STORMWATER MANAGEMENT PLAN

EROSION CONTROL

BEFORE EARTHWORKS CAN COMMENCE THE EROSION & SEDIMENT CONTROL MEASURES MUST BE IN PLACE.

DURING THE CONSTRUCTION PERIOD, THESE CONTROL MEASURES WILL NEED TO BE INSPECTED & MAINTAINED REGULARLY, ESPECIALLY AFTER STORM EVENTS, BY THE CONTRACTOR.

ALL WORK IS TO BE CARRIED OUT TO PREVENT EROSION, CONTAMINATION & SEDIMENTATION OF THE STORAGE SITE, SURROUNDING AREAS & DRAINAGE SYSTEMS.

MINIMIZE DISTURBED AREA COVERED WITH NATURAL VEGETATION. ONLY THOSE AREAS DIRECTLY REQUIRED FOR CONSTRUCTION ARE

INSTALL EROSION/SEDIMENT CONTROL MEASURES PRIOR TO COMMENCEMENT OF CONSTRUCTION OR EXCAVATION OPERATIONS.

PROVIDE SILT FENCE/STRAW BAIL BARRIERS TO THE LOW SIDE OF ALL EXPOSED EARTH EXCAVATIONS. TIE SEDIMENT FENCING MATERIAL TO CYCLONE WIRE SECURITY FENCE. SEDIMENT CONTROL FABRIC SHALL BE AN APPROVED MATERIAL (EG. HUMES PROPEX STOP) STANDING 300mm ABOVE GROUND & EXTENDING 150mm BELOW GROUND.

ISOLATE EXISTING STORMWATER PITS WITH STRAW BALES OR SILT TRAPS TO FILTER ALL INCOMING FLOWS.

DO NOT STOCKPILE EXCAVATED MATERIAL ON THE ROAD WAY.

DIVERT CLEAN WATER FROM UNDISTURBED AREAS AROUND THE WORKING AREAS

CONSTRUCTION ENTRY/EXIT SHALL BE VIA THE LOCATION NOTED ON THE DRAWING. CONTRACTOR SHALL ENSURE ALL DROPPABLE SOIL & SEDIMENT IS REMOVED PRIOR TO CONSTRUCTION TRAFFIC EXITING SITE. CONTRACTOR SHALL ENSURE ALL CONSTRUCTION TRAFFIC ENTERING AND LEAVING THE SITE DO SO IN A FORWARD

TREAT THE STORMWATER RUNOFF WITH SUSPENDED SOLIDS SO THE DISCHARGE WATER QUALITY TO COUNCIL STORMWATER DRAINAGE SYSTEM HAS A MAXIMUM CONCENTRATION OF SUSPENDED SOLIDS THAT DOES NOT EXCEED 50 MILLIGRAMS PER LITRE IN ACCORDANCE WITH THE PROTECTION OF THE ENVIRONMENT OPERATION ACT (POEO 1997) AND SHALL BE APPROVED BY LOCAL COUNCIL

ADOPT TEMPORARY MEASURES AS MAY BE NECESSARY FOR EROSION & SEDIMENT CONTROL, INCLUDING BUT NOT LIMITED TO

DRAINS: TEMPORARY DRAINS AND CATCH DRAINS.
 SPREADER BANKS OR OTHER STRUCTURES: TO DISPERSE.

CONCENTRATED RUNOFF.

SILT TRAPS: CONSTRUCTION AND MAINTENANCE OF SILT TRAPS TO PREVENT DISCHARGE OF SCOURED MATERIAL TO DOWNSTREAM

AFTER RAIN, INSPECT, CLEAN, AND REPAIR IF REQUIRED, TEMPORARY EROSION & SEDIMENT CONTROL MEASURES.

REMOVE TEMPORARY EROSION & SEDIMENT CONTROL MEASURES

COMPLY WITH THE REQUIREMENTS OF LANDCOM'S MANAGING URBAN STORMWATER - SOIL AND CONSTRUCTION 'THE BLUE BOOK' LATEST EDITION

THE EROSION & SEDIMENT CONTROL PLAN PROVIDED IS ONLY INDICATIVE. THE CONTRACTOR SHOULD PREPARE A DETAILED ESCP SUITABLE FOR THE SPECIFIC SITE CONDITIONS



DIAL BEFORE YOU DIG SHOULD BE CONTACTED PRIOR TO ANY EXCAVATION ON SITE

TM: TRADE MARK OF THE ASSOCIATION OF DIAL BEFORE YOU DIG SERVICES LTD. USED

GENERAL NOTES

ALL WORK SHALL BE CARRIED OUT IN ACCORDANCE WITH COUNCIL'S REQUIREMENTS, BUILDING CODE OF AUSTRALIA, NSW CODE OF PRACTICE AND THE TO THE RELEVANT SERVICE CODES.

THESE DRAWINGS SHALL BE READ IN CONJUNCTION WITH ALL ARCHITECTURAL AND OTHER CONSULTANTS' DRAWINGS AND SPECIFICATIONS AND WITH SUCH OTHER WRITTEN INSTRUCTIONS AS MAY BE ISSUED DURING THE COURSE OF THE CONTRACT. ALL DISCREPANCIES SHALL BE REFERRED TO THE SUPERINTENDENT FOR DECISION BEFORE PROCEEDING WITH THE WORK.

ALL DIMENSIONS SHOWN ON THE DRAWINGS ARE IN MILLIMETERS (U.N.O.). DIMENSIONS SHALL NOT BE OBTAINED BY SCALING OF THESE DRAWINGS. USE FIGURED DIMENSIONS ONLY.

BENCHMARKS HAVE BEEN ESTABLISHED WHERE INDICATED ON THE DRAWINGS. ALL LEVELS ARE TO AUSTRALIAN HEIGHT DATUM (A.H.D.) THE CONTRACTOR SHALL UNDERTAKE ALL NECESSARY SURVEY WORK TO ENSURE THAT THE WORKS ARE CONSTRUCTED TO DESIGN LINE AND

SETTING OUT DIMENSIONS AND LEVELS SHOWN ON THE DRAWINGS SHALL BE VERIFIED BY THE CONTRACTOR.

ALL MATERIALS SHALL BE IN ACCORDANCE WITH THE REQUIREMENTS THE RELEVANT SAA CODES AND THE BY-LAWS AND ORDINANCES THE RELEVANT BUILDING AUTHORITIES.

IT IS THE CONTRACTOR'S RESPONSIBILITY TO PROVIDE ALL SAFETY FENCES, WARNING SIGNS, TRAFFIC DIVERSIONS AND THE LIKE DURING CONSTRUCTION. ALL WORKS TO COMPLY WITH WORK HEALTH AND REQUIREMENTS AND OTHER RELEVANT AUTHORITY SAFETY

NO TREES SHALL BE REMOVED, CUTBACK OR RELOCATED WITHOUT THE WRITTEN INSTRUCTION FROM THE SUPERINTENDENT.

WHERE NEW WORKS ABUT EXISTING THE CONTRACTOR SHALL ENSURE THAT A SMOOTH EVEN PROFILE, FREE FROM ABRUPT CHANGES IS

WORKS SHALL BE CARRIED OUT IN ACCORDANCE WITH THE DETAILS SHOWN ON THE DRAWINGS AND THESE SPECIFICATIONS.

DESIGN LEVELS GIVEN ARE TO FINISHED SURFACE LEVEL AND INCLUSIVE OF TOPSOIL. (TOPSOIL DEPTH VARIES)

THE CONTRACTOR SHALL ARRANGE ALL SURVEY SETOUT TO BE CARRIED OUT BY A N.A.T.A. REGISTERED SURVEYOR.

CARE IS TO BE TAKEN WHEN EXCAVATING NEAR EXISTING SERVICES. NO MECHANICAL EXCAVATIONS ARE TO BE UNDERTAKEN OVER TELECOMMUNICATIONS OR ELECTRICAL SERVICES. HAND EXCAVATE IN

THE LOCATIONS OF UNDERGROUND SERVICES SHOWN ON THE DRAWING HAVE BEEN PLOTTED FROM DIAGRAMS PROVIDED BY SERVICE AUTHORITIES. THIS INFORMATION HAS BEEN PREPARED SOLELY FOR THE AUTHORITIES OWN USE AND MAY NOT NECESSARILY BE UPDATED

THE POSITION OF SERVICES AS RECORDED BY THE AUTHORITY AT THE TIME OF INSTALLATION MAY NOT REFLECT CHANGES IN THE PHYSICAL ENVIRONMENT SUBSEQUENT TO INSTALLATION.

MODULAR ENGINEERS DOES NOT GUARANTEE THAT THE SERVICES INFORMATION SHOWN ON THE DRAWING SHOWS MORE THAN THE PRESENCE OR ABSENCE OF SERVICES, AND WILL ACCEPT NO LIABILITY FOR INACCURACIES IN THE SERVICES INFORMATION SHOWN FROM ANY CAUSE WHATSOEVER.

IT IS THE CONTRACTOR'S RESPONSIBILITY TO OBTAIN FROM THE UTILITY SERVICES AUTHORITIES A CURRENT COPY OF UNDERGROUND SERVICES SEARCH FOR THE LOCATION OF ALL EXISTING SERVICES PRIOR TO COMMENCEMENT OF ANY WORK AND NOTIFY ANY CONFLICT WITH THE DRAWINGS IMMEDIATELY. CLEARANCE SHALL BE OBTAINED FROM THE RELEVANT REGULATORY AUTHORITY. CONTRACTOR TO KEEP COPY OF UNDERGROUND SERVICES SEARCH ON SITE AT ALL TIMES ANY DAMAGES TO SERVICES OR SERVICES ADJUSTMENTS SHALL BE CARRIED OUT BY THE CONTRACTOR OR RELEVANT AUTHORITY AT THE CONTRACTOR'S EXPENSE.

VISIT THE SITE BEFORE SUBMITTING THE FINAL TENDER PRICE TO ASSESS 'ON SITE' CONDITIONS. FAILURE TO DO SO WILL FORFEIT ANY CLAIM FOR NOT BEING AWARE OF CONDITIONS AFFECTING THE TENDER

THE CONTRACTOR SHALL PREPARE ACCURATE WORK-AS-EXECUTED DRAWINGS FOLLOWING THE COMPLETION OF ALL WORKS.

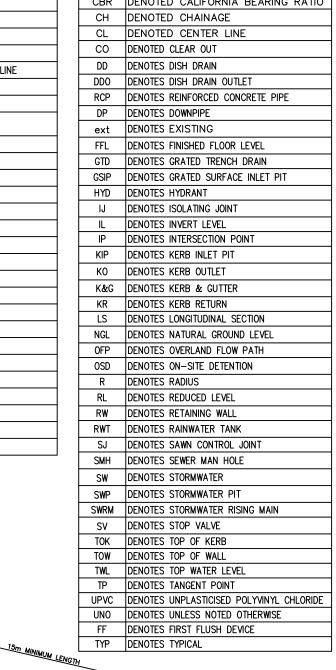
IS THE CONTRACTOR'S RESPONSIBILITY TO HAVE IN PLACE & MAINTAIN TRAFFIC FACILITIES AT ALL TIMES DURING CONSTRUCTION. 120

100 110

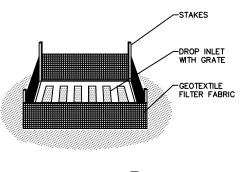
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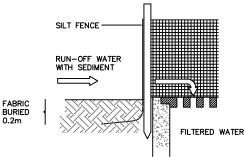
	LEGEND
m	DENOTED DOWN PIPE SPREADER
DP	DENOTES DOWN-PIPE
eDP	DENOTES EXISTING DOWN-PIPE
RWH	DENOTES RAINWATER HEAD WITH DOWN-PIPE
	DENOTES RAINWATER CHARGED LINE
	DENOTES STORMWATER 1% MIN. FALL GRAVITY LINE
	DENOTES STORMWATER SEALED CHARGE LINE
	DENOTES RAINWATER SEALED CHARGE LINE
	DENOTES ANTICIPATED ALIGNMENT OF EXISTING UNDERGROUND STORMWATER SYSTEM
<u> </u>	DENOTES SUBSOIL LINE
— sw—	DENOTES EXISTING STORMWATER LINE
<u> </u>	DENOTES AUTHORITY SEWER LINE
	DENOTES SEDIMENT FENCE
Œ	DENOTES CLEAR OUT EYE POINT
CE	DENOTES SEALED CLEAR OUT EYE POINT
	DENOTES GRATED SURFACE INLET PIT
	DENOTES GRATED TRENCH DRAIN
× 00.00	DENOTES PROPOSED SPOT LEVEL
	DENOTES EXISTING GRATED SURFACE INLET PIT
\boxtimes	DENOTES EXISTING JUNCTION PIT
	DENOTES EXISTING KERB INLET PIT
eTEL	DENOTES EXISTING TELSTRA PIT
⊞ eHYD	DENOTES EXISTING HYDRANT
⊠ eSV	DENOTES EXISTING STOP VALVE
□ eGAS	DENOTES EXISTING GAS VALVE
O ePP	DENOTES EXISTING POWER POLE
O eSMH	DENOTES EXISTING SEWER MANHOLE
OFP 🗪	DENOTES OVERLAND FLOW PATH

ĺ		ABBREVIATIONS
Ì	ø/DIA	DENOTED DIAMETER
Ī	CBR	DENOTED CALIFORNIA BEARING RATIO
	СН	DENOTED CHAINAGE
Ī	CL	DENOTED CENTER LINE
	СО	DENOTED CLEAR OUT
Ī	DD	DENOTES DISH DRAIN
Ì	DDO	DENOTES DISH DRAIN OUTLET
	RCP	DENOTES REINFORCED CONCRETE PIPE
Ī	DP	DENOTES DOWNPIPE
	ext	DENOTES EXISTING
	FFL	DENOTES FINISHED FLOOR LEVEL
I	GTD	DENOTES GRATED TRENCH DRAIN
	GSIP	DENOTES GRATED SURFACE INLET PIT
Ī	HYD	DENOTES HYDRANT
	IJ	DENOTES ISOLATING JOINT
I	IL	DENOTES INVERT LEVEL
l	IP	DENOTES INTERSECTION POINT
l	KIP	DENOTES KERB INLET PIT
	KO	DENOTES KERB OUTLET
	K&G	DENOTES KERB & GUTTER
Ì	KR	DENOTES KERB RETURN
	LS	DENOTES LONGITUDINAL SECTION
	NGL	DENOTES NATURAL GROUND LEVEL
	OFP	DENOTES OVERLAND FLOW PATH
	OSD	DENOTES ON-SITE DETENTION
ļ	R	DENOTES RADIUS
ļ	RL	DENOTES REDUCED LEVEL
	RW	DENOTES RETAINING WALL
ļ	RWT	DENOTES RAINWATER TANK
	SJ	DENOTES SAWN CONTROL JOINT
ļ	SMH	DENOTES SEWER MAN HOLE
	SW	DENOTES STORMWATER
	SWP	DENOTES STORMWATER PIT
	SWRM	DENOTES STORMWATER RISING MAIN
	SV	DENOTES STOP VALVE
	TOK	DENOTES TOP OF KERB
	TOW	DENOTES TOP OF WALL
	TWL	DENOTES TOP WATER LEVEL
	TP	DENOTES TANGENT POINT
	UPVC	DENOTES UNPLASTICISED POLYVINYL CHLORIDE
	UNO	DENOTES UNLESS NOTED OTHERWISE
	FF TYP	DENOTES FIRST FLUSH DEVICE
- 1	115	IDENOTES LIFTOME

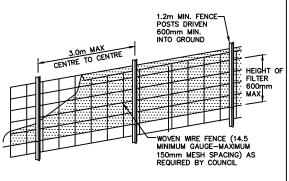


EXISTING ROAD

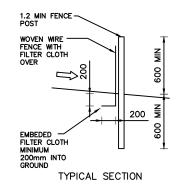




SUMP SEDIMENT TRAP NOT TO SCALE



DIAGRAMMATIC VIEW



SEDIMENT FENCE DETAIL

ROCK	ISMEGGS	RUN-OFF FROM— PAD DIRECTED TO SEDIMENT TRAP SAND BEDDING—			
	TEMPORARY	CONSTRUCTION	EXIT	(RUBBLE	ALTERNATIVE)

NOT TO SCALE

SIZE.	A3				
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REV.	DATE	DESCRIPTION	D.P.ENG.	DFT.	ALI AL-OBAIDI
A	14-JAN-2024	ISSUED FOR CDC	S.R.	S.R.	MSc, BSc, MIEAust,CPEng,NER,NPER (No: 5358554).
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					PE(Victoia)No.0007689, PDP0000072,
					PRE0000191, DEP0000203



CONSTRUCTION SITE

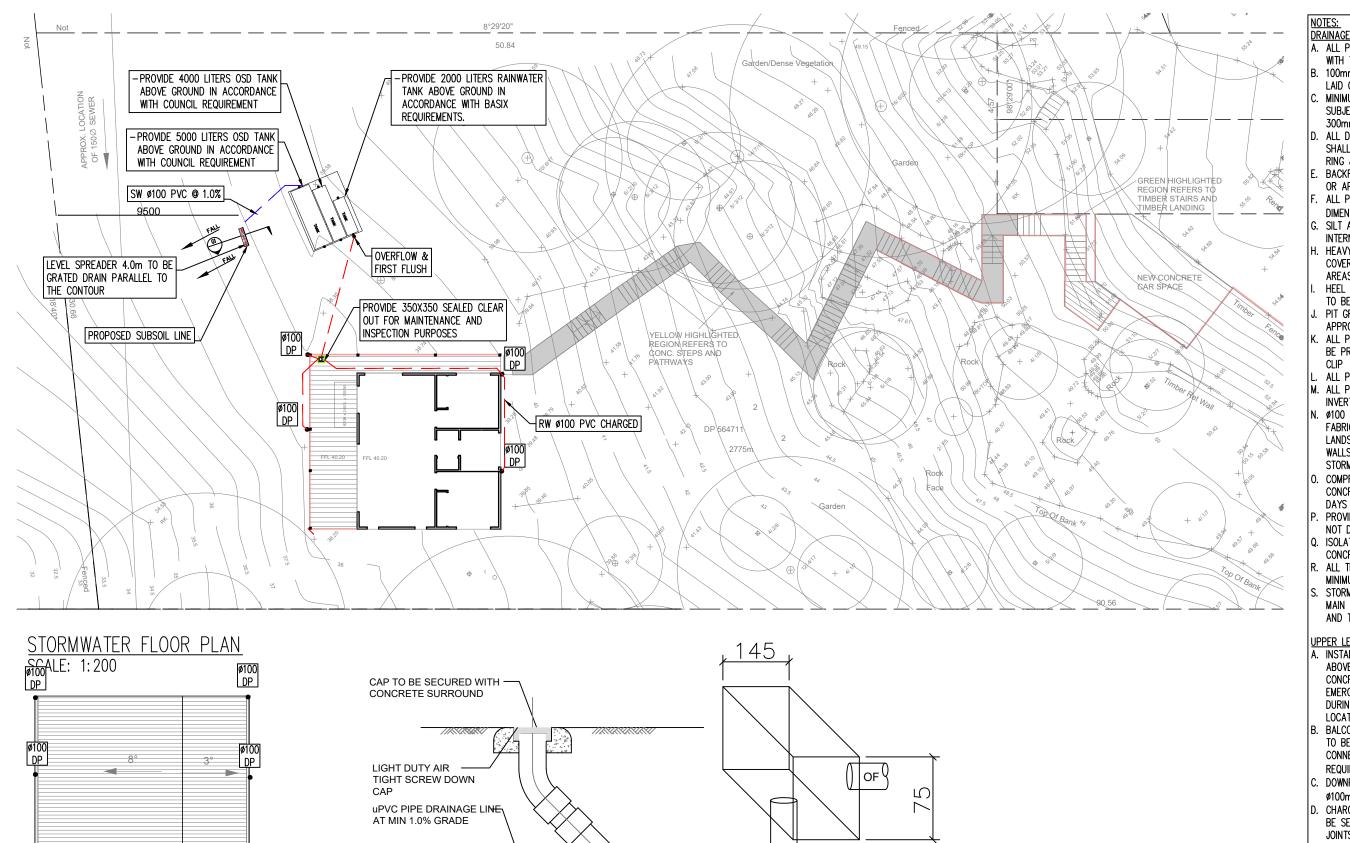
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PROJECT TITLE :	PROPOSED CONSTRUCTION OF A SECONDARY DWELLING
PROJECT ADDRESS :	111 WOORARRA AVENUE ELANORA HEIGHTS
PROJECT NO. :	STW320-2024
DRAWING TITLE :	TITLE PAGE, GENERAL NOTES, AND DETAILS—1
DRAWING NO. :	STW001
ISSUE DATE :	14-JAN-2024



PIPE SCHEDULE TAG SIZE MATERIAL GRADE TYPE Α P.V.C. **GRAVITY** DAI.100 MIN. 1% В DAI.150 P.V.C. MIN. 1% GRAVITY Χ DAI.100 P.V.C. CHARGE TO RWT/PIT D 200X100 GALV. STEEL MIN. 1% TO KERB E EXISTING **EXISTING EXISTING EXISTING**

- A. ALL PIPES TO BE LAID ON 75mm SAND BED WITH THE BARRELS FULLY SUPPORTED
- 100mm AND 150mm DIAMETER PIPES TO BE LAID ON MINIMUM 1% GRADE
 - MINIMUM DEPTH OF COVER FOR PIPES NOT SUBJECT TO VEHICULAR LOADING TO BE
 - ALL DRAINAGE PIPES LAID UNDER PAVEMENT SHALL BE REINFORCED CONCRETE WITH RUBBER RING JOINTS
 - BACKFILL TRENCHES WITH COMPACTED SAND OR APPROVED AGGREGATE MATERIAL
- ALL PITS TO HAVE 600x600mm INTERNAL DIMENSIONS (U.N.O.)
- SILT ARRESTÒRS TO HAVE 900x900mm INTERNAL DIMENSIONS
- HEAVY DUTY GALV. STEEL GRATES AND COVERS ARE TO BE PROVIDED IN TRAFFICABLE
- HEEL & WHEELCHAIR SAFE GRATE COVERS ARE TO BE PROVIDED IN PEDESTRIAN AREAS PIT GRATE TO BE TYPE WELDLOK OR APPROVED EQUIVALENT
- ALL PITS GREATER THAN 900mm DEEP SHALL BE PROVIDED WITH A CHILD-PROOF LOCKING
- ALL PITS SHALL BE MAINTAINED REGULARLY
- M. ALL PITS TO BE BENCHED MIN. 20mm TO INVERT OF OUTLET
- Ø100 SUBSOIL DRAINAGE PIPE WRAPPED IN FABRIC SOCK TO BE PROVIDED IN ALL LANDSCAPED AREAS & BEHIND RETAINING WALLS AND CONNECTED TO THE NEAREST STORMWATER PIT.
- COMPRESSIVE STRENGTH I'c FOR CAST IN SITU CONCRETE TO BE A MINIMUM OF 20MPa AT 28
- PROVIDE CLEANING EYES TO ALL DOWNPIPES NOT DIRECTLY CONNECTED TO PITS ISOLATED JOINTS TO BE PROVIDED TO ISOLATE
- CONCRETE PAVEMENTS FROM PITS ALL TRENCH GRATES PROVIDED SHALL HAVE A
- MINIMUM CLEAR WIDTH OF 200mm
- STORMWATER DRAINAGE CONNECTIONS TO THE MAIN SYSTEM SHALL BE TO THE REQUIREMENTS AND THE SATISFACTION OF LOCAL COUNCIL

UPPER LEVEL

- A. INSTALL Ø65mm uPVC SPITTER PIPES 20mm ABOVE SURFACE LEVEL FOR BALCONY AND CONCRETE ROOF AREAS TO ALLOW FOR EMERGENCY OVERFLOW INCASE OF BLOCKAGES DURING HEAVY STORMS. PLUMBER TO CONFIRM LOCATION DURING CONSTRUCTION.
- BALCONY, TERRACE & CONCRETE ROOF AREAS TO BE FITTED WITH RAINWATER OUTLETS AND CONNECTED TO NEAREST DOWNPIPE WHERE REQUIRED (TYP)
- DOWNPIPES (DP) SHOWN ON PLAN ARE TO BE ø100mm uPVC OR 100x75 U.N.O. (TYP).
- CHARGED DOWNPIPES SHOWN ON PLAN MUST BE SEWER GRADE Ø100mm uPVC WITH ALL JOINTS SOLVENT WELDED TO A LEVEL 1200mm ABOVE THE RAINWATER TANK INLET R.L. (TYP)
- PROPOSED DOWNPIPE LOCATIONS ARE NOMINAL AND TO BE CONFIRMED DURING CONSTRUCTION
- INSTALL DOWNPIPE WITH SPREADER PIPE (SP) (IF REQUIRED) TO DISPERSE STORMWATER ONTO LOWER ROOF AREAS EFFECTIVELY.

110 70 90 100 120 ˈSIZE: A3 ိL

STORMWATER ROOF PLAN

SCALE: 1:200

FLOW

REVISIONS APPROVED BY DATE DESCRIPTION ALI AL-OBAIDI MSc, BSc, MIEAust, CPEng, NER, NPER 14-JAN-2024 ISSUED FOR CDC S.R. S.R. (No: 5358554), RPEQ(28316), 31-JAN-2024 ISSUED FOR CDC S.R. S.R. PRF0000191



CLEANING EYE PIT

N.T.S

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DP

TYPICAL BOX GUTTER DETAIL

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PROJECT TITLE :	PROPOSED CONSTRUCTION OF A SECONDARY DWELLING
PROJECT ADDRESS :	111 WOORARRA AVENUE ELANORA HEIGHTS
PROJECT NO. :	STW320-2024
DRAWING TITLE :	STORMWATER DESIGN PLANS
DRAWING NO. :	STW002
ISSUE DATE :	14-JAN-2024

DESIGN NOTES:

THE SITE IS LOCATED IN NOTHERN BEACHES COUNCIL.

SITE AREA = 2775 m^2 (BY CALC'S)

THE DEVELOPMENT CONSISTS OF THE CONSTRUCTION OF A DETACHED SECONDARY DWELLING.

INCREASE IN IMPERVIOUS AREA = $68.8m^2$

THE INCREASE IN NEW DEVELOPMENT IMPERVIOUS AREA IS >100-150 SQM; THEREFORE OSD OF 9000L IS REQUIRED AS PER SECTION TABLE 7 OF THE WATER-MANAGEMENT-DEVELOPMENT-POLICY-AUG2020

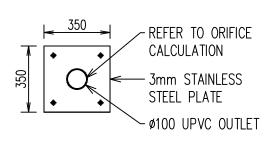
THE NEW SITE STORMWATER DRAINAGE WILL BE CONNECTED TO EXISTING AS SHOWN ON PLANS.

ALL NEW STORMWATER PIPES TO HAVE A MINIMUM OF 100mm CONCRETE OR 300mm TOPSOIL COVER U.N.O.

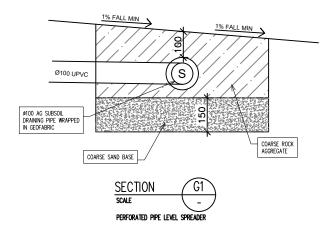
RAINWATER TANK TO BE EQUIPPED WITH FIRST FLUSH AND MOSQUITO PROTECTION DEVICES (REFER DETAIL).

LOCATION RAINWATER TANK SHOWN ON PLAN IS INDICATIVE. TO BE CONFIRMED DURING CONSTRUCTION.

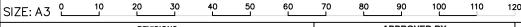
ALL STORMWATER PIPES ARE TO BE A MINIMUM OF 600mm CLEAR FROM EXISTING SEWER LINE (TYP).



TYPICAL ORIFICE PLATE ELEVATION



water tank level (h)=	1.82	m
total Discharge area	116	m2
Permissible Site Discharge(PSD)=Q=	4	L/s
√2*G*h=	5975.651	mm
Discharge coefficient Cd=	0.6	
Q= Cd*A*√2*G*h	4000000	
$A=\pi/4*D^2=\sqrt{(Q/Cd^*\sqrt{2*G*h})}$	1115.639	mm2
DIAMETER(D)	37.70998	mm
ORIFICE SIZE=	38	mm



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					PE(Victoia)No.0007689, PDP0000072,
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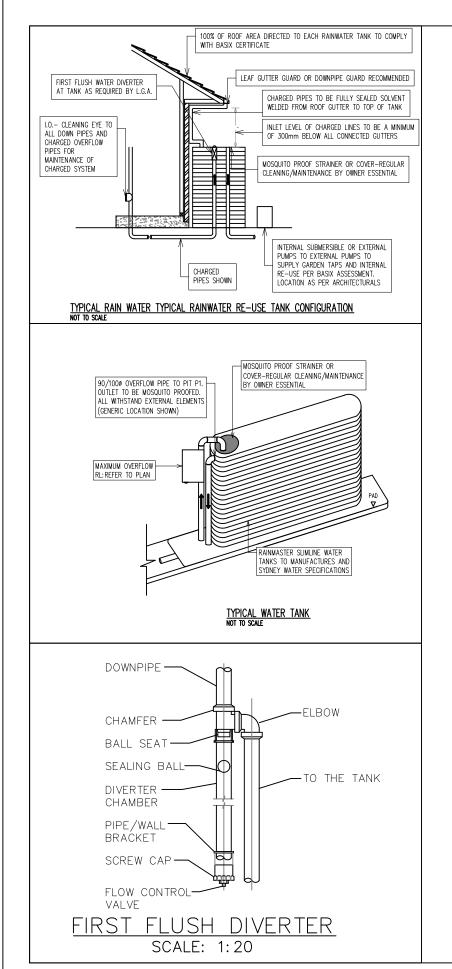
	beaches council
on Sys	tems

Table 7 Requirements for Size and Allowable Discharge from On-Site Detention

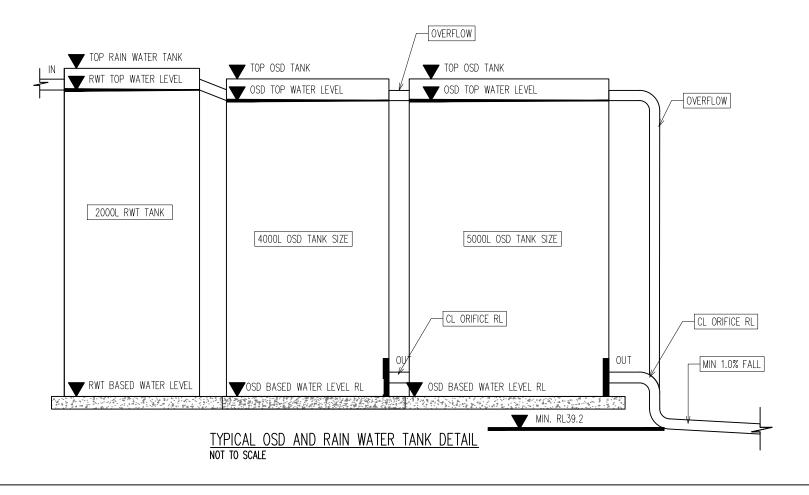
Additional Hard (Impervious) Surface Area (square metres)	Minimum Capacity of On-Site Detention Tank (Litres)	Discharge Rate Litres/Sec
0 -50	Nil	Nil
>50 - 75	4,500	2
>75 - 100	6,000	3
>100 - 150	9,000	4
>150 - 200	12,000	6
>200 - 250	15,000	7
>250 - 300	18,000	9
>300 - 400	24,000	12
>400 - 500	30,000	15
>500 - 600	36,000	18
>600 - 700	42,000	21
>700 - 800	48,000	24
>800 - 900	54,000	27
>900 - 1,000	60,000	30
>1,000*	A minimum storage capacity of 60 liters per m ² of additional hard/impervious surface area, and a discharge rate which replicates the discharge from the site were it to be undeveloped.	

LEVEL SPREADER CALCULATION :		
1.PEAK FLOW		
RAINFALL INTENSITY (For 50 years 5min Storm) (I)=	233	mm/hr
Discharge coefficient (Cd)=	1	(ROOF)
ROOF AREA (A):	116	m2
Q = C I A =	7.51	∐s
2. LENGTH OF LEVEL SPREADER		
DOWN SLOPE GROUND COVER	HICKET (SHRUBS, GRAS	S)
VELOCITY AT LEVEL SPREADER =	0.405	m/s
"EQUIVALENT" WATER HEIGHT OVER LEVEL SPREADER, X=	0.0176	m
V	GRASS & THICKET	
L=Q/(XxV)=	0.32	m
USED LENGTH =	1.00	m
3.NUMBER OF LEVEL SPREADERS(N/S)		
GROUND COVER WITH SLOPE FROM LEVEL SPREADER TO T	OP OF STREAM BANK	GRASS WITH >25% SLOPE
EFFECTIVE DISTANCE Ed(m) =	5	m
RIPARIAN BUFFER WIDTH(W)	3	m
N/S=W/Ed	0.6	
USED	1	

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PROJECT NO. :	STW320-2024
DRAWING TITLE :	STORMWATER DETAILS AND NOTES
DRAWING NO. :	STW003
ISSUE DATE :	14-JAN-2024



INTEGRATED TANK		INTEGRATED TANK		INTEGRATED TANK		
	INSERT		INSERT		INSERT	
Width	620	Width	935	Width	1040	
Length	2000	Length	2945	Length	3520	
Height	2170	Height	2020	Height	2020	
RWT volume	2	RWT volume	0	RWT volume	0	
OSD Volume	0	OSD Volume	4	OSD Volume	5	
	J	Height of RWT		Height of RWT		
Height of RWT		Height of OSD		Height of OSD		
Height of OSD						
		TOP TANK LEVEL	41.42	TOP TANK LEVEL	41.42	
TOP TANK LEVEL	41.57	OSD TWL	41.22	OSD TWL	41.22	
RWT TWL	41.37	RWT TWL/ CL ORIFICE	39.45	RWT TWL/ CL ORIFICE	39.45	
RWT base water level	39.4	RWT base water level	39.4	RWT base water level	39.4	
MIN RL	39.2	MIN RL		MIN RL	39.2	
2000L RWT TANK LE	<u>EVELS</u>	4000L OSD TANK LEVELS		5000L OSD TANK LEVELS		



SIZE: A3 2	0	10	20	30	40	50	60	70	80	90	100	110	120
	Ь											_	

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T 02 873 08473
M 04 208 98999
E info@modularengineers.com.au
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