

RAINWATER TANKS NOTES:

CAPACITY: RAINWATER TANKS HAVE A CAPACITY AS MARKED IN THE PLAN.

RAINWATER CONNECTION: TANKS WATER WILL BE PLUMBED TO ALL OUTDOOR WATERING, TOILETS AND LAUNDRY AS PER BASIX REQUIREMENTS.

FIRST FLUSH: 'FIRST FLUSH' DEVICE WILL BE FITTED TO REMOVE SURFACE CONTAMINATION.

NON DRINKING: TANKS WATER WILL NOT BE CONNECTED TO DRINKING OR BATHING WATER OUTLETS.

FULLY ENCLOSED: TANKS WILL BE FULLY ENCLOSED AND SEALED TO PREVENT ACCESS BY MOSQUITOES.

NON REFLECTIVE FINISH: TANKS SURFACES WILL HAVE NON REFLECTIVE FINISH.

WARNING LABELS: A LABEL WILL BE AFFIXED TO THE TANKS WARNING THAT WATER IS NOT TO BE CONSUMED AND RAINWATER SIGNAGE WILL BE PLACED ABOVE ALL TANKS WATER OUTLETS.

ROOFING MATERIALS: THE ROOF SURFACE FROM WHICH RAINWATER IS BEING DRAWN WILL NOT BE LEAD, TAR, ASBESTOS OR PAINTS BASE. TANKS WILL BE BUILT ON A SELF SUPPORTING BASE (APPLY TO ABOVE GROUND TANKS ONLY).

WATER PRESSURE: TANKS WILL BE FITTED WITH SMALL MOTORISED PUMPS TO PROVIDE ACCEPTABLE WATERPRESSURE.

PUMP NOISE: PUMP WILL BE DESIGNED AND LOCATED IN ORDER TO CAUSE A NOISE DISTURBANCE TO NEIGHBOURS (GENERALLY NOT 5m RADIUS FROM TANKS).

INSTALLATION: WILL BE INSTALLED IN KENSENED PLUMBER IN ACCORDANCE WITH SYDNEY WATER REQUIREMENTS AND THE NEW CODE OF PRACTICE: PLUMBING AND DRAINAGE.

BACKFLOW PREVENTION: BACKFLOW PREVENTION DEVICE WILL BE PROVIDED AT THE MAINS WATER METER.

DRAIN SUPPLY: A TRIPPLE TOP-UP SYSTEM WILL BE PROVIDED AT THE MAINS WATER.

BACK UP SUPPLY: A BACK UP SUPPLY OF MAINS WATER WILL BE PROVIDED IN EVENT OF FAILURE OR MAINTENANCE.

ANAEROBIC ZONE: WATER WILL BE DRAWN FROM ABOVE THE ANAEROBIC ZONE OF TANKS.

TANKS CONSTRUCTION: TANKS WILL BE STRUCTURALLY SOUND AND CONSTRUCTED IN ACCORDANCE WITH AS/NZ3500.1.2-1998 NATIONAL PLUMBING AND DRAINAGE-WATER SUPPLY-ACCEPTABLE SOLUTIONS.

AIR GAP: TANKS WILL BE PROVIDED WITH AN AIR GAP IN ACCORDANCE WITH AS/NZ 3500.1.2 & AS2845.2 ON GOING MAINTENANCE.

TANKS WILL BE WELL KEPT AND MAINTAINED BY THE OWNER.

NOT FOR CONSTRUCTION

OSD CALCULATIONS (FORMER MANLY COUNCIL AREA)

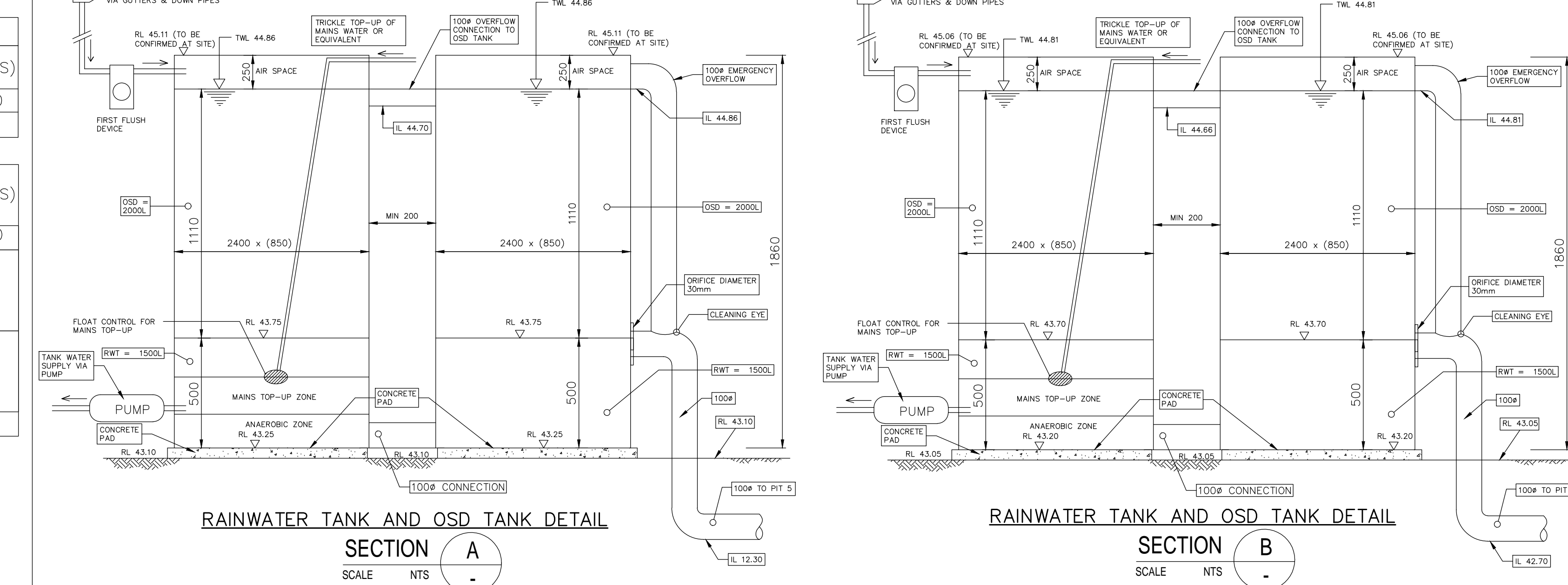
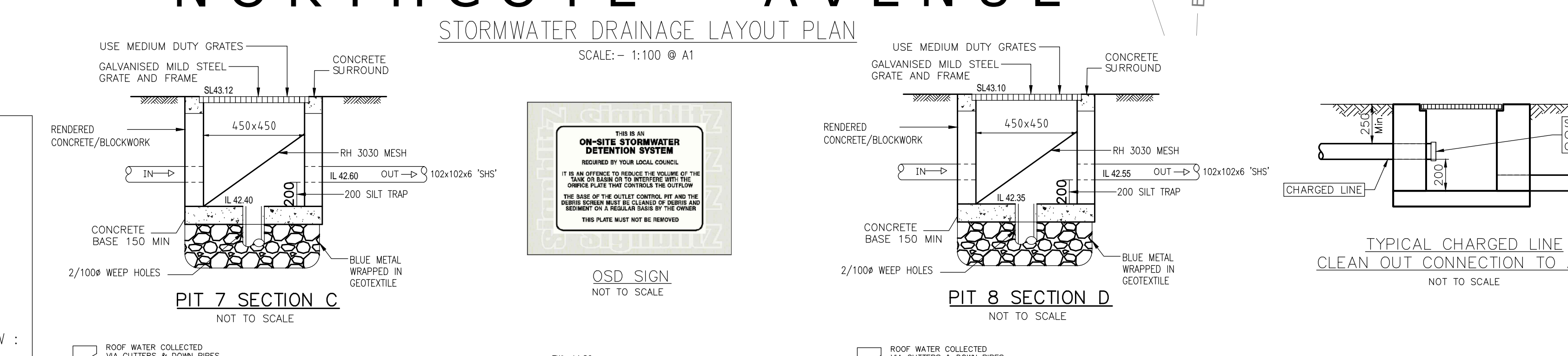
THE DRAINS MODEL HAS BEEN USED TO CALCULATE THE SITE STORAGE AND DISCHARGE REQUIREMENTS.

- SITE AREA = 510m²
- PRE DEVELOPMENT IMPERVIOUS AREA = 76%
- THE ABOVE GROUND RAINWATER TANKS HAVE BEEN USED AS OSD FOR THIS DEVELOPMENT
- THE FLOW RATES (L/S) FROM THE PRE DEVELOPMENT AND POST DEVELOPMENT STAGES ARE GIVEN IN THE TABLE BELOW :

SYSTEM 1		SYSTEM 2	
PRE-DEVELOPMENT STAGE	ARI (YEARS)	PRE-DEVELOPMENT STAGE	ARI (YEARS)
	5 100		5 100
TOTAL	7.5 14	TOTAL	7.5 14

POST-DEVELOPMENT STAGE		POST-DEVELOPMENT STAGE	
POST-DEVELOPMENT STAGE	ARI (YEARS)	POST-DEVELOPMENT STAGE	ARI (YEARS)
	5 100		5 100
(1) BY PASS (AREA = 117m ²) (18% IMPERVIOUS AREA)	3 6	(1) BY PASS (AREA = 117m ²) (18% IMPERVIOUS AREA)	3 6
(2) OSD (AREA = 138m ²) (100% IMPERVIOUS AREA)	1 2	(2) OSD (AREA = 138m ²) (100% IMPERVIOUS AREA)	1 2
TOTAL DISCHARGE	4 8	TOTAL DISCHARGE	4 8

- FROM THE CALCULATION THE REQUIRED OSD VOLUME IS 9m³ (TOTAL FOR BOTH HOUSE)
- THE ORIFICE DIAMETER IS 30mm
- RAIN WATER TANK IS 3.0m³ (FOR EACH HOUSE)
- OSD PROVIDED IS 8.0m³ (TOTAL FOR BOTH HOUSE)
- RAINWATER TANK PORTION IS NOT CONSIDERED FOR OSD CALCULATION



LEGEND

--- DRAINAGE LINE
--- AG. LINE
--- SILT FENCE
--- EXISTING LEVEL
--- SILT BARRIER AROUND PIT
--- CLEANING EYE (OR INSPECTION EYE)
--- SURFACE LEVEL SL 45.50
--- INVERT LEVEL IL 45.00
--- REMOVED TREE

--- SURFACE INLET PIT
--- JUNCTION PIT
--- DOWN PIPE
--- SPREADER PIPE
--- PLANTER GRATE
--- FLOOR GRATE
--- DROPPER
--- STEP IN THE RETAINING WALL
--- FLUSHING POINT

CAUTION:
ALL THE LEVELS AND DIMENSIONS ARE CRITICAL. PLEASE FOLLOW THE SW PLAN FOR CONSTRUCTION TO AVOID FINAL CERTIFICATION DELAY. IF YOU SEE SOMETHING NOT CORRECT OR NOT SUITED FOR SITE PLEASE CONTACT THE STORMWATER ENGINEER FOR CLARIFICATION AND FURTHER DIRECTIONS.

NOTE:
THE SURFACE INLET PITS SHALL BE HEAVY DUTY PLASTIC PITS IF IT IS LESS THAN 400mm DEEP.

NOTE:
PRIOR TO CONSTRUCTION THE BUILDER IS TO COORDINATE ALL THE PLANS (ARCHITECTURE PLAN, LANDSCAPE PLAN, STRUCTURAL ENGINEER'S PLAN AND THE STORMWATER PLAN) TO MAKE SURE ALL THE DESIGN LEVELS, DOWNPIPE LOCATIONS AND THE FLOOR LEVELS ARE SAME IN ALL THE PLANS.

NOTE:
THE PIT SURFACE LEVELS AND THE TOP OF RETAINING WALLS SHALL BE RE-CONFIRMED AT SITE

NOTE:
CLEAN OUT LINES FROM THE CHARGED LINES TO BE CONNECTED TO THE NEAREST PITS WITH ENDED CAP AT THE PIT END

NOTE:
PROVIDE FLOOR GRATES (1000) FOR THE FIRST FLOOR BALCONIES (DO NOT CONNECT TO THE RAINWATER TANK)