PROPOSED DEVELOPMENT

12-16 Stuart Street, Warrawong, NSW greenview Job No: 230473

GENERAL NOTES

- 1. ALL WORKS SHALL BE CARRIED OUT IN ACCORDANCE WITH THE NOMINATED OR APPLICABLE COUNCIL SPECIFICATION.
- 2 THE CONTRACTOR SHOULD REPORT ANY DISCREPANCIES ON THE DRAWINGS TO THE ENGINEER RESPONSIBLE FOR THE DESIGN. IT IS THE RESPONSIBILITY OF THE TENDERER TO SEEK
- CLARIFICATION WHERE DOCUMENTATION IS CONFLICTING OR UNCLEAR, WHERE NO CLARITY IS OBTAINED. THE TENDERER IS TO
- ALLOW FOR BOTH INTERPRETATIONS IN THEIR PRICING CONTRACTOR IS NOT TO ENTER UPON NOR DO ANY WORK WITHIN AD IACENT LANDS WITHOUT THE PERMISSION OF THE OWNER
- SURPLUS EXCAVATED MATERIAL SHALL BE PLACED WHERE DIRECTED OR REMOVED FROM SITE.
- 6. ALL NEW WORKS SHALL MAKE A SMOOTH JUNCTION WITH FXISTING
- ALL DRAINAGE LINES THOUGH ADJACENT LOTS SHALL BE CONTAINED WITHIN EASEMENTS CONFORMING TO COUNCIL'S **STANDARDS**
- 3. PRIOR TO COMMENCEMENT OF WORK, THE CONTRACTOR SHALL PROVIDE A TRAFFIC MANAGEMENT PLAN PREPARED BY AN ACCREDITED PERSON IN ACCORDANCE WITH RMS REQUIREMENTS, FOR ANY WORK ON OR ADJACENT TO PUBLIC
- ROADS, PLAN TO BE SUBMITTED TO COUNCIL & RMS AS REQUIRED. THESE PLANS SHALL BE A READ IN CONJUNCTION WITH OTHER RELEVANT CONSULTANTS' PLANS, SPECIFICATIONS, CONDITIONS OF DEVELOPMENT CONSENT AND CONSTRUCTION CERTIFICATE
- REQUIREMENTS 10. THE BUILDER/CONTRACTOR SHALL LOCATE ALL EXISTING PUBLIC UTILITY SERVICES WITHIN THE SITE, FOOTPATH AREA AND ROAD RESERVE PRIOR TO THE COMMENCEMENT OF ANY WORKS ALL LOCATIONS AND LEVELS OF SERVICES SHALL BE REPORTED TO THE STORMWATER ENGINEER PRIOR TO THE COMMENCEMENT OF ANY WORKS TO ENSURE THERE ARE NO OBSTRUCTIONS IN THE LINE OF THE DRAINAGE DISCHARGE PIPES.
- . THE BUILDER IS TO VERIFY ALL LEVELS ON SITE PRIOR TO COMMENCING CONSTRUCTION. 12. ALL THE CLEANING EYES (OR INSPECTION EYES) FOR THE
- UNDERGROUND PIPES HAVE TO BE TAKEN UP TO THE FINISHED GROUND LEVEL FOR EASY IDENTIFICATION AND MAINTENANCE PURPOSES
- 13. ALL TERRACE FLOOR AND PLANTER GRATES TO HAVE FIRE COLLARS FITTED EXCEPT FOR CLASS 1 BUILDINGS
- 14 ALL PITS HAVING AN INTERNAL DEPTH THAT EXCEEDS 1 0m SHALL BE PROVIDED WITH GALVANIZED STEP IRON'S AT 300 mm CENTRES PLACED IN A STAGGERED PATTERN AND SHALL BE IN ACCORDANCE WITH THE AUSTRALIAN STANDARDS AS4198-1994.
- 15. ALL MULCHING TO BE USED WITHIN THE AREA DESIGNATED AS ON SITE DETENTION STORAGE SHALL BE OF A NON-FLOATABLE MATERIAL SUCH AS DECORATIVE RIVER GRAVEL. BARK MULCHING SHALL NOT BE USED WITHIN THE DETENTION STORAGE AREA.
- 16. PRIOR TO COMMENCING ANY WORKS ON THE SITE. THE BUILDER SHALL ENSURE THAT THE INVERT LEVELS OF WHERE THE SITE STORMWATER SYSTEM CONNECTION INTO COUNCIL'S KERB/DRAINAGE SYSTEM MATCH THE DESIGN LEVELS. ANY DISCREPANCIES SHALL BE REPORTED TO THE DESIGN ENGINEER
- IMMEDIATELY. 17. GREENVIEW IS NOT RESPONSIBLE FOR THE ACCURACY OF ANY SURVEY INFORMATION PROVIDED ON THIS DRAWING. 18. ALL LEVELS SHOWN ARE EXPECTED TO BE TO A.H.D.
- 19. ALL CHAINAGES AND LEVELS ARE IN METERS, AND DIMENSIONS IN MILLIMETRES, UNLESS NOTED OTHERWISE.
- 20. THE SURVEY INFORMATION ON THIS DRAWING HAS BEEN PROVIDED BY THE ARCHITECT.
- 21. CONTRACTORS SHALL ARRANGE FOR THE WORKS TO BE SET OUT BY A REGISTERED SURVEYOR. 22. W.A.E DRAWINGS BY A REGISTERED SURVEYOR ARE REQUIRED
- PRIOR TO CERTIFICATION OF DRAINAGE 23. WHERE THESE PLANS ARE NOTED FOR DEVELOPMENT APPLICATION PURPOSES ONLY, THEY SHALL NOT BE USED FOR OBTAINING A CONSTRUCTION CERTIFICATE NOR USED FOR CONSTRUCTION PURPOSES WITHOUT WRITTEN APPROVAL
- 24. WATER TREATMENT DEVICES TO STRICTLY COMPLY WITH MANUFACTURING SPECIFICATIONS.

RAINWATER REUSE SYSTEM NOTES

- 1 RAINWATER SUPPLY PLUMBING TO BE CONNECTED TO OUTLETS WHERE REQUIRED BY BASIX CERTIFICATE (BY OTHERS)
- 2. NO DIRECT CONNECTION BETWEEN TOWN WATER SUPPLY AND THE RAINWATER SUPPLY
- 3. PROVIDE AN APPROVED STOP VALVE AND/OR PRESSURE LIMITING VALVE AT THE RAINWATER TANK
- 4. PROVIDE AT LEAST ONE EXTERNAL HOSE COCK ON THE TOWN WATER SUPPLY FOR FIRE FIGHTING
- 5. PROVIDE APPROPRIATE FLOAT VALVE AND/OR SOLENOID VALVES TO CONTROL TOWN WATER SUPPLY INLET TO TANK IN ORDER TO ACHIEVE THE TOP-UP INDICATED ON THE TYPICAL DETAIL. 3. ALL PLUMBING WORKS ARE TO BE CARRIED OUT BY LICENSED
- PLUMBERS IN ACCORDANCE WITH AS/NZ3500.1 NATIONAL PLUMBING AND DRAINAGE CODE.
- . PRESSURE PUMP ELECTRICAL CONNECTION TO BE CARRIED OUT BY A LICENSED ELECTRICIAN 8. ONLY ROOF RUN-OFF IS TO BE DIRECTED TO THE RAINWATER
- TANK SURFACE WATER INLETS ARE NOT TO BE CONNECTED. PIPE MATERIALS FOR RAINWATER SUPPLY PLUMPING ARE TO BE APPROVED MATERIALS TO AS/NZ3500 PART 1 SECTION 2 AND TO BE CLEARLY AND PERMANENTLY IDENTIFIED AS 'RAINWATER'. THIS MAY BE ACHIEVED FOR BELOW GROUND PIPES USING
- IDENTIFICATION TAPE (MADE IN ACCORDANCE WITH AS2648) OR FOR ABOVE GROUND PIPES BY USING ADHESIVE PIPE MARKERS (MADE IN ACCORDANCE WITH AS1345) 10. EVERY RAINWATER SUPPLY OUTLET POINT AND THE RAINWATER TANK ARE TO BE LABELLED 'RAINWATER' ON A METALLIC SIGN IN
- ACCORDANCE WITH AS1319 1. ALL INLETS AND OUTLETS TO THE RAINWATER TANK ARE TO HAVE SUITABLE MEASURES PROVIDED TO PREVENT MOSQUITO AND
- VERMIN ENTRY 12. ALL DOWNPIPES CHARGED TO THE RAINWATER TANK ARE TO BE SEALED UP TO GUTTER LEVEL AND BE PRESSURE TESTED AND CERTIFIED
- 13. TOWN WATER CONNECTION TO RAINWATER TANK TO BE TO THE SATISFACTION OF THE REGULATORY AUTHORITY. THIS MAY REQUIRE PROVISION OF
- 13.1. PERMANENT AIR GAP 13.2. BACKFLOW PREVENTION DEVICE

NSW

SAFETY IN DESIGN NOTES

THERE ARE INHERENT RISKS WITH CONSTRUCTING, MAINTAINING, OPERATING. DEMOLISHING. DISMANTLING AND DISPOSING. WE NOTE THIS DESIGN IS TYPICAL OF SIMILAR DESIGNS. AS FAR AS IS REASONABLY PRACTICABLE RISKS HAVE BEEN ELIMINATED OR MINIMISED THROUGH THE DESIGN PROCESS. HAZARD CONTROLS MUST STILL BE IMPLEMENTED BY THE CONTRACTOR. OWNER OR OPERATOR TO ENSURE THE SAFETY OF WORKERS. GREENVIEW ASSESSMENT DID NOT IDENTIFY ANY UNIQUE RISKS ASSOCIATED WITH THE DESIGN.

HOMES NSW

EARTHWORK NOTES

- 1. IT IS THE CONTRACTORS RESPONSIBILITY TO LOCATE AND LEVEL ALL EXISTING SERVICES PRIOR TO THE COMMENCEMENT OF ANY
- FARTHWORKS THE CONTRACTOR SHALL CLEAR THE SITE BY REMOVING ALL RUBBISH, FENCES AND DEBRIS ETC. TO THE EXTENT OF THE PROPOSED
- DEVELOPED AREA. PROVIDE PROTECTION BARRIERS TO PROTECTED/SENSITIVE AREAS PRIOR TO ANY BUI K EXCAVATION 4. OVER FULL AREA OF EARTHWORKS, CLEAR VEGETATION, RUBBISH, SLABS ETC. AND STRIP TOP SOIL. AVERAGE 200mm THICK. REMOVE
- FROM SITE, EXCEPT TOP SOIL FOR RE-USE. CUT AND FILL OVER THE SITE TO LEVELS REQUIRED. PRIOR TO ANY FILLING IN AREAS OF CUT OR IN EXISTING GROUND,
- PROOF ROLL THE EXPOSED SURFACE WITH A ROLLER OF MINIMUM WEIGHT OF 5 TONNES WITH A MINIMUM OF 10 PASSES. 7. EXCAVATE AND REMOVE ANY SOFT SPOTS ENCOUNTERED DURING
- PROOF ROLLING AND REPLACE WITH APPROVED FILL COMPACTED IN LAYERS. THE WHOLE OF THE EXPOSED SUBGRADE AND FILL SHALL BE COMPACTED TO 98% STANDARD MAXIMUM DRY DENSITY AT OPTIMUM MOISTURE CONTENT ± 2%. 8. FOR ON SITE FILLING AREAS, THE CONTRACTOR SHALL TAKE LEVELS
- OF EXISTING SURFACE AFTER STRIPPING TOPSOIL AND PRIOR TO COMMENCING FILL OPERATIONS. 9. WHERE HARD ROCK IS EXPOSED IN THE EXCAVATED SUB-GRADE, THIS WILL BE INSPECTED AND A DECISION MADE ON THE LEVEL TO WHICH
- EXCAVATION IS TAKEN 10 FILL IN 200mm MAXIMUM (LOOSE THICKNESS) LAYERS TO UNDERSIDE OF BASECOURSE USING THE EXCAVATED MATERIAL AND COMPACTED TO 98% STANDARD (AS 1289 5.1.1), MAXIMUM DRY DENSITY AT OPTIMUM MOISTURE CONTENT ± 2% SHOULD THERE BE INSUFFICIENT MATERIAL FROM SITE EXCAVATIONS, IMPORT AS NECESSARY CLEAN GRANULAR
- FILL TO APPROVAL 11. COMPACTION TESTING SHALL BE CARRIED OUT AT THE RATE OF 2 TESTS PER 1000SQ METRES PER LAYER BY A REGISTERED NATA LABORATORY. THE COSTS OF TESTING AND RE-TESTING ARE TO BE ALLOWED FOR BY THE BUILDER
- 12. BATTERS TO BE AS SHOWN, OR MAXIMUM 1 VERT : 4 HORIZ. 13. ALL CONDUITS AND MAINS SHALL BE LAID PRIOR TO LAYING FINAL
- PAVEMENT 14. ALL BATTERS AND FOOTPATHS ADJACENT TO ROADS SHALL BE TOP SOILED WITH 150mm APPROVED LOAM AND SEEDED UNLESS OTHERWISE SPECIFIED

DRAINAGE INSTALLATION

RCP CONVENTIONAL

INSTALLATIONS & ROAD CROSSINGS 1. SUPPLY & INSTALLATION OF DRAINAGE WORKS TO BE IN

- ACCORDANCE WITH THESE DRAWINGS. THE COUNCIL SPECIFICATION AND THE CURRENT APPLICABLE AUSTRALIAN STANDARDS 2. BACKFILL SHALL BE PLACED & COMPACTED IN ACCORDANCE WITH
- THE SPECIFICATION. A GRANULAR GRAVEL AGGREGATE MATERIAL (<10mm) BACKEILL IS RECOMMENDED FOR THE BEDDING HAUNCH SUPPORT AND SIDE ZONE DUE TO IT'S SELF COMPACTING ABILITY. 3. A MINIMUM OF 150mm CLEARANCE IS TO BE PROVIDED BETWEEN THE OUTSIDE OF THE PIPE BARREL AND THE TRENCH WALL FOR
- PIPES < 600 DIA. 200mm CLEARANCE FOR PIPES 600 TO 1200 DIA AND D/6 CLEARANCE FOR PIPES > 1200 DIA BEDDING OF THE PIPELINES IS TO BE TYPE 'HS2' IN ACCORDANCE WITH THE STANDARDS AND AS FOLLOWS:
- a.COMPACTED GRANULAR MATERIAL IS TO COMPLY WITH THE FOLLOWING GRADINGS:

19 2.3600 0.6000 0.3000 0.1500 0.0750 Μ % MASS PASSING 100 50-100 20-90 10-60 0-25 0-10

-AND THE MATERIAL PASSING THE 0.075 SIEVE HAVING LOW PLASTICITY AS DESCRIBED IN APPENDIX D OF AS1726.

b.BEDDING DEPTH UNDER THE PIPE TO BE 100mm.

c.BEDDING MATERIAL TO BE EXTENDED FROM THE TOP OF THE BEDDING ZONE UP TO 0.3 TIMES PIPE OUTSIDE DIAMETER. THIS **REPRESENTS THE 'HAUNCH ZONE.'**

d.THE BEDDING & HAUNCH ZONE MATERIAL IS TO BE COMPACTED TO A MINIMUM RELATIVE COMPACTION OF 98% WITHIN ROAD RESERVES AND TRAFFICABLE AREAS AND 95% ELSEWHERE FOR COHESIVE MATERIAL OR A MINIMUM DENSITY INDEX OF 70% IN ACCORDANCE WITH THE STANDARDS FOR COHESIONI ESS MATERIAL

e.COMPACTION TESTING SHALL BE CARRIED OUT BY AN APPROVED ORGANISATION WITH A NATA CERTIFIED LABORATORY FOR ALL DRAINAGE LINES LAID WHOLLY OR IN PART UNDER THE KERB & GUTTER OR PAVEMENT

ROOF DRAINAGE

LEVEL 15, 12 DARCY ST PARRAMATTA NSW 2150

PHONE No (02) 9354 1836

www.nsw.gov.au/homes-nsw

- 1. ALL ROOF DRAINAGE IS TO BE DESIGNED AND INSTALLED IN ACCORDANCE WITH THE CURRENT APPLICABLE AUSTRALIAN STANDARDS INCLUDING AS3500.3, NCC AND COUNCIL'S SPECIFICATIONS. DOWNPIPES SHOWN ARE INDICATIVE ONLY. REFER ARCHITECTURALS FOR
- **FINAL LOCATIONS** ALL DOWNPIPES TO BE CONSTRUCTED OF ONE MATERIAL FOR AESTHETICS REASONS AND PAINTED TO PROTECT THEM AGAINST ULTRA-VIOLET LIGHT DAMAGE. UNLESS APPROVED OTHERWISE BY THE PROJECT ARCHITECT.
- 4. ALL DOWNPIPES TO HAVE LEAF GUARDS. ALL EAVES GUTTERS ARE TO BE DESIGNED TO THE 5% AEP (20YR) STORM EVENTS UNO
- 6. ALL EAVES GUTTER OVERFLOWS ARE TO BE IN ACCORDANCE WITH AS3500.3 7. ALL BOX GUTTERS ARE TO BE DESIGNED TO CATER TO THE 1% AEP (100YR)
- STORM EVENTS LINO 8. IN ACCORDANCE WITH AS3500.3 CLAUSE 3.7.6.G, BOX GUTTERS SHALL:
- a. BE STRAIGHT (WITHOUT CHANGE IN DIRECTION) HAVE A HORIZONTAL CONSTANT WIDTH BASE (SOLE) WITH VERTICAL SIDES IN A CROSS-SECTION. HAVE A CONSTANT LONGITUDINAL SLOPE BETWEEN 1:200 AND 1:40. d. DISCHARGE AT THE DOWNSTREAM END WITHOUT CHANGE OF DIRECTION
- (I.E. NOT TO THE SIDE): AND e. BE SEALED TO THE RAINHEADS AND SUMPS 9. GREENVIEW RECOMMENDS THAT THE BUILDER VERIFIES THAT ANY AND ALL BOX GUTTERS HAVE BEEN DESIGNED BY A QUALIFIED CIVIL ENGINEER PRIOR
- TO THE COMMENCEMENT OF WORKS 10. GREENVIEW RECOMMENDS A SPECIFIC INSPECTION AND CERTIFICATION BY A OUALIFIED CIVIL ENGINEER OF ANY AND ALL BOX GUTTERS INSTALLED ON THE PROJECT PRIOR TO OCCUPATION CERTIFICATE
- 11. ALL DOWNPIPES ARE TO BE PIPE CONNECTED INTO THE FORMAL RAINWATER OR STORMWATER LINE UNLESS SPECIFICALLY NOTED ON THE DRAWINGS OTHERWISE

greenview

STORMWATER DRAINAGE NOTES

1. STORMWATER DRAINAGE SHALL BE GENERALLY IN ACCORDANCE WITH CURRENT AUSTRALIAN STANDARDS INCLUDING AS3500.3, NCC AND COUNCIL'S SPECIFICATION

7.5.2.1 WHICH PROVIDES GUIDANCE ACCORDING TO PIT DEPTH U.N.O. **TABLE 7.5.2.1** MINIMUM INTERNAL DIMENSIONS FOR STORMWATER AND INLET PITS

Depth to invert	Minimum internal dimensions mm					
of outlet	Recta	Circular				
	Width	Length	Diameter			
≤450	350	350				
≤600 >600 ≤900 >900 ≤1200	450 600 600	450 600 900	600 900 1000			
>1200	900	900	1000			

- 3. PIPES OF 225mm DIA. AND UNDER SHALL BE UPVC
- RUBBER RING JOINTED UNO. 5. ALL FRC OR RCP STORMWATER PIPES WITHIN ROAD RESERVE AREAS TO BE
- CLASS 3 U.N.O. BY COUNCILS SPECIFICATION. 6. PIPES SHALL GENERALLY BE LAID AT THE GRADES INDICATED ON THE DRAWINGS.
- . MINIMUM COVER TO PIPES 300mm DIA. AND OVER GENERALLY SHALL BE 600mm IN CARPARK & ROADWAY AREAS UNO.
- 3. ALL PIPES LOCATED IN LANDSCAPE AREAS TO HAVE 300mm COVER. WHERE NOT POSSIBLE AND COVER IS BETWEEN 150mm AND 300mm USE SEWER
- GRADE PIPE. 9. PIPES 225mm DIA AND OVER SHALL BE LAID AT 0.5% MIN. GRADE U.N.O. 10. PIPES UP TO 150mm DIA SHALL BE LAID AT 1.0% MIN. GRADE U.N.O
- 11. BACKFILL TRENCHES WITH APPROVED FILL COMPACTED IN 200mm LAYERS TO 98% OF STANDARD DENSITY
- 12. ANY PIPES OVER 16% GRADE SHALL HAVE CONCRETE BULKHEADS AT ALL JOINTS
- 13. THE MINIMUM SIZES OF THE STORMWATER DRAINAGE PIPES SHALL NOT BE LESS THAN 90mm DIA FOR CLASS 1 BUILDINGS AND 100mm DIA FOR OTHER
- 14. BUILD INTO UPSTREAM FACE OF ALL PITS A 3.0m SUBSOIL LINE FALLING TO PITS TO MATCH PIT INVERTS.
- 15. ALL LANDSCAPED PITS TO BE MIN 450 SQUARE U.N.O OR LARGER AS REQUIRED BY AS3500.3 TABLE 7.5.2.1
- PIT INSTALLED WITH A 150mm DIA. CONNECTION TO FORMAL DRAINAGE SYSTEM UN O
- BY AS3500.3 TABLE 7.5.2.1 18. ALL PLANTER BOXES AND BALCONIES TO BE CONNECTED TO THE PROPOSED
- STORMWATER DRAINAGE LINE. 19. ALL STORMWATER DRAINAGE WORK TO AVOID TREE ROOTS. WHERE NOT
- DUG. 20. GEOTEXTILE FABRIC TO BE PLACED UNDER RIP RAP SCOUR PROTECTION
- WHERE APPLICABLE 21. ALL BASES OF PITS TO BE BENCHED (TO HALF PIPE DEPTH) TO THE INVERT OF THE OUTLET PIPE AND PROVIDE GALVANISED ANGLE SURROUNDINGS TO
- GRATE 22. ANY VARIATION TO THAT WORKS AS SHOWN ON THE APPROVED DRAWINGS ARE TO BE CONFIRMED BY THE ENGINEER PRIOR TO THE COMMENCEMENT
- 23. ALL BALCONIES AND ROOFS TO BE DRAINED AND TO HAVE SAFETY OVERELOWS IN ACCORDANCE WITH RELEVANT AUSTRALIAN STANDARDS
- CHILDPROOF LOCKS.

A - EXTRA LIGHT DUTY FOOTWAYS AND AREAS A PEDESTRIANS AND PEDAL

TABLE AS PER AS3996 - 2006. ENGINEER TO BE NOTIFIED I

PRIOR TO BACKFILLING. 26. COUNCIL'S ISSUED FOOTWAY DESIGN LEVELS TO BE INCORPORATED INTO THE FINISHED LEVELS ONCE ISSUED BY COUNCIL.

OVERFLOW.

GALVANISED'

GRATE TYPE

3 - LIGHT DUTY

- MEDIUM DUTY

COVER TABLE

ANDSCAPE (SINGLE DWELLING)

JNDER TRAFFICABLE AREA

STAGE B ISSUE PRELIMINARY ISSUE

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- HEAVY DUTY

LOCATION

LANDSCAPE

CONCRETE

ROADS

LANDSCAPE CONSULTANT

MINIMUM PIT DIMENSIONS ARE TO BE IN ACCORDANCE WITH AS3500.3 TABLE

PIPES OF 300mm DIA. AND LARGER SHALL BE FRC OR CONCRETE CLASS 2

CLASSES OF BUILDING OR AS REQUIRED BY THE REGULATORY AUTHORITY.

16. GREENVIEW RECOMMENDS ALL COURTYARDS TO HAVE 450 SQUARE PLASTIC

17. ALL DRIVEWAY PITS TO BE MIN 600 SQUARE U.N.O OR LARGER AS REQUIRED

POSSIBLE, ALL EXCAVATIONS IN VICINITY OF TREE ROOTS ARE TO BE HAND

24. GREENVIEW RECOMMENDS ALL ACCESSIBLE GRATES TO BE FITTED WITH

25. ALL WORK WITHIN COUNCIL RESERVE AREAS TO BE INSPECTED BY COUNCIL

27. WATER PROOF ALL CONCRETE BALCONIES & ROOFS TO ARCHITECTS DETAILS 28. ALL BALCONIES TO HAVE FLOOR WASTE AND 1% FALL WITH SAFETY 29. ALL SUBSOIL DRAINAGE SHALL BE A MINIMUM OF Ø65mm AND SHALL BE

PROVIDED WITH A FILTER SOCK. THE SUBSOIL DRAINAGE SHALL BE INSTALLED IN ACCORDANCE WITH DETAILS TO BE PROVIDED BY THE 30. SUBSOIL DRAINAGE PIPES AND FITTINGS SHALL BE PERFORATED PLASTIC TO

CURRENT AUSTRALIAN STANDARDS, LAY PIPES ON FLOOR OF TRENCH GRADED AT 1% MIN. AND OVERLAY WITH FILTER MATERIAL EXTENDING TO WITHIN 200mm OF SURFACE, PROVIDE FILTER FABRIC OF PERMEABLE POLYPROPYLENE BETWEEN FILTER MATERIAL AND TOPSOIL. PROVIDE FLUSHING EYE'S AT HIGH POINTS OR TO COUNCILS REQUIREMENTS.

31. ALL GRATES IN AREAS OF FREQUENT PEDESTRIAN TRAFFIC (IE FOOTPATHS, WALKWAYS, ETC.) TO BE HEELPROOF GRATE 32. REFER ARCHITECTS DETAIL FOR GRATE FINISH (IE STAINLESS STEEL OR

33. GRATES TO BE IN ACCORDANCE WITH TABLE BELOW:

PIT GRATE INLINE TYPE

	TRAFFIC CONDITIONS
Y	FOOTWAYS AND AREAS ACCESSIBLE ONLY TO PEDESTRIANS AND PEDAL CYCLISTS.
	FOOTWAYS THAT CAN BE MOUNTED BY VEHICLES.
	MALLS AND PEDESTRIAN AREAS OPEN TO SLOW MOVING COMMERCIAL VEHICLES.
	CARRIGEWAYS OF ROADS AND AREAS OPEN TO COMMERCIAL VEHICHLES.
. E	NGINEER TO BE NOTIFIED IF LOAD CONDITIONS LISTED

32. COVER TO PIPE TO BE AS PER TABLE BELOW:

DESCRIPTION

	PIPE TYPE	COVER
	PVC	300
i)	PVC	100
	PVC	100 BELOW UNDERSIDE OF PAVEMENT
	STEEL	NIL BELOW UNDERSIDE OF PAVEMENT
	RCP	500 BELOW UNDERSIDE OF PAVEMENT

STORMWATER DRAINAGE NOTES CONTINUED 33. GREENVIEW'S STORMWATER SYSTEM HAS BEEN DESIGNED TO CAPTURE

SURFACE RUNOFF FROM THE SITE ITSELF BUT DOES NOT INCORPORATE SPECIFIC GROUNDWATER CAPTURE MECHANISMS. IN SOME CASES, GROUNDWATER INUNDATION MAY BE A SIGNIFICANT SOURCE OF WATER DURING A STORM EVENT. GREENVIEW RECOMMENDS THAT ALL RETAINING WALLS CLOSE TO HABITABLE AREAS BE FITTED WITH AN IMPERMEABLE

MEMBRANE AND SUBSOIL DRAINAGE TO PREVENT GROUNDWATER INGRESS 34. GREENVIEW RECOMMENDS ALL IN-GROUND STORMWATER PIPE RUNS ARE SET OUT BY THE BUILDER PRIOR TO COMMENCEMENT OF WORKS. WHERE 300MM COVER IS NOT ACHIEVED. NOTIFY ENGINEER. 35. WHERE STORMWATER DRAINAGE WORKS ARE TO BE UNDERTAKEN PRIOR

TO THE CONSTRUCTION OF THE BUILDING, THE BUILDER IS TO SET OUT THE FLOOR LEVELS AND ENSURE PROPOSED STORMWATER DRAINAGE LEVELS AND BUILDING LEVELS ARE COMPATIBLE. NOTIFY ENGINEER IMMEDIATELY IF ANY DISCREPANCIES.

ON-SITE DETENTION

- 1. ON-SITE DETENTION (OSD) TANKS ARE TO BE DESIGNED AND INSTALLED IN ACCORDANCE WITH THE CURRENT APPLICABLE AUSTRALIAN STANDARDS
- INCLUDING AS3500.3 NCC AND COUNCILS' SPECIFICATIONS 2. IT IS CRITICAL THAT THE MINIMUM OSD VOLUME AS CALCULATED BY THE DESIGN AND NOTED ON THESE PLANS IS ACHIEVED ON SITE. VOLUMES TO BE VERIFIED BE REGISTERED SURVEYOR AND NOTED IN THE WAE SURVEY
- PRIOR TO CERTIFICATION. 3. OSD VOLUME MAY BE ACHIEVED IN BELOW GROUND TANK, OR ABOVE GROUND PONDING, OR RAINWATER TANK OFFSET, OR INFILTRATION/ABSORPTION SYSTEM. EACH COUNCIL HAS SPECIFIC GUIDELINES FOR HOW STORMWATER FLOWS ARE TO BE CONTROLLED AND
- DISCHARGED PONDING AND OVERFLOW LEVELS FROM THE OSD SHALL BE NOT LESS THAN 300mm BELOW ADJACENT HABITABLE FLOOR LEVELS OF BUILDINGS AND NOT LESS THAN 150mm BELOW NON-HABITABLE FLOOR LEVELS (AS3500.1 CLAUSE 7 10 1)

BELOW GROUND OSD TANKS

- . THE HYDRAULIC CONTROL FOR THE STORAGE (USUALLY ORIFICE PLATE) SHALL BE FIRMLY FIXED IN PLACE TO PREVENT REMOVAL OR TAMPERING. A PLATE OF 3mm TO 5mm THICK STAINLESS STEEL WITH A CIRCULAR HOLE SHALL BE USED, PROVIDED: a. IT IS MACHINED TO 0.5mm ACCURACY
- b. IT RETAINS A SHARP EDGE; AND c. THE ORIFICE DIAMETER IS NOT LESS THAN 25mm (AS 3500.3 CLAUSE 7.10.2 INSPECTION / ACCESS OPENINGS SHALL BE PROVIDED ABOVE THE LOCATION OF THE OUTLET WITH DIMENSIONS AT LEAST 600mm x 600mm OR 600mm DIAMETER FOR STORAGES UP TO 800mm DEEP AND 600mm x 900mm FOR DEEPER STORAGES. THERE SHALL BE NO IMPEDIMENTS TO THE REMOVAL OF DEBRIS THROUGH THIS OPENING. INSPECTION SHALL BE POSSIBLE WITHOUT RESIDENTS OR OWNERS HAVING TO REMOVE HEAVY ACCESS COVERS (AS3500.3 CLAUSE 7.10.2.b.ii)
- WHERE STORAGES ARE NOT DEEP ENOUGH TO WORK IN (<1.5m DEEP), ACCESS SHALL BE PROVIDED AT INTERVALS OF APPROXIMATELY 10m TO ALLOW THE SYSTEM TO BE FLUSHED TO THE STORAGE OUTLET> ACCESS SHALL BE PROVIDED AT THE OUTLET (AS3500.3 CLAUSE 7.10.2.b.iii) A SUMP SHALL BE PROVIDED AT THE OUTLET POINT, SET BELOW THE LEVEL
- OF THE MAIN STORAGE TO COLLECT DEBRIS. WHERE A DISCHARGE CONTROL PIT IS INCLUDED IN THE STORAGE< THIS SHALL CONTAIN A SUMP SET A MINIMUM OF 1.5 TIMES THE DIAMETER OF THE ORIFICE OF THE OUTLET. BELOW THE CENTRE OF THE ORIFICE, SUMPS SHALL BE PROVIDED WITH WEEP HOLES TO DRAIN OUT TO THE SURROUNDING SOIL, AND SHALL BE FOUNDED ON A COMPACTED GRANULAR BASE WHERE THE DEPTH OF THE TANK EXCEEDS 1.2m, A LADDER IN ACCORDANCE
- WITH AS3500.3 CLAUSE 7.5.5.4 SHALL BE INSTALLED BELOW GROUND OSD SYSTEMS SHALL CONFORM WITH AS2865. IN ACCORDANCE WITH AS3500.3 CLAUSE 7.10.2.D SCREENS (TRASH RACKS)
- WITH THE FOLLOWING CHARACTERISTICS SHOULD BE PROVIDED TO COVER EACH ORIFICE OUTLET a. FOR ORIFICES UP TO 150mm DIA., A FINE APERTURE-EXPANDED METAL MESH SCREEN WITH A MINIMUM AREA OF 50 TIMES THE AREA OF THE ORIFICE. FOR LARGER DIA. ORIFICES, A COARSER GRID MESH WITH A MINIMUM AREA OF 20 TIMES THE ORIFICE AREA MAY BE USED AS AN
- ALTERNATIVE b. STEEL SCREENS SHOULD BE STAINLESS STEEL OR HOT-DIP GALVANIZED WHERE APERTURE-EXPANDED MESH SCREENS ARE EMPLOYED, THEY SHOULD BE POSITIONED SO THAT THE OVAL-SHAPED HOLES ARE HORIZONTAL, WITH THE PROTRUDING LIP ANGLED UPWARDS AND FACING DOWNSTREAM, A HANDLE MAY BE FITTED TO ENSURE CORRECT ORIENTATION AND EASY REMOVAL FOR MAINTENANCE. d. SCREENS SHOULD BE PLACED NO FLATTER THAN 45 DEGREES TO THE
- HORIZONTAL IN SHALLOW STORAGES UP TO 600mm DEEP. IN DEEPER OR MORE REMOTE LOCATIONS, THE MINIMUM ANGLE SHOULD BE 60 DEGREES TO THE HORIZONTAL
- 8. IF THE BELOW GROUND OSD STORAGE IS SEALED, A VENT SHOULD BE PROVIDED TO EXPEL ANY NOXIOUS GASES (AS3500.3 CLAUSE 7.10.2.D.B). THE STORAGE SHOULD BE DESIGNED TO FILL WITHOUT CAUSING OVERFLOWS IN UPSTREAM CONDUITS DUE TO BACKWATER EFFECTS (AS3500.3 CLAUSE 7.10.2.D.C). 10. BELOW GROUND STORAGES SHALL BE CONSTRUCTED OF CONCRETE.
- MASONRY, ALUMINIUM/ZINC AND ALUMINIUM/ZINC/MAGNESIUM ALLOY-COATED STEEL, ZINC-COATED STEEL, GALVANISED IRON OR PLASTICS (AS3500.3 7.10.3)

MAINTENANCE SCHEDULE: ON SITE DETENTION (OSD)

ALL OSD MAINTENANCE TASKS SHOULD BE UNDERTAKEN AFTER A SIGNIFICANT STORM EVENT

6	MONTHL)

ELEMENT	TASK	DESCRIPTION / ACTION		
ORIFICE PLATE	INSPECT FOR BLOCKAGE	CHECK PLATE FOR BLOCKAGE AND CLEAN		
TRASH SCREEN	CHECK / CLEAN	CHECK AND CLEAN TRASH SCREEN		
PIT SUMP	T SUMP CHECK FOR SEDIMENT SEDIMENT SLUDGE AND CLEAN-OU			
GRATED LIDS	CHECK FOR DAMAGE	CHECK FOR CORROSION OR OTHER DAMAGE AND REPAIR / REPLACE AS NEEDED		
	CLEAR BLOCKAGES	CHECK AND CLEAR BLOCKAGES		
STORAGE LIDS	CHECK	REMOVE DEBRIS / MULCH / LITTER / SEDIMENT		
OUTLET PIPES	CHECK FOR BLOCKAGES	CHECK / CLEAN / FLUSH OUTLET PIPES, REMOVE ANY BLOCKAGES		
STEP IRONS	CHECK FIXING	ENSURE STEP-IRON FIXINGS ARE SECURE AND REPAIR AS NEEDED		

ANNUALLY		
ELEMENT	TASK	DESCRIPTION / ACTION
ORIFICE PLATE	CHECK ATTACHMENT	ENSURE PLATE IS MOUNTED SECURELY, TIGHTEN AND SEAL GAPS AS REQUIRED
TRASH SCREEN	CHECK ATTACHMENT	ENSURE PLATE IS MOUNTED SECURELY, TIGHTEN AND SEAL GAPS AS REQUIRED
	CHECK CORROSION	CHECK TRASH SCREEN FOR CORROSION, ESPECIALLY AT CORNERS NEAR WELDS AND REPAIR / REPLACE AS NEEDED
STEP IRONS	CHECK FOR CORROSION	EXAMINE STEP IRONS AND REPAIR ANY DAMAGE
INTERNAL WALLS	CHECK	CHECK FOR CRACKS / SPALLIN AND REPAIR AS NEEDED
OSD SURROUNDS	CHECK FOR SUBSIDENCE	CHECK FOR SUBSIDENCE (WHICH MAY INDICATE LEAKS) AND REPAIR AS NEEDED

5-YEARI Y

5 12, 1121		
ELEMENT	TASK	DESCRIPTION / ACTION
ORIFICE PLATE	CHECK ORIFICE PLATE	CHECK ORIFICE SIZE AGAINST WAE AND CHECK FOR PITTING / SCARRING, REPLACE IF NECESSARY

COLOUR LEGEND

NEW (REFER TO SCHEDULES
FOR COLOUR DEFINITION)
EXISTING
REMOVED OR RELOCATED

REMOVED OR RELOCATEL

	GREENVIEW CIVIL SHEET LIST				
No.	SHEET NAME	REV.			
C01	NOTES & LEGENDS	6			
C02	GROUND FLOOR DRAINAGE PLAN	6			
C03	SITE STORMWATER DETAILS SHEET 1	4			
C04	SITE STORMWATER DETAILS SHEET 2	3			

ARCHITECT
PROJECT MANAGER
LAND & HOUSING CORPORATION
ELECTRICAL CONSULTANT

GREENVIEW CONSULTING Pty Ltd

STRUCTURAL CONSULTANT GREENVIEW CONSULTING Pty Ltd YDRAULIC CONSULTANT GREENVIEW CONSULTING Pty Ltd

ANDSCAPE CONSULTAN



PROPOSED DEVELOPMENT

12-16 Stuart Street, Warrawong, N





DP FFI GL K&G RCP

RKG

RWO

RWI

TOW

TWL

uPVC

RECOMMENDED SAFETY SIGNS

CONFINED SPACE NO ENTRY WITHOUT

CONFINED SPACE DANGER SIGN

1. A CONFINED SPACE DANGER SIGN SHALL BE POSITIONED IN A LOCATION AT ALL ACCESS POINTS, SUCH THAT IT IS CLEARLY VISIBLE TO PERSONS PROPOSING TO ENTER THE BELOW GROUND TANKS CONFINED SPACE.

- MINIMUM DIMENSIONS OF THE SIGN - 300mm x 450mm (LARGE ENTRIES, SUCH AS DOORS) 250mm x 180mm (SMALL ENTRIES SUCH AS GRATES & MANHOLES) 2. THE SIGN SHALL BE MANUFACTURED FROM COLOUR BONDED ALUMINUM OR POLYPROPYLENE 3. SIGN SHALL BE AFFIXED USING SCREWS AT EACH CORNER OF THE

EXISTING SERVICES

ANGER

WHEN EXCAVATING WITHIN ANY SITE DOTPATH AND ROADWAY, ALL SERVICE

SHALL BE LOCATED PRIOR TO COMMENCEMENT OF THE EXCAVATION ORKS. CONTACT "DIAL BEFORE YOU DI 00 OR GOT THE WEB SITE "www.1100.c

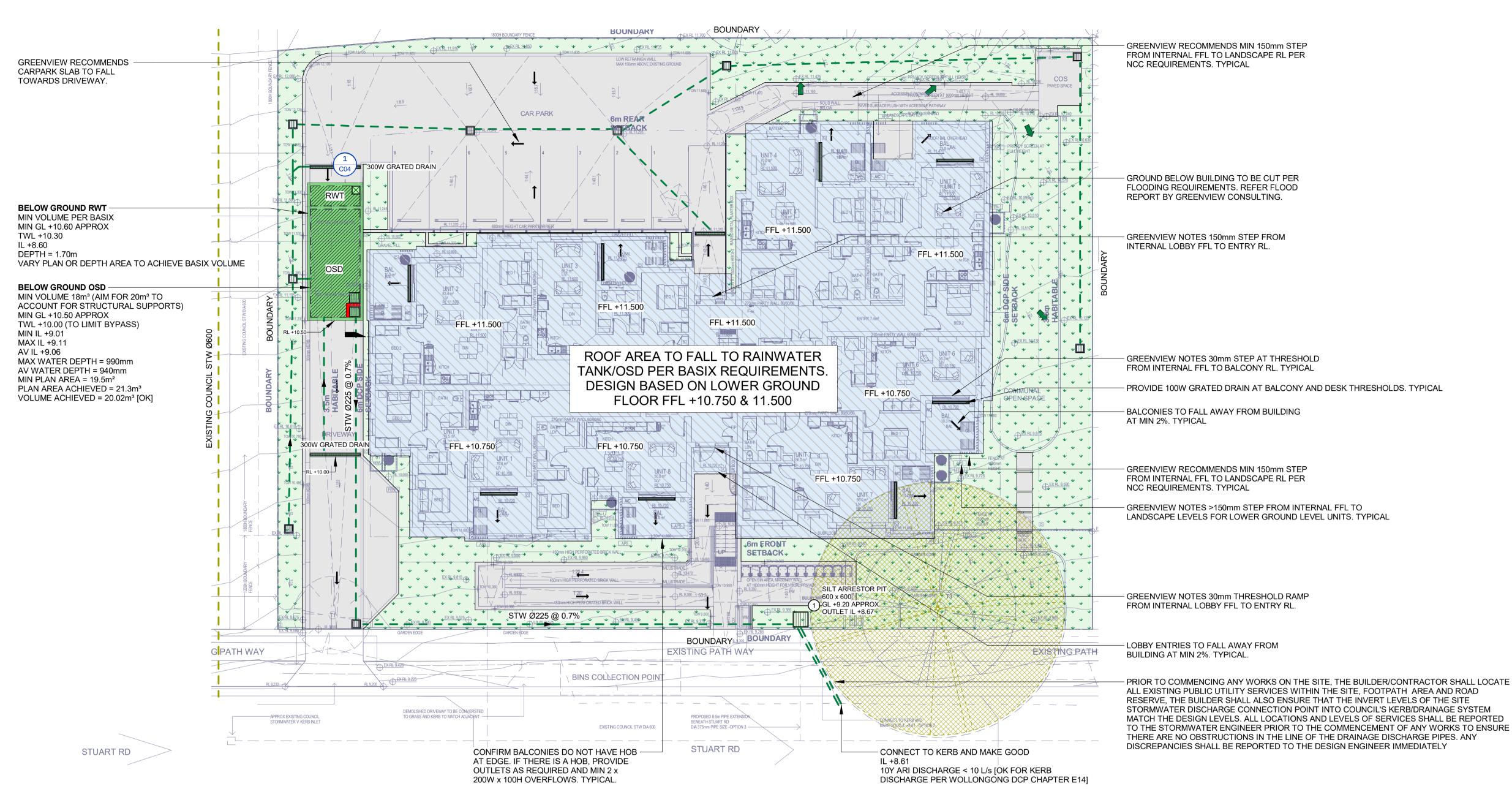
ABBREVIATIONS

DOWN PIPE PROPOSED FINISHED FLOOR LEVEL PROPOSED PIT SURFACE LEVE PROPOSED PIT INVERT LEVEL INSPECTION OPENING KERB & GUTTER FINISHED PAVEMENT LEVEL REINFORCED CONCRETE PIPE ROLL KERB & GUTTER FINISHED SURFACE LEVEL RAINWATER DRAINAGE OUTLET PROPOSED RAINWATER TANK TOP OF NEW KERB LEVEL TOP OF NEW RETAINING WALL LEVEL

TOP OF WATER LEVEL RIGID PVC PIPE

VERTICAL DROPPER

	TITLE:	STATUS:			
		PRELIMINARY			
	NOTES & LEGENDS	DATE: 21.05.2025	scale: 1 : 100	PRJ:	^{ЈОВ:} 230473
		STAGE: P			CHECKED: AMcK
SW		туре:	SHEET: C01		^{REV:} 6



GROUND FLOOR DRAINAGE PLAN Scale: 1:150

1. ALL NEW WORKS SHALL MAKE A SMOOTH JUNCTION WITH EXISTING.

2. THE BUILDER/CONTRACTOR SHALL LOCATE ALL EXISTING PUBLIC UTILITY SERVICES WITHIN THE SITE, FOOTPATH AREA AND ROAD RESERVE PRIOR TO THE COMMENCEMENT OF ANY WORKS. ALL LOCATIONS AND LEVELS OF SERVICES SHALL BE REPORTED TO THE STORMWATER ENGINEER PRIOR TO THE COMMENCEMENT OF ANY WORKS TO ENSURE THERE ARE NO OBSTRUCTIONS IN THE LINE OF THE DRAINAGE DISCHARGE PIPES.

3. PRIOR TO COMMENCING ANY WORKS ON THE SITE, THE BUILDER SHALL ENSURE THAT THE INVERT LEVELS OF WHERE THE SITE STORMWATER SYSTEM CONNECTION INTO COUNCIL'S KERB/DRAINAGE SYSTEM MATCH THE DESIGN LEVELS. ANY DISCREPANCIES SHALL BE REPORTED TO THE DESIGN ENGINEER IMMEDIATELY

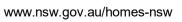
- 4. ALL STORMWATER DRAINAGE WORK TO AVOID TREE ROOTS. WHERE NOT POSSIBLE, ALL EXCAVATIONS IN VICINITY OF TREE ROOTS ARE TO BE HAND DUG. 5. ALL BASES OF PITS TO BE BENCHED (TO HALF PIPE DEPTH) TO THE INVERT OF THE OUTLET PIPE WITH ALL
- PIPES CUT FLUSH WITH SIDE OF PIT, TO ALLOW SMOOTH FLOW OF STORMWATER. 6. PROVIDE GALVANISED ANGLE SURROUNDINGS TO GRATE WHERE IN TRAFFICABLE AREAS.
- 7. PROVIDE 100mm GAP IN BASE OF FENCE FOR EMERGENCY OVERFLOWS.
- 8. PROVIDE SUBSOIL DRAINAGE AND OUTLETS TO ALL ON PODIUM PLANTER BOXES. OUTLET PIPES NOT SHOWN FOR CLARITY OF DOCUMENTATION. 9. ALL DOWNPIPES ARE TO BE PIPE CONNECTED INTO THE FORMAL RAINWATER OR STORMWATER LINE UNLESS
- SPECIFICALLY NOTED ON THE DRAWINGS OTHERWISE.

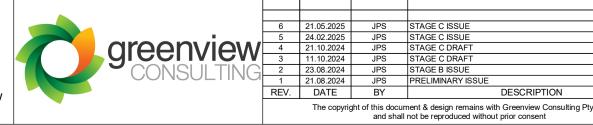
HOMES NSW

- 10. ALL PIPES TO BE 100mmØ @ 1% MINIMUM UNLESS NOTED OTHERWISE. 11. ALL BASES OF PITS TO BE BENCHED TO THE INVERT OF THE OUTLET PIPE WITH ALL PIPES CUT FLUSH WITH SIDE OF PIT, TO ALLOW SMOOTH FLOW OF STORMWATER.
- 12. PROVIDE GALVANISED ANGLE SURROUNDINGS TO GRATES IN TRAFFICABLE AREAS.



LEVEL 15, 12 DARCY ST





TO STORMWATER SYSTEM. PIPES NOT SHOWN FOR CLARITY. TYPICAL.

NOTE: SITE IS WITHIN THE 5% AND 1% AEP FLOOD ZONE. REFER FLOOD REPORT BY GREENVIEW CONSULTING.

NOTE: PROVIDE SUBSOIL DRAINAGE TO ALL RETAINING WALLS AND CONNECT

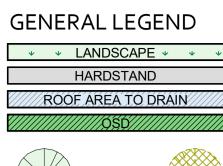
- DESIGN CRITERIA: REDUCE 100YR (1%AEP) POST-DEVELOPMENT BACK TO PRE-DEVELOPMENT FLOWRATES, NOTING WCC ALLOW DRAINS TO BE USED IN LIEU OF SSR/PSD METHOD WHERE BYPASS EXISTS
- SITE AREA = 2017 m² PRE-DEVELOPMENT IMPERVIOUS AREA: 26% IMP.
- POST- DEVELOPMENT AREAS:
- AREA BYPASSING OSD = 408 m² @ 20% IMP.
- POST- DEVELOPMENT AREA TO OSD: 1609 m² @ 80% IMP. LONGEST FLOW PATH = 60m @ 5% GRADE
- USE DRAINS RUNOFF-ROUTING MODEL TO ARR1987 METHODOLOGY (NOTE, ARR2019 NOT CURRENTLY SUPPORTED BY WCC) DRAINS PARAMETERS: IL = 0mm, CLR = 2.5 mm/hr, N* (HARD) = 0.015, N*(GRASS) = 0.170 SSR100 (1%AEP) = 18m³
- Q5 PRE / POST = 84 / 83 L/s

OSD CALCULATIONS

- Q100 PRE / POST = 130 / 121 L/s
- ORIFICE CONTROL = Ø230mm BASED ON 990mm MAX. PONDING.

STORMWATER NOTES: NO WSUD REQUIRED FOR SITE PER WOLLONGONG DCP CHAPTER E14 SECTION 4.1.b AS SITE HAS LESS THAN 20 DWELLINGS

	ARCHITECT	STRUCTURAL CONSULTANT GREENVIEW CONSULTING Pty Ltd	BUSINESS PARTNER:	PROPOSED		STATUS: DATE:	SCALE:	JOB:
	PROJECT MANAGER LAND & HOUSING CORPORATION	HYDRAULIC CONSULTANT GREENVIEW CONSULTING Pty Ltd	Homes		DRAINAGE PLAN	21.05.202 STAGE: P	5 As indicated DRAWN: JPS	230473 CHECKED: AMcK
g Pty Ltd	ELECTRICAL CONSULTANT GREENVIEW CONSULTING Pty Ltd	LANDSCAPE CONSULTANT	NSW	12-16 Stuart Street, Warrawong, NSW		туре:	SHEET: C02	REV: 6





EXISTING

TREES

PROPOSED

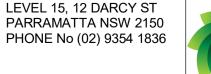
TREES

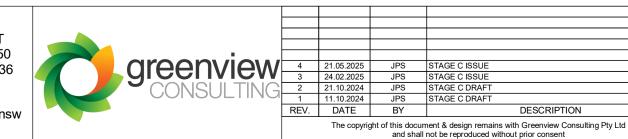
	CIV - FIXTURES SCHEDULE				
	TYPE	DESCRIPTION			
		GRATED STORMWATER PIT			
		PERIMETER STRIP DRAIN			
\boxtimes		SEALED STORMWATER PIT			

	CIV - STANDARD SYMBOLS
	DESCRIPTION
	FALL ARROW
Ļ	OVERLAND FLOW PATH

CIV - STORMWATER SERVICES							
	TYPE DESCRIPTION						
	STW	STORMWATER					
	STW EX	EXISTING STORMWATER					







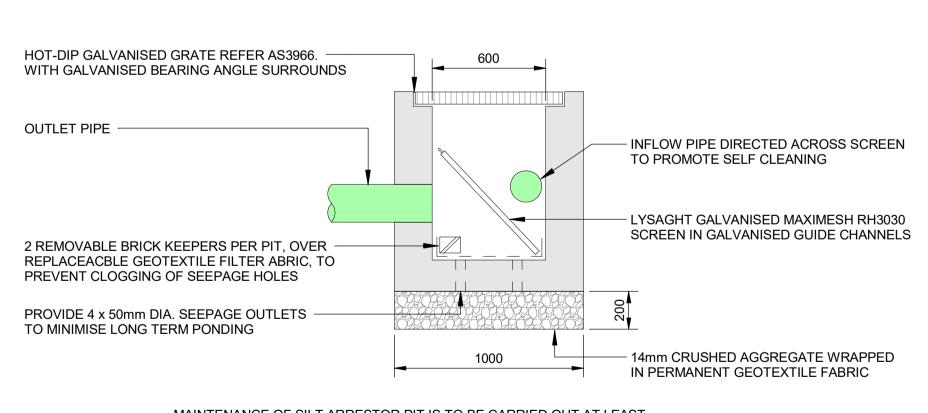


HOMES NSW

NSW

GOVERNMEN

MAINTENANCE OF SILT ARRESTOR PIT IS TO BE CARRIED OUT AT LEAST EVERY SIX MONTHS AND AFTER EVERY SIGNIFICANT STORM EVENT



TYPICAL CONCRETE INLET PIT - LANDSCAPE SURFACE Scale: 1:20

REFER TABLE

FOR PIT SIZE

1. ENSURE CLIMB IRONS ARE PROVIDED UNDER LID AT 300 CTS TO COUNCIL'S SPECIFICATIONS

STUB PIPE SURROUNDED WIT	HE PLUMBER PROVIDES 90Dia TH 100mm THICKNESS OF NOM EXTILE FILTER FABRIC. (BIDU	a x 3000 LONG SUBSOIL DRAINAGE /IINAL 20mm COARSE FILTER IM A24 OR APPROVED SIMILAR). TO					
PIT SIZE							
DEPTH	PIT DIMENSION						
0 - 600	450 mm x 450 mm						
600 - 900	600 mm x 600 mm						
900 - 1200	600 mm x 900 mm						
1200 +	900 mm x 900 mm						

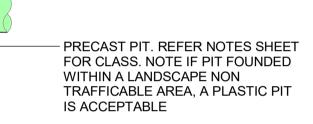
GALVANIZED BEARING ANGLE -OR SIMILAR SURROUNDS

INLET PIPE

WHERE PIT DEPTH IS DEEPER THAN 1000.

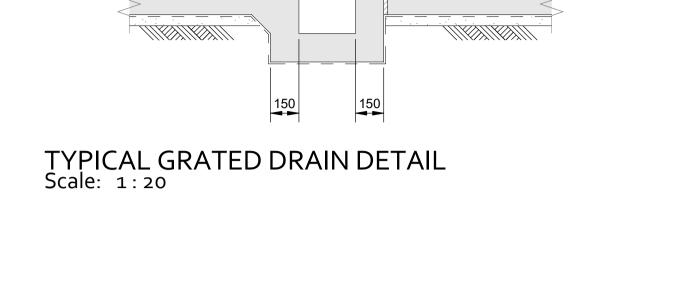
PIPES TO BE SET WITH MATCHING OBVERTS WHERE APPLICABLE

MASS CONCRETE BENCHING TO PIT -BASE TO AVOID PONDING WATER



- HOT-DIP GALVANIZED GRATE. REFER NOTES SHEET FOR GRATE CLASS

OUTLET PIPE



GALVANIZED BEARING ANGLE -SURROUNDS OR SIMILAR

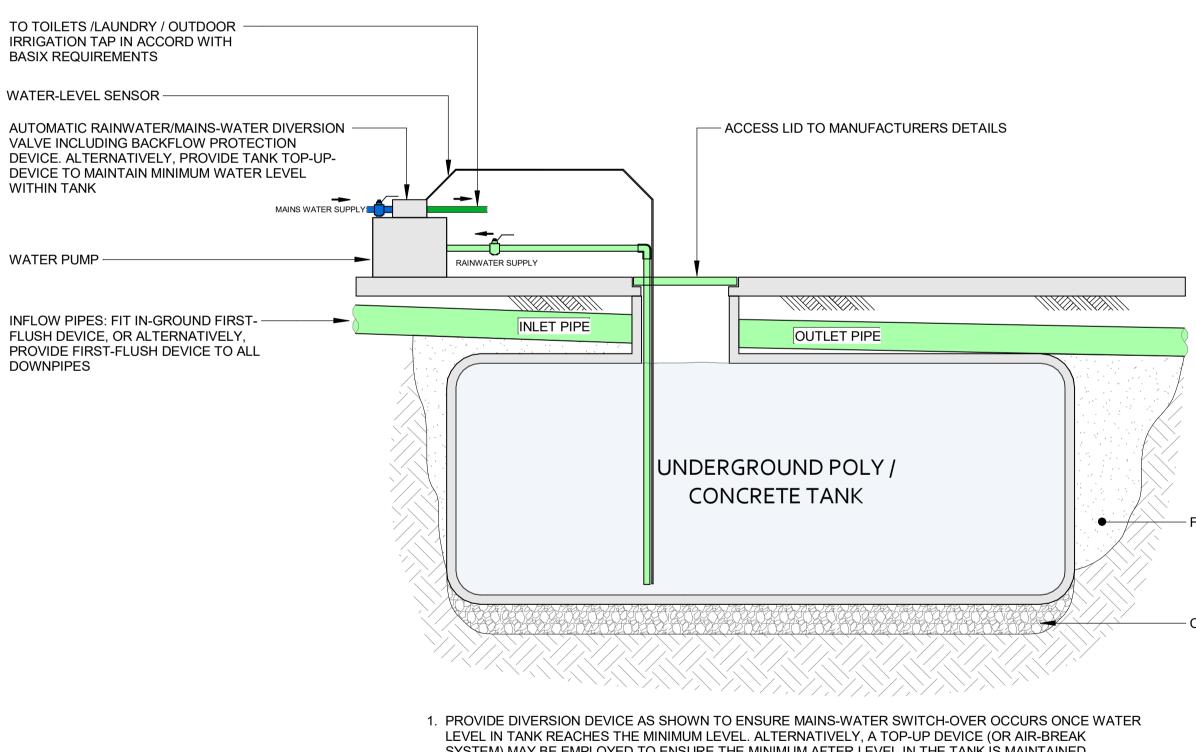
- HEAVY DUTY GRATE

BITUMINOUS FILLERBOARD

AUTOMATIC RAINWATER/MAINS-WATER DIVERSION — VALVE INCLUDING BACKFLOW PROTECTION DEVICE. ALTERNATIVELY, PROVIDE TANK TOP-UP- DEVICE TO MAINTAIN MINIMUM WATER LEVEL			
		— TO TOILETS /LAUNDRY / OUTDOOR IRRIGATION TAP IN ACCORD WITH BASIX REQUIREMENTS	
WATER PUMP	RAINWATER SUPPLY		
		· · · · · · · · · · · · · · · · · · ·	
	150mm INLET PIPE		
		TYPICAL BELOW GROUND BLOC	
			¥XXXX

- 1. PROVIDE DIVERSION DEVICE AS SHOWN TO ENSURE MAINS-WATER SWITCH-OVER OCCURS ONCE WATER LEVEL IN TANK REACHES THE MINIMUM LEVEL. ALTERNATIVELY, A TOP-UP DEVICE (OR AIR-BREAK SYSTEM) MAY BE EMPLOYED TO ENSURE THE MINIMUM AFTER LEVEL IN THE TANK IS MAINTAINED.
- 2. RAINWATER FIXTURES, INFLOW AND OUTFLOW PIPES TO A\$3500.1 (2003). 3. ANY CONTAINMENT/BACKFLOW PREVENTION DEVICE TO BE IN ACCORD WITH THE LOCAL WATER AUTHORITY.
- 4. RAINWATER USAGE AND MINIMUM VOLUMES TO BASIX OR AS SPECIFIED BY THE STORMWATER ENGINEER. 5. ALL PIPING SYSTEMS DELIVERING RAINWATER TO TAPS, FIXTURES, OUTLETS OR APPLIANCES MUST BE INSTALLED BY A LICENSED PLUMBER.

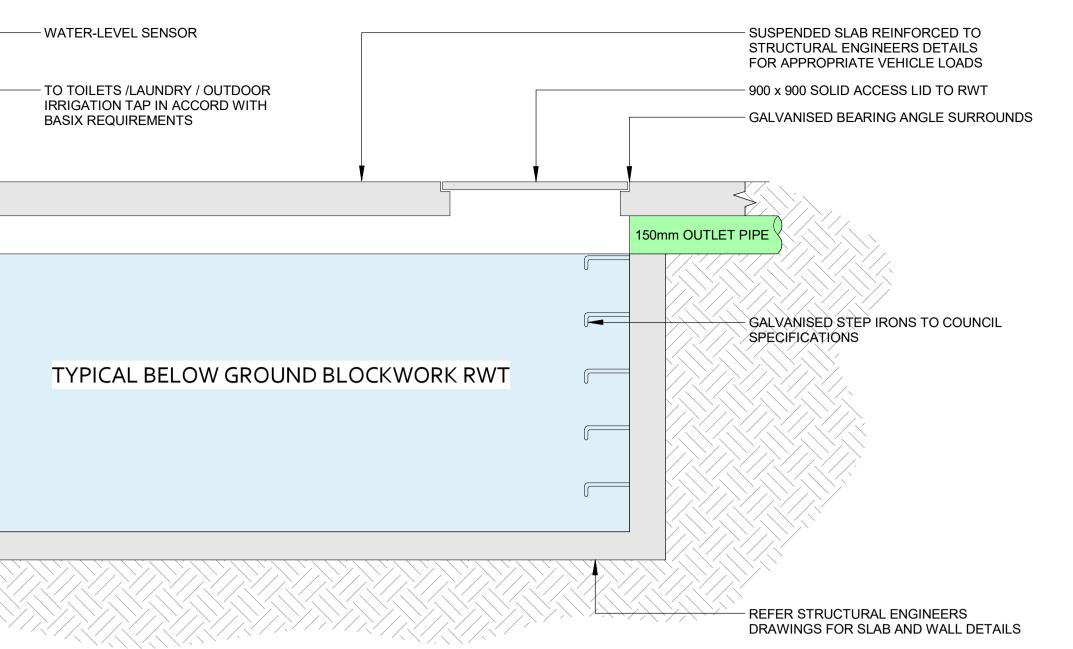
TYPICAL CAST INSITU (BELOW GROUND) RAINWATER TANK



- SYSTEM) MAY BE EMPLOYED TO ENSURE THE MINIMUM AFTER LEVEL IN THE TANK IS MAINTAINED. 2. RAINWATER FIXTURES, INFLOW AND OUTFLOW PIPES TO AS3500.1 (2003). 3. ANY CONTAINMENT/BACKFLOW PREVENTION DEVICE TO BE IN ACCORD WITH THE LOCAL WATER
- AUTHORITY. 4. RAINWATER USAGE AND MINIMUM VOLUMES TO BASIX OR AS SPECIFIED BY THE STORMWATER
- ENGINEER. 5. ALL PIPING SYSTEMS DELIVERING RAINWATER TO TAPS, FIXTURES, OUTLETS OR APPLIANCES MUST BE INSTALLED BY A LICENSED PLUMBER.

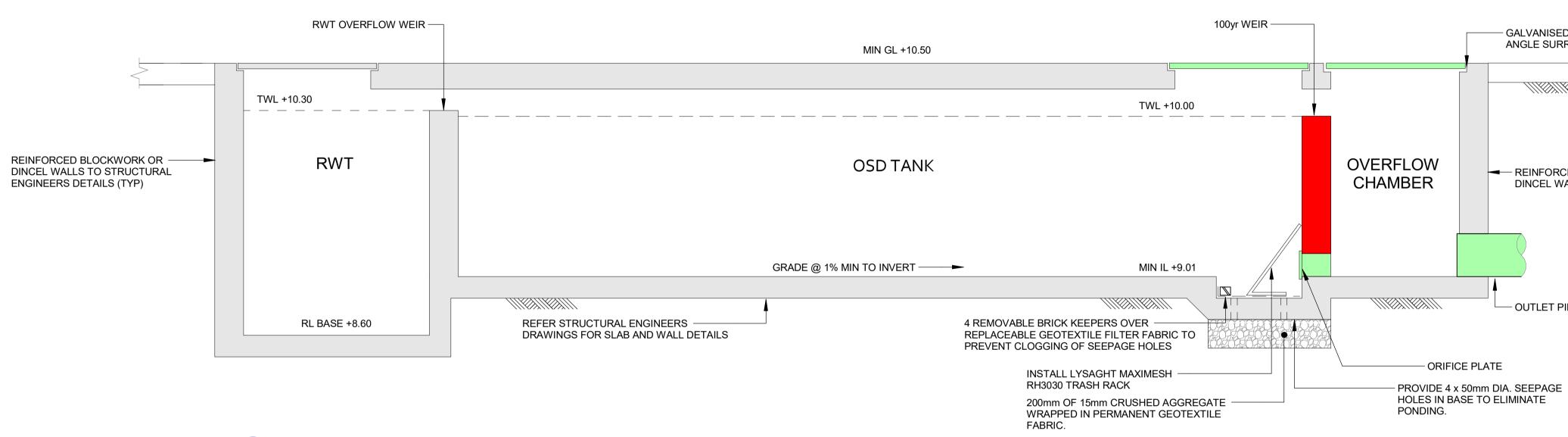
TYPICAL BELOW GROUND RAINWATER TANK Scale: 1:20

ARCHITECT	STRUCTURAL CONSULTANT	BUSINESS PARTNER:			STATUS:	PRELI	MINARY	
PROJECT MANAGER	HYDRAULIC CONSULTANT GREENVIEW CONSULTING Pty Ltd		PROPOSED DEVELOPMENT	SITE STORMWATER DETAILS SHEET 1	DATE: 21.05.2025 STAGE:	DRAWN:	PRJ: DESIGN:	JOB: 230473 СНЕСКЕD:
ELECTRICAL CONSULTANT CLtd GREENVIEW CONSULTING Pty Ltd	LANDSCAPE CONSULTANT	Homes NSW	^{AT} 12-16 Stuart Street, Warrawong, NSW		Р түре: С	JPS SHEET: C03	LM	AMcK



- FILL SURROUNDING TANK TO MANUFACTURERS RECOMMENDATION

- COMPACTED STABLE BASE TO MANUFACTURER RECOMMENDATION

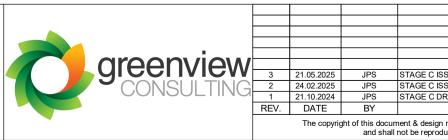








LEVEL 15, 12 DARCY ST PARRAMATTA NSW 2150 PHONE No (02) 9354 1836 www.nsw.gov.au/homes-nsw



	ARCHITECT	STRUCTURAL CONSULTANT	BUSINESS PARTNER:	PROJE
		GREENVIEW CONSULTING Pty Ltd		
	4			F 1
				•
	PROJECT MANAGER	HYDRAULIC CONSULTANT		Г
SUE	LAND & HOUSING CORPORATION	GREENVIEW CONSULTING Pty Ltd		-
SUE		,	Homes	A
RAFT		LANDSCAPE CONSULTANT		1
DESCRIPTION	ELECTRICAL CONSULTANT	LANDSCAPE CONSULTANT	NSW	
remains with Greenview Consulting Pty Ltd uced without prior consent	GREENVIEW CONSULTING Pty Ltd			

JECT: PROPOSED DEVELOPMENT 12-16 Stuart Street, Warrawong, NS

BALVANISED BEARING	
NGLE SURROUNDS.	

REINFORCED BLOCKWORK OR DINCEL WALLS, TYPICAL.

		STATUS: PRELIMINARY			
	SITE STORMWATER DETAILS SHEET 2	DATE: 21.05.2025	SCALE: 1:20	PRJ:	^{ЈОВ:} 230473
		STAGE: P			CHECKED: AMcK
SW		туре:	sheet: C04		REV: 3