRUCT NEW DRIVEWAY

CROSSOVER SIZE AND LAYOUT TO

ALL ROOF DRAINAGE SYSTEM TO BE IN ACCORDANCE WITH BASIX REPORT & IS SUBJECT TO DETAILED DESIGN STAGE.

110.81 MH ©

TOK 110.62 >

110.22

TOK 110.7

TOK 110.84

ROOF NOTE:

IT IS CONTRACTOR'S RESPONSIBILITY TO ENSURE MINIMUM 30 TO 40MM OF PONDING IS ACHIEVED OVER THE RAINWATER OUTLETS BY GRADING CATCHMENTS' SURFACES AT MINIMUM 0.5% FALL FOR PAVED SURFACES AND MINIMUM 1% FALL FOR OTHER SURFACES.

111.22 Sign \

- PROPOSED 200 x 105

BOX GUTTER

PIT 1 450 x 450 SL 110.1

IL 109.80

- S PARKING

BITUMEN

Ø150 PVC

PROPOSED 200 x 105

_ 111,740

BOX GUTTER

SHOP

BASEMENT

- S PARKING

THIS JOB IS EXEMPT FROM ON SITE DETENTION DESIGN SINCE ACCORDING TO "WARRINGAH LOCAL ENVIRONMENTAL PLAN 2000", PART 4, DIVISION 6, CLAUSE 76, IT CAN BE DEMONSTRATED THAT:

LINE OF BASEMENT BELOW

450 x 450 SL 10.50

IL 10.20

TOK 112.24

TELSTRA

GRASS

5.26─ Ø65 RISER WITH

NON-RETURN VALVE

116.18

112.08

PARKING S PARKING S PARKING S PARKING S

PATH

PROPOSED 200 x 105

— 112,390

DP6 150

DRY STORE

BOX GUTTER

AWNING AREA TO BE COLLECTED AND

KERB AND GUTTER AS SHOWN IN RED

- PROPOSED 200 x 105

___111,940

Ø150 PVC

— 111,000

RENDERED GARAGE

TILED ROOF

GROUND FLOOR PLAN

SCALE 1:100

ROOF OUTLINE

BOX GUTTER

DISCHARGED SEPARATELY TO THE

- THE ADDITIONAL IMPERVIOUS SURFACE RESULTING FROM THE DEVELOPMENT WILL NOT EXCEED 50m² IN AREA AND
- THE ADDITIONAL RUNOFF CREAED BY THE DEVELOPMENT WILL NOT ADVERSELY AFFECT ANY NATURAL OR CONSTRUCTED DRAINAGE SYSTEM EITHER DOWNSTREAM OR UPSTREAM OF THE DEVELOPMENT SITE.

Number Used Gutter Width Number Req'd **Gutter Depth?** Gutter Area? 90 Dia: 2.56 7684 120 7684 **100** Dia: 2.02 120 105 150 Dia: 0.81 20628 200 225 Dia: 0.32 105 20628 200 300 Dia: 0.17

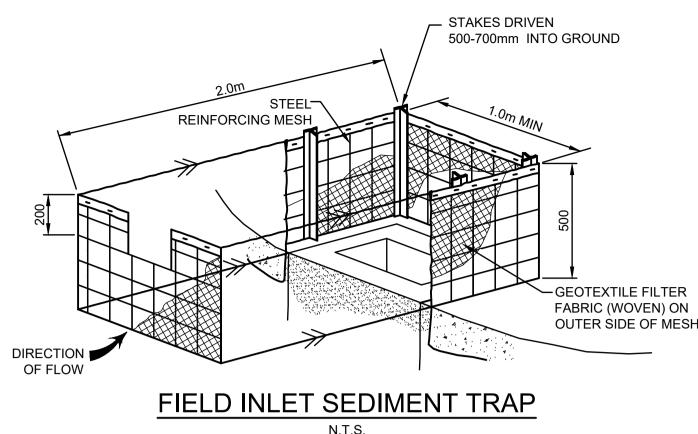
BOX GUTTER CALCULATION

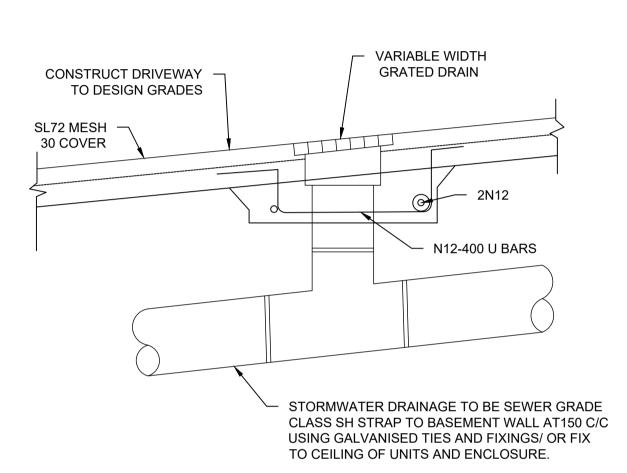
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		Certification By Dr. Anthony Hasham (NPER):	Architect	Client	Scale	A USTRALIAN	Project	Drawing Title	
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A ISSUE FOR DEVELOPMENT APPLICATION	31/08/2020 EHZ JSF	April word	PHONE : +61 406 601 903	Northern Beaches	SCALE 1:100 @ A1	AUSTRALIAN PTY LTD - A.C.N. 084 059 941	STORMWATER CONCEPT PLANS		
Issue Description	Date Design Checked	Wat Day	EMAIL : lloyd@ramsayarchitects.com.au	, I		CONSULTING LEVEL 4, 470 CHURCH STREET NORTH PARRAMATTA NSW 2150	DEVELOPMENT APPLICATION	Scale A1 Project No.	Dwg. No. Iss
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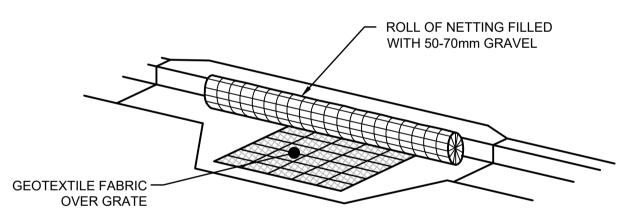
SEDIMENT & EROSION NOTES

- 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
- 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.

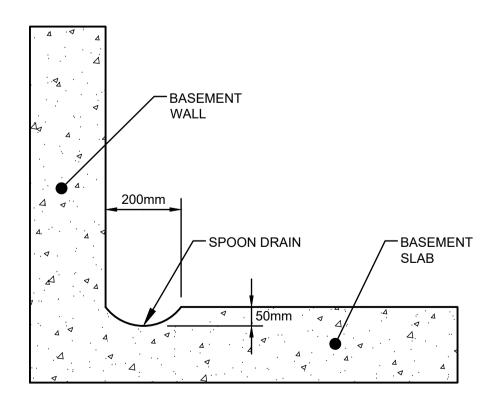






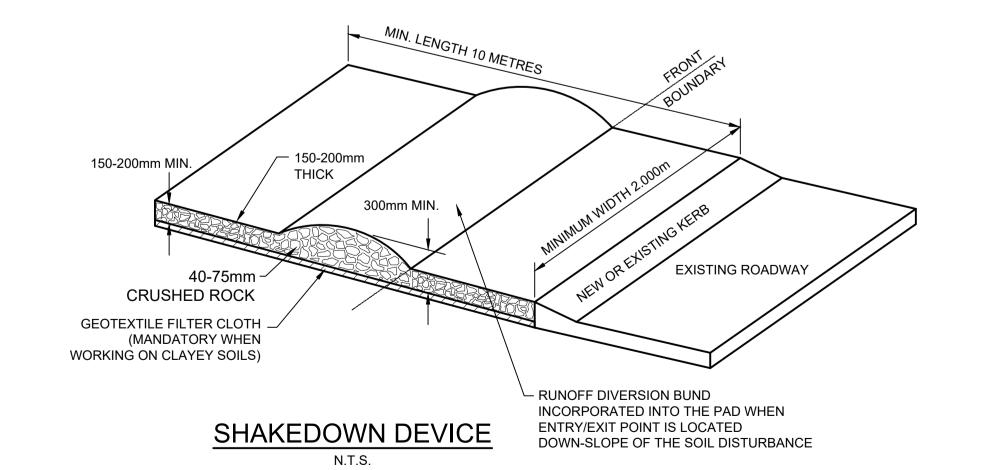


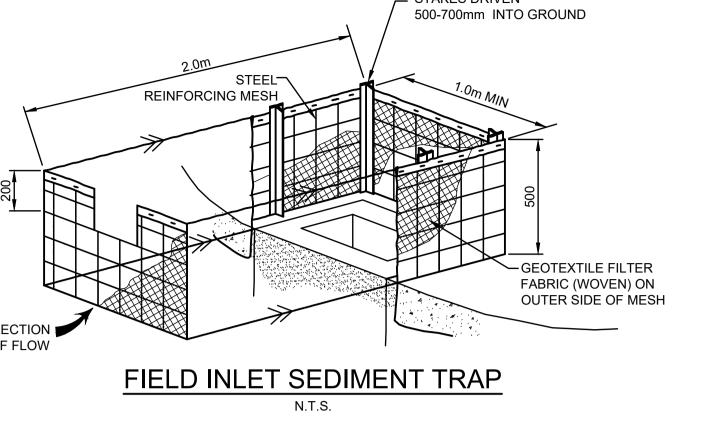
KERB INLET PROTECTION SAG GULLIES

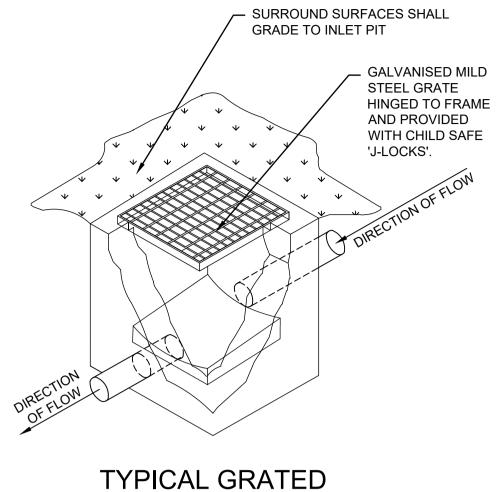


SPOON DRAIN SECTION DETAIL

SCALE 1:10







TYPICAL GRATED **INLET PIT DETAIL**

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.

"QUICKSERT" SLAB

UNITS OR EQUIVALENT

PENETRATION

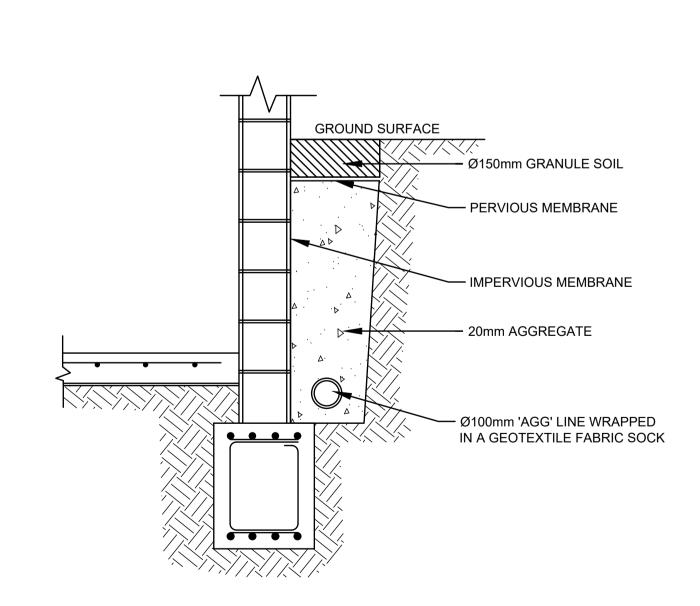
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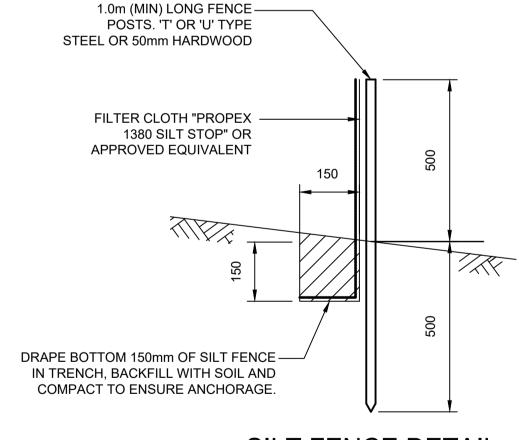
CONCRETE

ON PLAN)

RAINWATER OUTLET DETAIL N.T.S.



TYPICAL SUBSOIL DRAIN



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

		Ceri	ertification By Dr. Anthony Hasham (NPER):	Architect	Client	Scale	A USTRALIAN	Project	Drawing Title	,
		/		Ramsay Architects	Gabrielian			51 ARTHUR STREET, FORESTVILLE	MISCELLANEOUS	
			11 10	Sydney Auckland	Holdings Pty. Ltd	0 200 400 600mm	CONSULTING	PROPOSED MIXED USE DEVELOPMENT	DETAILS SHEET	
В	ARCHITECTURAL AMENDMENTS	02/10/2020 EHZ JSF	VI- Mills		Council	1 	ENGINEERS.			
Α	ISSUE FOR DEVELOPMENT APPLICATION	31/08/2020 EHZ JSF	April 1 100th	PHONE: +61 406 601 903	Northern Beaches	SCALE 1:10 @ A1	AUSTRALIAN PTY LTD - A.C.N. 084 059 941	STORMWATER CONCEPT PLANS		
Issue	Description	Date Design Checked	11 Albert	EMAIL : lloyd@ramsayarchitects.com.au			CONSULTING LEVEL 4, 470 CHURCH STREET NORTH PARRAMATTA NSW 2150	DEVELOPMENT APPLICATION	Scale A1 Project No. Dwg. N	No. Issue
0	1cm at full size	20cm	1 000		City Council		ENGINEERS. EMAIL: info@aceeng.com.au	DEVELOTIVIENT AND ELOCATION	As Shown 200706 1	104 l B