STORMWATER DESIGN FOR PROPOSED DEVELOPMENT AT 51 WYONDRA AVE, FRESHWATER

GENERAL NOTES

- I ALL WORKS SHALL BE CARRIED OUT IN ACCORDANCE WITH THE NOMINATED OR APPLICABLE COUNCIL SPECIFICATION.
 2. THE CONTRACTOR SHOULD REPORT ANY DISCREPARCIES ON THE DRAWINGS TO THE ENGINEER RESPONSIBLE FOR THE DESIGN.
 3. CONTRACTOR SHOULD THE UPON NOR OO ANY WORK WITHIN ADJACENT LANDS WITHOUT THE PERMISSION OF THE OWNER.
 4. SUPPLICABLE NEED NEED REPORT ANY DEFINITION.
 5. ALL NEW WORKS SHALL MAKE A SMOOTH JUNCTION WITH EXISTING.

- EXISTING. 6. ALL DRAINAGE LINES THOUGH ADJACENT LOTS SHALL BE 0. ALL DAVINGED ENTRIES INDUST ADJACENT LOT SINALE BE CONTAINED WITHIN EASEMENTS CONFORMING TO COUNCIL'S STANDARDS. PRIOR TO COMMENCEMENT OF WORK, THE CONTRACTOR SHALL PROVIDE A TRAFFIC MANAGEMENT PLAN PREPARED BY AN ACCREDITED PERSON IN ACCORDANCE WITH RMS
- ACURELITEU PENDINI IN ACCORDANCE WITH RMS REQUIREMENTS, FOR ANY WORK ON OR ADJACENT TO PUBLIC ROADS, PLAN TO BE SUBMITTED TO COUNCIL & RMS AS REQUIRED I RESE PLANS SHALL BE A READ IN CONJUNCTION WITH OTHER RELEVANT CONSULTANTS PLANE SPECIFICATIONS, CONDITIONS REPOILEMENTS
- OF DEVELOPMENT CONSENT AND CONSTRUCTION CERTIFICATE REQUIREMENTS. 9. 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 DEVICES AND ADDRESS AND ADDRESS AND ADDRESS RESERVE PRIOR TO THE COMMENCEMENT OF ANY WORKS. THE STORMWITE RENEWER PRIOR TO THE COMMENCEMENT OF ANY WORKS TO ENSURE THERE ARE NO OBSTRUCTIONS IN THE LINE OF THE DRAINAGE DISCHARGE PIPES. 10. THE BUILDER IS TO VERIFY ALL LEVELS ON SITE PRIOR TO COMMENSION OP PIES HAVE TO BE TAKEN UP TO THE FINISHED UNDERGROND PIES HAVE TO BE TAKEN UP TO THE FINISHED GROUND LEVEL FOR EASY DENTIFICATION AND MAINTENANCE PURPOSE DE DOB UNDER UNDER OFFICIAL EVENTS
- PURPOSES 12. ALL TERRACE FLOOR AND PLANTER GRATES TO HAVE FIRE
- 12. ALL TERRACE FLOOR AND PLANTER GRATES TO HAVE FIRE COLLARS INTED. 13. ALL PITS HAVING AN INTERNAL DEPTH THAT EXCEEDS 1 on SHALL BE PROVIDED WITH GALVANZED STEP INONS AT 300 mm CENTRES PLACED IN A STAGEGRED PATTERN AND SHALL BE IN ACCORDANCE WITH THE AUSTRALIAN STANDARDS AS1498-1994. 14. 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. 15. PRIOR TO COMMENCING ANY WORKS ON THE SITE. THE BUILDER STORING TO COMMENCING ANY WORKS ON THE SITE. THE BUILDER STORAWATER SYSTEM CONNECTION INTO COUNCIL'S KERBURGHANGE SYSTEM WATCH THE DESIGN LEVELS. ANY DISCREPANCIES SHALL BE CEPORTED TO THE DESIGN ENGINEER IMMEDIATELY.

- DISCREPANCIES SHALL BE REPORTED TO THE DESIGN ENGINEER IMMEDIATELY. 16. GREENVIEW IS NOT RESPONSIBLE FOR THE ACCURACY OF ANY SURVEY INFORMATION PROVIDED ON THIS DRAWING. 17. ALL LEVELS SHOWN ARE EXPECTED TO BE TO A H.D. 18. ALL CHAINAGES AND LEVELS ARE IN METERS, AND DIMENSIONS IN MILLIMETRES, UNLESS NOTED OTHERWISE. 19. THE SURVEY INFORMATION ON THIS DRAWING HAS BEEN 20. CONTRACTORS SHALL ARRANGE FOR THE WORKS TO BE SET OUT EYA A E DRAWINGS BY A REGISTERED SURVEYOR ARE REQUIRED PRIOR TO CERTIFICATION OF TIMS DRAWEN ARE REQUIRED PRIOR TO CERTIFICATION OF DRAINAGE. 22. WHERE THESE PLANS ARE NOTED FOR DEVELOPMENT APPLICATION PURPORSE ONLY. THEY SHALL NOT BE USED FOR
- WIERCE THESE FLAWS ARE IN USE I FUR USEVELOPMENT APPLICATION PURPOSES ONLY. THEY SHALL NOT BE USED FOR OBTAINING A CONSTRUCTION CERTIFICATE NOR USED FOR CONSTRUCTION PURPOSES WITHOUT WHITEM APPROVAL.
 WATER TREATMENT DEVICES TO STRICTLY COMPLY WITH MANUFACTURING SPECIFICATIONS.

RAINWATER REUSE SYSTEM NOTES

- ARINWATER CHECKS LOSE STREAM TO UTLETS
 WHERE REQUIRED BY BASIX CERTIFICATE (BY OTHERS)
 NO DIRECT CONNECTON BETWEEN TOWN WATER SUPPLY AND
 THE RAINWATER SUPPLY
 PROVIDE AN APPROVED STOP VALUE AND/OR PRESSURE LIMITING
 VALVE AT THE RAINWATER TANK
 PROVIDE AT LEAST ONE EXTERNAL HOSE COCK ON THE TOWN
 WATER SUPPLY FOR FIRE FIGHTING.
 SPROVIDE APPROPRIATE CHAIN (MOSE COCK ON THE TOWN
 WATER SUPPLY FOR FIRE FIGHTING.
 SPROVIDE APPROPRIATE CHAIN (MOSE COCK ON THE TOWN
 WATER SUPPLY FOR FIRE FIGHTING.
 SPROVIDE APPROPRIATE CHAIN (MOSE COCK ON THE TOWN
 WATER SUPPLY FOR FIRE FIGHTING.
 SPROVIDE APPROPRIATE COLT IN ULCITO TANK IN ORDER TO
 ACHEVE THE TOP-UP INDICATED ON THE TYPICAL DETAIL
 ALL PLUMBING WORKS ARE TO BE CARRIED OUT BY LICENSED
 PLUMBERS IN ACCORDANCE WITH ASIN23500.1 NATIONAL
 PLUMBIER AND PRAINAGE CODE
 PRESSURE PUMP ELECTRICAL CONNECTION TO BE CARRIED OUT
 BY ALICENSED BLECTRICIAN.

- PRESSURE FULM" ELECTRICAL CONNECTION TO BE CARRIED OUT BY A LICENSED ELECTRICIAN.
 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 SAIN2300 PART 1 SECTION 2 AND TO BE CLEARLY AND PERMANENTLY IDENTIFIED AS 'RAINWATER'. THIS MAY BE ACHIEVED FOR BELOW GROUND PIPES USING IDENTIFICATION TARE (MADE IN ACCORDANCE WITH AS2648) OR FOR ABOVE GROUND PIPES BY USING ADHESIVE PIPE MARKERS (IMADE IN ACCORDANCE WITH AS1345)
 ENANCE ON CONDANCE WITH AS1345)
 ENANCE ON ELED VIELD PART AND THE RAINWATER ACCORDANCE WITH AS1319
 ALL INLE'TO BE CABLEST TO THE RAINWATER TO MAK ARE TO HAVE
- ACCORDANCE UNDERLEG ST319 11. ALL INLETS AND OUTLETS TO THE RAINWATER TANK ARE TO HAVE SUITABLE MEASURES PROVIDED TO PREVENT MOSQUITO AND VERMIN ENTRY. 2. ALL DOWNPIES CHARGED TO THE RAINWATER TANK ARE TO BE SALED UP TO GUTTER LEVEL AND BE PRESSURE TESTED AND CERTIFIED
- 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

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 HROUGH THE DESIGN PROCESS. HAZARD CONTROLS MUST STILL BE IMPLEMENTED BY THE CONTRACTOR, OWNER OF OPERATOR TO ENSURE THE SAFETY OF WORKERS. GREENVIEW ASSESSMENT DID NOT IDENTIFY ANY UNIQUE RISKS ASSOCIATED WITH THE DESIGN.

SERVICE ENGINEER'S AND RELEVANT SPECIFICATIONS.

EARTHWORK NOTES

- 1. IT IS THE CONTRACTORS RESPONSIBILITY TO LOCATE AND LEVEL ALL EXISTING SERVICES PRIOR TO THE COMMENCEMENT OF ANY TIS THE CONTRACTORS RESPONSIBILITY TO LOCATE AND LEVELALL EXISTING SERVICES PRIOR TO THE COMMENCEMENT OF ANY EARTHWORKS
 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 BULK EXCAVATION.
 OVER FULL AREA OF EARTHWORKS, CLEAR VEGETATION, RUBBISH, SLABS ETC. AND STRIP TOP SOIL. AVERAGE 200mm THICK, REMOVE FROM SITE, EXCEPT TOP SOIL FOR RECUSE.
 CUT AND FILL OVER THE SITE TO LEVELS REQUIRED.
 PROR TO ANY FILLUNG IN AREAS OF CUT OR IN EXISTING GROUND, PROOF ROLL THE EXPOSED SURFACE WITH A ROLLER OF MINIMUM

- CUT AND FILL OVER THE SITE TO LEVELS REQUIRED.
 CHYOR TO ANY FILLING: NAREAS 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.
 EXCAVATE AND REMOVE ANY SOFT SPOTS ENCOUNTERED DURING PROOF ROLLING AND REPLACE WITH A PROVED FILL COMPACTED IN LAYERS. THE WHOLE OF THE EXPOSED SUBGRADE AND FILL SHALL BE COMPACTED TO 98; STANDARD MAXIMUM DRY DESISTY AT OPTIMUM MOSTURE CENTER 1.2%.
 MOSTINE CENTER TARGE AFTER STRIPPING TOPSOIL AND PRIOR TO COMMENCING FILL OPERATIONS.
 WHERE HARD ROCK IS EVOSED THE EXCAVATED SUB-GRADE. THIS WILL BE INSPECTED AND A DECISION MADE ON THE LEVEL SO OF EXISTING SUBFACE AFTER STRIPPING TOPSOIL AND PRIOR TO COMMENCING FILL OPERATIONS.
 WHERE HARD ROCK IS EVOSED IN THE EXCAVATED SUB-GRADE. THIS WILL BE INSPECTED AND A DECISION MADE ON THE LEVEL TO WHICH EXCAVATION IS TAKEN.
 HIL IN 20mm MAXIMUM (LOOSE THICKNES) LAYERS TO UNDERSIDE OF BASECOURSE USING THE EXCAVATED WATERIAL AND COMPACTED TO 98% STANDARD LAS 1289 5.1.1), MAXIMUM DRY DENSITY AT OPTIMIM MOISTURE CONTENT LEVELS SHOLD THERE BE INSUFFICIENT MATERIAL PROM STERED.
 FORMER CONTENT LEVELS SHOLD FOR THE DEVELTO TO 98% STANDARD LAS 1289 5.1.1), MAXIMUM DRY DENSITY AT OPTIMIM MOISTURE CONTENT LEVELS SHOLD THERE BE INSUFFICIENT MATERIAL PROM STERED AND A DECISION HADE ON THE DRAFT OR COMPACTED TO 98% STANDARD LAS 1289 5.1.1), MAXIMUM DRY DENSITY AT DEMIMIM MOSTINGES USING THAN AND PROT AS NECESSARY CLEAN GRANULAR FROM STERED AND A DEVICE ON THE STRIPPONT TO THE PATE OF 2

- HYDM SILE EAX/MILENS, IMP CAN EXCEED OUT AT THE RATE OF 2 FILL TO APPROVAL STATUS AND APPROVAL THE TO APPROVAL STATUS AND APPROVAL AND
- 13. ALL CONDUITS AND MAINS SHALL BE LOLD FINANCE T PAVEMENT. 14. ALL BATTERS AND FOOTPATHS ADJACENT TO ROADS SHALL BE TOP SOILED WITH form APPRVED LOAM AND SEEDED UNLESS OTHERWISE SPECIFIED.
- DRAINAGE INSTALLATION

RCP CONVENTIONAL

INSTALLATIONS & ROAD CROSSINGS

- SUPPLY & INSTALLATION OF DRAINAGE WORKS TO BE IN ACCORDANCE WITH THESE DRAWINGS, THE COUNCIL SPECIFICATION AND THE CURRENT APPLICABLE AUSTRALIAN STANDARDS.
 BACKFILL SHALL BE PLACED & COMPACTED IN ACCORDANCE WITH THE SPECIFICATION. A GRANULAR GRAVEL AGGREGATE MATERIAL THE SPECIFICATION. A GRANULAR GRAVEL AGGREGATE MATERIAL
- (<10mm) BACKFILL 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
- A MINIMUM OF 150mm CLEARANCE IS 10 BE PROVIDED BE WEEN THE OUTSIDE OF THE PIPE BARREL AND THE TRENCH WALL FOR PIPES < 600 DIA. 200mm CLEARANCE FOR PIPES 500 TO 1200 DIA. AND DIG CLEARANCE FOR PIPES > 1200 DIA.
 BEDDING OF THE PIPELINES IS TO BE TYPE HS2'N ACCORDANCE WITH THE STANDARDS AND AS FOLLOWS:
- a.COMPACTED GRANULAR MATERIAL IS TO COMPLY WITH THE

M 19 2.3600 0.6000 0.3000 0.1500 0.0750

- -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 COHESIONLESS 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

1. THIS DRAWING IS THE PROPERTY OF 'SK BUILDING SOLUTIONS EXPERTISE PTY LTD'.

2. THIS DRAWING IS TO BE READ IN CONJUNCTION WITH ALL RELEVANT ARCHITECT'S,

IT MAY NOT BE REPRODUCED IN WHOLE OR PART OR TAKE ADVANTAGE OF THE

DRAWINGS WITHOUT THE EXPRESS PERMISSION OF THE COPYRIGHT HOLDERS.

- ALL ROOF DRAINAGE IS TO BE DESIGNED AND INSTALLED IN ACCORDANCE WITH THE CURRENT APPLICABLE AUSTRALIAN STANDARDS INCLUDING ASS603. NAC AND COUNCILS SPECIFICATIONS.
 2. DOWNPIES SHOWN ARE INDICATIVE ONLY. REFER ARCHITECTURALS FOR FINAL IOCATIONS.
- WINFIFES SHOWN ARE INDICATIVE ONLT. REFER ARCHITECTURALS FOR NAL LOCATIONS. L DOWNPIPES TO BE CONSTRUCTED OF ONE MATERIAL FOR AESTHETICS EASONS AND PAINTED TO PROTECT THEM AGAINST II TRAJVIDIET LICHT SONS AND PAINTED TO PROTECT THEM AGAINST ULTRA-VIOLET LIGH AGE. UNLESS APPROVED OTHERWISE BY THE PROJECT ARCHITECT.
- LL DOWNPIPES TO HAVE LEAF GUARDS. LL 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)
- 17. ALBOM GUITERS MAYE TO BE DESIGNED TO CATERITO THE TYS ARP (100YK) SIN ACCORDANCE WITH ASSON 3 CLAUSE 3 7.6.6. BOX GUITERS SHALL: a. BE STRAIGHT (WITHOUT CHANGE IN DIRECTION) b. HAVE A HORIZONTAL CONSTANT WIDTH BASE (SOLE) WITH VERTICAL SIDES IN A CROSS-SECTION CONSTANT LONGTUDIALS LOPE BETWEEN 1:200 AND 1:40. d. DISCHARGE AT THE DOWNSTREAM END WITHOUT CHANGE OF DIRECTION e. (EN AND TO THE SIDER: AND e. (B) CONSTANT LONGTUDIALS SUMPS e. (EN AND TO THE SIDE: AND e. (EN CONSTANT LONGTUDIALS SUMPS 9. GREENVIEW RECOMMENDS THAT THE BUILDER VERIFIES THAT ANY AND ALL BOX GUITTERS HAVE REFOR DESIGNED BY A OLIAI LIFED COULT ENGINEER PRIOR
- BOX GUTTERS HAVE BEEN DESIGNED BY A QUALIFIED CIVIL ENGINEER PRIOR TO THE COMMENCEMENT OF WORKS.
- TO THE COMMENCEMENT OF WORKS. GREENVIEW RECOMMENDS A SPECIFIC INSPECTION AND CERTIFICATION BY A QUALIFIED CIVIL ENGINEER OF ANY AND ALL BOX GUTTERS INSTALLED ON THE PROJECT PRIOR TO OCCUPATION CERTIFICATE

NORTHERN BEACHES COUNCIL

STORMWATER DRAINAGE NOTES

COUNCIL'S SPECIFICATION

Depth to invert

of outlet

≤450

≤600 ≻600 ≤900

>900 ≤1200

>1200

12 ANY P

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

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

350

450 600 600

900

PIPES OF 225mm DIA. AND UNDER SHALL BE UPVC
 PIPES OF 300mm DIA. AND LARGER SHALL BE FRC OR CONCRETE CLASS 2 RUBBER RING JOINTED UNO.

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. 7. MINIMUM COVER TO PIPES 300mm DIA. AND OVER GENERALLY SHALL BE 600mm IN CARPARK & ROADWAY AREAS UNO. 8. 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. 10. PIPES UP TO 150mm DIA SHALL BE LAID AT 1.0% MIN. GRADE U.N.O. 10. RACKFILL TRENCHES WITH APPROVED FILL COMPACTED IN 200mm LAVERS TO 9% OF STANDARD DENSITY.

12. ANY PIPES OVER 10% OFMUE OWNEL INVE OWNELT DOUBLE LOUDEN LOUDEN 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 CLASSES OF BUILDING OR AS REQUIRED BY THE REGULATORY AUTHORITY. 4. BUILD INFO UPSTREAM FACE OF ALL PTR A 3.0 m SUBSOLI 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 ASS00.3 TABLE 7.5.2.1 16. GREENVEW RECOMMENDS ALL COURTYARDS TO HAVE 450 SQUARE PLASTIC PIT INSTALLED WITH A 150mm DIA. CONNECTION TO FORMAL DRAINAGE SYSTEM.

PIT INSTALLED WITH A 150mm DIA. CONNECTION TO FORMAL DRAINAGE SYSTEM. 17. ALL DRIVEWAY PITS TO BE MIN 600 SQUARE U.N.O OR LARGER AS REQUIRED BY ASSOS AT ABLE 7.5.2.1 18. ALL PLANTER BOXAUSES AND BALCONIES TO BE CONNECTED TO THE PROPOSED STORKWATER DRAINAGE LINE. 19. ALL STORMWATER DRAINAGE WORK TO AVOID THEE ROOTS. WHERE NOT POSSIBLE, ALL EXCALATIONS IN VICINITY OF TREE ROOTS ARE TO BE HAND

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

22 AAV VARIATION TO THAT WORKS AS SHOWN ON THE APPROVED DRAWINGS
 ARE TO BE CONFIRME BY THE EXAMPLE PRIOR TO THE COMMENCEMENT.
 23 ALL BALCOMES AND ROOPS TO BE DRAINED AND TO HAVE SAFETY
 24 ALL GRATES TO HAVE ONLIDEPROOF LOOK AL AUSTRALAUM STANDARDS.
 24 ALL WORK WITHIN COUNCIL RESERVE AREAS TO BE INSPECTED BY COUNCIL
PRIOR TO BACKFILLING.
 26. COUNCIL'S ISSUED FOOTWAY DESIGN LEVELS TO BE INCORPORATED INTO
 THE FINISHED LEVELS ONCE ISSUED BY COUNCIL.

28. ALL BALCONIES TO HAVE FLOOR WASTE AND 1% FALL WITH SAFETY

INSTALLED IN ACCORDANCE WITH DETAILS TO BE PROVIDED BY THE LANGSCAPE CONSULTANT DIFTINGS SHALL BE PERFORATED PLASTIC TO 30 CURRENT AUSTRALIAN STANDARDS. LAY PIPES ON FLOOR OF TRENCH GRADED AT 15 MIN. AND OVERLAY WITH FILTER MATERIAL EXTENDING TO WITHIN 200mm OF SURFACE. PROVIDE FILTER FABRIC OF PERMEABLE POLYPROYLENE BETWEEN FILTER MATERIAL AND TOPSOLL PROVIDE FLUSHING EYES AT HIGH POINTS OR TO COUNCILS REQUIRENTS. 31. GRATES TO BE IN ACCORDANCE WITH TRALE BELOW:

AYS THAT CAN BE MOUNTED BY VEHICLES

PIPE TYPE COVER

PVC

PVC

RCP

STEEL

PVC 300

100

100 BELOW UNDERSI OF PAVEMENT

500 BELOW UNDERSIDE OF PAVEMENT

MALLS AND PEDESTRIAN AREAS OPEN TO SLOW

OVERFLOW. 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

PIT GRATE INLINE TYPE

GRATE TYPE TRAFFIC CONDITIONS

32. COVER TO PIPE TO BE AS PER TABLE BELOW

COVER TABLE

LANDSCAPE (SINGLE DWELLING)

UNDER TRAFFICABLE AREA

A - EXTRA LIGHT DUTY FOOTWAYS AND AREAS ACCESSIBLE ON PEDESTRIANS AND PEDAL CYCLISTS.

IPES OVER 16% GRADE SHALL HAVE CONCRETE BULKHEADS AT ALL

Rectangular

Width Length

Minimum internal dimensions

350

450 600 900

900 1000

Circular

Diameter

_

600 900

1000

B - LIGHT DUTY

LOCATION

LANDSCAPE

CONCRETE

ROADS

- DESCRIPTIO
- TWO STOREY DWELLING

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 RETAININ WALLS CLOSE TO HABITABLE AREAS BE FITTED WITH AN IMPERMEABLE MEMBRANE AND SUBSOLID DRAINAGE TO FREVENT GROUNDWATER SITE DETENTION (OSD) ALL OSD MAINTENANCE TASKS SHOULD BE UNDERTAKEN AFTER A SIGNIFICANT STORM EVENT 6 MONTHLY

MAINTENANCE SCHEDULE: ON

ORIFICE PLATE INSPECT FOR CHECK PLATE FOR BLOCKAGE AND CLEAN

TRASH SCREEN CHECK / CLEAN CHECK AND CLEAN TRASH

CHECK FOR

CHECK FOR DAMAGE

CLEAR BLOCKAGES

CHECK FOR BLOCKAGES

CHECK ATTACHMENT

TTACHMENT

CHECK CORROSION

CHECK FOR

TASK

COLOUR LEGEND

RIFICE PLATE CHECK ORIFICE PLATE CHECK ORIFICE SIZE AGAINST WAE AND CHECK FOR PITTING /

IMPERVIOUS ROOF AREA

IMPERVIOUS HARDSTAND AREA

PERVIOUS LANDSCAPE AREA

REV: DESCRIPTION:

A STRUCTURAL DESIGN

CHECK

TASK

ELEMENT

PIT SUMP

GRATED LIDS

STORAGE LIDS

OUTLET PIPES

STEP IRONS

ELEMENT

ORIFICE PLATE

RASH SCREEN

STEP IRONS

5-YEARLY

ELEMENT

SK BUILDING SOLUTIONS

BUILDING AND ENGINEERING (CONSULTANTS)

EXPERTISE PTY LTD

KSTOWN, NSW, 2200

U9/14 FRENCH AVENUE.

INTERNAL WALLS CHECK

OSD SURROUNDS CHECK FOR SUBSIDENCE

ANNUALLY

DESCRIPTION / ACTION

CHECK FOR SEDIMENT / LITTER SLUDGE AND CLEAN-OUT

CHECK FOR CORROSION OR OTHER DAMAGE AND REPAIR / REPLACE AS NEEDED

CHECK AND CLEAR BLOCKAGE

REMOVE DEBRIS / MULCH

CHECK / CLEAN / FLUSH OUTLET PIPES, REMOVE ANY

LOCKAGES

HECK FIXING ENSURE STEP-IRON FIXINGS ARE SECURE AND REPAIR AS NEEDED

DESCRIPTION / ACTION

GAPS AS REQUIRED

ENSURE PLATE IS MOUNTED SECURELY, TIGHTEN AND SEAL

ENSURE PLATE IS MOUNTED SECURELY, TIGHTEN AND SEAL GAPS AS REQUIRED

CHECK TRASH SCREEN FOR CORROSION, ESPECIALLY AT

EXAMINE STEP IRONS AND REPAIR ANY DAMAGE

CORNERS NEAR WELDS AND REPAIR / REPLACE AS NEEDED

CHECK FOR CRACKS / SPALLING AND REPAIR AS NEEDED

CHECK FOR SUBSIDENCE (WHICH MAY INDICATE LEAKS) AND REPAIR AS NEEDED

DESCRIPTION / ACTION

SCARRING, REPLACE IF

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 CIVELS ARE COMPATIBLE. NOTIFY ENGINEER IMMEDIATELY IF ANY DISCREPANCIES.

ON-SITE DETENTION

- 10.N.SITE DETENTION (QSD) TANKS ARE TO BE DESIGNED AND INSTALLED IN ACCORDANCE WITH THE CURRENT APPLICABLE AUSTRALIAN STANDARDS INCLUDING AS3003, 3N.CO. AND COUNCILS SPECIFICATIONS.
 2. IT IS CRITICAL THAT THE MINIMUM OSD VOLUMES SPECIFICATIONS.
 2. IT IS CRITICAL THAT THE MINIMUM OSD VOLUMES AS CALCULATED BY THE DESIGN AND NOTED ON THESE PLANS IS ACHIEVED ON SITE. VOLUMES TO BE VERIFED BE REGISTERED SURVEYOR AND NOTED IN THE WAS SURVEY PRIOR TO CERTIFICATION.VED IN BELOW GROUND TANK, OR ABOVE 3. OROND, FONDING, OR RAINWATER TANK OFFSET, OR INEL UTBATIONARS/ORPTION SYSTEM. FACH COLING: HAS SPECIFIC INEL UTBATIONARS/ORPTION SYSTEM. FACH COLING: HAS SPECIFIC
- GUIDELINAS OF TOWNER LAW OF DEL, OK INFILTRATION/ABSORPTION SYSTEM. EACH COUNCIL HAS SPECIFIC GUIDELINES FOR HOW STORMWATER FLOWS ARE TO BE CONTROLLED AND
- DISCHARGED. 4. 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

BELOW GROUND OSD TANKS

- DELOW GROUND USD TAINLS 1. THE HYDRAULC CONTROL FOR THE STORAGE (USUALLY ORIFICE PLATE) SHALL BE FIRMLY FIXED IN PLACE TO PREVENT REMOVAL OR TAMPERING. A PLATE OF 3mm TO 3mm THICK STAINLESS STEEL WITH A CIRCULAR HOLE SHALL BE USED, PROVIDES: a. TI SI MACHINED TO O.5mm ACCURACY b. IT RETAINS A SHARP EDGE. AND c. THE ORHICE DUARET RIS NOT LESS THAN 35mm (AS 3500.3 CLAUSE 7.10.2 2. INST THE CONTROL THE SHORT LESS THAN 35mm (AS 3500.3 CLAUSE 7.10.2 2. INST THE CONTROL THE SHORT LESS THAN 35mm (AS 3500.3 CLAUSE 7.10.2 2. INST THE CONTROL WITH DIMENSIONS AT LEAST BOOMT A 900mm FOR DEAVE THE FOR STORAGES. UP TO 800mm DEEP AND BOOMT A 900mm FOR DEEPER STORAGES. THERE SHALL BE NO IMPEDIMENTS TO THE REMOVAL OR DEEPER STORAGES. THERE SHALL BE NO IMPEDIMENTS TO THE REMOVAL OR DEEPER STORAGES. THERE SHALL BE NO IMPEDIMENTS TO THE REMOVAL OR DEEPER STORAGES. THERE SHALL BE NO IMPEDIMENTS TO THE REMOVAL OR DEEPER STORAGES. THERE SHALL BE NO IMPEDIMENTS TO THE REMOVAL OR DEEPER STORAGES. THERE SHALL BE NO IMPEDIMENTS TO THE REMOVAL OR DEEPER STORAGES. THERE SHALL BE NO IMPEDIMENTS TO THE REMOVAL OR DEEPER STORAGES. THERE SHALL BE NO IMPEDIMENTS TO THE REMOVAL OR DEEPER STORAGES. THERE SHALL BE NO IMPEDIMENTS TO THE REMOVAL OR DEEPER STORAGES. THERE SHALL BE NO IMPEDIMENTS TO THE REMOVAL OR DEEPER STORAGES. THERE SHALL BE NO IMPEDIMENTS TO THE REMOVAL OR DEEPER STORAGES. THERE SHALL BE NO IMPEDIMENTS TO THE REMOVAL OR DEEPER STORAGES. THERE SHALL BE NO IMPEDIMENTS TO THE REMOVAL OR DEEPER STORAGES. THERE SHALL BE NO IMPEDIMENTS TO THE REMOVAL OR DEEPER STORAGES. THERE SHALL BE NO IMPEDIMENTS TO THE REMOVAL OR DEEPER STORAGES. THERE SHALL BE NO IMPEDIMENTS TO THE REMOVAL OR DEEPER STORAGES. THERE SHALL BE NO IMPEDIMENTS TO THE REMOVAL OR DEFINING IN STOR ON WHERE AN ING TO REMOVE HEAVY ACCESS COVERS (ASSS00.3 CLAUSE 7.10.2 L/M)
- DEBNS THROUGH THIS OPENING. INSPECTION SHALL BE POSSIBLE WITHOUT RESIDENTS OR OWNERS HAVING TO REMOVE HEAVY ACCESS COVERS (ASS003 CLAUSE 7.10.2.b.ii) 3. 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 POINT, SEE OUTLET ACCESS SHALL BE PROVIDED AT THE OUTLET POINT, SEE DELOW THE LEVEL OF THE MANN STORAGE TO COLLECT DEBNS, WHERE A DISCHARGE CONTROL MININUM OF 1.5 TIMES THE DIAMETER OF THE ORITICE OF THE OWNED OF THE MANN STORAGE TO COLLECT DEBNS, WHERE A DISCHARGE CONTROL MININUM OF 1.5 TIMES THE DIAMETER OF THE ORIFICE OF THE OWNED OF THE CHEMPEND OUT TO THE SURFICE OF THE OWNED OF THE DELOW THE CENTRE OF THE ORIFICE SUMPS SHALL BE PROVIDED WITH WEEP HOLES TO DRAND UT TO THE SURFICE OF THE OWNED WITH SOUNDED ON A COMPACTED GRANULAR BASE. 5. WHERE THE DEPTING THE TAXK EXCEEDS 1.2m, A LADDER IN ACCORDANCE WITH ASS003 CLAUSE 7.5.5.4 SHALL BE INSTALLED. 6. BELOW GROUND OSD SYSTEMS SHALL DE ONFORM WITH ASS285. 7. IN ACCORDANCE WITH ASS200 3. CLAUSE 7.10.2.D SCREENS (TRASH RACKS) WITH THE FOLLOWING CHARACTERDISTICS SHOULD BE REVONDED TO COVER LE FOR ORTHOLES TO THAN A MINIMUM AREA OF 50 TIMES THE AREA OF THE MERE ADDINE ON A CORFICE S. A COARSER GRID MESH WITH A MINIMUM AREA OF JITMES THE AREA OF SO TIMES HE AREA OF THE MERE ADDINE AND MINING A REAGE OF THE ORIFICE SALE AND STHE ASSAN 1. ACCORDANCE WITH ASS200 3. CLAUSE 7.10.2.D SCREENS (TRASH RACKS) WHIT THE FOLLOWING CHARACTERDISTICS SHOULD BE THE AREA OF THE MERE ADDINE AND MINING A AFINE APERTURE EXPANDED METAL MERE ADDINE AND MINING AREA OF STIMES THE AREA OF THE MERE ADDINE AND MINING AN AFINE A STIME THE ADDINE AT THE MINIMUM AREA OF JITMES THE ORIFICE AREA MAY BE USED AS AN ALTERNATIVE. 5. STELE SCREENS SHOULD BE STAINLESS STELL OR HOTOP DE GALVANIZED
- 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. 5. STEEL CORRENUES TIMES THE ORIFICE AREA MAY BE USED AS AN ALTERNATIVE. 5. STEEL CORRENUES TO THIS THE OVAL: SHAPED HOLES ARE HORIZONTAL, WITH THE PROTINDING UP ANGED UPWARDS AND FACING DOWNSTREAM. A HANDLE MAY BE FITTED TO ENSURE CORRECT ORIENTATION AND EASY REMOVAL FOR MAINTENANCE. 4. SCREENS SHOULD BE PLACED NO FLATTER THAN 45 DEGREES TO THE HORIZONTAL. WITH THE VARUAD WITH ORIGINAL OF THE HORIZONTAL. WITH HALLOW STORAGES UP TO 600mm DEP. IN DEEPER OR MORE REMOTE LOCATIONS, THE MINIMUM ANGLE SHOULD BE 60 DEGREES PROVIDED TO EXPELIAN NOXIOUS GASES (ASSIO.3 CLAUSE 7.10.2.D.B). 9. THE STORAGE SHOULD BE DESIGNED TO FLAUTH SHOULD BE PROVIDED TO EXPELIAN NOXIOUS GASES (ASSIO.3 CLAUSE 7.10.2.D.B). 9. THE STORAGE SHOULD DE DESIGNED TO TALWITH SHOULD BE (ASSIO.3 CLAUSE 7.10.2.D.C). 10. BELOW GROUND STORAGES SHALL BE CONSTRUCTED OF CORCRETE. MASORRY, ALUMINIMUM CAN DA LUMINUMZICH MAGNESUM ALLOY-COATED STEEL, ZINC-COATED STEEL, GALVANISED IRON OR PLASTICS (ASSIOU.3 7.10.3)

ADOVE GROUND OSD SYSTEMS ARE PROPOSED TO BE LOCATED IN LANDSCAPED AREAS THE FOLLOWING CRITERIA IS RECOMMENDED IN ACCORDANCE WITH ASSIGN 3112.4
 a. A DESIRABLE MINIMUM SLOPE FOR SURFACES DRAINING TO AN OUTLET TO BE 1:0, AND AN ABSOLUTE MINIMUM SLOPE TO BE 1:100.
 b. THE DESIRABLE MAXIMUM DESULTE TO BE 1:00.
 cONDITIONS TO BE SOULTE MINIMUM SLOPE TO BE 1:100.
 cONDITIONS TO BE 3000mm.
 c. STORAGE VOLUMES IN LANDSCAPING AREAS TO BE INCREASED BY 20% TO ALLOV FOR VEGETATION GROWTH, CONSTRUCTION INACCURACIES d. SUBSOLI DRAINS TO BE MONTH, CONSTRUCTION INACCURACIES DATA THE DESCOMING SATURATION DROWTH, CONSTRUCTION INACCURACIES DATA DESCRIPTION OF DROWTH, CONSTRUCTION INACCURACIES DATA DESCRIPTION SATURATION DROWTH, CONSTRUCTION INACCURACIES DATA DESCRIPTION SATURATION DROWTH, CONSTRUCTION INACCURACIES DATA DESCRIPTION DESCRIPTIO

GROUND BECOMING SATURATED DURING PROLONGED WET WEATHER

e. WHERE THE STORAGE IS LOCATED IN AREAS WHERE FREQUENT PONDING WOULD CAUSE MAINTENANCE PROBLEMS OR INCONVENIENCE, THE FIRST

WOULD CAUSE MAINTENANCE PROBLEMS OR INCONVENIENCE, THE FIRST 10% TO 20% OF THE STRAGE SHOULD BE IN AN AREA THAT CAN TOLERATE FREQUENT INUNCTION, SUCH AS A PAYED OUTDOOR ENTERTAINMENT AREA, A SMALL UNDERGROUND TANK, A PERMANENT 2. WHERE ABOVE GROUND GOD SYSTEMS ARE PROPOSED TO BE LOCATED IN DRIVEWAY AND CARP RARK STORAGES. THE FOLLOWING CRITERA IS RECOMMENDED IN ACCORDANCE WITH ASS500.3 NY 2.8: a. DEPTH'S OF PONDING TO NOT EXCEED 200mm UNDER DESIGN CONDITIONS b. TRANSVERSE PAVING SLOPES WITHIN STORAGES TO BE NOT LESS THAN 11:140, AND

1:140; AND c. WHERE THE STORAGE IS LOCATED IN COMMONLY USED AREAS WHERE PONDING WOULD CAUSE INCONVENIENCE, PART OF THE STORAGE SHOULD BE PROVIDED IN AN AREA OR FORM THAT WILL NOT CAUSE A NUMBER OF THE STORAGE STORE OF THE STORE OF THE

ENGINEERS

AUSTRALIA

ABOVE GROUND OSD TANKS

RECOMMENDED SAFETY SIGNS



BASEMENT PUMP OUT FAILURE WARNING SIGN

I. SIGN SHALL BE PLACED IN A CLEAR AND VISIBLE LOCATION WHERE VEHICLES ENTER THE BASEMENT



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

TO PERSONS PROPOSING TO ENTER THE BELOW GROUND TANKS CONFINED SPACE. - MININUM DIMENSIONS OF THE SIGN - 300mm x 400mm (LARGE ENTRIES, SUCH AS DOORS) - 250mm x 100mm (SMALL ENTRIES SUCH AS GRATES & MANHOLES) 2. THE SIGN SHALL BE MANUFACTURED FRAM COLLOUR BONDED ALUMINUM OR TAULT PROFYLENE SIGNALL BE AFTIXED USING SCREWS AT EACH CORNER OF THE SIGNA

EXISTING SERVICES



ABBREVIATIONS

DOWN PIPE PROPOSED FINISHED FLOOR LEVEL PROPOSED PIT SURFACE LEVEL PROPOSED PIT INVERT LEVEL DP FFL IL PROPOSED PIT INVERT LEVE IO INSPECTION OPENING K&G KERB & GUTTER P FINISHED PAVEMENT LEVEL RCP REINFORCED CONCRETE PIPE RKG ROLL KERB & GUTTER RL FINISHED SURFACE LEVEL RWO RAINWATER DRAINAGE OUTLET RWT PROPOSED RAINWATER TANK
 KWI PROPOSED KAINWATER TAAK

 TK
 TOP OF NEW KERB LEVEL

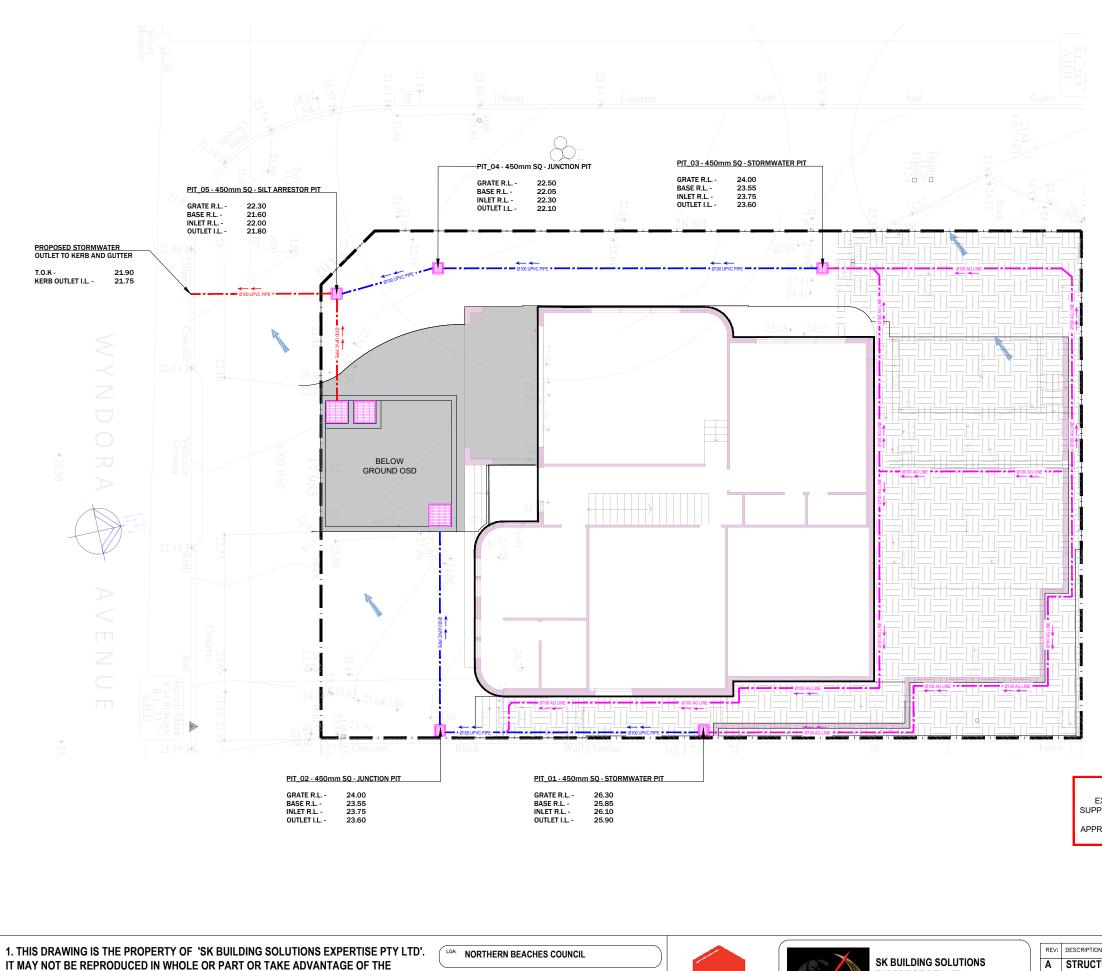
 TOW TOP OF NEW RETAINING WALL LEVEL

 TWL
 TOP OF WATER LEVEL

 UPVC RIGID PVC PIPE

 VD
 VERTICAL DROPPER

PLANS	DATE: 23/12/2024	SUBJECT SITE: 51 WYONDRA AVE, FRESHWATER)
		DRAWING TITLE: GENERAL NOTES	\bigcirc
		SCALE/ SHEET SIZE 1:100 A3 SHEET D.01)



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SERVICE ENGINEER'S AND RELEVANT SPECIFICATIONS.

DESCRIPTION: TWO STOREY DWELLING





BUILDING AND ENGINEERING |CONSULTANTS| U9/14 FRENCH AVENUE, ANKSTOWN, NSW, 2200

REV: DESCRIPTION: A STRUCTURAL DESIGN

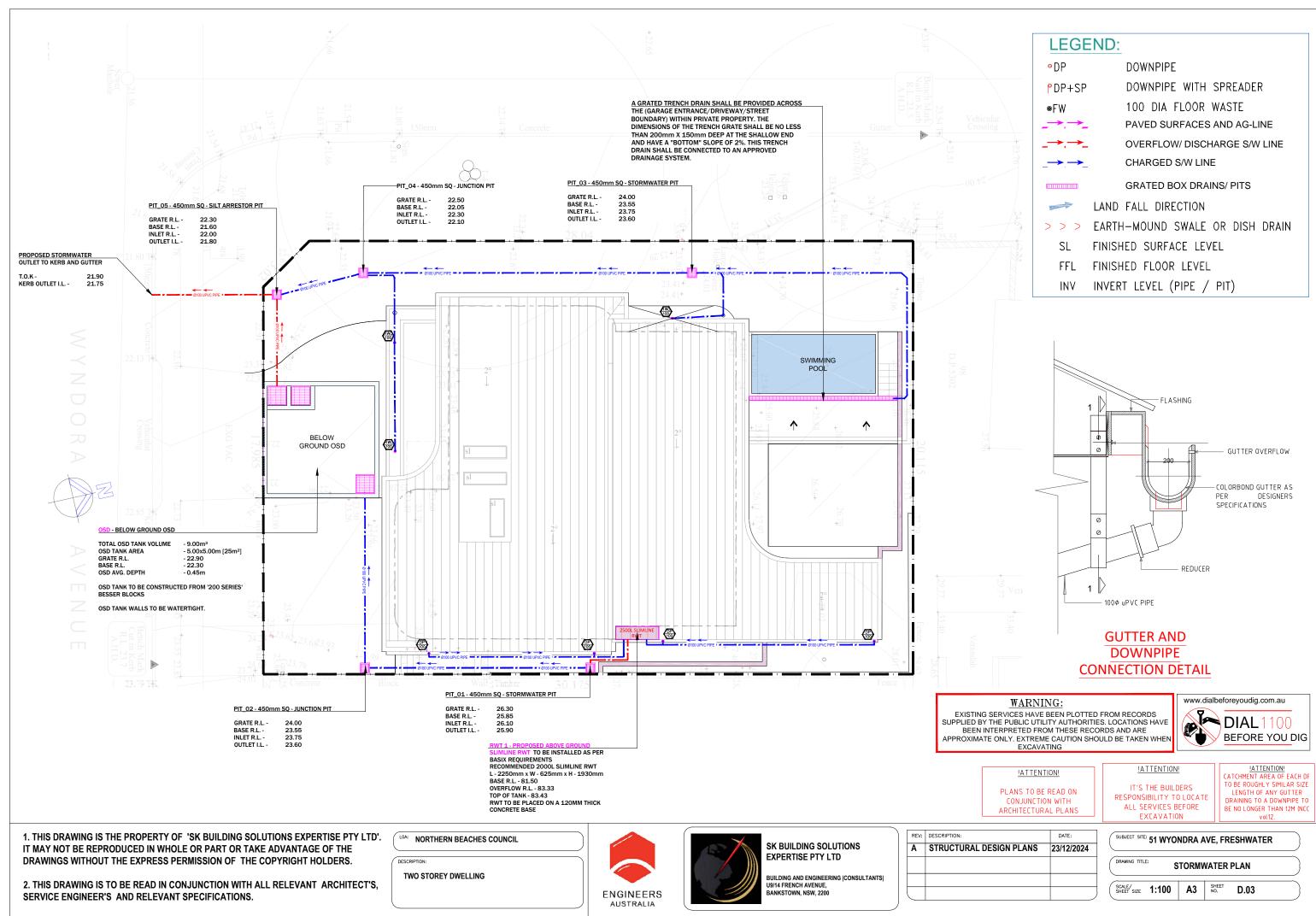
LEGE	END:
° DP	DOWNPIPE
PP+SP	DOWNPIPE WITH SPREADER
⊛FW	100 DIA FLOOR WASTE
	PAVED SURFACES AND AG-LINE
,	OVERFLOW/ DISCHARGE S/W LINE
_ → _ → _	CHARGED S/W LINE
	GRATED BOX DRAINS/ PITS
	LAND FALL DIRECTION
> > >	EARTH-MOUND SWALE OR DISH DRAIN
SL	FINISHED SURFACE LEVEL
FFL	FINISHED FLOOR LEVEL
INV	INVERT LEVEL (PIPE / PIT)

W	ΙA	F	RV	II	Ν	G:	

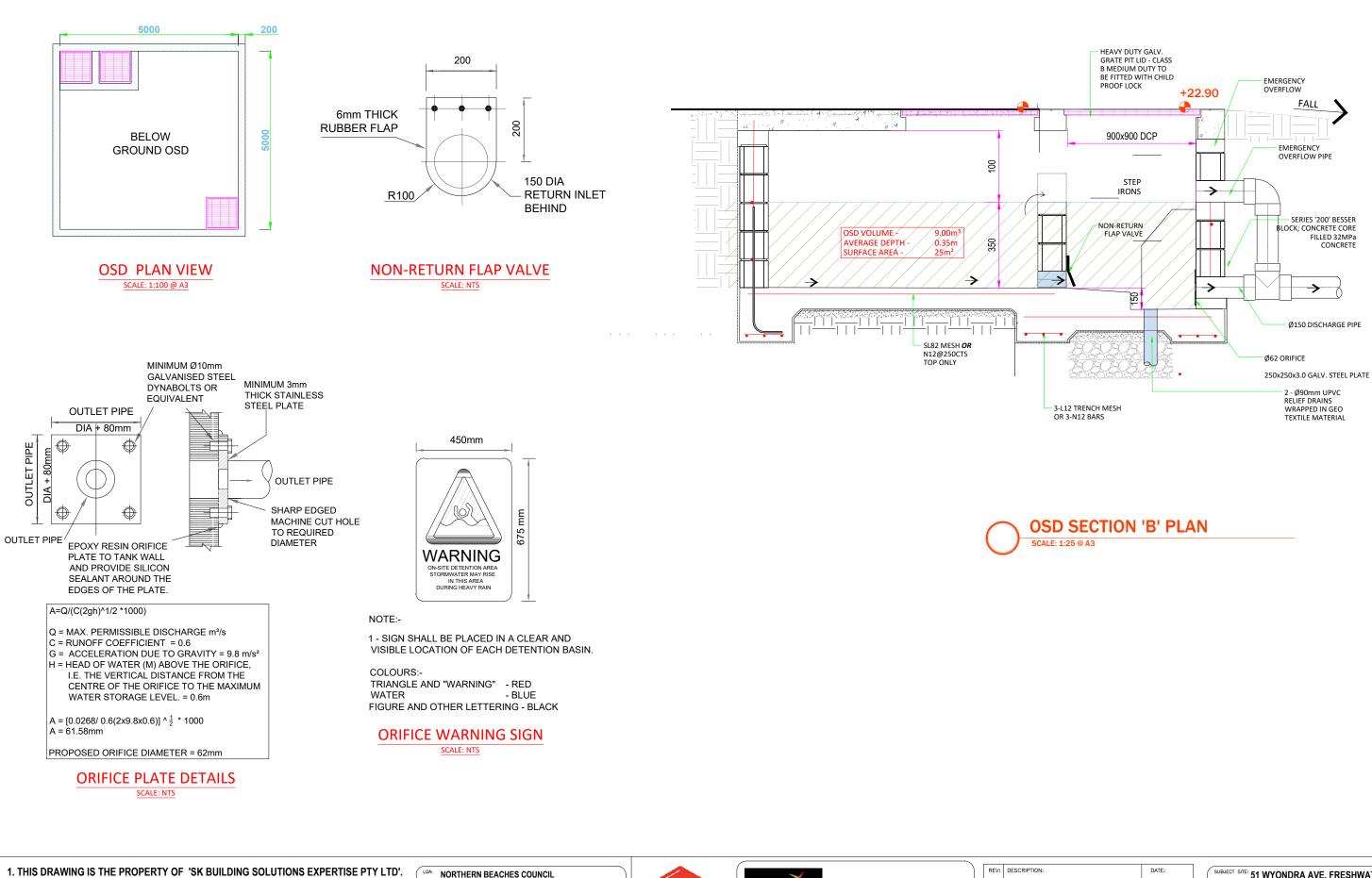
EXISTING SERVICES HAVE BEEN PLOTTED FROM RECORDS SUPPLIED BY THE PUBLIC UTILITY AUTHORITIES. LOCATIONS HAVE BEEN INTERPRETED FROM THESE RECORDS AND ARE APPROXIMATE ONLY. EXTREME CAUTION SHOULD BE TAKEN WHEN EXCAVATING



<u>ATTENTION!</u> ANS TO BE READ ON ONJUNCTION WITH HITECTURAL PLANS	IT'S THE BUILDERS IT'S THE BUILDERS RESPONSIBILITY TO LOCATE ALL SERVICES BEFORE EXCAVATION	<u>IATTENTION</u> CATCHMENT AREA OF EACH DF TO BE ROUGHLY SIMILAR SIZE LENGTH OF ANY GUTTER DRAINING TO A DOWNPIPE TO BE NO LONGER THAN 12M (NCC vol12.
DATE: PLANS 23/12/2024		



LEGE	ND:
° DP	DOWNPIPE
PDP+SP	DOWNPIPE WITH SPREADER
⊛FW	100 DIA FLOOR WASTE
$\rightarrow \rightarrow \rightarrow$	PAVED SURFACES AND AG-LINE
,	OVERFLOW/ DISCHARGE S/W LINE
	CHARGED S/W LINE
[]]]]]]]]]]]]]]]]]]]]]]]]]]]]]]]]]]]]]]	GRATED BOX DRAINS/ PITS
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> > >	EARTH-MOUND SWALE OR DISH DRAIN
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LGA: NORTHERN BEACHES COUNCIL

DESCRIPTION TWO STOREY DWELLING ENGINEERS AUSTRALIA



EXPERTISE PTY LTD BUILDING AND ENGINEERING (CONSULTANTS) U9/14 FRENCH AVENUE. KSTOWN, NSW, 2200

SK BUILDING SOLUTIONS

A STRUCTURAL DESIGN

2. THIS DRAWING IS TO BE READ IN CONJUNCTION WITH ALL RELEVANT ARCHITECT'S, SERVICE ENGINEER'S AND RELEVANT SPECIFICATIONS.

I PLANS	DATE: 23/12/2024	SUBJECT SITE: 51 WYONDRA AVE, FRESHWATER
		DRAWING TITLE: OSD TANK SECTION PLAN
		SCALE/ SHEET SIZE 1:100 A3 SHEET D.05