ALTERATIONS & ADDITIONS AT 3 WARATAH ROAD, PALM BEACH

GENERAL

- These drawings shall be read in conjunction with all architectural and other consultants drawings and specifications and with such other written instructions and sketches as may be issued during the course of the Contract. Any discrepancies shall be referred to the Superintendent before proceeding with any related works. Construction from these drawings, and their associated consultant's drawings is not to commence until approved by the Local Authorities.
- G2 All materials and workmanship shall be in accordance with the relevant and current Standards Australia codes and with the By-Laws and Ordinances of the relevant building authorities except where varied by the project specification.
- G3 All set out dimensions shall be obtained from Architect's and Engineer's details. All discrepancies shall be referred to the Architect and Engineer for decision before proceeding with related work.
- G4 During construction the structure shall be maintained in a stable condition and no part shall be overstressed Temporary bracing shall be provided by the builder/subcontractor to keep the works and excavations stable at all times.
- G5 Unless noted otherwise levels are in metres and dimensions are in millimetres.
- G6 The alignment and level of all services shown are approximate only. The contractor shall confirm the position and level of all services prior to commencement of construction. Any damage to services shall be rectified at
- G7 Any substitution of materials shall be approved by the Engineer and included in any tender.
- G8 All services or conduits for servicing shall be installed prior to commencement of pavement construction
- G10 The structural components detailed on these drawings have been designed in accordance with the relevant Standards Australia codes and Local Government Ordinances for the following loadings. Refer to the Architectural drawings for proposed floor usage. Refer to drawings for live loads and superimposed dead loads.

DRAINAGE NOTES

- D1 All drainage levels to be confirmed on site, prior to any construction commencing.
- D2 All pipes within the property to be a minimum of 100 dia upyc @ 1% minimum grade, uno.
- D3 All pits within the property are to be fitted with "weldlok" or approved equivalent grates:
 Light duty for landscaped areas leavy duty where subjected to vehicular traffic
- D4 All pits within the property to be constructed as one of the following:
- Precast stormwater pits
 Cast nature mass concrete
 Cast nature mass concrete
 Cast nature and the mass concrete
 Cast nature mass concrete
- D5 Ensure all grates to pits are set below finished surface level within the property. Top of pit RL's are approximate only and may be varied subject to approval of the engineer. All invert levels are to be achieved.

- D8 Provide step irons to stormwater pits greater than 1200 in depth.
- D9 Trench back fill in roadways shall comprise sharp, clean granular back fill in accordance with the relevant local authority specification to non-trafficable areas to be compacted by rodding and tamping using a flat plate vibrator.
- D10 Where a high early discharge (hed) pit is provided all pipes are to be connected to the hed pit, uno.
- D11 Down pipes shall be a minimum of dn100 sw grade upvc or 100 x100 colorbond/zincalume steel, uno.
- D12 Colorbond or zincalume steel box gutters shall be a minimum of 450 wide x 150 deep.
- D14 Subsoil drainage shall be provided to all retaining walls & embankments, with the lines feeding into the stormwater drainage system, uno.

EROSION AND SEDIMENT CONTROL NOTES

- E1 These notes are to be read in conjunction with erosion and sediment control details in this drawing set.
- E2 The contractor shall implement all soil erosion and sediment control measures as necessary and to the is a continuous shall implement as see levels of an element of an elemen
- E3 Place straw bales length wise in a row as parallel as possible to the site contours, uno. Bale ends to be tightly butted. Bales are to be placed so that straws are parallel to the row. Bales are to be placed 1.5m to 2m downslope from the toe of the disturbed batter, uno.
- Council approved filter fabric to be entrenched 150mm deep upslope towards disturbed surface. Fabric to be a minimum SF2000 or better. Fix fabric to posts with wire ties or as recomended with manufacturer's specifications. Pabric joints to have a minimum of 150mm overlap. Wire to be strung between posts with filter fabric overlap to prevent sagging.
- E6 All drainage pipe inlets to be capped until:
- E6 Provide and maintain silt traps around all surface inlet pits until catchment is revegetated or paved.
- The contractor shall regularly maintain all erosion and sediment control devices and remove accumulated sil
- Topsoil shall be stripped and stockpiled outside hazard areas such as drainage lines. This topsoil shall be respread later on areas to be revegetated and stabilised only, (i.e. all footpaths, batters, site regarding areas, basins and catchdrains). Topsoil shall not be respread on any other areas unless specifically instructed by the superintendent. If they are to remain for fonger than one month stockpiles shall be protected from erosion by covering them with a mulch and hydroseeding and, if necessary, by locating banks or drains downstream of a stockpile to retard slit laden runoff.
- E11 The contractor shall grass seed all disturbed areas with an approved mix as soon as practicable after
- E12 Revegetate all trenches immediately upon completion of backfilling.
- E13 When any devices are to be handed over to council they shall be in clean and stable condition

STANDARD LINE TYPES AND SYMBOLS		
	PROPOSED KERB & GUTTER	
	EXISTING KERB & GUTTER	
	PROPOSED BELOW GROUND PIPELINE	
	PROPOSED SUSPENDED PIPELINE	
	EXISTING PIPELINE	
—— ss ——	SUBSOIL DRAINAGE LINE	
	PROPOSED KERB INLET PIT	
	EXISTING KERB INLET PIT	
	PROPOSED JUNCTION OR INLET PIT	
	EXISTING JUNCTION OR INLET PIT	
	DESIGN CENTRELINE	
	EXISTING EDGE OF BITUMEN	
— т —	TELECOMUNICATION CONDUIT	
—— G ——	GAS MAIN	
— w —	WATER MAIN	
— s —	SEWER MAIN	
v	UNDERGROUND ELECTRICITY CABLES	
0	PERMANENT MARK & S.S.M.	
Δ Δ	BENCH MARK, SURVEY STATION	

STANDARD LINE TE	STANDARD LINE TTPES AND STIMBOLS		
$\Rightarrow \Rightarrow \Rightarrow$	OVERLAND FLOW PATH		
	GUTTER DRAINAGE DIRECTION		
O&	DOWNPIPE		
$\mathcal{O}_{\mathcal{S}}$	DOWNPIPE WITH SIDE OVERFLOW		
* * * * *	PERVIOUS (GRASSED) AREAS		
x RL= ??	EXISTING (PRE-DEVELOPMENT) RL		
x RL= ??	POST DEVELOPMENT RL		
FALL	GRADED IMPERVIOUS AREA (ROOF, CONC SLABS ETC)		
l ——	SEDIMENT FENCE		
—	CROSSING PIPES		
1	NODE POINT		
I			

STANDARD LINE TYPES AND SYMBOLS

LEGEND				
AHD	Australian height datum	SS	Stainless steel	
AG	Ag-pipe (Sub soil drainage)	SU	Box gutter sump	
ARI	Average recurrence interval	TW	Top of wall	
BG	Box Gutter	TWL	Top water level	
BWL	Bottom water level	U/S	Underside of slab	
CL	Cover level	VG	Vally gutter	
co	Clean out inspection opening	UNO	Unless noted otherwise	
DCP	Discharge control pit			
DP	Down pipe			
DRP	Dropper pipe			
EBG	Existing box gutter			
EDP	Existing down pipe			
EEG	Existing eaves gutter			
EG	Eaves gutter			
FRC	Fiber reinforced concrete			
FW	Floor waste			
GD	Grated drain			
GSIP	Grated surface inlet pit			
HED	High early discharge			
HP	High point of gutter			
IL	Invert level			
IO	Inspection opening			
O/F	Overflow			
OSD	On-site detention			
PSD	Permissible site discharge			
P1 RCP	Pipe 1			
	Reinforced concrete pipe			
RHS RI	Rectangular hollow section Reduced level			
RR.I	Rubber ring joint			
RRT	Rubber ring joint Rainwater re-use tank			
RWH	Rainwater re-use tank Rain water head			
RWO	Rain water nead Rain water outlet			
SLAP	Sealed lid access pit			
SP SPR	Spreader pipe Spreader			

DISCHARGE CONTROL PIT (DCP)	FREQUENCY	RESPONSIBILITY	PROCEDURE
Inspect flap valve and remove any blockage.	Six monthly	Owner	Remove grate. Ensure flap valve moves freely and remove any blockages or debris.
	,		, , ,
Inspect screen and clean.	Six monthly	Owner	Revove grate and screen if required and clean it.
Inspect & remove any blockage of orifice.	Six monthly	Owner	Remove grate & screen to inspect orifice, see plan for location of dcp.
Inspect dcp sump & remove any sediment-sludge.	Six monthly	Owner	Remove grate and screen. Remove sediment/sludge build-up and check orifice and flap valv clear.
Inspect grate for damage or blockage.	Six monthly	Owner	Check both sides of grate for corrosion, (especially corners and welds) damage or blockage.
Inspect return pipe from storage and return any blockage.	Six monthly	Owner	Remove grate and screen, ventilate underground storage if present, open flap valve and remove any blockages in return line. Check for sludge/debris on upstream side of return line.
Inspect outlet pipe and remove any blockage.	Six monthly	Maintenance Contractor	Remove grate and screen, ventilate underground storage if present. Check orifice and remove any blockages in outlet pipe. Flush outlet pipe to confirm it drains freely. Check for studge/debris on upstream side of return line.
Check fixing of step irons is secure.	Six monthly	Maintenance Contractor	Remove grate and ensure fixings secure prior to placing weight on step iron.
Inspect overflow weir & remove any blockage.	Six monthly	Maintenance Contractor	Remove grate and open cover to ventilate underground storage if present, ensure weir clear of blockages.
Empty basket at overflow weir (if present).	Six monthly	Maintenance Contractor	Remove grate and ventilate underground storage chamber if present. Empty basket, check fixings secure and not corroded.
Check attachment of orifice plate to wall of pit (gaps less than 5 mm).	Annually	Maintenance Contractor	Remove grate and screen. ensure plate mounted securely, tighten fixings if required. seal gaps as required.
Check attachment of screen to wall of pit.	Annually	Maintenance Contractor	Remove grate and screen. ensure screen fixings secure. repair as required.
Check screen for corrosion.	Annually	Maintenance Contractor	Remove grate and examine screen for rust or corrosion, especially at corners or welds.
Check attachment of flap valve to wall of .	Annually	Maintenance Contractor	Remove grate. Ensure fixings of valve are secure.
Check flap valve seals against wall of pit.	Annually	Maintenance Contractor	Remove grate. fill pit with water and check that flap seals against side of pit with minimal leakage.
Check any hinges of flap valve move freely.	Annually	Maintenance Contractor	Remove grate. Test valve hinge by moving flap to full extent.
Inspect dcp walls (internal and external, if appropriate) for cracks or spalling.	Annually	Maintenance Contractor	Remove grate to inspect internal walls. Repair as required. Clear vegetation from external walls if necessary and repair as required.
Check step irons for corrosion.	Annually	Maintenance Contractor	Remove grate. Examine step irons and repair any corrosion or damage.
Check orifice diameter correct and retains sharp edge.	Five yearly	Maintenance Contractor	Compare diameter to design (see work-as- executed) and ensure edge is not pitted or damaged.
STORAGE			
Inspect & remove any blockage of orifice.	Six monthly	Owner	Remove grate and screen, remove sediment/sludge build-up.
Check orifice diameter correct and retains sharp edge.	Six monthly	Owner	Remove blockages from grate and check if pit blocked.
Inspect screen and clean.	Six monthly	Owner	Remove debris and floatable material likely to be carried to grates.
Check attachment of orifice plate to wall of pit (gaps less than 5 mm).	Annually	Maintenance	Remove grate to inspect internal walls. repair as required. clear vegetation from external wal if necessary and repair as required.
Check attachment of screen to wall of pit.	Five yearly	Maintenance Contractor	Compare actual storage available with work-as executed plans. If volume loss is greater tha 5%, arrange for reconstruction to replace the volume lost. Council to be notified of the proposal.
Check attachment of screen to wall of pit.	Five yearly	Maintenance Contractor	Check along drainage lines and at pits for subsidence likely to indicate leakages.

NOTE: BUILDER/PLUMBER TO INVESTIGATE SITE CONDITIONS, CONFIRM STORMWATER CONNECTION HEIGHT LEVELS AND LOCATION TO ENSURE CONSISTENCY WITH THE DESIGN. ANY DISCREPANCIES OR CONFLICTS WHICH MAY AFFECT THE PROPOSED DESIGN TO BE REPORTED TO THE ENGINEER PRIOR TO THE COMMENCEMENT OF CONSTRUCTION.

NOTE: DO NOT SCALE OFF DRAWINGS. THE CONTRACTOR SHALL CHECK ALL DIMENSIONS AND LEVELS SHOWN ON ARCHITECTURA AND ENGINEERING DRAWINGS, ANY DISCREPANCIES MUST BE REPORTED PRIOR TO THE COMMENCEMENT OF CONSTRUCTION.

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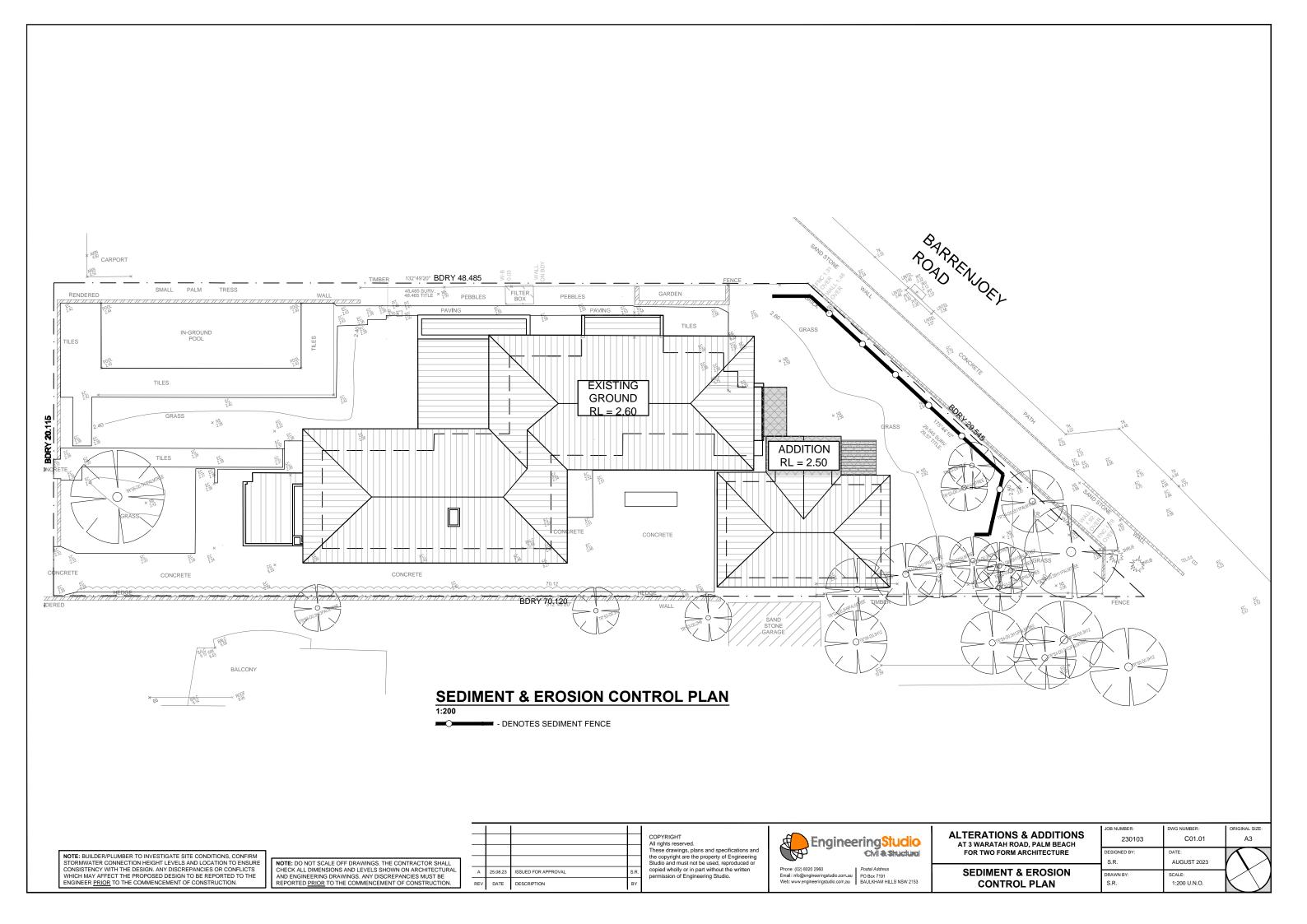
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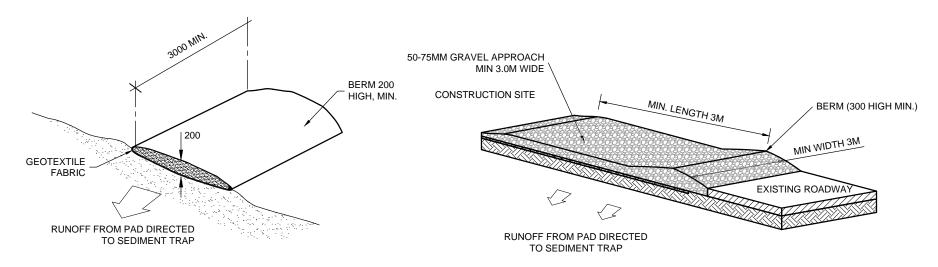
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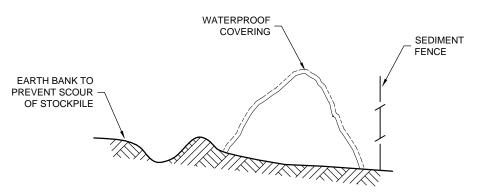
ALTERATIONS & ADDITIONS FOR TWO FORM ARCHITECTURE

GENERAL NOTES

C00.01 A3 230103 ESIGNED BY AUGUST 2023 S.R. N.T.S







OPTION 1 - EXISTING DRIVEWAY TO REMAIN

OPTION 2 - DRIVEWAY TO BE RENEWED

VEHICLE ACCESS TO SITE

NTS

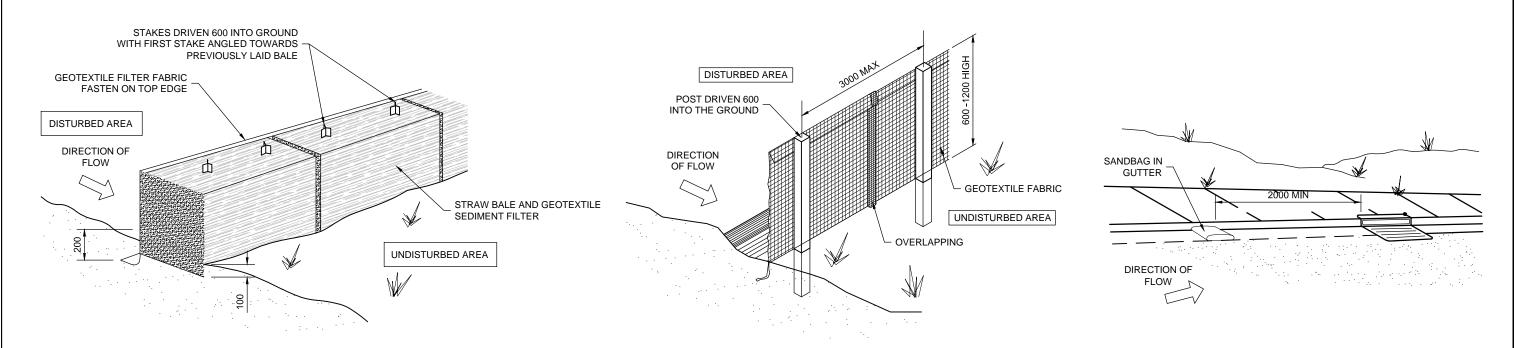
VEHICLE ACCESS TO THE BUILDING SITE SHOULD BE RESTRICTED TO A SINGLE POINT SO AS TO REDUCE THE AMOUNT OF SOIL DEPOSITED ON THE STREET PAVEMENT.

BUILDING MATERIAL STOCKPILES

NTS

ALL STOCKPILES OF BUILDING MATERIAL SUCH AS SAND AND SOIL MUST BE PROTECTED TO PREVENT SCOUR AND EROSION.

THEY SHOULD NEVER BE PLACED IN THE STREET GUTTER WHERE THEY WILL WASH AWAY WITH THE FIRST RAINSTORM.



STRAW BALE DETAIL

SEDIMENT AND EROSION FENCE DETAIL

SANDBAG KERB SEDIMENT TRAP

N.T.S

IN CERTAIN CIRCUMSTANCES EXTRA SEDIMENT TRAPPING MAY BE NEEDED IN THE STREET GUTTER.

NOTE: BUILDER/PLUMBER TO INVESTIGATE SITE CONDITIONS, CONFIRM STORMWATER CONNECTION HEIGHT LEVELS AND LOCATION TO ENSURE CONSISTENCY WITH THE DESIGN. ANY DISCREPANCIES OR CONFLICTS WHICH MAY AFFECT THE PROPOSED DESIGN TO BE REPORTED TO THE ENGINEER PRIOR TO THE COMMENCEMENT OF CONSTRUCTION.

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DATE	DESCRIPTION	BY

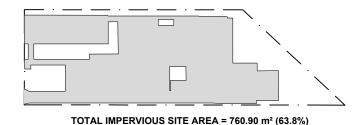
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ALTERATIONS & ADDITIONS AT 3 WARATAH ROAD, PALM BEACH FOR TWO FORM ARCHITECTURE	
SEDIMENT & EROSION	

CONTROL DETAILS

JOB NUMBER:	DWG NUMBER:	ORIGINAL SIZE:
230103	C01.02	А3
DESIGNED BY: S.R.	DATE: AUGUST 2023	
DRAWN BY: S.R.	SCALE: 1:20 U.N.O.	



TOTAL IMPERVIOUS SITE AREA = 763.10 m² (64%)

PRE-DEVELOPMENT IMPERVIOUS ASSESSMENT

1:800

POST-DEVELOPMENT IMPERVIOUS ASSESSMENT

000

STORMWATER DESIGN SUMMARY
COUNCIL: NORTHERN BEACHES COUNCIL

100% PROPOSED ROOF AREA DIRECTED TO ABSORPTION

IMPERVIOUS HARDSTAND IS LESS THAN $50m^2$ (ACCUMULATIVE BASIS SINCE FEBRUARY 1996) IN ACCORDANCE WITH 'NORTHERN BEACHES COUNCIL WATER MANAGEMENT FOR

ON-SITE DETENTION DESIGN SUMMARY

ON-SITE DETENTION NOT REQUIRED FOR PROPOSED RESIDENTIAL DEVELOPMENT WHERE THE INCREASE IN

= 290 mm/h

= 210 mm/h

 $= 1192.9 \text{ m}^2$

 $= 440.9 \text{ m}^2$

 $= 322.2 \text{ m}^2$

 $= 763.1 \text{ m}^2$

= 64.0 %

1% A.E.P., 5 MIN STORM

5% A.E.P., 5 MIN STORM

PROPOSED ROOF AREA

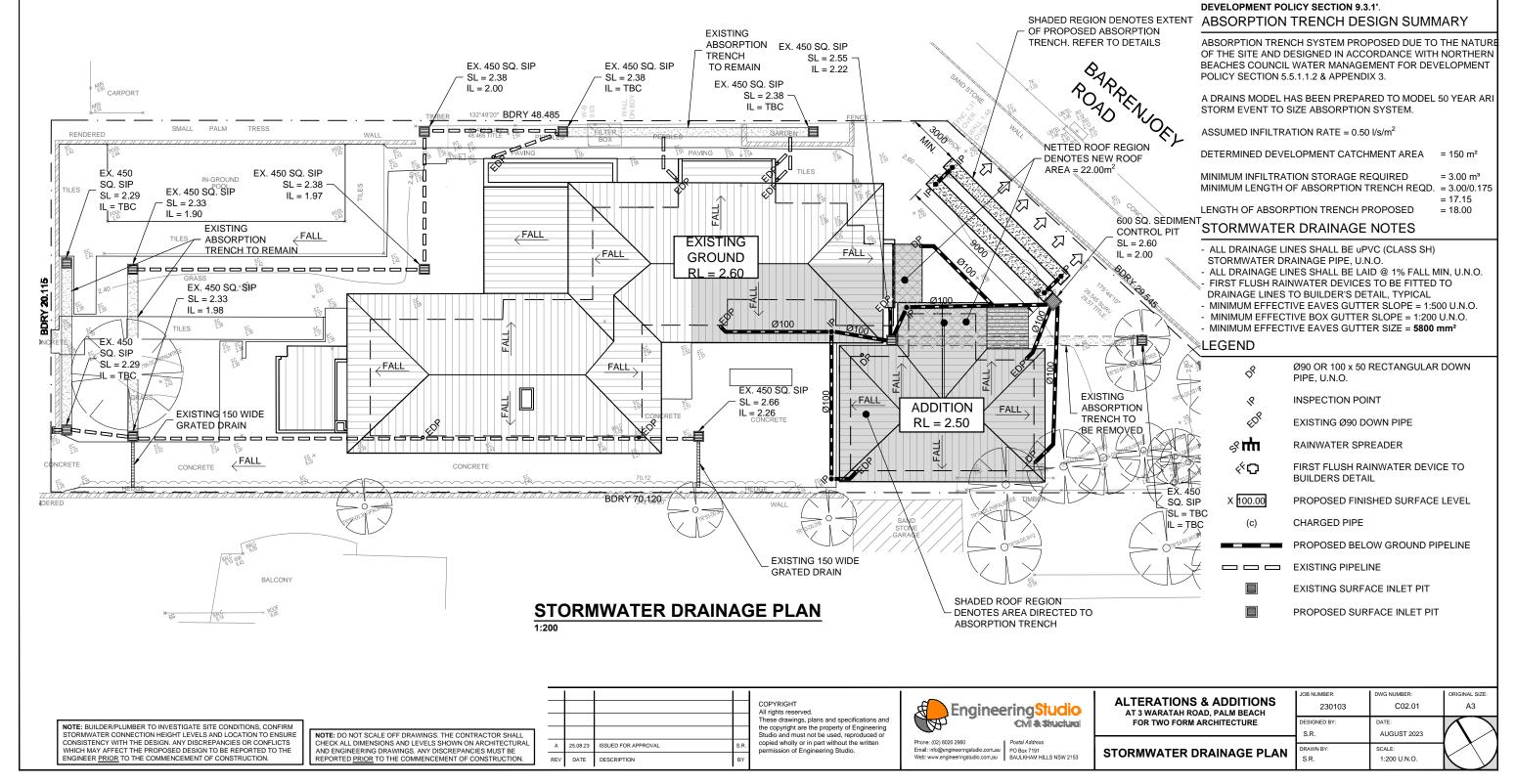
TRENCH VIA GRAVITY.

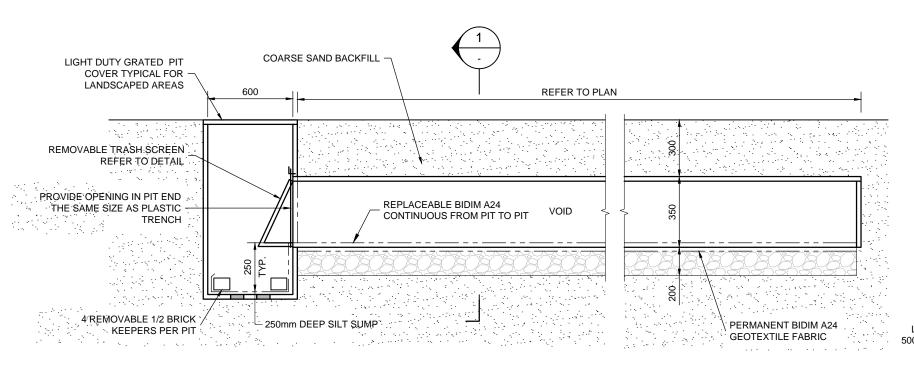
IMPERVIOUS PATHS & DRIVEWAYS

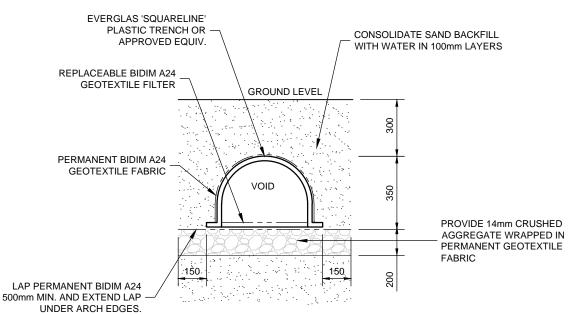
TOTAL IMPERVIOUS SITE AREA

IMPERVIOUS SITE PERCENTAGE

TOTAL SITE AREA

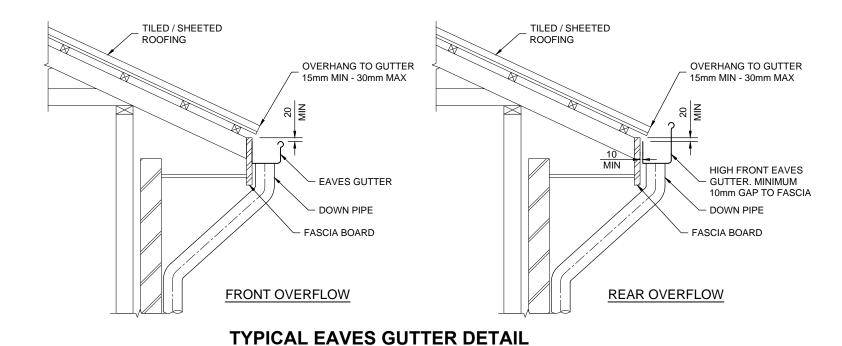


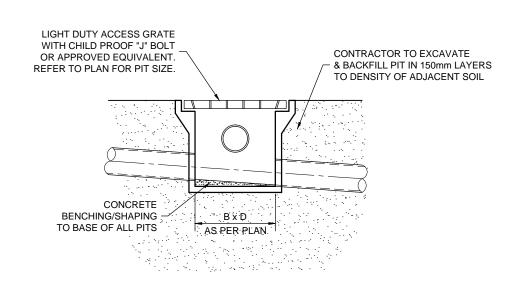




LONGITUDINAL SECTION COVERED VOID ABSORPTION PIT







TYPICAL SURFACE INLET PIT DETAIL

NOTE: BUILDER/PLUMBER TO INVESTIGATE SITE CONDITIONS, CONFIRM STORMWATER CONNECTION HEIGHT LEVELS AND LOCATION TO ENSURE CONSISTENCY WITH THE DESIGN. ANY DISCREPANCIES OR CONFLICTS WHICH MAY AFFECT THE PROPOSED DESIGN TO BE REPORTED TO THE ENGINEER PRIOR TO THE COMMENCEMENT OF CONSTRUCTION.

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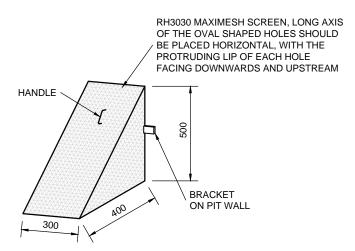
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AT 3 WARATAH ROAD, PALM BEACH	
FOR TWO FORM ARCHITECTURE	D
STORMWATER DETAILS SHEET	L

ALTERATIONS & ADDITIONS

230103	C02.02	A3
DESIGNED BY: S.R.	DATE: AUGUST 2023	
DRAWN BY: S.R.	SCALE: 1:20 U.N.O.	



$\underset{\mathsf{NTS}}{\underline{\mathsf{STANDARD}}}\; \underline{\mathsf{TRASH}}\; \underline{\mathsf{SCREEN}}$

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ALTERATIONS & ADDITIONS AT 3 WARATAH ROAD, PALM BEACH FOR TWO FORM ARCHITECTURE
STORMWATER DETAILS SHEET

ROAD, PALM BEACH		
M ARCHITECTURE	DESIGNED BY:	DATE:
	S.R.	AUGUST
DETAILS SHEET	DRAWN BY:	SCALE:
2	S.R.	1:20 U.N

JOB NUMBER:	DWG NUMBER:	ORIGINAL SIZE
230103	C02.03	А3
DESIGNED BY: S.R.	DATE: AUGUST 2023	
DRAWN BY: S.R.	SCALE: 1:20 U.N.O.	