

### STORMWATER LAYOUT NOTES

-PITS UP TO 450 DEEP TO BE 350SQ U.N.O., PITS UP TO 600 DEEP TO BE 450 SQ U.N.O., PITS UP TO 900 DEEP TO BE 600 SQ U.N.O., PITS UP TO 1200 DEEP TO BE 900 x 600 U.N.O., PITS EXCEEDING 1200 DEEP TO BE 900 SQ. U.N.O. PITS TO BE PRECAST CONCRETE OR RENDERED BRICK WITH CONCRETE HEAVY DUTY GRATES. U.N.O. LIGHT DUTY PITS AND GRATES MAY BE USED ONLY IN LIGHT/FOOT TRAFFICABLE AREAS. U.N.O. ALL PITS TO BE BENCHED TO DISCHARGE PIPES U.N.O. GAL. STEP IRONS TO ALL PITS EXCEEDING 900 DEPTH. -COVER AND SUMP GRATES SHALL COMPLY WITH AS2733 & AS4198.

DOWNPIPES TO BE 90 DIA IF CHARGED AND 100 × 50 BOX IF GRAVITY. U.N.O. DP'S SHALL BE INSTALLED IN ACCORDANCE WITH AS3500.3.2:4.11 & AS4198. MAX. ROOF AREA PER DOWNPIPE WITH A NOMINATED GUTTER SIZE TO BE DETERMINED USING MANUFACTURERS SPECIEVATIONS WITH OVEREION BROWSIONS BY INSTALLERS

SPECIFICATIONS WITH OVERFLOW PROVISIONS BY INSTALLERS. —PIPES TO HAVE 1% MIN.GRADE U.N.O. BY PIT INVERTS. PIPES TO BE V.C. CLASS 'X' OR U.P.V.C. CLASS STORMWATER PIPE TO AS1254,1260,1273,1477,2179.2 AND WHERE EXPOSED TO DIRECT SUNLIGHT TO HAVE ADEQUATE PROTECTION TO U.V. RADIATION IN ACCORDANCE WITH AS2032. SEWER GRADE/GAL. PIPES AND KERB ADAPTORS TO BE USED WHERE COUNCIL POLICY OR CONSENT REQUIRE SUCH

POLICY OR CONSENT REQUIRE SUCH. -GUTTER OUTLETS SHALL BE FITTED VERTICALLY TO THE SOLE OF THE EAVE GUTTERS. RAINHEADS/BOX GUTTER SUMPS TO HAVE AN OVERFLOW DUCT OR WEIR IN ACCORDANCE WITH AS3500.

-PROVIDE OVERFLOW SPITTERS TO ALL COVERED BALCONIES/ TERRACES. NOT TO BE DIRECTED ON TO ROOF SURFACES

-RISING MAINS (PRESSURE PIPE) TO BE IN ACCORDANCE WITH AS3500.1:2. -SUBSOIL DRAINS TO BE IN ACCORDANCE WITH AS2439.1 CLASS 100 TO BE USED ONLY IN SINGLE DWELLINGS.

-ALL PIPE JOINTS, VALVES TO BE IN ACCORDANCE WITH AS3500.3.2:2.7 & AS3500.3.2 -EXPANSION JOINTS SHALL COMPLY WITH AS3500.3.2:TABLE 4.1 PVC JOINTS AND ACCESSORIES TO COMPLY WITH AS2179.2 & AS4198. -ALL TRENCHES TO BE IN ACCORDANCE WITH AS3500.3.2:7.2.8-14. EMBEDMENT MATERIAL AND TRENCH FILL TO ALL PIPES & SUBSOIL, DRAINS TO BE IN ACCORDANCE WITH AS3500.3.2:7, ALL WORKS TO BE IN ACCORDANCE WITH AS1254, 1741, 2032, 2733, 2865, 3996, 1260, 1477, 2179.1 & 2,2566, 6367, 8301, ARR97 & BCA. -IT IS THE BUILDER'S RESPONSIBILITY TO CONFIRM THAT LEVELS AND SURVEYS ARE IN ACCORDANCE WITH LEVELS ON SITE & ARE APPROVED BY COUNCIL & ARCHITECT BEFORE COMMENCING WORK.

UN SITE & ARE APPROVED BT CUONCL & ARCHITECT BEFORE COMMENCING WORK. -NO SEWER VENTS, GULLY PITS OR SIMILAR TO BE LOCATED BELOW THE MAXIMUM WATER SURFACE LEVEL IN DETENTION BASINS. ALL BASIN WALLS TO BE WATERTIGHT & STRUCTURALLY DESIGNED BY A STRUCTURAL ENGINEER. -ALL FENCES WHICH MAY DIVERT FLOW FROM PROPOSED DIRECTION TO BE RAISED 100mm. -BUILDER TO ENSURE ALL DRAINAGE AREAS INCLUDING EXPOSED BALCONIES TO HAVE OVERFLOW MECHANISM IN PLACE PER NCC WITH ADEQUATE OVERFLOW SECTION THROUGH PLANTERS. PARAPETS ETC. REFER TO ARCHT. FOR

PLACE PER NCC WITH ADEQUATE OVERFLOW SECTION THROUGH PLANTERS, PARAPETS ETC. REFER TO ARCHT. FOR BALCONY DRAINAGE DETAILS -ALL EXTERIOR FINISHED GROUND LEVELS TO BE SLOPING AWAY FROM PERIMETER WALLS IN ALL CASES.

-ALL EXTERIOR FINISHED GROUND LEVELS TO BE SLOPING AWAY FROM PERIMETER WALLS IN ALL CASES. -ALL HEADROOM CLEARANCES TO BE COORDINATED BETWEEN BUILDER & ARCHITECT. NOTIFY ENGINEER FOR APPROVAL IF ANY CHANGES OCCUR. -ALL GULLY POSITIONS ARE DIAGRAMMATIC ONLY- BUILDER SHOULD CONSULT ARCHITECTURALS FOR DIMENSIONS

-ALL GULLY POSITIONS ARE DIAGRAMMATIC ONLY- BUILDER SHOULD CONSULT ARCHITECTURALS FOR DIMENSIONS TO LOCATE STORMWATER ELEMENTS U.N.O.

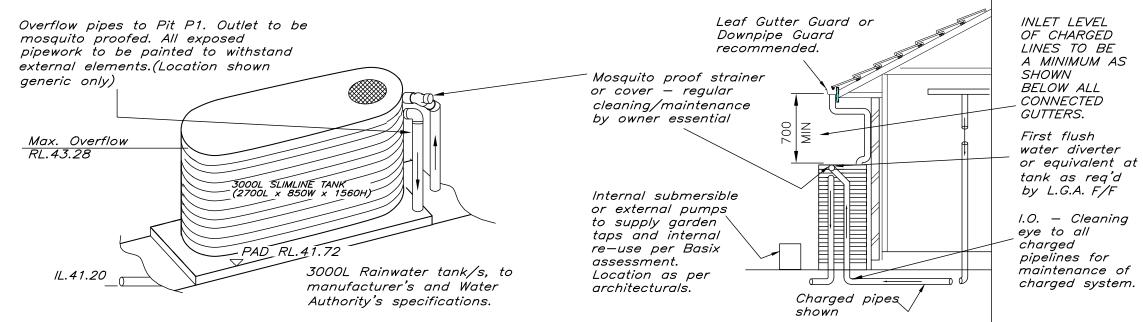
-FIRE RATING TO ARCHITECT'S SPECIFICATION. -ALL FINISHED FLOOR LEVELS ARE NOMINATED BY ARCHITECT.

-ALL FINISHED FLOOR LEVELS ARE NOMINATED BY ARCHITECT. -ALL SITE SAFETY MEASURES AND WORK METHOD STATEMENTS PREPARED BY BUILDER/SUB-CONTRACTORS ARE TO BE IMPLEMENTED DURING CONSTRUCTION. NO WORK IS TO COMMENCE UNTIL ALL WORKERS CARRY OUT SITE INDUCTION, PREPARED AND CARRIED OUT BY BUILDER. ANY HAZARD IDENTIFICATION TO BE REPORTED IMMEDIATELY ( TO SITE SUPERVISOR TO CARRY OUT NECESSARY PROCEDURES TO ELIMINATE HAZARD, PRIOR TO PROCEEDING WITH WORK. STRUCTURAL AND GEOTECHNICAL ADVICE SHOULD BE SOUGHT IN ALL CASES. ON MODIFIC SUPERVISOR TO CARRY ON THE ADVICE SHOULD BE SOUGHT IN ALL CASES.

-CONFINED SPACES SIGNAGE TO BE INSTALLED IN ACCESSIBLE UNDERGROUND TANKS TO WORK COVER SPECIFICATIONS. ALL PITS EXCEEDING 600mm DEPTH TO HAVE 'J' BOLTS OR SIMILAR INSTALLED TO GRATES. -MAINTENANCE DEVICES REQ'D BY AUTHORITIES ARE NOT TO BE ASSUMED SHOWN ON DRAWINGS. -EARTH MOUNDING SHOWN AS TEMPORARY MEASURE UNTIL LANDSCAPING COMPLETED TO DIRECT FLOWS AS SHOWN.



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RAINWATER TANK DETAILS. SIMILAR SCREENING				
ITTERS. 5 TO BE DETAILED BY				
CCORDANCE WITH AS3500 U.N.O.				
) FOLLOW THEIR APPROVED SWMS IN EEP TRENCHES AND WEARING APPROPRIATE KING INSIDE A TRENCH MUST BE				
RSON. MUST BE CHECKED BEFORE ANY				
SITE. ANY WORKS NEAR IDENTIFIED UT IN ACCORDANCE WITH THE TRADES SWMS. AND GUTTERING TO BE CARRIED OUT IN				
AND GOTTENING TO DE GANNED GOT IN				
HALF ROUND FLAT BACK GUTTER				
PROVIDE GUTTER				
GUARDS TO ALL GUTTERS GRATED DRAIN BY OWNER				
			LEGEND	
EFER TAG	TO NOTES FO	OR PIPE CLASS		NEW REDUCED LEVEL HED GROUND LEVEL)
B1	100	CHARGED	+ 00.00 S.L. 0.00 I.L. 0.00	EXISTING LEVEL SURFACE LEVEL INVERT LEVEL
B2	100	2%	T.O.W. G.F.L.0.00	TOP OF WALL LEVEL GARAGE FLOOR LEVEL
C1	150	1%	A,B,C etc.	FINISHED FLOOR LEVEL
D1	150x100 GAL. PIPE	1%	L1 PIT P1 PIT OP1	PIPE LABEL SURFACE INLET PIT OVERLAND FLOW PIT
			a a ODP	90mm. AG. LINE DOWNPIPE-SIZE
	OTHER SURF. BE STRICTLY		REFER TO	NOTES FOR DP SIZE GULLY PIT
ТО	A SEPARATE IER IN ACCOR	SYSTEM BY		GARDEN GULLY PIT OVERFLOW-200x100
AS	3500:.3:200. PART 3.1		RWH/S	RAIN WATER HEAD/SUMP DP WITH SPREADER
	WATER TANKS		⊕ BG ◎ CE	BALCONY GULLY PIT CLEANING EYE
	SUPPLY GARDI TERNAL RE-U	SE AS PER		GROUND FALL 100 HIGH EARTH
	BASIX ASSE	THIS DRAWING IS DIAGRAM		MOUNDING BE SCALED. IT IS NOT A PART 4A CERT.
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## RAINWATER TANK

TANK DETAILS SHOWN ARE A SUGGESTED CONFIGURATION ONLY. ANY MODIFICATIONS TO TANK VOLUME OR INLET AND OUTLET LEVELS MUST BE APPROVED BY ENGINEER PRIOR TO COMMENCEMENT OF CONSTRUCTION. TANK SHAPE, & DEVICES SHOWN ARE DIAGRAMMATIC ONLY. MINIMUM OF 450 CLEARANCE (UNLESS L.G.A. REQUIRES LARGER SETBACK) TO SIDE BOUNDARIES MUST BE MAINTAINED. CLIENT IS RESPONSIBLE TO ENSURE COMPLIANCE WITH THIS IN THE INSTALLED STATE. Charged stormwater lines from Roof Areas ONLY to rainwater tank.

All joints to be solvent welded. All exposed pipework to be painted to withstand external elements.

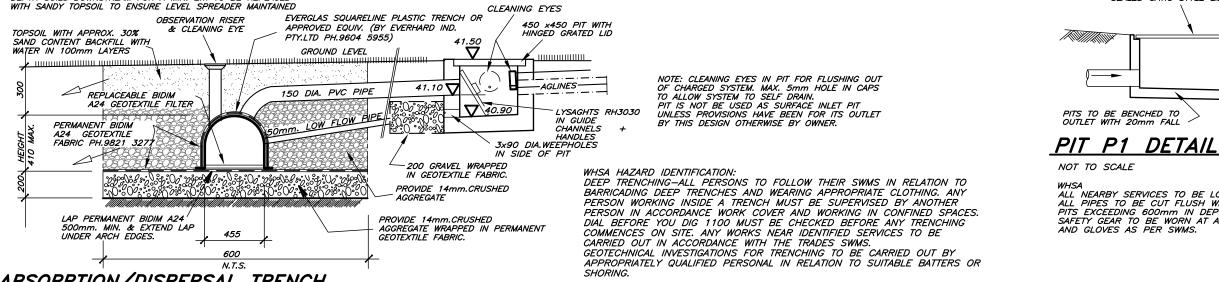
First flush water diverter at tank to comply with Water Authority and council DCP's. An approved switch system similar to 'Rainbank' to be used via mains. Pumps to manuf. specs. Rain Tank to be installed and maintainted to manufacturers specifications and to comply with all Water Authority Guidelines. Client to be responsible for maintenance system of charged pipelines. Debris accumulation significantly affects systems performance. Maintenance program essential.

Structural details for tank base by manufacturer or others.

#### WHSA HAZARD IDENTIFICATION:

INSTALLATION OF RAINTANKS: PLUMBER/SITE SUPERVISOR TO ASSESS ACCESS SUITABILITY PRIOR OR POST SLAB CONSTRUCTION. INSTALLATION OF TANKS TO BE CARRIED OUT FOLLOWING SWMS OF TANK SUPPLIER AND PLUMBER. APPROPRIATE GLOVES TO BE WORN AT ALL TIMES WHILE HANDLING TANKS.

# OWNER/LANDSCAPER RESPONSIBLE TO ENSURE TOP 300mm DEPTH SOILS DOWNSTREAM FOR A MIN. 2m TO BE REPLACED

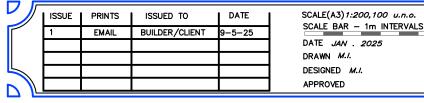


ABSORPTION/DISPERSAL TRENCH

TRENCHES TO BE LOCATED PARALLEL TO NATURAL CONTOURS OF SITE. SURFACE OF TRENCHES TO ACT OR LEVEL SPREADER OR LEVEL SPREADER TO BE CONSTRUCTED DOWNSTREAM OF TRENCHES. STRICTLY NO PAVING OR HARD SURFACES TO BE CONSTRUCTED OVER TRENCHES.

Geotech Engineers Recommendation for construction of the trench to incorporate roughening of the base and sides of the trench to reduce smearing that may be caused during excavation. Roughening could be achieved

by tyning the base of the trench and vertical grooving the sides. Trafficking of the base of the trench should be avoided during construction of the absorption trench. Trench design and construction should incorporate suitable geofabric lining to the base, sides and top of the trench.





## **IBRAHIM STORMWATER CONSULTANTS ISULTING CIVIL ENGINEERS** P.O. BOX 400 CHERRYBROOK NSW 2126 TELEPHONE: (02) 9980 5515 FAX: (02) 9980 6114 www.stormwater.net.au email: mail@stormwater.net.a

BUILDER/CLIENT TO ENSURE THAT ALL SAFETY MEASURES ARE TAKEN DURING CONSTRUCTION, INCLUDING BUT NOT LIMITED TO, SAFETY FENCING, SIGNAGE, OBTAINING STRUCTURAL AND GEOTECHNICAL ADVICE WHERE EXCAVATIONS ARE NEAR STRUCTURES OR SERVICES, SAFETY MEASURES RECOMMENDED BY PRODUCT SUPPLIERS ETC.

> PROJECT PROPOSED RESIDENCE AT 28 FAIRVIEW AVENUE ROSELANDS FOR MR. & MRS. MAKSOUR

