STORMWATER MANAGEMENT PLAN PROPOSED ALTERATIONS AND ADDITIONS No.77 CASTLE CIRCUIT, SEAFORTH

GENERAL NOTES:

- THESE PLANS REMAIN THE PROPERTY OF NY CIVIL ENGINEERING PTY LTD AND ARE SUBJECT TO COPYRIGHT
- ALL DIMENSIONS IN MILLIMETERS UNLESS OTHERWISE STATED. ALL REDUCED LEVELS (SURFACE LEVELS, INVERT LEVELS) AND CHAINAGES ARE IN METERS UNLESS OTHERWISE STATED. DO NOT SCALE OFF THE DRAWINGS, SCALES ARE AS SHOWN, USE FIGURED DIMENSIONS
- THIS PLAN IS TO BE READ IN JUNCTION WITH LATEST ARCHITECTURAL STRUCTURAL LITHLITY AND LANDSCAPE PLANS IN ADDITION TO ANY
- ALL WORKS SHALL BE CARRIED OUT TO LOCAL COUNCIL'S DEVELOPMENT CONTROL PLAN AND SPECIFICATIONS, AS/NZS 3500.3 AND B.C.A.
- ALL LEVELS SHALL RELATE TO THE ESTABLISHED BM, PM AND/OR LM. ALL EXISTING SERVICES ARE TO BE VERIFIED FOR LOCATION AND DEPTH PRIOR TO COMMENCEMENT OF ANY WORK, CONTRACTOR TO NOTIFY DESIGNER OF ANY DISCREPANCIES OF SERVICE LEVELS OLIOTED ON THIS PLAN. ALL SURVEY INFORMATION, BUILDING AND FINISHED SURFACE LEVELS SHOWN IN THESE DRAWINGS ARE BASED ON LEVELS OBTAINED FROM DRAWINGS BY OTHERS.
- IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO OBTAIN ANY PRIOR APPROVAL REQUIRED FROM COUNCIL WITH RESPECT TO POTENTIAL IMPACT ON TREES FOR ANY WORKS SHOWN ON THIS DRAWING PRIOR TO THE COMMENCEMENT OF WORKS. NO TREES SHALL BE REMOVED
- THE CONTRACTOR SHALL TAKE ALL DUE CARE TO USE THE ABSOLUTE MINIMUM AREA FOR CONSTRUCTION AND THAT NO UNDUE DAMAGE IS
- THE CONTRACTOR SHALL COMPLY WITH CONDITIONS, AND SPECIFICATION OF COUNCIL AND ALL ACTS OF THE NSW EPA.
- THE CONTRACTOR SHALL TAKE ALL REASONABLE CARE TO PROTECT EXISTING SERVICES. DAMAGED SERVICES SHALL BE REPAIRED AT THE
- SUITABLE WARNING SIGNS AND BARRICADES ARE TO BE PROVIDED IN ACCORDANCE WITH THE AUSTRALIAN STANDARDS AND AS DIRECTED BY
- SERVICES SHOWN ARE INDICATIVE ONLY FROM AVAILABLE INFORMATION AND THE TIME OF SITE INVESTIGATION (IF ANY). THE BUILDER IS TO
- RESTORE ALL TRAFFIC AREAS TO PRE EXISTING CONDITION. FOR ALL SURFACES OTHER THAN IN TRAFFIC AREAS RESTORE DISTURBED
- RESTORE ALL AUTHORITY OWNED AREAS TO COUNCIL AND/OR AUTHORITY STANDARD AND SPECIFICATION
- THE WORK AS CONSTRUCTED WORKS SHALL BE INSPECTED BY THE ENGINEER, MINIMUM 48 HOURS NOTICE SHALL BE PROVIDED FOR ALL
- THE DESIGN PLANS HEREIN ARE SUBJECT TO COUNCIL APPROVAL PRIOR TO CONSTRUCTION
- WORK AS CONSTRUCTED DRAWINGS TO BE REQUESTED AND RECEIVED IN CAD/.DWG FILE TYPE AND HARD COPY 'RED LINE' MARKUP FROM

ROOF STORMWATER DRAINAGE NOTES:

- ALL ROOF GUTTERS TO HAVE OVERFLOW PROVISION IN ACCORDANCE WITH AS 3500.3 AND SECTIONS 3.5.3, 3.7.5 AND APPENDIX G OF AS 3500.3.
- ALL DOWNPIPES TO BE FITTED VERTICALLY TO THE SOLE OF EAVES GUTTERS, RAINHEAD AND/OR SUMP
- ALL DOWNPIPES TO DRAIN INTO RAINWATER TANK AND OR PIT PRIOR TO DISCHARGE OFFSITE UNLESS PRIOR APPROVAL IS OBTAINED FROM
- ALL EAVES GUTTERS TO BE SIZED FOR ARI 20 AS PER AS 3500.3 3.5 AND APPENDIX H.
- ROOF DRAINAGE INSTALLATION TO BE IN ACCORDANCE TO AS 3500.3 SECTION 4.

STORMWATER DRAINAGE NOTES:

- THE MINIMUM PIPE SIZE SHALL BE:
- DN90 FOR ALL DOWNPIPES:
- DN100 WHERE THE LINE ONLY RECEIVES ROOF STORMWATER RUNOFF, OR
- DN100 WHERE THE LINE RECEIVES RUNOFF FROM PAVED OR UNPAVED AREAS

PIPE GRADE:

- THE MINIMUM PIPE GRADE SHALL BE:
- FOR DN100 DN150 1.00% FOR DN225 - 0.50%
- FOR DN300 0.45%

- MINIMUM PIPE COVER FOR PVC PIPES SHALL BE AS PER AS 3500.3 TABLE 6.2.5:
- NOT SUBJECT TO VEHICULAR LOADING:
- WITHOUT PAVEMENT SINGLE DWELLINGS 100mm
- 1.1.2. WITHOUT PAVEMENT OTHER THAN SINGLE DWELLINGS - 300mm
- WITH PAVEMENT (BRICK/PAVERS) AND/OR UNREINFORCED CONCRETE 100mm
- SUBJECT TO VEHICULAR LOADING:
- 122 ROADS (UNSEALED) - 750mm

- OTHER THAN ROADS (WITHOUT PAVEMENT) 450mm

PIPE INSTALLATION

- PIPES AND FITTINGS FOR STORMWATER DRAINAGE SHALL BE AS FOLLOWS:

 - FOR PIPE SIZES GREATER THAN DN225 RCP WITH RUBBER RING JOINTS. FOR LARGER PIPE DEPTHS AS SPECIFIED IN AS 3500.3 - RCP WITH RUBBER RING JOINTS.
- FOR PIPES AND FITTINGS FOR SUBSOIL DRAINAGE SHALL BE SLOTTED PVS WITH SOLVENT WELDED JOINTS MINIMUM DN150.
 FOR GRATED DRAINS SHALL BE MINIMUM DN150 IN NON-TRAFFICABLE ZONES AND DN225 IN TRAFFICABLE ZONES.
- LAY AND JOINT ALL PIPES IN ACCORDANCE WITH THE MANUFACTURING RECOMMENDATIONS AND
- AS 3725-1989 LOADS ON BURIED CONCRETE PIPES AS 2566 - 1988 - BURIED FLEXIBLE PIPELINES
- AS 1597.2 1996 PRECAST REINFORCED CONCRETE BOX CULVERTS
- AS 3500 1990 NATIONAL PLUMBING AND DRAINAGE CODE PART 2 SANITARY PLUMBING AND SANITARY DRAINAGE SYDNEY WATER
- ALLOW TO TEST ALL PIPES AND PITS TO MANUFACTURERS REQUIREMENTS

CONNECTIONS TO STORMWATER SYSTEMS UNDER BUILDINGS

CONNECTIONS TO COUNCIL STORMWATER SYSTEMS:

CONNECTION TO COUNCIL STORMWATER SYSTEM TO BE IN ACCORDANCE TO LOCAL COUNCIL DCP AND STANDARDS. NO CONNECTIONS TO BE MADE LINTII PROPER PERMIT/APPROVALS ARE OBTAINED FROM LOCAL COLINCII IN WRITING

EXISTING SERVICES SHOWN ON THESE PLANS ARE NOT GUARANTEED COMPLETE OR CORRECT AND FURTHER INFORMATION IS REQUIRED FROM THE

LEGEND

SURFACE INLET PIT		GRATED TRENCH DRAIN	
SURFACE INLET PIT (WITH ENVIROPOD 200 MICRON)		ABSORPTION TRENCH	
ACCESS GRATE		PROPOSED ROOF GUTTER FALL	
(WITH GROSS POLLUTANT TRAP)	[8]	PROPOSED DOWNPIPE SPREADER	⊢ ● (\$P)
450 SQUARE INTERVAL	450 X 450	STORMWATER PIPE 100mm DIA. MIN. UNO	
GRATE LEVEL = 75.50	SL 75.50	SUBSOIL PIPE	a a
INVERT LEVEL = RL 75.20	IL 75.20	EXISTING STORMWATER PIPE	sw
PROPOSED DOWNPIPE 90mm DIA. OR 100mm x 50mm MIN.	DP 90	INSPECTION RISER	O IR
NATURAL GROUND FINISHED DESIGN LEVEL	× [10.00]	RAINWATER HEAD	■ RWH

STORMWATER PIT/STRUCTURES NOTES:

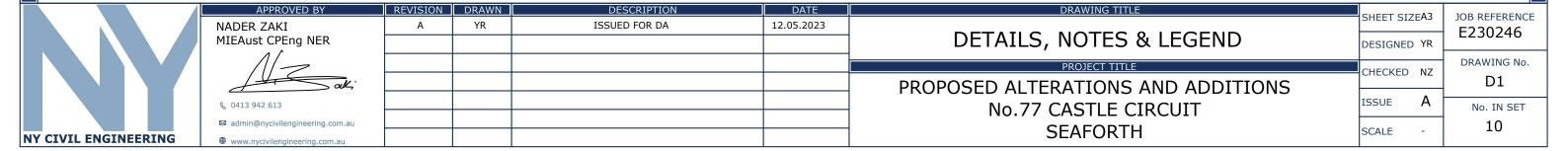
PIT SIZES AND DEPTHS:

1. PIT SIZES WILL BE AS FOLLOWS:

DEPTH (mm)	MIN. PIT SIZE (mm)
UP TO 450	350x350
450 - 600	450x450
600 - 900	600x600
900 - 1200	600x900
1200+	900x900 (WITH STEP IRONS)

- TRENCH DRAINS: CONTINUOUS TRENCH DRAINS ARE TO BE MIN. DN150 AND MIN. 100mm DEPTH. THE BARS OF THE GRATE ARE TO BE PARALLEL TO THE DIRECTION OF SURFACE FLOW
- STEP IRONS: PITS BETWEEN 1.2m AND 6m ARE TO HAVE STEP IRONS IN ACCORDANCE WITH AS 1657. FOR PITS GREATER THAN 6m OTHER MEANS
- PLASTIC/PVC PITS: PVC PITS WILL ONLY BE PERMITTED IF THEY ARE MAX. 450x450 AND MAX. 450mm DEPTH AS WELL AS BEING HEAVY DUTY.
- IN-SITU PITS: IN-SITU PITS ARE TO BE CONSTRUCTED ON A CONCRETE BED OF AT LEAST 150mm THICK. THE WALLS ARE TO BE DESIGNED TO MEET THE MINIMUM REQUIREMENTS OF CLAUSE 4.6.3 OF AS 3500.4. PITS DEEPER THAN 1.8m SHALL BE CONSTRUCTED WITH REINFORCED
- GRATES: GRATES ARE TO BE GALVANIZED STEEL GRID TYPE. GRATES ARE TO BE OF HEAVY-DUTY TYPE IN AREAS WHERE THEY MAY BE SUBJECT

- ALL PIPES INTO PITS TO BE CUT FLUSH WITH PIT WALL.
- ALL PITS THAT ARE INSTALLED AT GREATER THAN 600mm DEEP TO BE MIN. 600x600 PIT
- 4. BASE OF PIT TO BE SAME LEVEL OF INVERT OF OUTLET
- OUTLET PIPE FROM ANY PIT TO BE 20mm LOWER THAN INLET PIPE!



AREA CALCULATIONS					
TOTAL SITE AREA	562.0	m²			
EXISTING DEVELOPM	/IENT				
ROOF AREA	171.0	m²			
PAVED AREA	197.0	m²			
DRIVEWAY AREA	0.0	m²			
IMPERVIOUS AREA	368.00	m²			
TOTAL IMPERVIOUS AREA PERCENTAGE	65.48	%			
PROPOSED DEVELOPMENT					
PROPOSED ROOF AREA	193.0	m²			
PROPOSED PAVED AREA	220.0	m²			
PROPOSED DRIVEWAY AREA	10.0	m²			
TOTAL IMPERVIOUS AREA	423.00	m²			
TOTAL IMPERVIOUS AREA PERCENTAGE	75.27	%			

ON-SITE DETENTION - LANDSCAPE TANKS (OSD)

(AS PER COUNCIL REQUIREMENTS)

REQUIREMENTS

SIZE: 4 x 2,250 LITRES (9,000L MIN)
MEDIUM UNIT TANK BY "LANDSCAPE TANK" OR SIMILAR
(4 x 2800L x 1100W x 1325H)
INSTALL TO MANUFACTURES SPECIFICATIONS, AS3500 AND COUNCIL

- FOR RE-USE AS SPECIFIED BY BASIX CERTIFICATE
- ENSURE TOP OF TANK IS MIN 01.0m BELOW ROOF GUTTERS TO ENSURE SUFFICIENT HEAD FOR THE SYSTEM
- TANK TO BE INSTALLED BY LICENSED PLUMBER IN ACCORDANCE WITH AS/NZS 3500:2003 AND NSW CODE OF PRACTICE PLUMBING AND DRAINAGE 2006

OSD CALCULATION SUMMARY				
STORM (AEP)	1%	20%		
PRE-DEVELOPMENT STATE PSD (L/s)	-	17		
POST DEVELOPMENT OSD DISCHARGE (L/s)	11	-		
POST DEVELOPMENT (L/s) (BYPASSING OSD)	6	-		
OSD VOLUME (m³)	8.7	-		

THEREFORE POST DEVELOPMENT DISCHARGE LIMITED TO THE 20% AEP PREDEVELOPED STATE (35% IMPERVIOUS) IN ANY STORM EVENT UP TO AND INCLUDING 1% AEP

DRAINAGE PIPE LEGEND

- EXISTING STORMWATER PIPE
- DRAINAGE PIPES TO RWT/OSD TANK
- DRAINAGE PIPES VIA GRAVITY
- DRAINAGE PIPES STRAPPED TO CEILING
 65mm DIA CLASS 12 PUMP LINE

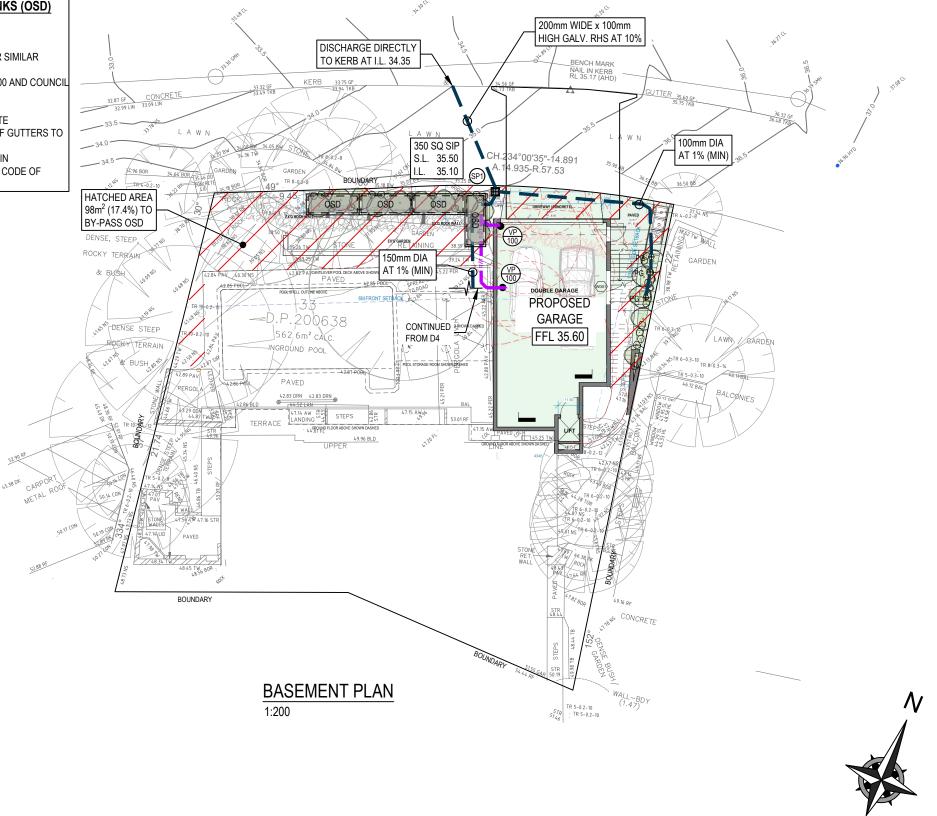
NOTE: ALL IN GROUND PIPES TO BE 100mm DIA PVC UNO

INSPECTION RISER (IR)

PROVIDE 'SCREW CAP' INSPECTION RISER AT LOWEST POINT OF 'CHARGED LINES'

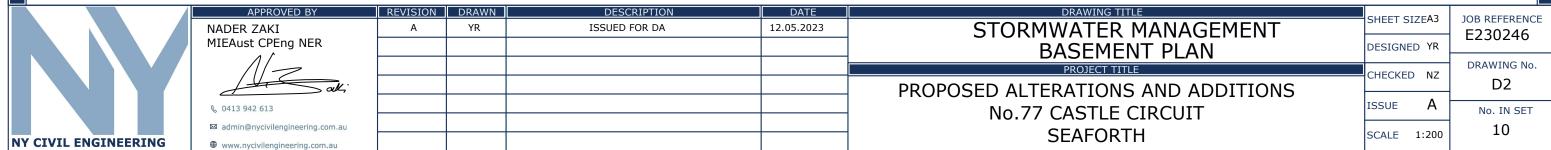
NOTE: ENSURE ANY PROPOSED PAVING
IS GRADED SO THAT IT IS NOT
IMPACTING ADJOINING
PROPERTIES.



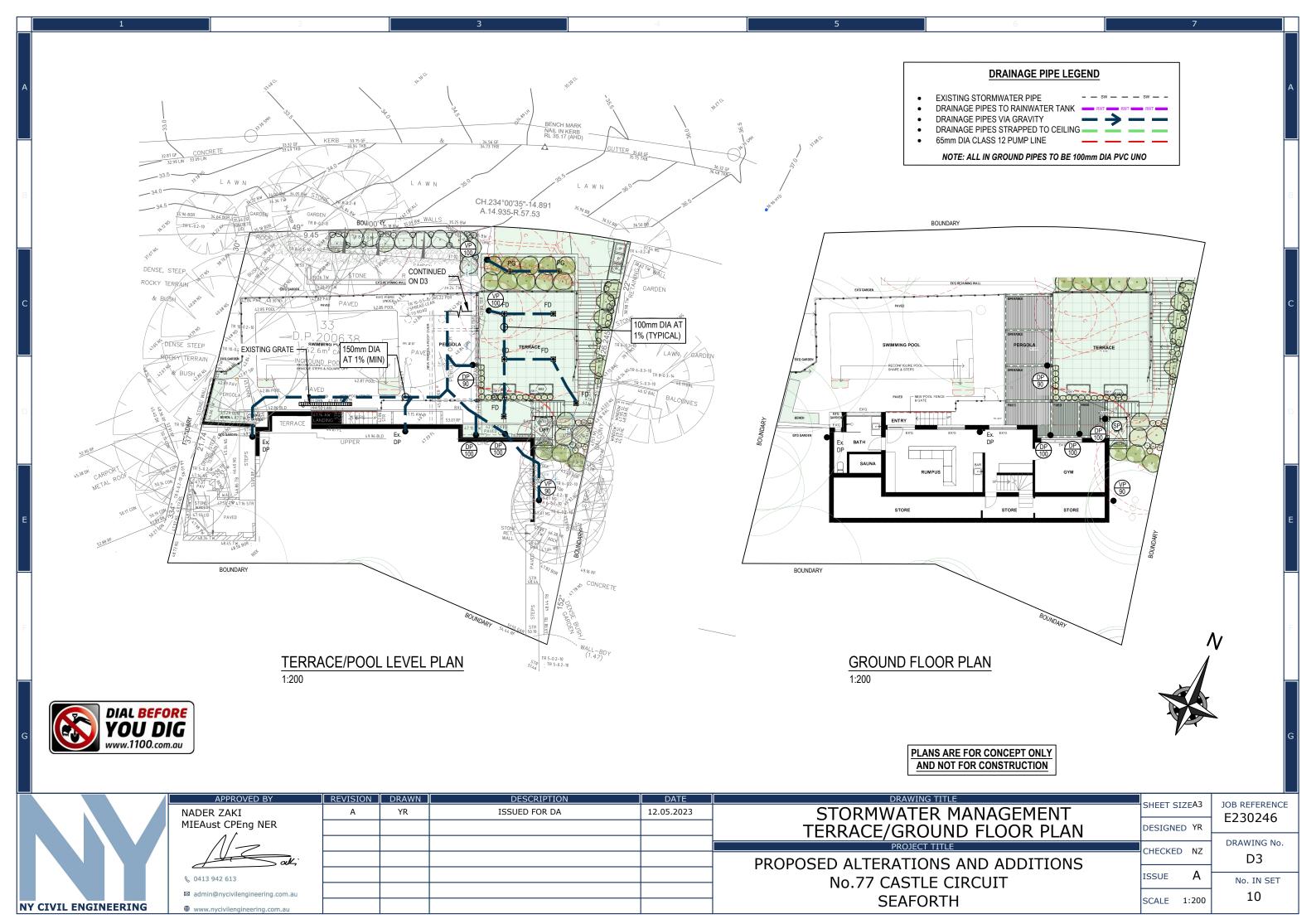




PLANS ARE FOR CONCEPT ONLY
AND NOT FOR CONSTRUCTION



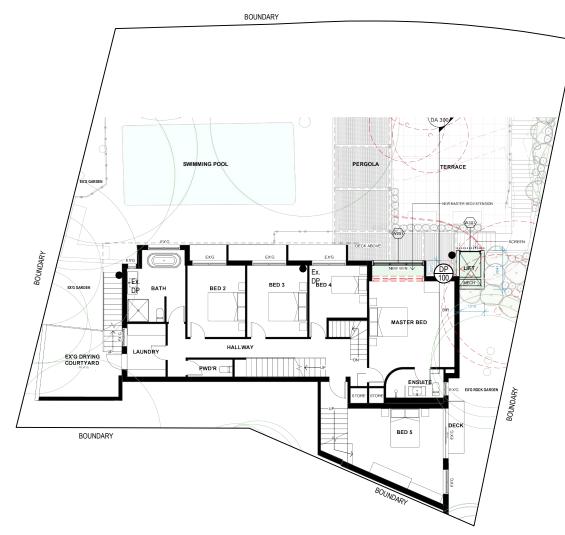






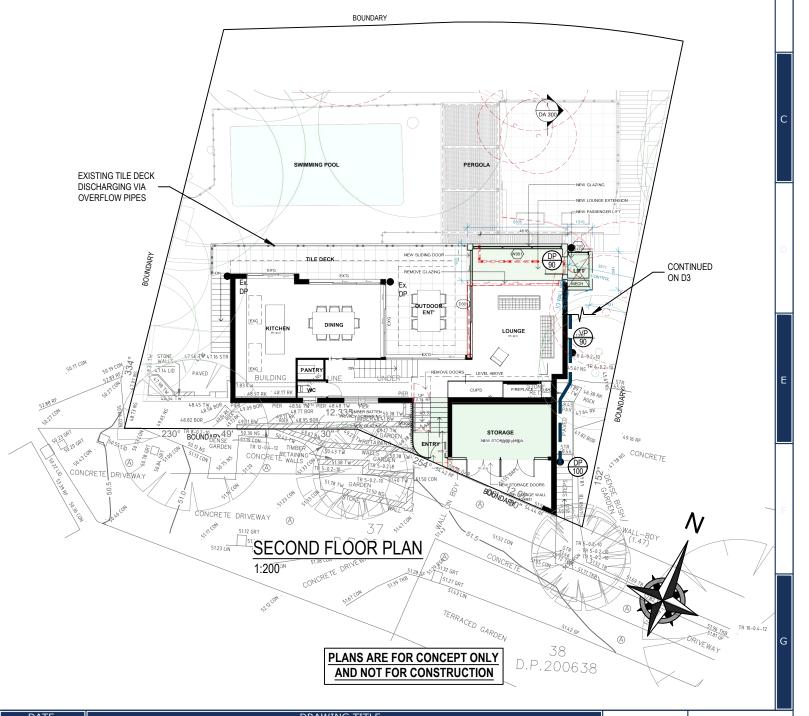
- EXISTING STORMWATER PIPEDRAINAGE PIPES TO RAINWATER TANK
- DRAINAGE PIPES VIA GRAVITY
- DRAINAGE PIPES STRAPPED TO CEILING
- 65mm DIA CLASS 12 PUMP LINE

NOTE: ALL IN GROUND PIPES TO BE 100mm DIA PVC UNO



FIRST FLOOR PLAN 1:200





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www.nycivilengineering.com.au				

STORMWATER MANAGEMENT FIRST/SECOND FLOOR PLAN
PROJECT TITLE

PROPOSED ALTERATIONS AND ADDITIONS No.77 CASTLE CIRCUIT **SEAFORTH**

SHEET SIZEA3	JOB REFERENCE E230246
DESIGNED YR	EZ3UZ40
	DRAWING No
CHECKED NZ	

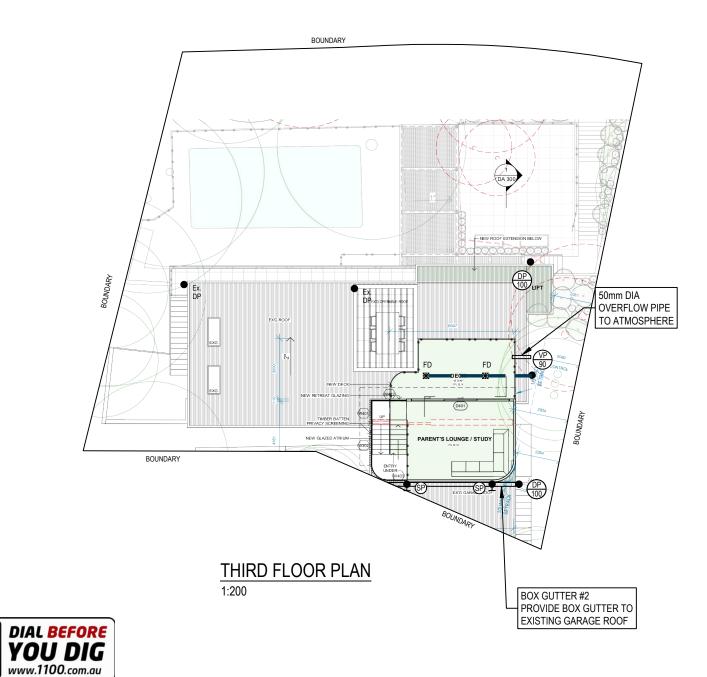
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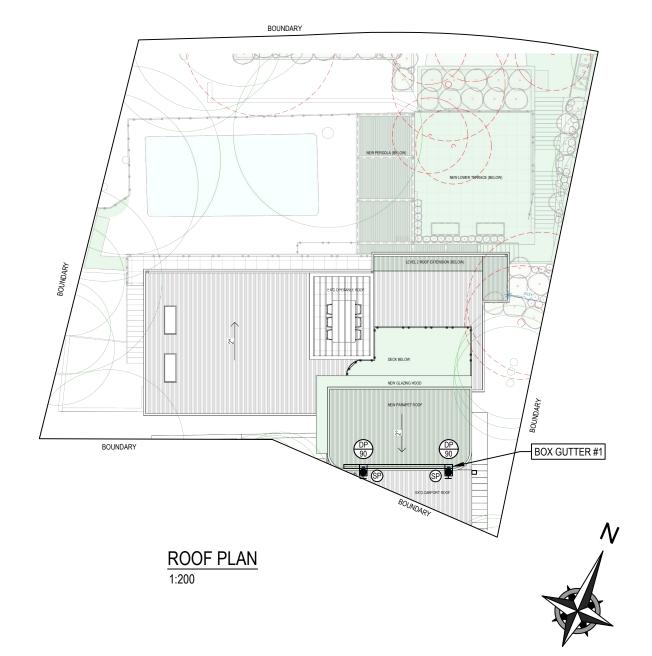
10 SCALE 1:200



- EXISTING STORMWATER PIPE DRAINAGE PIPES TO RAINWATER TANK
- DRAINAGE PIPES VIA GRAVITY
- DRAINAGE PIPES STRAPPED TO CEILING
- 65mm DIA CLASS 12 PUMP LINE

NOTE: ALL IN GROUND PIPES TO BE 100mm DIA PVC UNO





PLANS ARE FOR CONCEPT ONLY AND NOT FOR CONSTRUCTION



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DRAWING TITLE
STORMWATER MANAGEMENT
THIRD FLOOR/ROOF PLAN

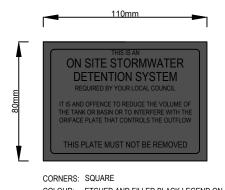
SEAFORTH

PROPOSED ALTERATIONS AND ADDITIONS No.77 CASTLE CIRCUIT

EET SIZEA3	JOB REFERENCE E230246
SIGNED YR	E230240
	DRAWING No.

CHECKED NZ D5

ISSUE Α No. IN SET 10 SCALE 1:200



COLOUR: ETCHED AND FILLED BLACK LEGEND ON NATURAL SILVER BACKGROUND

MATERIAL: ALUMINIUM 0.9mm MILL

OSD PLAQUE



1 - SIGN SHALL BE PLACED IN A CLEAR AND VISIBLE LOCATION OF EACH DETENTION

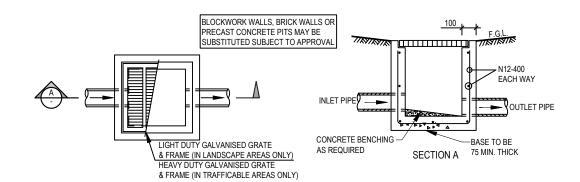
COLOURS:

RED TRIANGLE AND "WARNING"

FIGURE AND OTHER LETTERING - BLACK

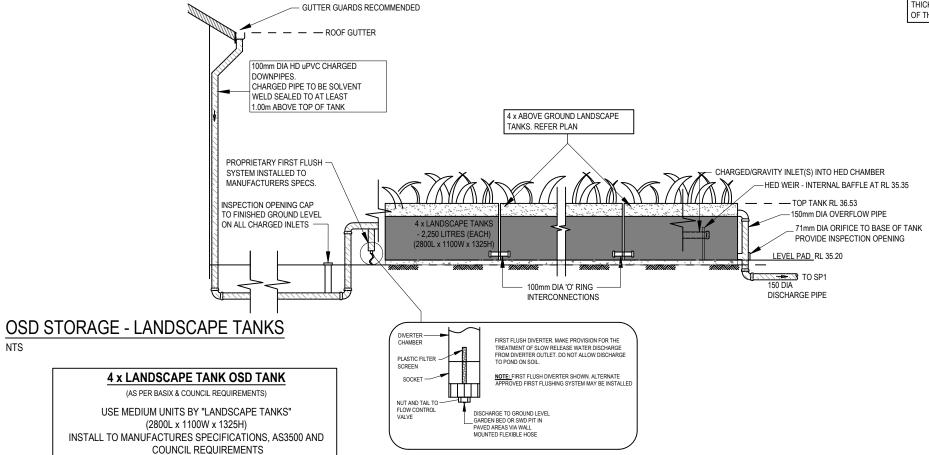
ON-SITE DETENTION WARNING SIGN

NTS



TYPICAL PIT (SIP)

ALL PROPOSED SITE PITS ARE TO BE CONSTRUCTED IN CONCRETE CAST IN SITU, PLASTIC OR BRICK PITS ARE NOT ACCEPTABLE HOWEVER, 'COUNCIL MAY CONSIDER PRE-CAST JNITS IF THE UNITS ARE PLACED ON A SOLID BASE OF GRAVEL OR CONCRETE OF 75mm THICK AND BACKFILL UP TO HALF THE DEPTH OF THE PIT SURROUND WITH CONCRETE.





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STORMWATER DETAILS

PROPOSED ALTERATIONS AND ADDITIONS No.77 CASTLE CIRCUIT **SEAFORTH**

SHEET SIZEA3	JOB REFERENCE E230246		
DESIGNED YR	E230240		
	DRAWING No.		
CHECKED NZ			

D6 Α ISSUE No. IN SET

10 SCALE AS NOTED

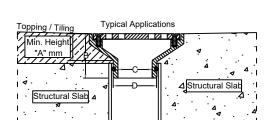
SPS 100mm Square Push-in Floor Drain

100mm Square

 Square grate available in 316 stainless steel. 304 grade available by special order. 50mm outlet 80mm outlet

de available by special Specification codes:

Q100SR (50mm, satin 316SS)
 Q100SR4 (50mm, polished 304SS)
 Q100SR4 (50mm, polished 304SS)
 Q100/80SR (80mm, satin 316SS)
 Q100/80SR4 (80mm, polished 304SS)



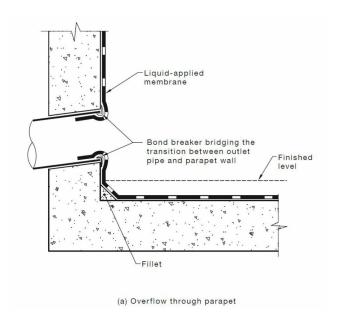
N.B	Α	В	С	D
50mm	25	46	42	50
80mm	18	50	64	72

*For flow rate data please refer to appendix.

BALCONY FLOOR DRAIN - FD

With topping/tiling

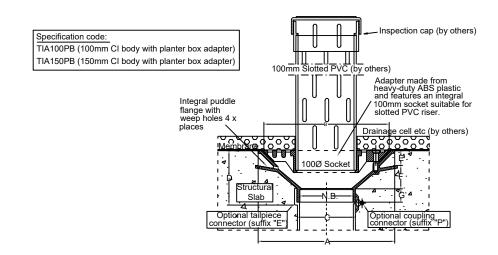
NTS



BALCONY PARAPET OVERFLOW - AS4654.2

NIS

SPS Truflo 100mm & 150mm RWO with All-purpose Planter Box Adapter

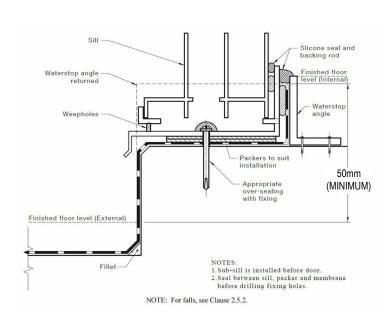


Dimensions (mm)

N.B	Α	В	С	D	E	F	G
100	260	240	103	106	28	45	25
150	260	240	151	86	28	37	25

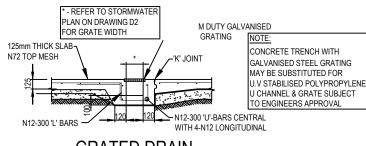
PLANTER GRATE - PG

NTS



BALCONY MEMBRANE TERMINATION - AS4654.2

NTS



GRATED DRAIN NTS

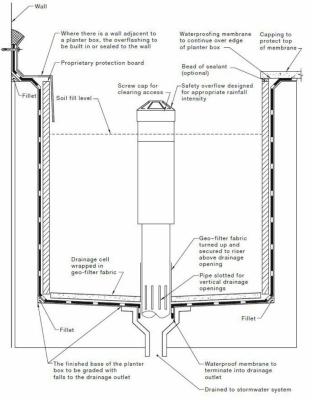
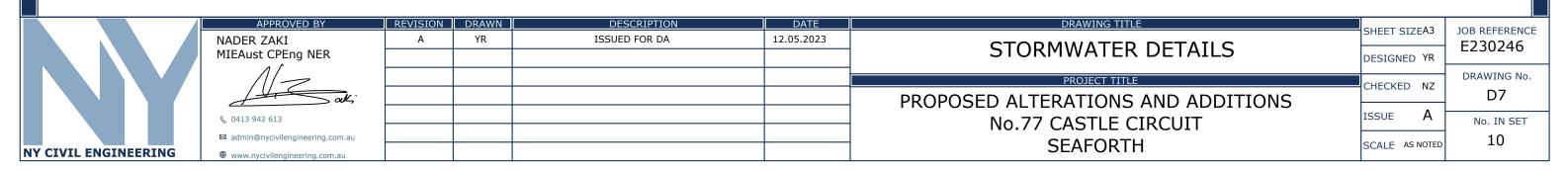
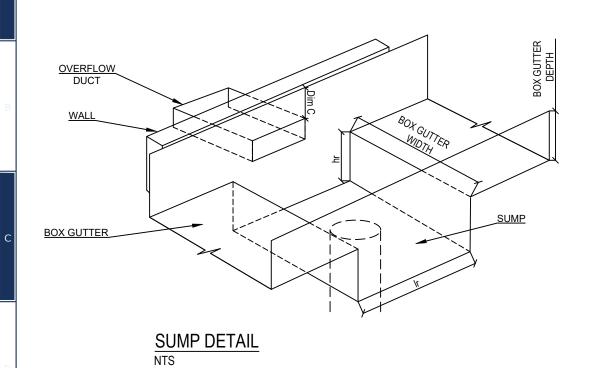


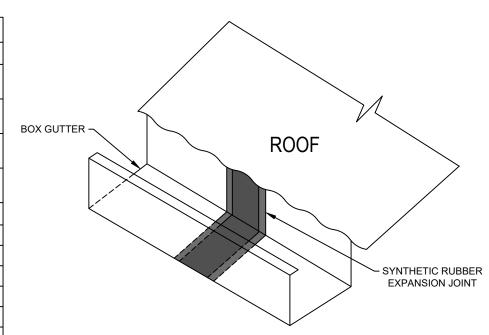
FIGURE 2.17 TYPICAL PLANTER BOX CONSTRUCTION

PLANTER MEMBRANE TERMINATION - AS4654.2

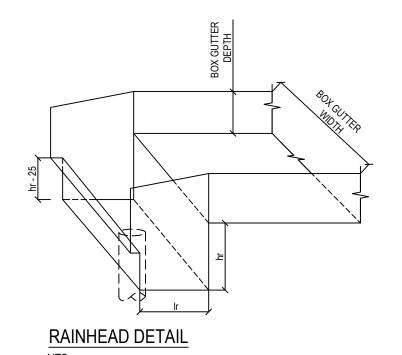




DIMENSIONS (r	mm)						
	BOX GUTTER #1						
CATCHMENT AREA TO DOWNPIPE	15m ²						
WIDTH OF BOX GUTTER	200						
DEPTH OF BOX GUTTER (AT HP)	115						
DEPTH OF BOX GUTTER (AT SUMP)	140						
SLOPE OF BOX GUTTER	1:200						
SUMP WIDTH	200						
SUMP LENGTH (Ir)	400						
SUMP DEPTH (hr)	50						
OVERFLOW WIDTH	200						
OVERFLOW DEPTH	65						
DIMENSION C	40						
DOWNPIPE DIA	100						
ROOF DRAINAGE DESIGNED FOR 100 YEAR ARI STORM EVENT (I = 270 mm/hr)							



 $\frac{\mathsf{BOX}\;\mathsf{GUTTER}\;\mathsf{-}\;\mathsf{SYNTHETIC}\;\mathsf{RUBBER}\;\mathsf{EXPANSION}\;\mathsf{JOINT}}{\mathsf{NTS}}$



DIMENSIONS (mm)							
	BOX GUTTER #2						
CATCHMENT AREA TO DOWNPIPE	65m ²						
BOX GUTTER WIDTH	200						
DEPTH OF BOX GUTTER (AT HP)	125						
DEPTH OF BOX GUTTER (AT RAIN HEAD)	180						
SLOPE OF BOX GUTTER	1:200						
DEPTH OF RAINHEAD (hr)	150						
LENGTH OF RAINHEAD (Ir)	150						
DOWNPIPE DIA	100						
ROOF DRAINAGE DESIGNED FOR 100 YEAR ARI STORM EVENT (I = 270 mm/hr)							

AS3500.3:2021 BOX GUTTER REQUIREMENTS									
MATERIALS	BASE METAL	MAXIMUM LENGTH B	MINIMUM EXPANSION						
	THICKNESS (mm)	ONE END FIXED AND ONE END FREE TO MOVE	BOTH ENDS FREE TO MOVE	SPACE (mm)					
ALUMINIUM	0.90	12	24	- 50					
ALOWIINIOW	1.00	12	24						
	0.60	9	18						
COPPER	0.80	15	30	50					
	1.00	26	52						
STEEL	0.55	20 40		50					
STEEL	0.75	25	50	50					
STAINLESS STEEL	0.55	20	40	50					
PVC		10	20	30					
ZINC	0.80	10	20	50					

<u>LAP JOINTS:</u> FOR METAL GUTTERS WITH LAPS BETWEEN 20 mm TO 25 mm THE LAP SHALL BE FULLY SEALED. WIDER LAPS SHALL BE SEALED AND FASTENED AT EACH END OF THE LAP RATHER THAN FILLING THE TOTAL AREA.

GRADIENTS: GRADIENTS SHALL BE NOT FLATTER THAN 1:200 FOR SOLE WIDTHS EQUAL TO OR LESS THAN 600 mm WIDE. DEVIATIONS FROM THESE GRADIENTS SHALL BE SMOOTH AND NOT CAUSE PERMANENT PONDING.

OUTLETS: OUTLETS SHALL DISCHARGE THROUGH EITHER A RAINHEAD OR A SUMP.

	APPROVED BY	REVISION	DRAWN	DESCRIPTION	DATE	DRAWING TITLE	SHEET SIZEA3	JOB REFERENCE
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	admin@nycivilengineering.com.au					No.77 CASTLE CIRCUIT		10
NY CIVIL ENGINEERING	www.nycivilengineering.com.au					SEAFORTH	SCALE AS NOTED	10

NOTES:

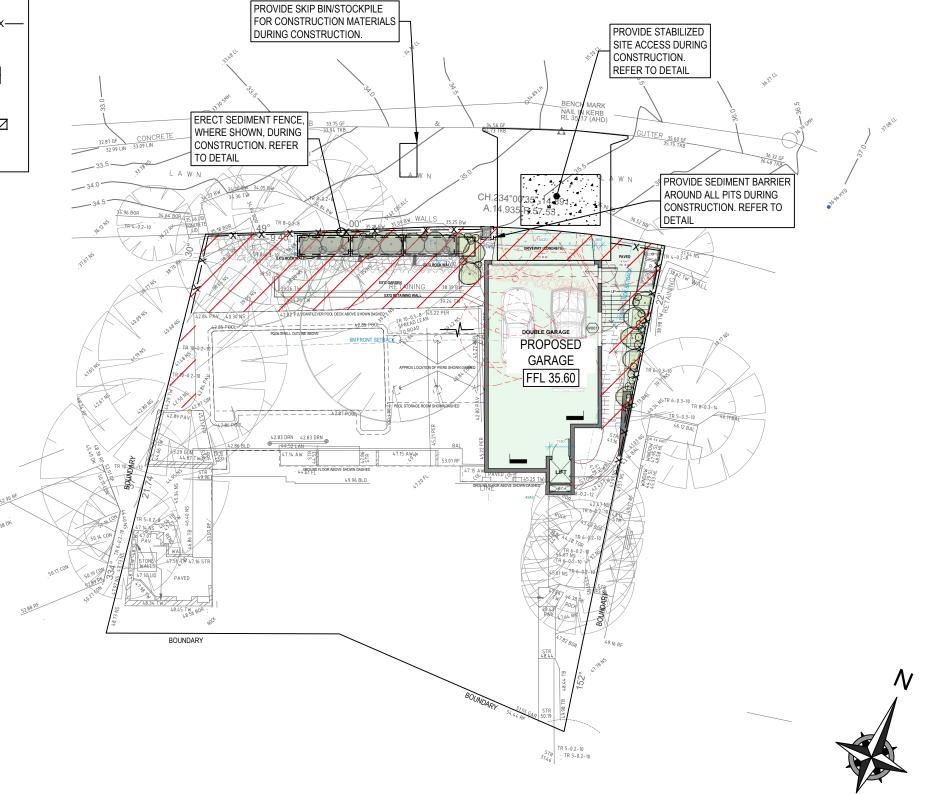
- ALL EROSION AND SEDIMENT CONTROL MEASURES TO BE INSPECTED AND MAINTAINED DAILY BY SITE MANAGER IN ACCORDANCE WITH COUNCIL REQUIREMENTS.
- 2. ALL STOCKPILES TO BE CLEAR FROM DRAINS, GUTTERS AND FOOTPATHS.
- 3. DRAINAGE IS TO BE CONNECTED TO STORMWATER SYSTEM AS SOON AS POSSIBLE.
- 4. ROADS AND FOOTPATH TO BE SWEPT DAILY AS REQUIRED BY COUNCIL.
- 5. IF YOU DO NOT COMPLY WITH COUNCIL REQUIREMENTS & DOCUMENTATION, YOU MAY BE LIABLE TO PROSECUTION FROM GOVERNMENT AUTHORITIES.

DUST CONTROL:

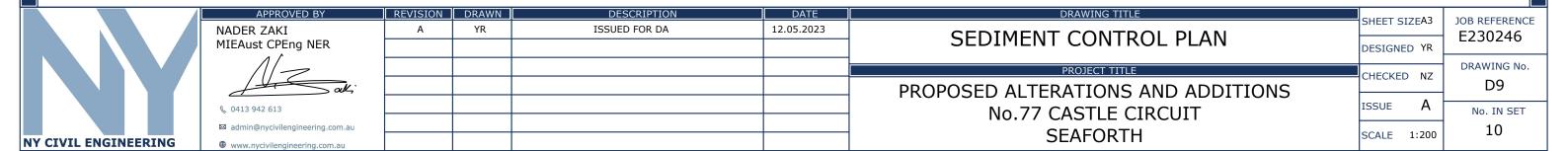
• NOTE: DURING EXCAVATION, DEMOLITION AND CONSTRUCTION, ADEQUATE MEASURES SHALL BE TAKEN TO PREVENT DUST FROM AFFECTING THE AMENITY OF THE NEIGHBORHOOD.

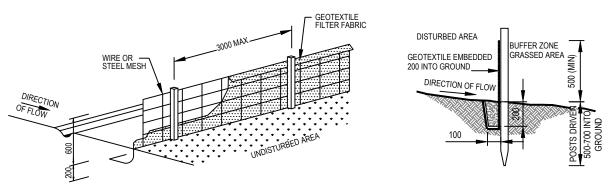
THE FOLLOWING MEASURES MUST BE ADOPTED:

- 1. PHYSICAL BARRIERS SHALL BE ERECTED AT RIGHT ANGLES TO PREVENT WIND DIRECTION OR SHALL BE PLACED AROUND OR OVER DUST SOURCES TO PREVENT WIND OR ACTIVITY FROM GENERATING DUST.
- 2. EARTHWORKS AND SCHEDULING ACTIVITIES SHALL BE MANAGED TO COINCIDE WITH THE NEXT STAGE OF DEVELOPMENT TO MINIMISE THE AMOUNT OF TIME THE SITE IS LEFT TO CUT OR EXPOSED.
- 3. ALL MATERIALS SHALL BE STORED OR STOCKPILED AT THE BEST LOCATIONS.
- 4. THE GROUND SURFACE SHOULD BE DAMPENED SLIGHTLY TO PREVENT DUST FROM BECOMING AIRBORNE BUT SHOULD NOT BE WET TO THE EXTENT THAT RUN-OFF OCCURS.
- 5. ALL VEHICLES CARRYING SOIL OR RUBBLE TO OR FROM THE SITE SHALL AT ALL TIMES BE COVERED TO PREVENT THE ESCAPE OF DUST.
- 6. ALL EQUIPMENT WHEELS SHALL BE WASHED BEFORE EXISTING THE SITE USING MANUAL OR AUTOMATED SPRAYERS AND DRIVE THROUGH WASHING BAYS.
- 7. GATES SHALL BE CLOSED BETWEEN VEHICLE MOVEMENTS SHALL BE FITTED WITH SHADE CLOTH.
- 8. CLEANING OF FOOTPATHS AND ROADWAYS SHALL CARRIED OUT DAILY.
- 9. ALL BUILDERS REFUSE, SPOIL AND/OR MATERIAL UNSUITABLE FOR USE IN LANDSCAPE AREAS SHALL BE REMOVED FROM SITE ON COMPLETION OF THE BUILDING WORKS.









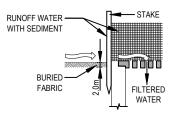
SEDIMENT FENCE DETAIL

-STABILIZE STOCKPILE

SEDIMENT FENCE

CONSTRUCTION NOTES:

- CONSTRUCT SEDIMENT FENCES AS CLOSE AS POSSIBLE TO BEING PARALLEL TO THE CONTOURS OF THE SITE, BUT WITH SMALL RETURNS AS SHOWN IN THE DRAWING TO LIMIT THE CATCHMENTS AREA OF ANY ONE SECTION. THE CATCHMENTS AREA SHOULD BE SMALL ENOUGH TO LIMIT WATER FLOW IF CONCENTRATED AT ONE POINT TO 50 LITRES PER SECOND IN THE DESIGN STORM EVENT, USUALLY THE 10 YEAR EVENT.
- CUT A 150mm DEEP TRENCH ALONG THE UPSLOPE LINE OF THE FENCE FOR THE BOTTOM OF THE FABRIC TO BE ENTRENCHED.
- DRIVE 1.5m LONG STAR PICKETS INTO GROUND AT 2.5m INTERVALS (MAX) AT THE DOWNSLOPE EDGE OF THE TRENCH. ENSURE ANY STAR PICKETS ARE FITTED WITH SAFETY CAPS.
 FIX SELF-SUPPORTING GEOTEXTILE TO THE UPSLOPE SIDE OF THE POSTS
- ENSURING IT GOES TO THE BASE OF THE TRENCH. FIX THE GEOTEXTILE WITH WIRE TIES OR AS RECOMMENDED BY THE MANUFACTURER. ONLY USE GEOTEXTILE SPECIFICALLY PRODUCED FOR SEDIMENT FENCING. THE USE OF SHADE CLOTH FOR THIS PURPOSE IS NOT SATISFACTORY.
- JOIN SECTIONS OF FABRIC AT A SUPPORT POST WITH 150mm OVERLAP.
- BACKFILL THE TRENCH OVER THE BASE OF THE FABRIC AND COMPACT IT THOROUGHLY OVER THE GEOTEXTILE.



SEDIMENT BARRIER AROUND PIT

STOCKPILE

WATER

DIVERSION

- NOTE:

 1. PLACE STOCKPILES MORE THAN 2 (PREFERABLY 5) METERS FROM EXISTING

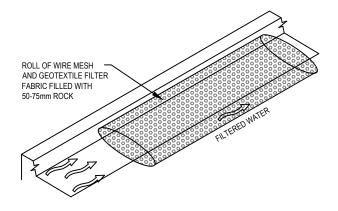
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- CONSTRUCT ON THE CONTOUR AS LOW, FLAT, ELONGATED MOUNDS.
- WHERE THERE IS SUFFICIENT AREA. TOPSOIL STOCKPILES SHALL BE LESS THAN 2
- WHERE THEY ARE TO BE IN PLACE FOR MORE THAN 10 DAYS, STABILIZE FOLLOWING THE APPROVED ESCP OR SWMP TO REDUCE THE C-FACTOR TO LESS THAN 0.10. CONSTRUCT EARTH BANKS (LOW FLOW) ON THE UPSLOPE SIDE TO DIVERT WATER AROUND STOCKPILES AND SEDIMENT FENCES 1 TO 2 METERS ON THE DOWNSLOPE

CONSTRUCTION NOTES:

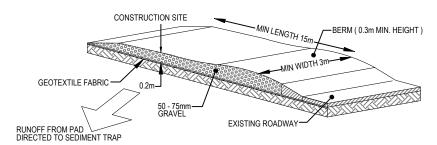
- FABRICATE A SEDIMENT BARRIER MADE FROM GEOTEXTILE OR STRAW BALES
- FOLLOW STRAW FILTER AND SEDIMENT FENCE FOR INSTALLATION PROCEDURES FOR THE STRAW BALES OR GEOFABRIC. REDUCE THE PICKET SPACING TO 1 METRE CENTRES.
- IN WATERWAYS, ARTIFICIAL SAG POINTS CAN BE CREATED WITH SANDBAGS OR EARTH BANKS AS SHOWN IN THE DRAWING.
- DO NOT COVER THE INLET WITH GEOTEXTILE UNLESS THE DESIGN IS ADEQUATE TO ALLOW FOR ALL WATERS TO BYPASS IT.



MESH AND GRAVEL FILTER

CONSTRUCTION NOTES:

- INSTALL FILTERS TO KERB INLETS ONLY AT SAG POINTS FABRICATE A SLEEVE MADE FROM GEOTEXTILE OR WIRE MESH LONGER THAN THE LENGTH OF THE INLET PIT AND FILL IT WITH 25mm TO 50mm GRAVEL.
- FORM AN ELLIPTICAL CROSS-SECTION ABOUT 150mm(h) x 400mm(w).
 PLACE THE FILTER AT THE OPENING LEAVING AT LEAST 100mm SPACE BETWEEN IT AND THE KERB INLET. MAINTAIN THE OPENING WITH SPACER BLOCKS.
- FORM A SEAL WITH THE KERB TO PREVENT SEDIMENT BYPASSING THE FILTER.
- SANDBAGS FILLED WITH GRAVEL CAN SUBSTITUTE FOR THE MESH OR GEOTEXTILE PROVIDING THEY ARE PLACED SO THAT THEY FIRMLY ABUT EACH OTHER AND SEDIMENT-LADEN WATERS CANNOT PASS BETWEEN.



STABILIZED SITE ACCESS

CONSTRUCTION NOTES:

- STRIP THE TOPSOIL, LEVEL THE SITE AND COMPACT THE SUBGRADE COVER THE AREA WITH NEEDLE-PUNCHED GEOTEXTILE
- CONSTRUCT A 200mm THICK PAD OVER THE GEOTEXTILE USING ROAD BASED OR 30mm AGGREGATE
- ENSURE THE STRUCTURE IS AT LEAST 15m LONG OR TO BUILD ALIGNMENT AND AT LEAST 3 METERS WIDE.
- WHERE A SEDIMENT FENCE JOINS ONTO THE STABILIZED ACCESS, CONSTRUCT A HUMP IN THE STABILIZED ACCESS TO DIVERT WATER TO THE SEDIMENT FENCE.

	APPROVED BY	REVISION	DRAWN	DESCRIPTION	DATE	DRAWING TITLE	CHEET CTTEA2	100 DEFEDENCE
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