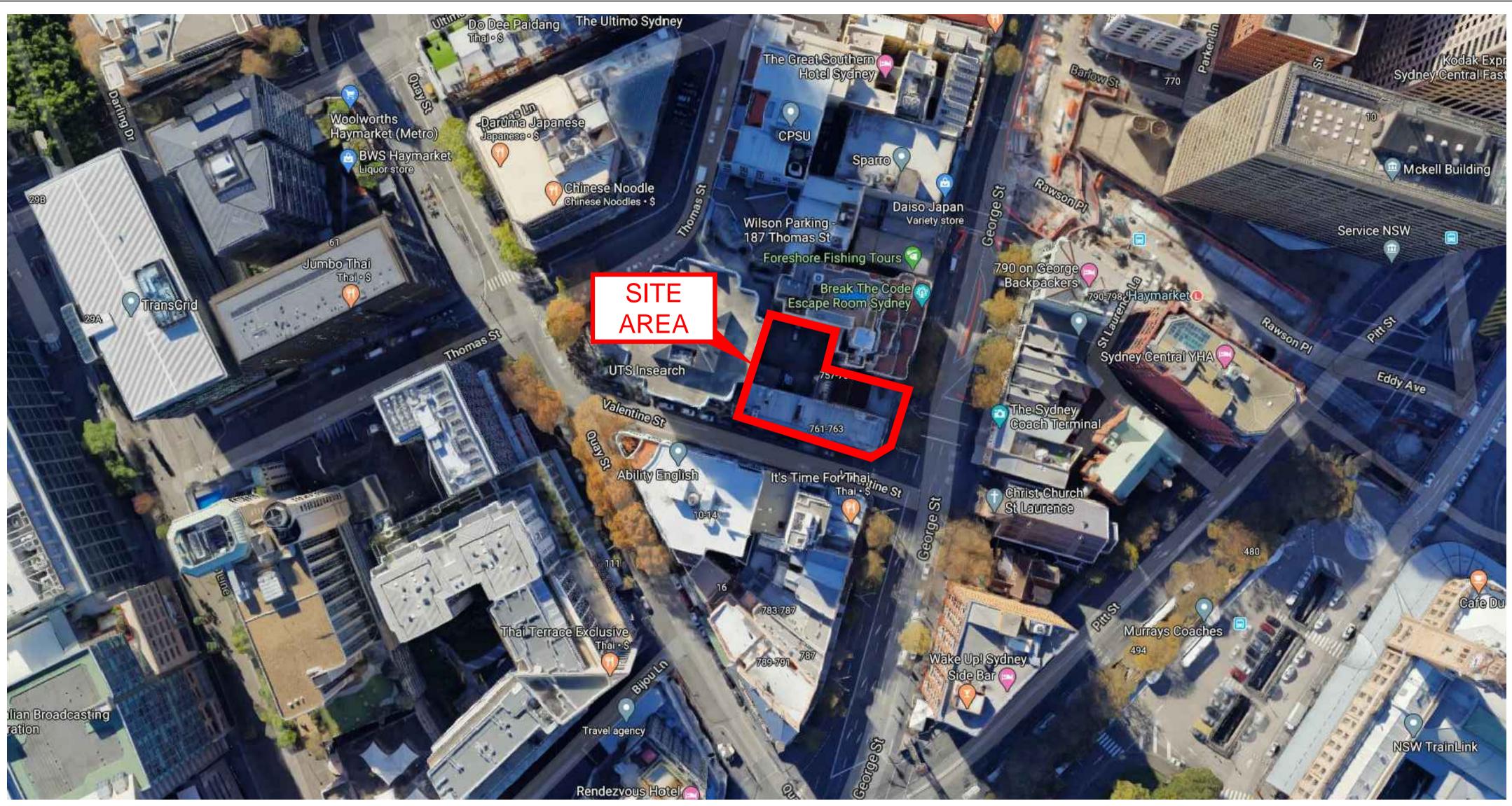
757-763 GEORGE STREET, HAYMARKET PROPOSED MIXED-USE DEVELOPMENT STORMWATER CONCEPT PLANS



					Certification By Dr. Anthony Hasham (NPER):	Architect
						Grimshaw
					() (Level 2 333 George Street
					U. Miton	Sydney, NSW 2000, AUS
А	ISSUE FOR PLANNING PROPOSAL	29/09/2020	AGN	JSF		PHONE : +612 9253 0200
Issue	Description	Date	Design	Checked		Email : Fergus.Dinwiddie@grimshaw.global
0 10	cm at full size 10cm			20cm	1 20	WEB : www.grimshaw.global

LOCALITY PLAN N.T.S

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

Samprian Pty Ltd City of Sydney Council



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 EMAIL: info@aceeng.com.au

AUSTRALIAN

757-763 GEORGE PROPOSED MIXE **STORMWATE** PLANNI

		NOT FOR CONS	TRUCTION				
E STREET, HAYMARKET ED-USE DEVELOPMENT ER CONCEPT PLANS	COVER SHEET PLAN						
ING PROPOSAL	Scale A1 N.T.S.	Project No. 200144	Dwg. No. 000	Issue A			

LEGEND	
→	PROPOSED STORMWATER
	SURFACE FLOW ARROWS
<u> </u>	SUBSOIL DRAINAGE
-0-	CLEANING EYE (OR INSPECTION EYE)
	PROPOSED STORAGE AREA
× RL 27.56	FINISHED SURFACE LEVEL
FG	FLOOR GRATE

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.





DANGER

CONFINED SPACE

NO ENTRY WITHOUT

CONFINED SPACE

TRAINING

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.

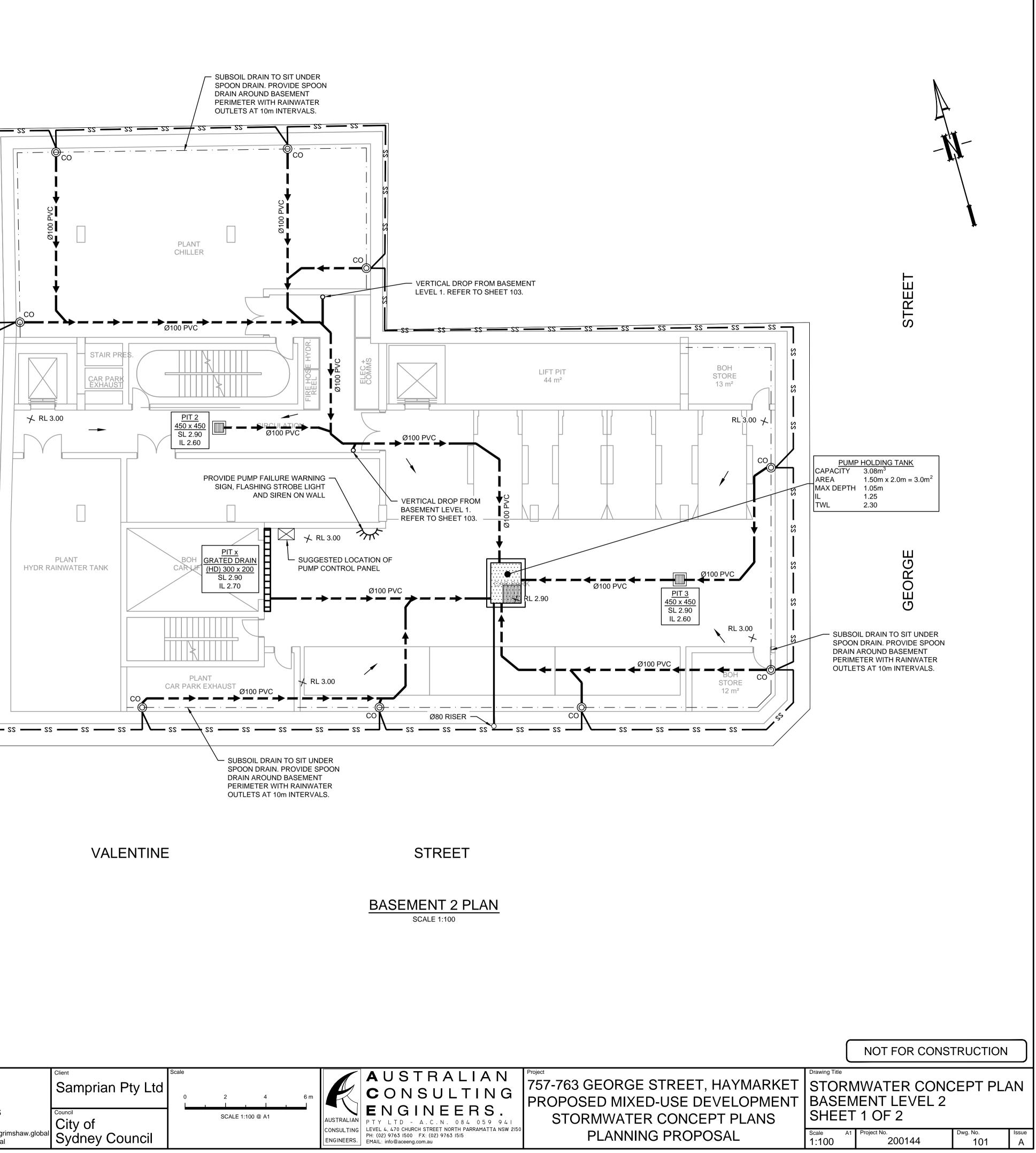
B) MINIMUM DIMENSIONS OF THE SIGN - 300mm x 450mm (LARGE ENTRIES, SUCH AS DOORS) -250mm x 180mm (SMALL ENTRIES SUCH AS GRATES & MANHOLES)

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

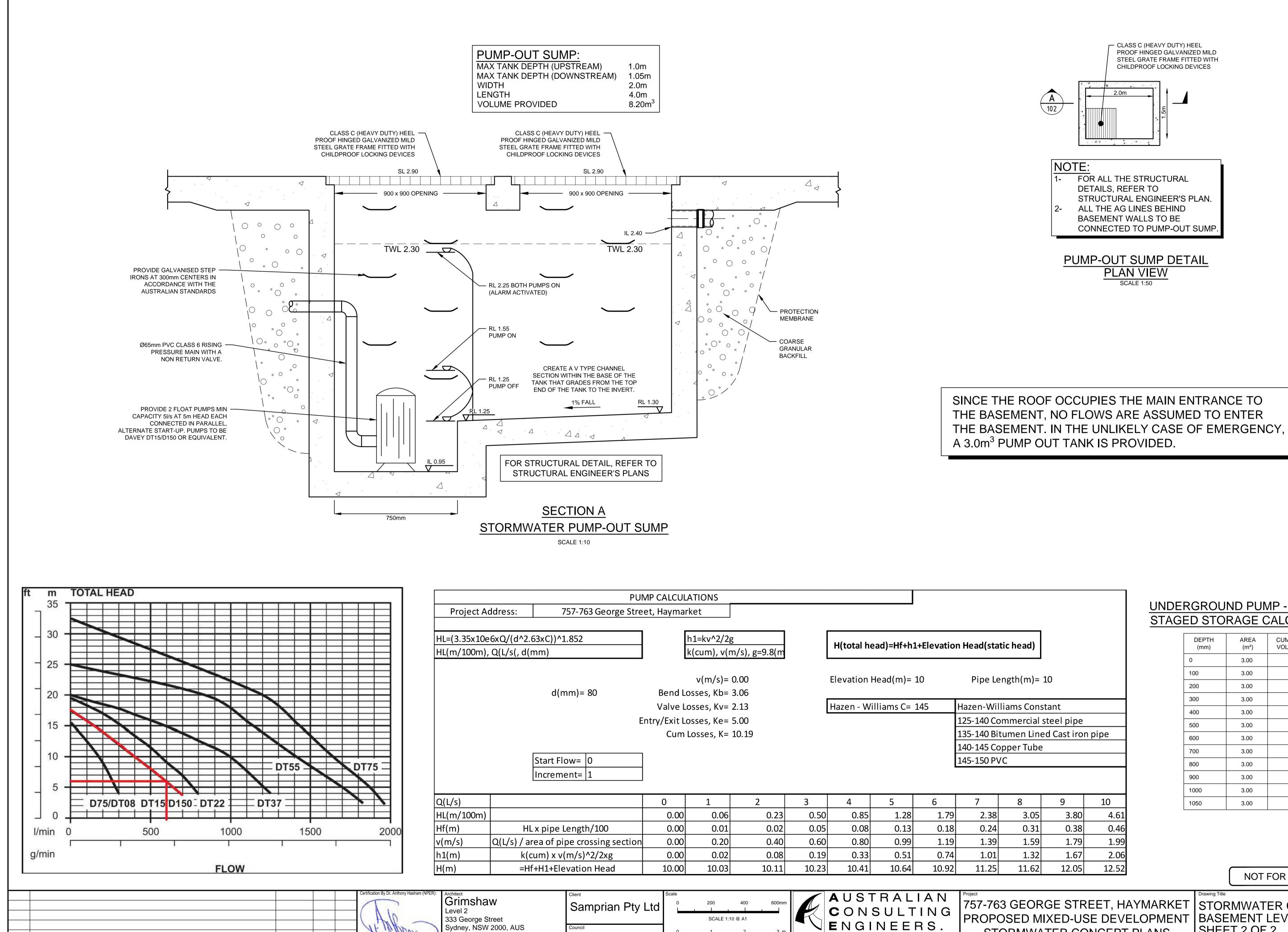
D) SIGN SHALL BE AFFIXED USING SCREWS AT EACH CORNER OF THE SIGN

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

					The	Architect Grimshaw Level 2 333 George Street	Samprian Pty Ltd	Scale 0 2 4 6 m	
A	ISSUE FOR PLANNING PROPOSAL	29/09/2020	AGN	JSF	He Milliony	Sydney, NSW 2000, AUS	Council City of	SCALE 1:100 @ A1	AUSTR
	Description	Date	Design (20cm	Matter	Email : Fergus.Dinwiddie@grimshaw.global WEB : www.grimshaw.global	Sydney Council		







ISSUE FOR PLANNING PROPOSAL

29/09/2020 | AGN | JSF

Design Checked

Date

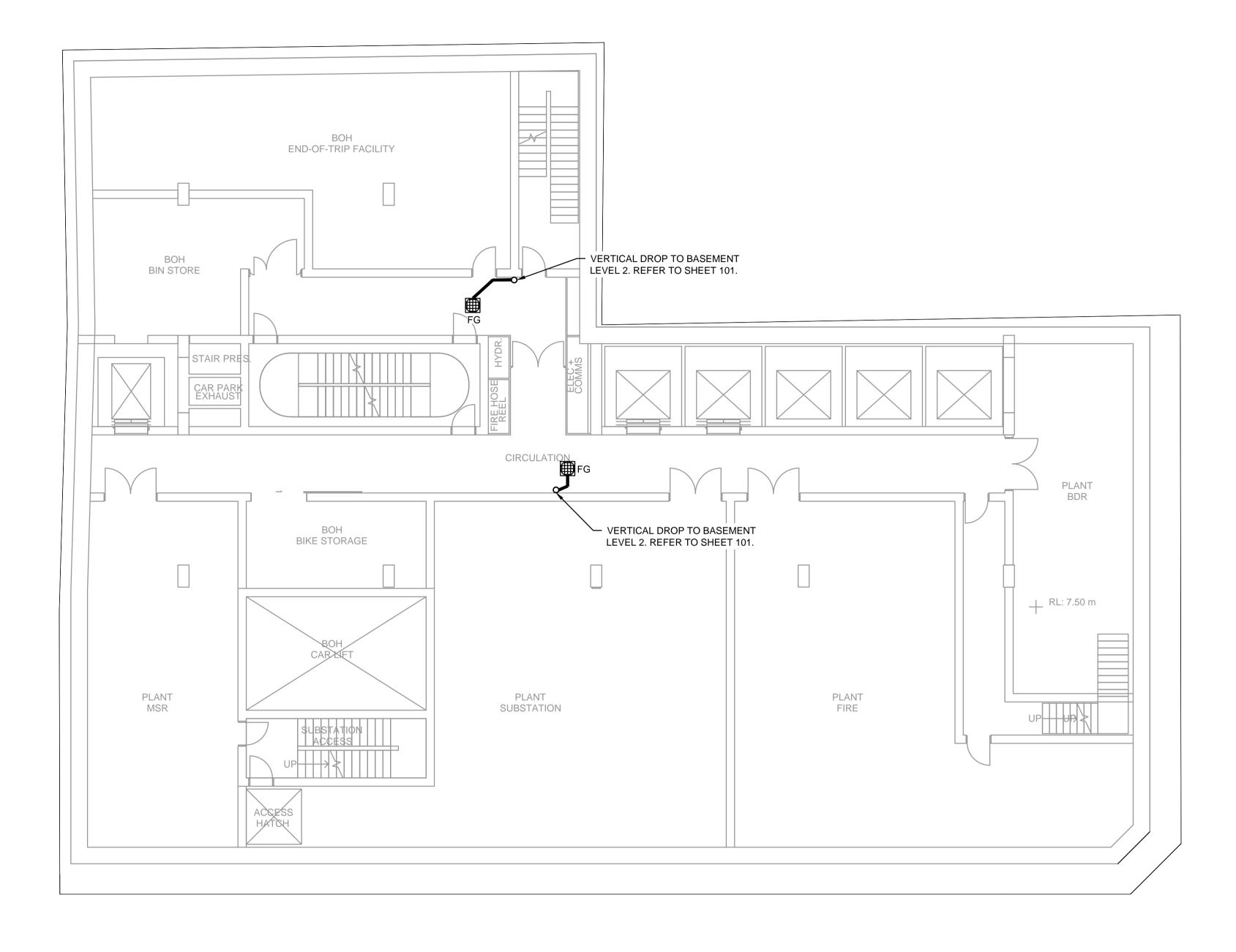
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Issue Description

		PUI	MP CALCULA	TIONS												יו ים חוא			
Project Addro	ress: 7	57-763 George Stre	et, Haymark	et													<u>MP - OUT</u> CALCULA ⁻		
HL=(3.35x10e6x0 HL(m/100m), Q(852		1=kv^2/2g	-	[H(total hea	ad)=Hf+h1·	+Elevatio	n Head(stat	tic head)			<u>0170</u>	DEPTH (mm)	AREA (m²)	CUMULATIVE VOLUME (m ³)		
	(L/S(, U(IIIII)		K	(cum), v(i	n/s), g=9.8(m	L									0	3.00	0		
				v(m/s)=	0.00		Elevation H	$e_{2}d(m) = 1$	0	Dinala	ngth(m) -	10			100	3.00	0.225		
	d(m	nm)= 80	Bendlog	sses, Kb=			Elevation Head(m)= 10 Pipe Length(m)= 10					200	3.00	0.525					
	u(n	111)- 80		sses, KD=		Г	Hazen - Wil	liams (- 1	15	Hazen-Wil	liams Cons	stant			300	3.00	0.825		
		c	ntry/Exit Los			L			145	125-140 Co					400	3.00	1.125		
		L	•	osses, Ke=								ed Cast iron	nine		500	3.00	1.425		
			Cum	03383, K-	10.15					140-145 Co			pipe		600	3.00	1.725		
	Start Flo	w = 0								145-150 PV	••				700	3.00	2.025		
	Increme									145 1501 0	<u> </u>				800	3.00	2.325		
	Interente														900	3.00	2.625		
Q(L/s)			0	1	2	3	4	5	6	7	8	9	10		1000 1050	3.00	2.925 3.075		
HL(m/100m)			0.00	0.06	0.23	0.50	0.85	1.28	1.79	2.38	3.05	3.80	4.61]	
Hf(m)	HL x pipe L	.ength/100	0.00	0.01	0.02	0.05	0.08	0.13	0.18	0.24	0.31	0.38	0.46						
	(L/s) / area of pip	pe crossing section	0.00	0.20	0.40	0.60	0.80	0.99	1.19	1.39	1.59	1.79	1.99						
h1(m)	k(cum) x v(m/s)^2/2xg	0.00	0.02	0.08	0.19	0.33	0.51	0.74	1.01	1.32	1.67	2.06						
H(m)	=Hf+H1+Ele	vation Head	10.00	10.03	10.11	10.23	10.41	10.64	10.92	11.25	11.62	12.05	12.52						
																	FOR CONS	RUCTION	
Architect Grimshaw Level 2 333 George Street Sydney, NSW 200 PHONE : +612 9253 C Email : Fergus.Diny	00, AUS	Client Samprian Pty Council City of	0	200 SCALE 1:1	2 3 m	AUSTRALIAN CONSULTING	CONS ENGI	NEEF . C . N . 0 8 4 STREET NORTH PARE	ING RS.	PROPC	DSED M DRMWA		E DEVE NCEPT		T BASE SHEE	MENT T 2 OF		CEPT PL	AN Issue
WEB : www.grimsh	haw.global	Sydney Counc		SCALE 1:5	U @ A1	ENGINEERS.	EMAIL: info@aceeng.com	n.au			FLAN		10503/	1L	As Show	vn	200144	102	А

UNDERGROUND PUMP - OUT SUMP
STAGED STORAGE CALCULATIONS

DEPTH (mm)	AREA (m²)	CUMULATIVE VOLUME (m ³)
0	3.00	0
100	3.00	0.225
200	3.00	0.525
300	3.00	0.825
400	3.00	1.125
500	3.00	1.425
600	3.00	1.725
700	3.00	2.025
800	3.00	2.325
900	3.00	2.625
1000	3.00	2.925
1050	3.00	3.075



VALENTINE

					Certification By Dr. Anthony Hasham (NPER):	Architect Grimshaw Level 2 333 George Street Sydney, NSW 2000, AUS
А	ISSUE FOR PLANNING PROPOSAL	29/09/2020	AGN	JSF	Holly more	PHONE : +612 9253 0200
Issue	Description	Date	Design	Checked	Mart	Email : Fergus.Dinwiddie@gri
0 1	m at full size 10cm			20cm		WEB : www.grimshaw.global

STREET

BASEMENT 1 PLAN SCALE 1:100

ırimshaw.globa al	Client Samprian Pty Ltd Council City of Sydney Council	0 2 4 6 m	AUSTRALIAN AUSTRALIAN CONSULTING ENGINEERS. AUSTRALIAN CONSULTING ENGINEERS. AUSTRALIAN CONSULTING ENGINEERS. AUSTRALIAN CONSULTING ENGINEERS. AUSTRALIAN CONSULTING ENGINEERS. AUSTRALIAN CONSULTING ENGINEERS. AUSTRALIAN CONSULTING ENGINEERS. AUSTRALIAN CONSULTING ENGINEERS. AUSTRALIAN CONSULTING ENGINEERS. AUSTRALIAN CONSULTING ENGINEERS. AUSTRALIAN CONSULTING ENGINEERS.	Project 757-763 GEORGE PROPOSED MIXE STORMWATEF PLANNIN
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E STREET, HAYMARKET D-USE DEVELOPMENT R CONCEPT PLANS		IWATER CONC IENT LEVEL 1 1 OF 2	EPT PLA	١N
NG PROPOSAL	Scale A1 1:100	Project No. 200144	Dwg. No. 103	lssue A

NOT FOR CONSTRUCTION



LEGEND	ก	12.07 PARAPET RL 49.32
— – → –– I	PROPOSED STORMWATER	
mmmmung Jummmun	PIPE OVERCROSSING MINIMUM 150mm CLEARANCE	MOT MOT
——— E×S———	_ EXISTING SEWER MAIN (FROM RECORDS)	MALL 11.66
——— E×W	EXISTING WATER (FROM RECORDS)	× FFL 11.98 12.61 12.07
——— E×E———	EXISTING POWER (FROM RECORDS)	
———— E×G———	EXISTING GAS (FROM RECORDS)	
——— E×T———	_ EXISTING TELSTRA (FROM RECORDS)	
o ^{DP}	DOWNPIPE	12.02
RWO	RAINWATER OUTLET	
NS 26.45 +	EXISTING SURFACE LEVEL	INDER STAIR PRES. CAR FARMAUST
[IL 47.00]	INVERT LEVEL OF PIPE JUNCTION	
+ + + + + + + + + + + + + + + + + + +	PROPOSED WSUD AREA	
	TILED AREA	PIPE TO BE MOUNTED TO GROUND SOFFIT AND DISCHARGED INTO WSUD CHAMBER TO BASEMENT 1
	TREES TO BE RETAINED	
	TREES TO BE REMOVED	
		PIPE TO BE MOUNTED TO BASEMENT SOFFIT
		BOH LOADING DOCK
		CONC RENDERED PLANT ROOM
		12.76
		EXT EXT EXT EXT EXT GAS EXT TOK 12.69
Ø65	PES NOTE: PVC @ MIN 1.0%	TOK 12 52
Ø100	PVC @ MIN 1.0% 0 PVC @ MIN 1.0%	TRACHYTE PARKING UNKNOWN METER SERVICE PIT PARKING/NO PIT 2 PARKING SIGN
Ø22	0 PVC @ MIN 1.0% 5 PVC @ MIN 0.5% 0 PVC @ MIN 0.4%	$ E \times G E \times G$
	ESS NOTED OTHERWISE	ExS ExS ExS ExS
		GENERAL NOTES
IT IS CO	NOTE: NTRACTOR'S	1. ALL THE CLEANING EYES (OR INSPECTION EYES) FOR THE UNDERGROUND PIPES HAVE TO BE TAKEN UP TO THE FINISHED GROUND LEVEL FOR FASY IDENTIFICATION AND MAINTENANCE PURPOSES 6. ALL SUB-S BE PROVID INSTALLED
MINIMUM	ISABILITY TO ENSURE M 30 TO 40mm OF PONDING IS	LEVEL FOR EASY IDENTIFICATION AND MAINTENANCE PURPOSESLANDSCAF2. ALL LEVELS SHALL RELATE TO THE ESTABLISHED BENCH MARK.7. PRIOR TO
	ED OVER THE RAINWATER	3. THE BUILDER SHALL ENSURE THAT THE STORMWATER ENGINEERS CONNECT

- 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
- ALL MULCHING TO BE USED WITHIN THE AREA DESIGNATED AS ONS-SITE 9. EXISTING SERVICES LOCATIONS SHOWN INDICATIVE ONLY 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.
- ALL RETAINING WALLS SHALL BE CONSTRUCTED COMPLETELY WITHIN 5. 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 TIGHT.

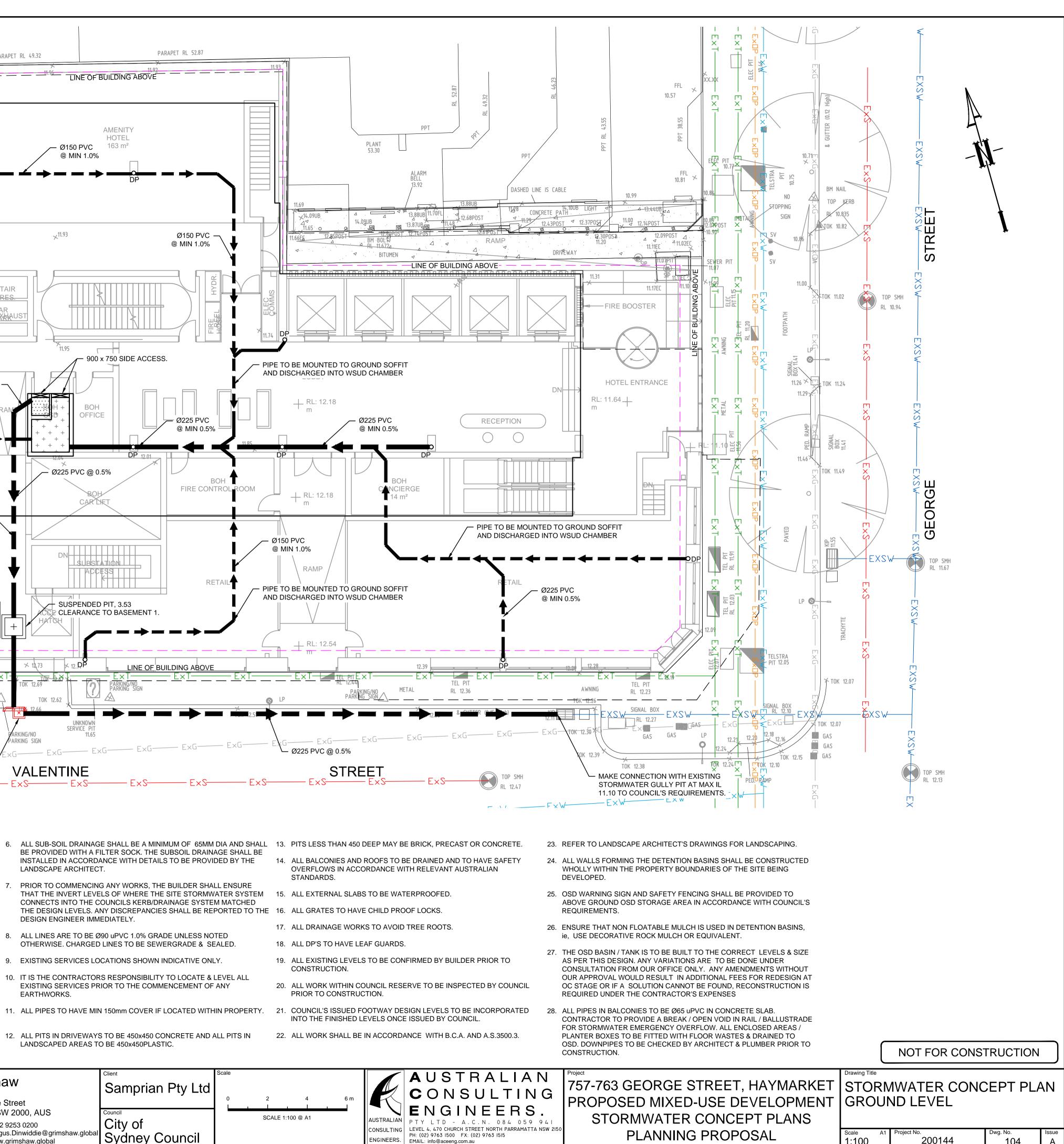
					Certification By Dr. Anthony Hasham (NPER):	Architect Grimshaw Level 2
					(Aller	333 George Street Sydney, NSW 2000, AUS
А	ISSUE FOR PLANNING PROPOSAL	29/09/2020	AGN	JSF	Hollowich	PHONE : +612 9253 0200
Issue	Description	Date	Design	Checked	1 Cart	Email : Fergus.Dinwiddie@g
1c	m at full size 10cm			20cm		WEB : www.grimshaw.globa

OUTLETS BY GRADING CATCHMENT'S

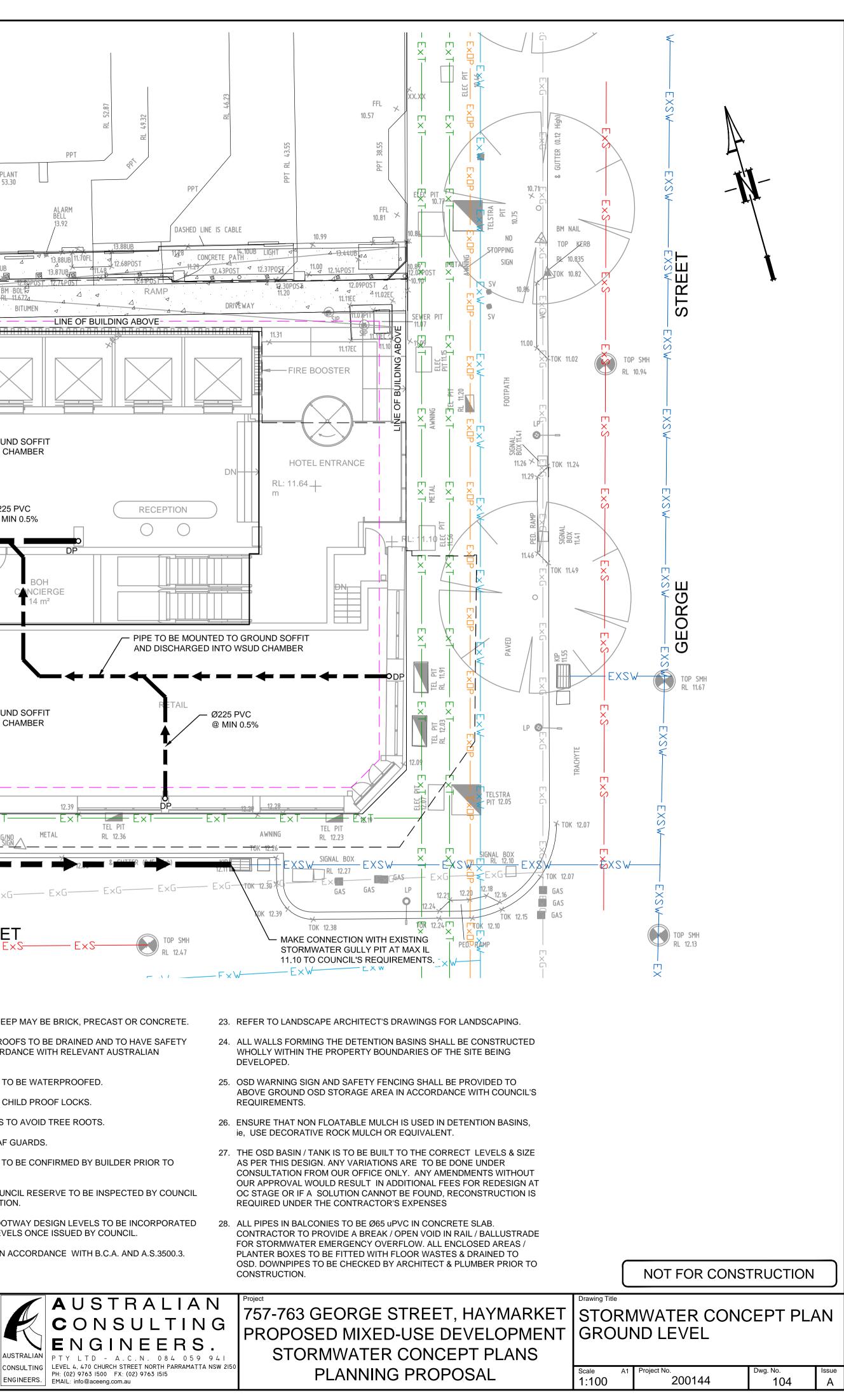
FOR PAVED SURFACES AND MINIMUM

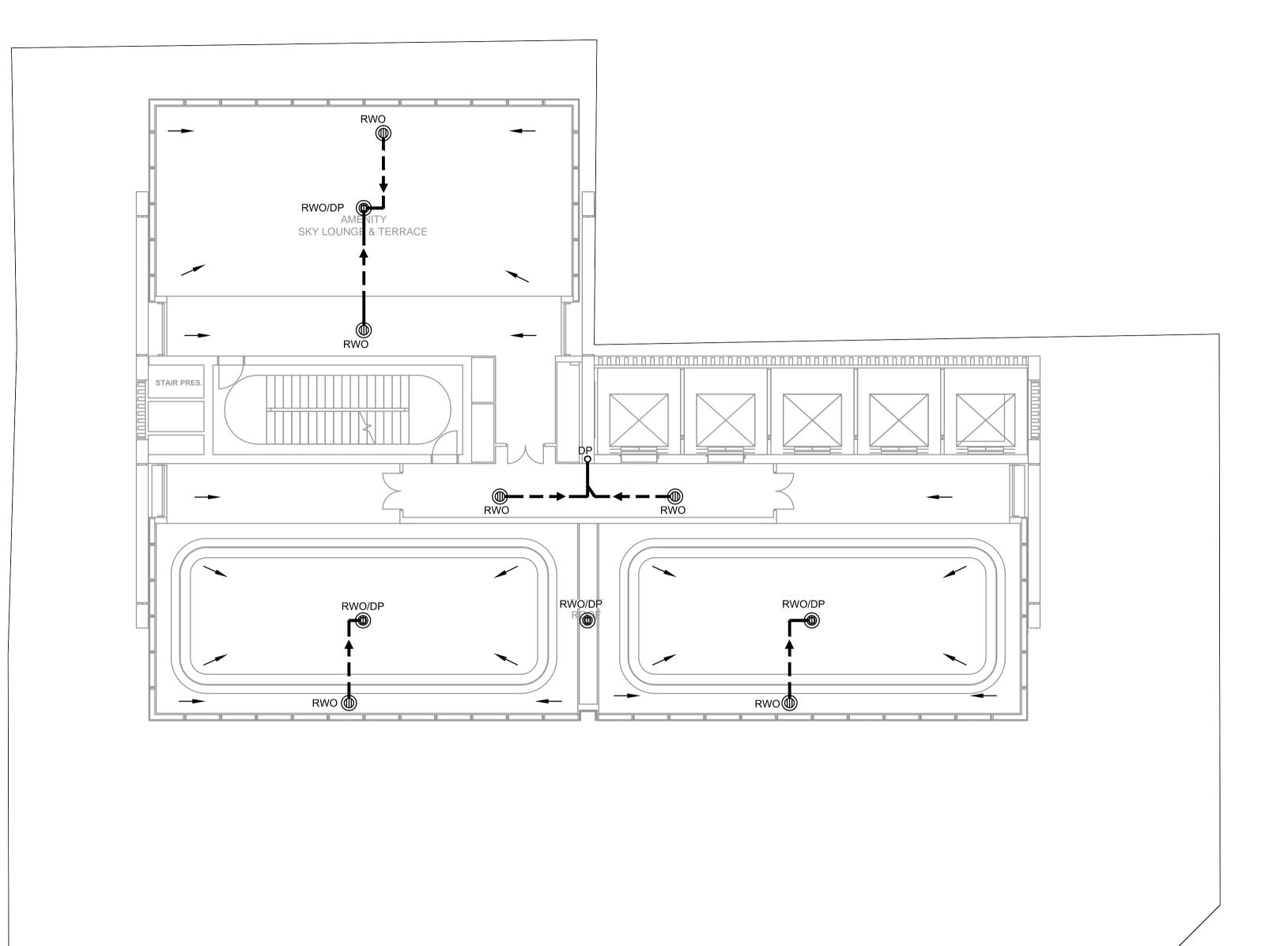
SURFACES AT MINIMUM 0.5% FALL

1.0% FALL FOR OTHER SURFACES ..



	Client	Scale					
	Samprian Pty Ltd						
		0	2		4	6 m	1
S @grimshaw.global	Council City of Sydney Council		SCAL	E 1:100	@ A1	-	A C
bal	Sydney Council						E

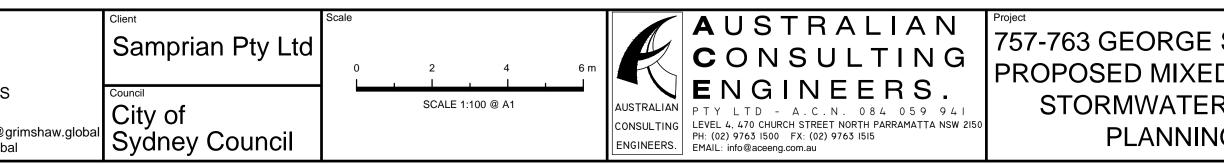




VALENTINE

A	ISSUE FOR PLANNING PROPOSAL Description	29/09/2020 Date	AGN	JSF	Ho Tuning	Architect Grimshaw Level 2 333 George Street Sydney, NSW 2000, AUS PHONE : +612 9253 0200 Email : Fergus.Dinwiddie@gri
0 1c	na full size 10cm			20cm		WEB : www.grimshaw.global

STREET

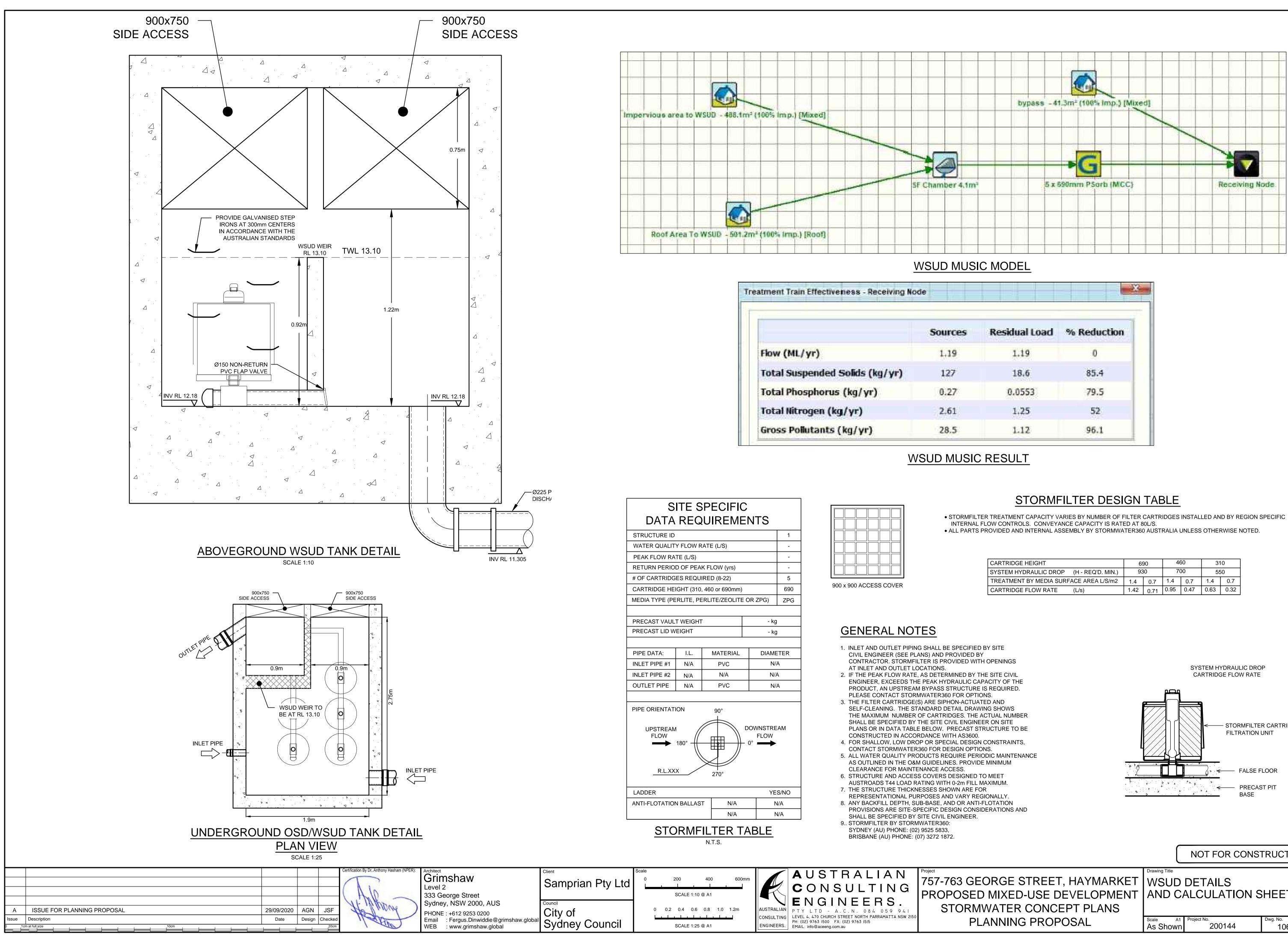


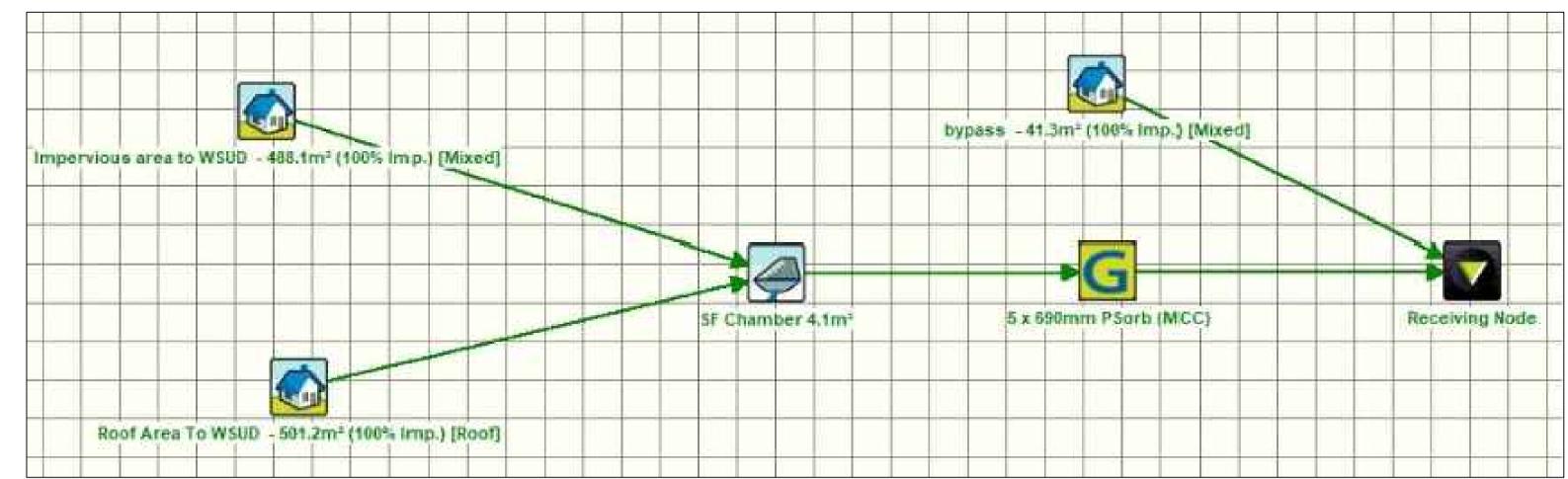
	Ø Ø Ø Ø Ø Ø Ø Ø Ø	PIPES NOTE: Ø65 PVC @ MIN 1.0% Ø90 PVC @ MIN 1.0% Ø100 PVC @ MIN 1.0% Ø150 PVC @ MIN 1.0% Ø225 PVC @ MIN 0.5% Ø300 PVC @ MIN 0.4% UNLESS NOTED OTHERWISE					
		NOT FOR CONS	TRUCTION				
E STREET, HAYMARKET ED-USE DEVELOPMENT ER CONCEPT PLANS	Drawing Title STORN ROOF	CEPT PLA	AN Issue				
NG PROPOSAL	1:100	Project No. 200144	⁰ 105	А			

GEORGE

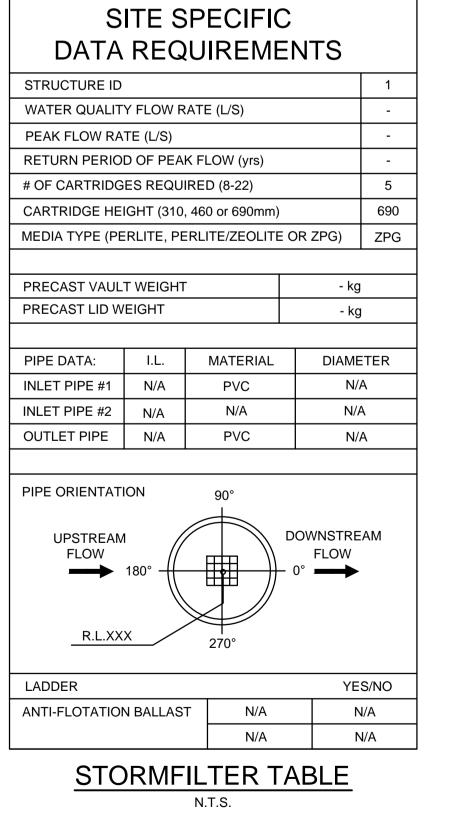
STREET







	Sources	Residual Load	% Reduction
Flow (ML/yr)	1.19	1.19	0
Total Suspended Solids (kg/yr)	127	18,6	85.4
Total Phosphorus (kg/yr)	0.27	0.0553	79.5
Total Nitrogen (kg/yr)	2.61	1.25	52
Gross Pollutants (kg/yr)	28.5	1.12	96.1



CARTRI
SYSTEM
TREAT
CARTRI

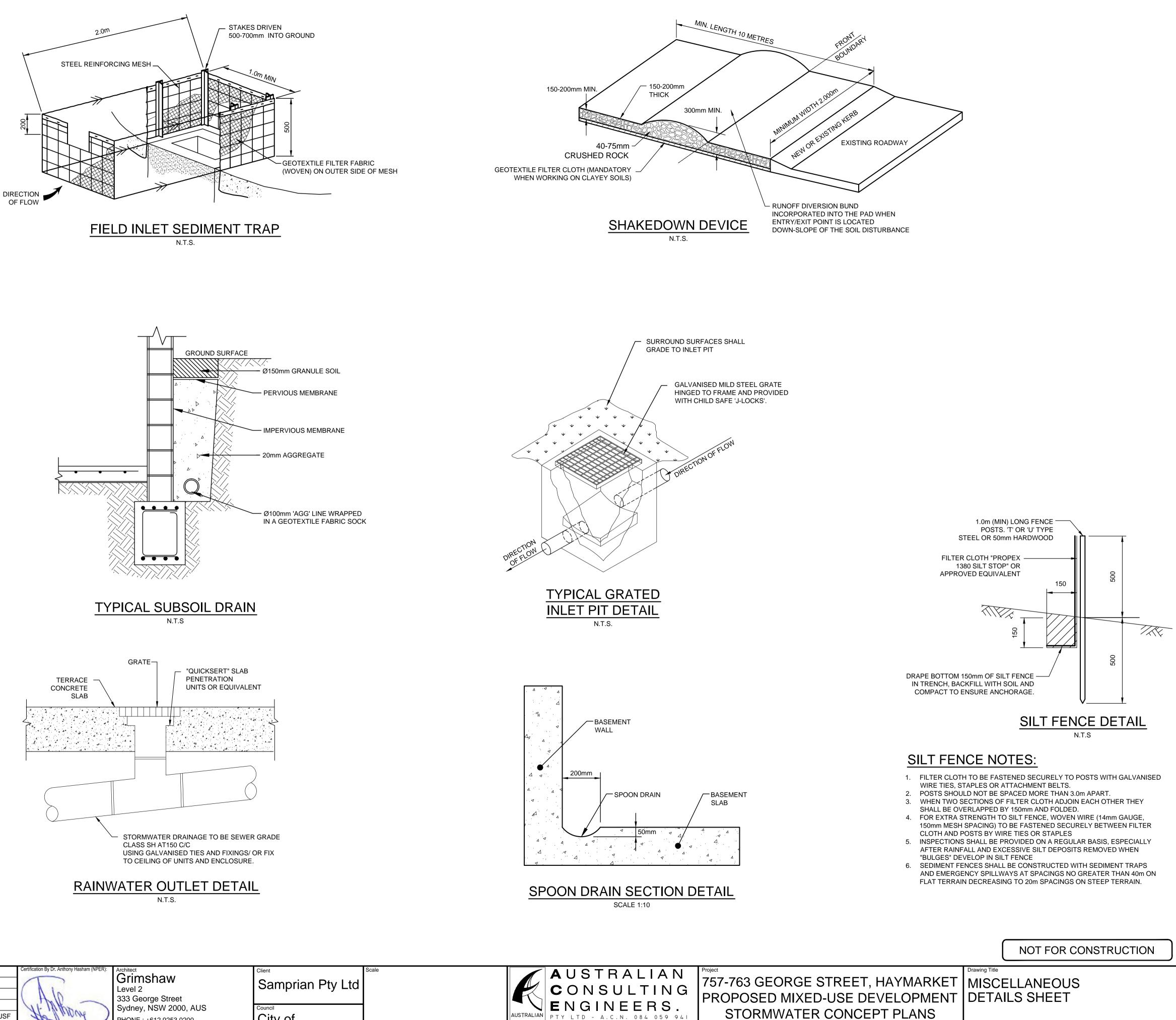
IDGE HEIGHT	690		460		310	
M HYDRAULIC DROP (H - REQ'D. MIN.)	930		700		550	
MENT BY MEDIA SURFACE AREA L/S/m2		0.7	1.4	0.7	1.4	0.7
RIDGE FLOW RATE (L/s)	1.42	0.71	0.95	0.47	0.63	0.32

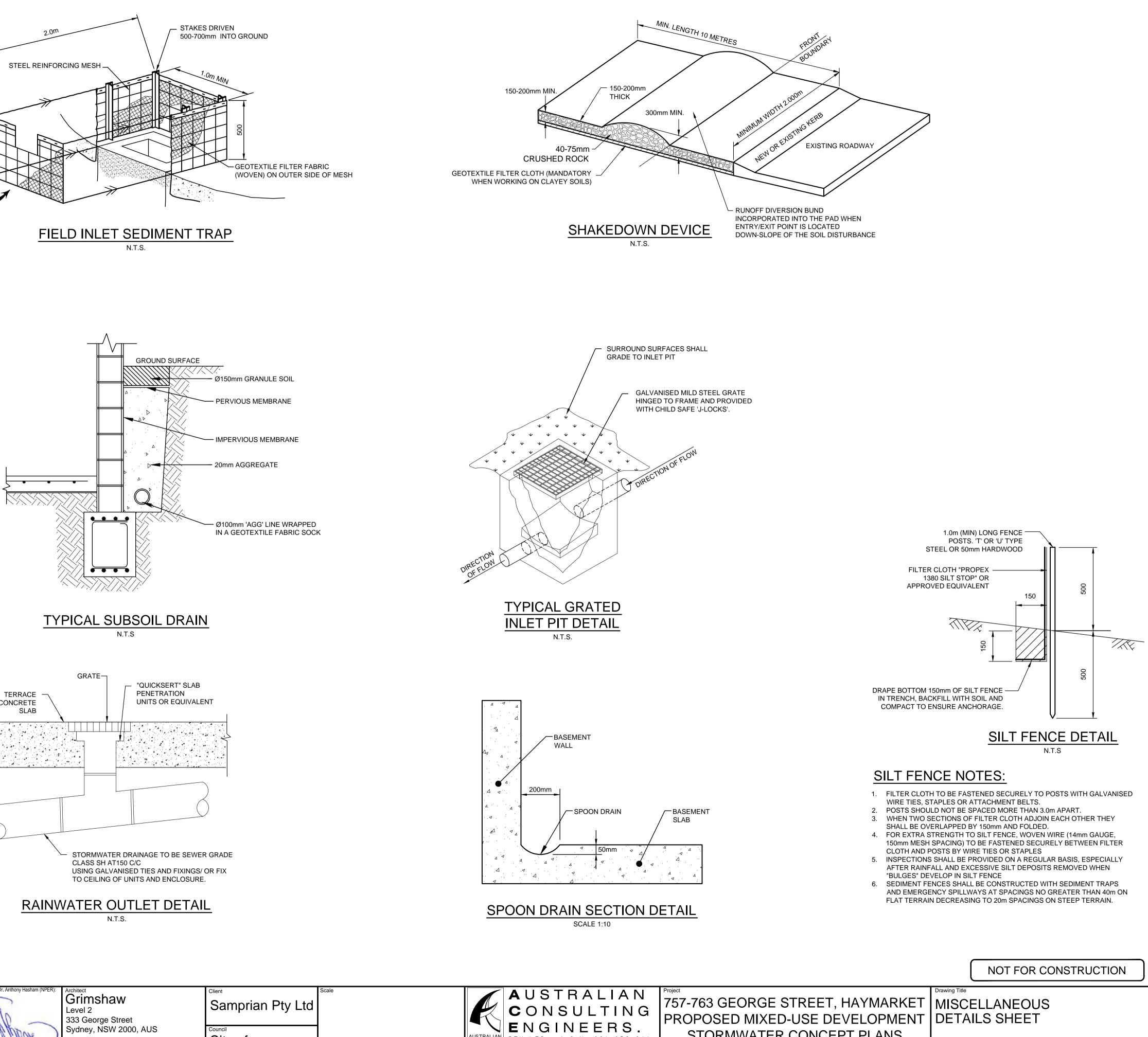
STORMFILTER CARTRIDGE NOT FOR CONSTRUCTION

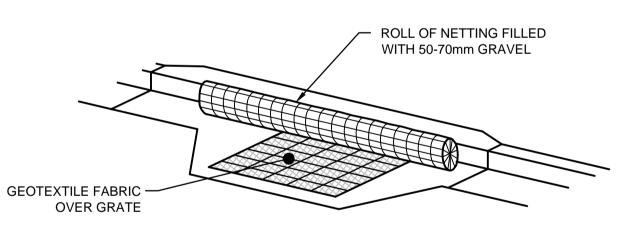
NG PROPOSALScaleA1Project No.Dwg. No.IssueAs Shown200144106A	E STREET, HAYMARKET ED-USE DEVELOPMENT ER CONCEPT PLANS	 _	HEETS	
	NG PROPOSAL	 2	Ű	

SEDIMENT & EROSION NOTES

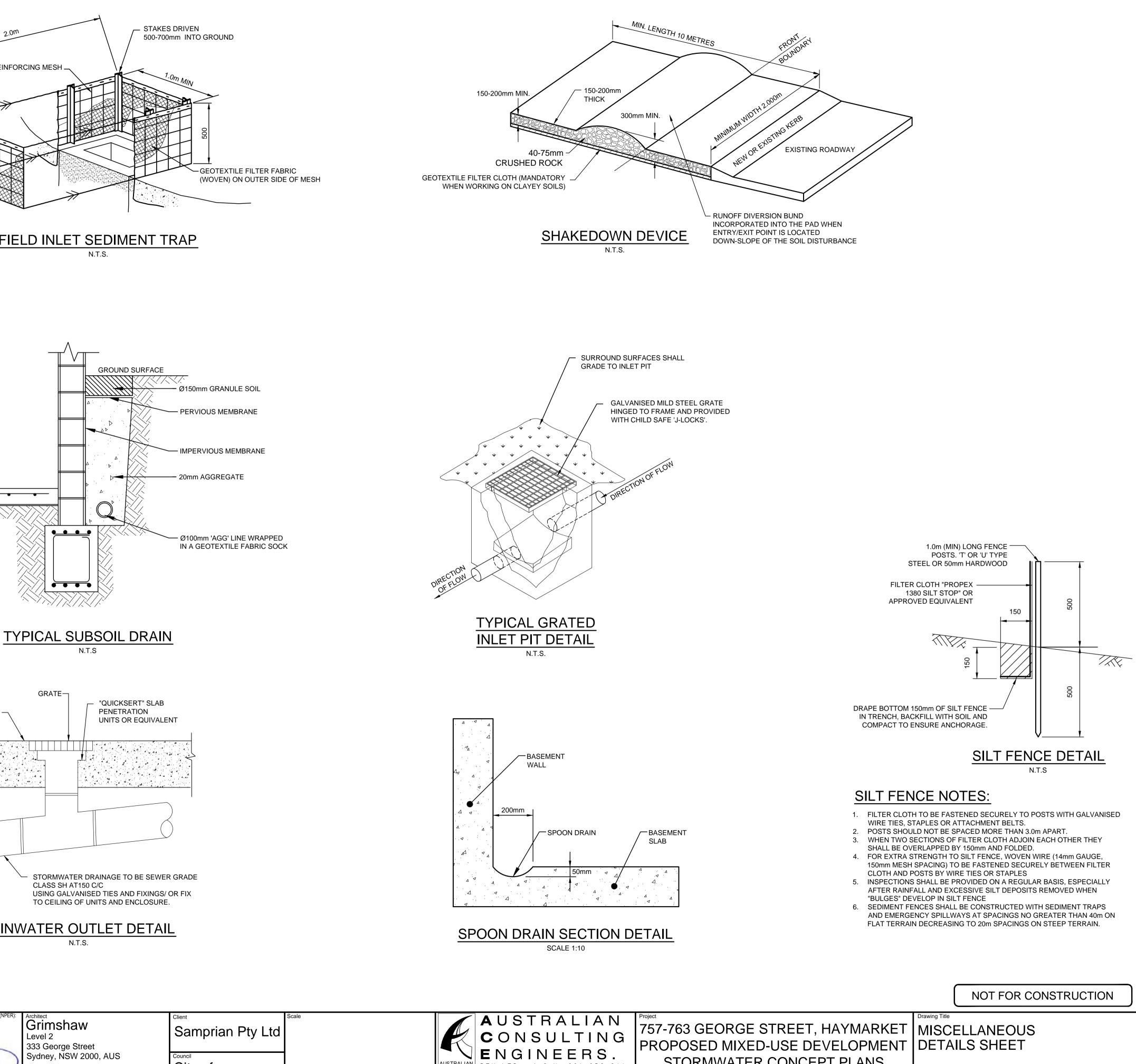
- 1. IMMEDIATELY FOLLOWING SETTING OUT OF THE WORKS, BUT PRIOR TO COMMENCEMENT OF ANY CLEARING OR EARTHWORKS, THE CONTRACTOR AND SUPERINTENDENT SHALL WALK THE SITE TO NOMINATE THE LOCATIONS AND TYPES OF SEDIMENT AND EROSION CONTROL MEASURES TO BE ADOPTED. THESE MEASURES SHALL BE IMPLEMENTED PRIOR TO 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.

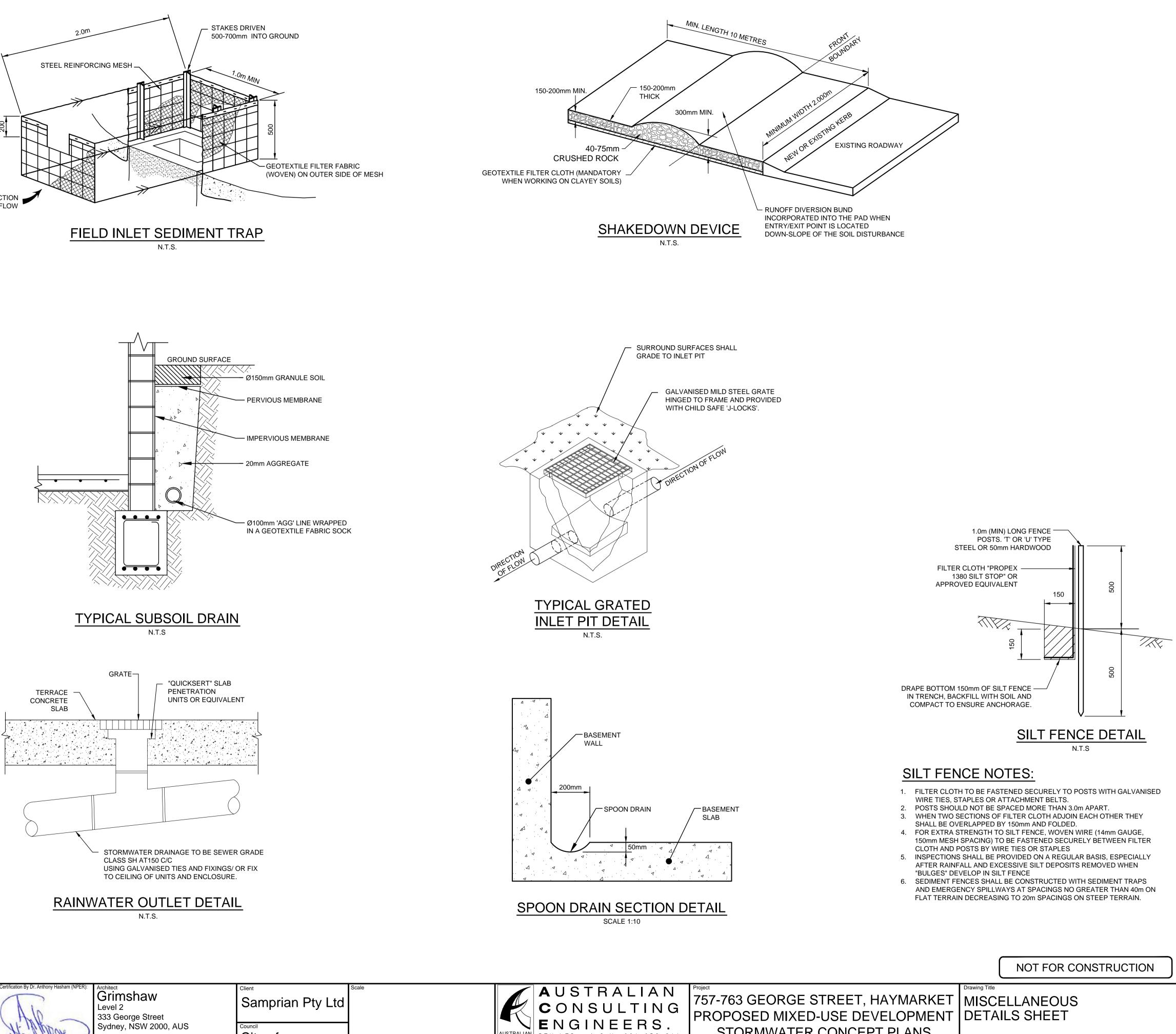






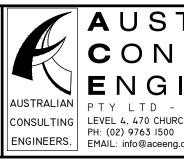






A ISSUE FOR PLANNING PROPOSAL Issue Description 0 1cm at full size 10cm 10cm 10cm 10cm 10cm 10cm 10cm 10cm	29/09/2020 Date	AGN	JSF Checked	Certification By Dr. Anthony Hasham (NPER):	Architect Grimshaw Level 2 333 George Street Sydney, NSW 2000, AUS PHONE : +612 9253 0200 Email : Fergus.Dinwiddie@g WEB : www.grimshaw.globa
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	Council	
	City of Sydney Council	
msnaw.global	Sydney Council	



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PLANNING PROPOSAL

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200144

N.T.S.