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RETAINING WALL DETAIL

CONSTRUCTION CERTIFICATE ONLY

-R.W. TO DETAIL

0

-NOTE 3

-NOTE 1

FLEXIBLE SEALANT-

SL82 MESH To

10mm THICK COMPRESSIBLE

(2)

1:20

FILLER MATERIAL (ABELFLEX OR SIMILAR)

SECTION

30 mm BLINDING

DOCUMENT CERTIFICATION

RETAINING WALL NOTES 1. # RIGD SLOTED UPVC SUB-SOIL PIPE WITH FILTER
SOOK (ON MIN. 0.5% FALL TO NEAREST AVAILABLE

- 2. 150mm SURROUND OF 20mm BLUE METAL OR
 - 3. GEOFABRIC SURROUND TO BE 'BIDUM' A24 FILTER FABRIC OR APPROVED EQUAL.

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- 3. GEOFABRIC SURROUND TO BE 'BIDUM' A24 FILTER
- FABRIC OR APPROVED EQUAL 4. BRICK SKINS ARE TO BE LAID IN ENGLISH OR FLEMISH
- BOND WITH HEADERS TO FORM A MASS WALL THAT IS NON-RELIANT ON WALL TIES.
- 5. BRICKS TO HAVE A MINIMUM DENSITY OF 1900 KG/m AND STRENGTH OF 20 mPa
- 6. MORTAR TO BE 1:1:6 (CEMENT:LIME:SAND) BRICK WORK TO COMPLY WITH AS 3700 SAA MASONRY

- 1. 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. Any discrepancy shall be referred to the Engineer before proceeding with the work
- During construction the structure shall be maintained in a stable condition and no part shall be overstressed. Temporary bracing shall be provided by the builder to keep the works and excavations stable at all times.
- Unless noted otherwise all levels are in meters and all dimensions are in mm.
 All work shall be in occordance with The Building Code of Australia, current relevant S.A.A. Codes and those of all Statutory Authorities having jurisdiction over the work.

- The details shown on the drawings cover the extent of the new structural work. Existing work is not included, unless noted, in the new work.

- Strip Footings 800 kPa Pod Footings 800 kPa Piers kPa Floor Slobs kPa Edge Beams to Slobs 800 kPa Ribs to Slobs kPa
- The foundation material shall be approved by the engineer for this pressure before placing reinforcement or concrete.

- Footings to be constructed and backfilled as soon as possible following excavation to avoid softening or drying out by exposure.
- Do not backfill retaining walls (other than contiever walls) until floor construction at top and bottom is completed. Ensure free draining backfill and drainage is in place.
- If rock is encountered during excavation of the footings all footings/ piers are to be excavated to similar material of greater bearing capacity.
- CONCRETE
- All workmanship and materials shall be in accordance will AS 3600
 Concrete components and quality at 28 days shall be as follows u.n.o.

Location	N	Slump (mm)	Aggregate Size (mm)	(MPa)
SLAB	32	80	20	32
BLOCK CORE FILL	20	80	10	20
FOOTINGS	25	80	20	25

4. Winimum cover for fire resistance level (FRL) shall be as follows:

Not to Scale. All Dimensions in Mills

Plan No

A4 2276/B

WARRINGAH COUNCIL

Standard

PLAN

VEHICLE CROSSING

FRONT ELEVATION

500 -

TYPICAL CROSS SECTION

	Minimum elem	ent width or thick	mess / min cover	(mm)
FRL	BEAM	SLAB	COLUMN	WALL
60	125/30	80/20	200/20	80/20
90	150/45	100/25	250/30	100/35
120	200/55	120/30	300/45	120/40
180	240/70	150/45	400/60	150/45
240	270/80	170/55	450/70	170/50

- All concrete shall be mechanically vibrated. Vibrators shall not be used to spread concrete
- 7. Sizes of concrete elements do not include thickness of applied finishes. Construction joints where not shown shall be located to approval of the engineer, all construction joints shall be scabbled over the hole face and any unsound material removed.
- No holes or chases other than those shown on the structulral drawings shall be made in concrete members without the prior approval of the engineer.
- Concrete shall be separated from supporting mosonry by 2 layers of bituminous felt or approved equivalent.
- 11. Splices in reinforcement shall be made only in the positions shown as approved by the engineer, where the lop length is not shown it shall be sufficient to develop the full strength of the reinforcement is specified in as3600, cogs and hooks shall be standard unless shown.
- 12. Splices in reinforcement shall be made only in the positions shown of as approved by the engineer, where the lap length is not shown it.
- Welding of reinforcement will not be permitted unless shown on the structural drawings or approved by the engineer.
- 13. Pipes or conduits shall not be placed within the concrete cover to reinforcement without the approval of the engineer.
- 14. Exposed corners shall be 20 mm chamfered una. All reinforcement shall be inspected by the superintendent or enginee prior to plocing concrete.
- 16. All slob concrete to be cured in an approved manner for a minimum of 7days
- Formwork used for structural members shall comply with A.S.1509 and stripping of formwork shall comply with Table 4.2 of A.S.1509.
- 18. Props may be removed after 28days of curing or after 14 days if the concrete has reached its characteristic strength (as proved by cylinder test results).
- Each floor shall be fully propped to the floor below in accordance with AS 3610 (formwork code). 20. Each floor shall be fully propped to the floor below in accordance with AS 3610 (formwork code).
- 21. All formwork and props for slobs and beams shall be removed before construction of any masonry walls or partitions on the floor. REINFORCEMENT
- 2. All reinforcement specified is Grade D500 U.N.O.

PROPOSED SUBDIVISION

93 PARKES ROAD

- Reinforcement is represented diagrammatically, it is not necessarily shown in true projection.
- Reinforcement spices and construction joints shall not be relocated or added without the Engineers approval. Spices in reinforcement are to develop the six strength of the bor being spicial and standard hooks and copt(A.S.MOO) shall be adopted U.N.D. Reinforcement shall be securely tied at all lops and intersections with 1.25mm anneaded wire.

- stee to tree corrections shall note less tinch 2 commercia bosts 4.9/3.

 8.01 DESDAND to 8.51252 is or follows:

 4.6/3-Commercial boths of grade 4.5 to 4.51111 tightened to a snug tight fit.
 6.5/3-High Strength Botts in stead any Light.
 6.5/7-High Strength Botts in terror grade.
 6.5/7-High Strength Botts in 16-ton grade mode.
 Attention is drawn to the use of Hord Grade weathers with High Strength botts.
 At exposed boths are to be glorinated U.N.O.
 - 5. U.N.O. seal all tubes with 5mm plate and continuous filet weld.

All workmonship and materials shall be in accordance with AS4100. Steel shall comply with A.S.1204 and hollow sections shall be manufactured to A.S.1183 Grade 350, U.N.O.

All wids shall be 6 mm continuous filet type sp una, butt wids where indicated on the drawings shall be complete penetration welds as defined in ASISSA1.14 butt wids and oil fillet welds 8mm and over shall be Category All welding shall use E41XX electrodes.

Unless noted otherwise all boits shall be M20 Grade 8.8/S and no steel to steel connections shall have less than 2 commercial bolts 4.6/S.

- Two copies of shop drawings are to be approved by the Engineer prior to the commencement of fabrication.
- Steelwork below ground shall have 75mm concrete encosing with FGW41 wrapping centrally paced.
- 8. U.N.O. beams and linkels to bear a minimum of 230mm on brickwork on a bed of 12mm of 2:1 sand / cement morter. All steel beams to have 10mm stiffener plate at each bearing location U.N.O.
- The contractor shall provide temporary bracing as is necessary to stabilise the structure during erection.
- 10. The contractor shall provide all cleats and drill all holes necessary for fixing steel to steel and timber to steel whether or not detailed in the drawings.
- 11. U.N.O. all stellwork shall be thoroughly cleaned of rust, scale and grease and shall have one cost of red acide zinc chromate primer except for concrete encosed stellwork, glovinides stellwork, and moting stell surfaces connected together with £8/IT botts. Priming is to be touched up on completion of erection. All exposed stellwork and external inless shall be golvenised.

- All workmanship and materials shall be in accordance with AS 3700.
- Clay building bricks shall have a minimum compressive strength of 30MPa to A.S.1225, and concrete masonry units shall be Grade 12 units to A.S.2733.
- Non load bearing walls shall be separated from concrete above by 20 mm thick closed cell polyethylene strip.
- All masonry walls supporting slabs and beams shall have a pre-greased two layer galvanised steel slip joint between concrete and masonry.
- All masonry walls supporting or supported by concrete floors shall be provided with vertical joints to match any control joints in the concrete.
- In all masonry, provide joint reinforcement and bond beams in occordance with AS.3700 and the masonry unit manufacturer recommendations.
- In reinforced mosonry, grout shall have a minimum compressive strength (F'c)
 of 12MPa with a minimum cement content of 300kg/m3 and sufficient water
 to provide a pouring consistency that will enable the cores and covities to be
 completely filled.
- 9. All cavities in masonry below ground are to be filled with mortar or grout. Cleanout and inspection openings are to be provided at the base of all reinforced and grouted covities and cores. Bed joints and perpends in reinformasonry are to be full width and shall not be roked.

TIMBER

- TIMER

 1. All swimmarbip and materials shall be in occardance with AS 1684.

 2. All inher members not nominated shall conform to the req. of AS 1684.

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 4. All Exposed timber to be CCA treated (in AS 1604) leaded either All LINCA.

 5. All pists desper than 150mm to how blocking over support bearers at a mox. 300 CTS.

 6. Roof busees to be despited by the manufacture to the relevant standards.

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 7. oil holds for both to be one make the conformation (LINC)

 7. oil holds for both to be conformative. Whether to be used under all heads and rults and to be at least 25 times the both diameter. Both to be min M16 grode 4.6. (LINC)

 8. freet all exposed out ends to onlive H3 Exposure Classification.

- Only to be used with Engineers approval and to be certified by Geotechnica
- 2. Clear arganic material and toosail under proposed slob/factings
- Filling shall be granular material compocted in not more than 100mm layers to a minimum dry density ratio (AS 1289/E4 2 1982) of 98 percent.
- During cleaning and Excavation for slob and feetings cut out soft spots and fill as above.

SUBGRADE PREPARATION FOR CONCRETE PAVEMENTS

1001101	MINMUM DRY DENSITY RATIO STD COMPACTION TO AS1289.5.11	MIN. DENSITY INDE TO AS1289.5.6.1
UNDER BUILDING SUPPORTING FLOOR LOADS < 20kPe OR PAD OR STRIP FOOTINGS < 100kPe	sex sto	BOX
UNDER BUILDING SUPPORTING FLOOR LGADS > 204Pe OR PAD OR STRIP FOOTINGS > 1004Pe	100X STD	80%
UNDER EXTERNAL NON-VEHICULAR PAVEMENTS, FILL TO SUPPORT PAVEMENTS (CONTENT TO SOCIAL)	DES STD	70%

TESTING SHALL BE CARRED OUT AT THE CONTRACTOR'S EXPENSE BY ORGANISATION ACCREDITED BY JAS-ANZ. LEVEL 0. RESPONGIBILITY TO ASSTREE APPENDIX B. UNDER BUILDING PLATFORMS. UNDER EXTENDIAL NON-VEHICLAR TRAFFICABLE PAWNG — LEVEL 1.

BOX

INSPECTIONS BY ENGINEER

- 48 hours notice required before any site inspection

 1. Bearing strata of all footings prior to concrete pour
- 2. Any reinforcement prior to concrete pour
- Timber and steel framing prior to cladding or lining
 Steel lintels after installation

DATE:	17/06/21	SCALE:	AS	N
20	MIZ	100115		_

IOTED DRAWN: MK ISSUE: COLLAROY NSW 2100 LOT 14, DP 12832 DRAWING Nr SHEET: 17040

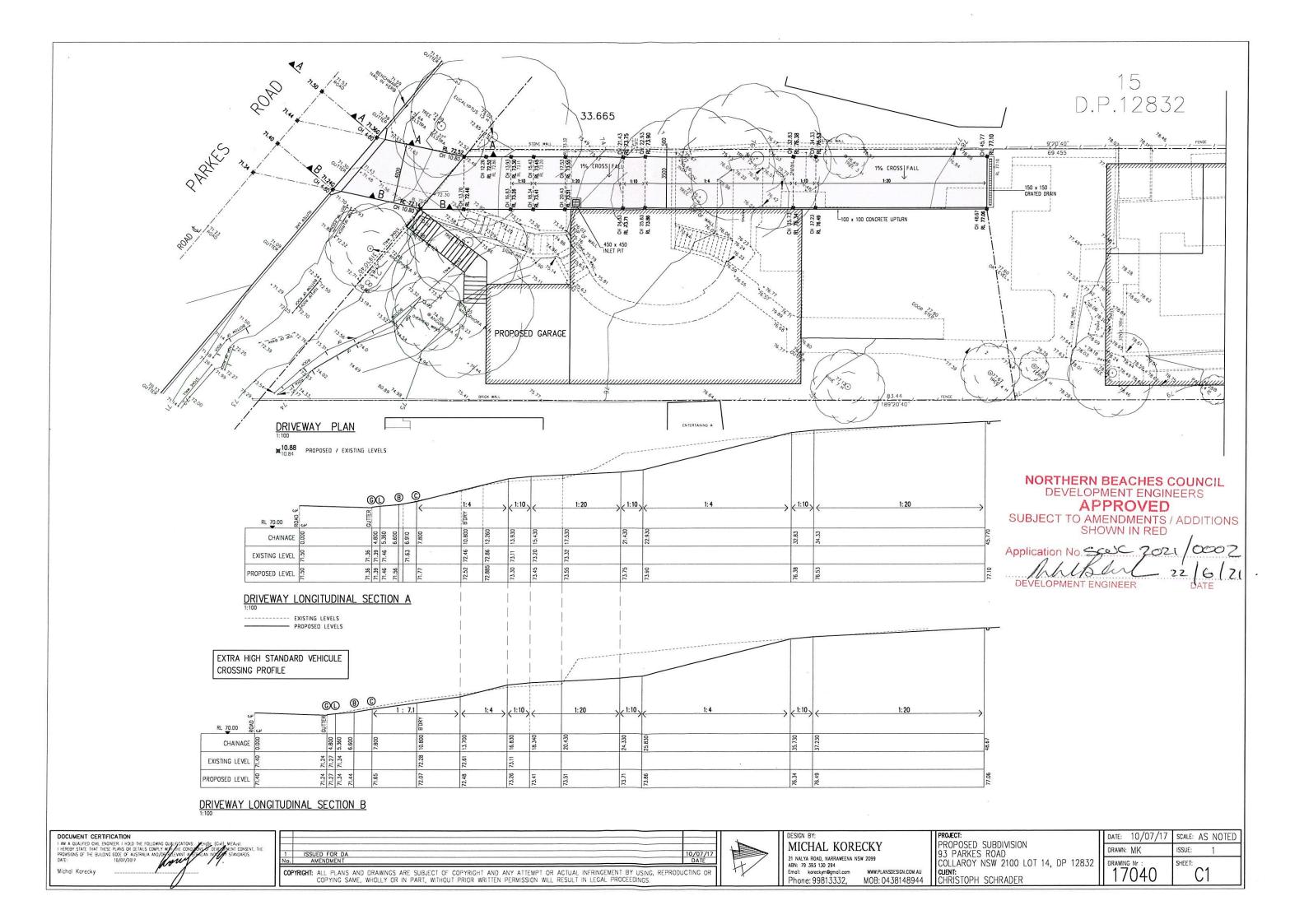
DESIGN BY MICHAL KORECKY

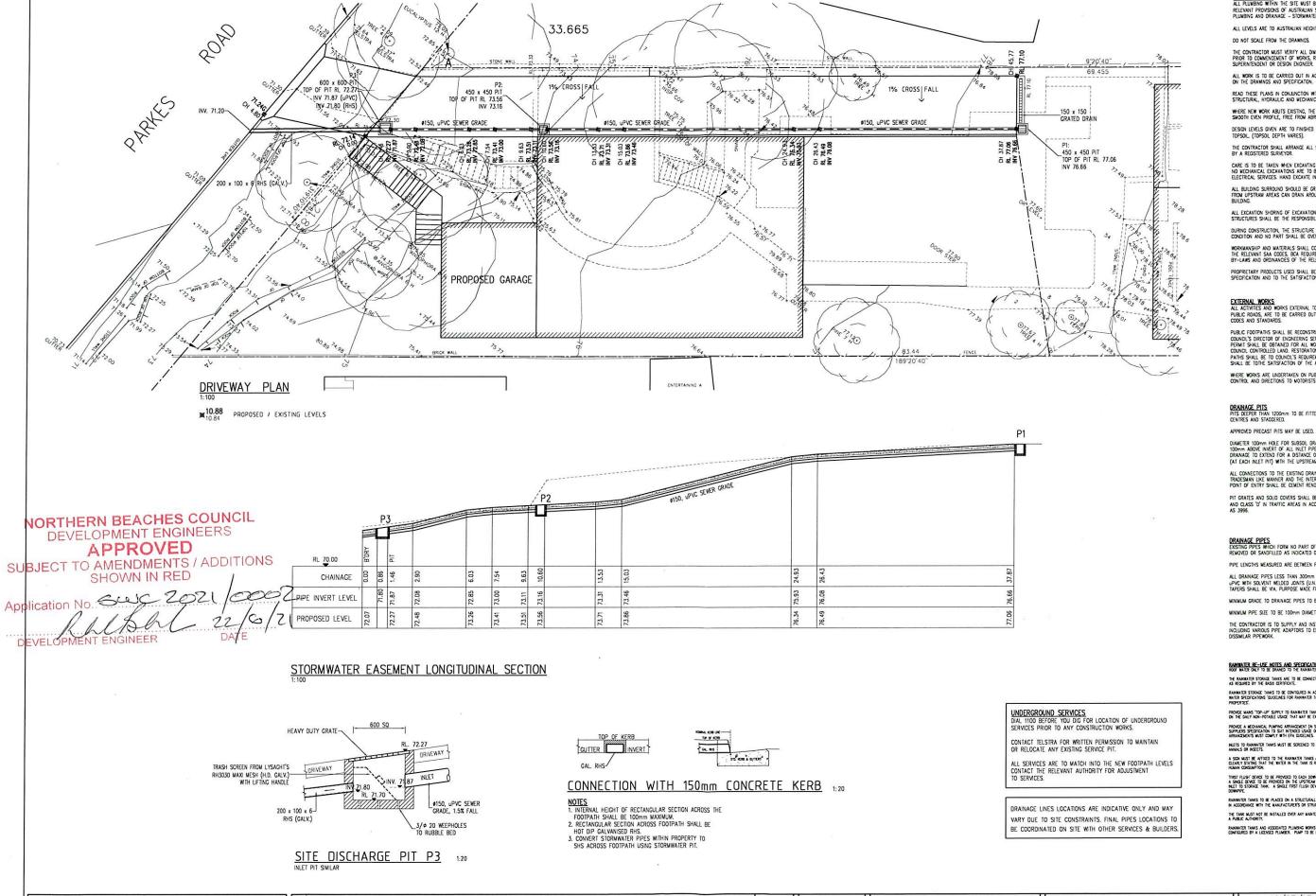
21 NALYA ROAD, NARRAWEENA NSW 2099 Phone: 99813332.

MOB: 0438148944

CLIENT: CHRISTOPH SCHRADER

PROJECT:





GENERAL NOTES
ALL PLUMBNO WITHIN THE SITE MUST BE CARRIED OUT IN ACCORDANCE WITH
RELEVANT PROVISONS OF AUSTRALIAN STANDARD AS/NZS 3500.3-2003
PLUMBNG AND DRAINAGE - STORWMATER DRAINAGE.

ALL LEVELS ARE TO AUSTRALIAN HEIGHT DATUM. (AHD)

DO NOT SCALE FROM THE DRAWNGS.

THE CONTRACTOR MUST VERFY ALL DIMENSONS AND EXISTING LEVELS ON SITE PRIOR TO COMMENCEMENT OF WORKS, REPORT ANY DISCREPANCES TO THE SUPERINTENDENT OR DESIGN ENGINEER.

ALL WORK IS TO BE CARRIED OUT IN ACCORDANCE WITH THE DETAILS SHOWN ON THE DRAWINGS AND SPECIFICATION.

READ THESE PLANS IN CONJUNCTION WITH APPROVED ARCHITECTURAL, STRUCTURAL, HYDRAULIC AND WECHANICAL DRAWINGS AND SPECIFICATION.

WHERE NEW WORK ABUTS EXISTING, THE CONTRACTOR SHALL ENSURE THAT A SMOOTH EVEN PROFILE, FREE FROM ABRUPT CHANGES, IS OBTAINED.

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 REGISTERED SURVEYOR.

CARE IS TO BE TAKEN WHEN EXCAVTING NEAR EXISTING SERVICES. NO NECHANICAL EXCAVATIONS ARE TO BE UNDERTAKEN OVER TELECOM OR ELECTRICAL SERVICES. HAND EXCAVTE IN THESE AREAS.

ALL EXCAVTION SHORING OF EXCAVATION ANS STABILITY OF ADJACENT STRUCTURES SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR.

DURING CONSTRUCTION, THE STRUCTURE SHALL BE MAINTAINED IN A STABLE CONDITION AND NO PART SHALL BE OVERSTRESSED.

PROPRETARY PRODUCTS USED SHALL BE INSTALLED TO MANUFACTURERS SPECIFICATION AND TO THE SATISFACTION OF THE SUPERINTENDENT.

EXTERNAL WORKS
ALL ACTIVITIES AND WORKS EXTERNAL TO THE SITE, OR THAT AFFECT
PUBLIC ROADS, ARE TO BE CARRED OUT IN ACCORDANCE WITH COUNCIL'S
CODES AND STANDARDS.

PUBLIC FOOIPATHS SHALL BE RECONSTRUCTED TO THE SATISFACTION OF COUNCIS DRECTOR OF ENDINERNO SERVICES. A ROAD OFDINIO PERMIT SHALL BE ORIGINATED FOR ALL WORKS CARRED OUT IN A PUBLIC OR COUNCIL CONTROLLED LAND. RESTORATION OF LANDSCAPINE, ROADS AND PATHS SHALL BE TO COUNCIS REQUIREMENTS. ALL OTHER RESTORATION SHALL BE TOTHE SATISFACTION OF THE AFFECTED PARTIES.

WHERE WORKS ARE UNDERTAKEN ON PUBLIC ROADS, ADEQUATE TRAFFIC CONTROL AND DIRECTIONS TO MOTORISTS SHALL BE PROMOED.

DRAINAGE PITS
PITS DEEPER THAN 1200mm TO BE FITTED WITH STEP IRONS AT 300mm
CENTRES AND STAGGERED.

DIAMETER 100mm HOLE FOR SUBSOIL DRAINAGE OUTLET TO BE LOCATED 100mm ABOVE INVERT OF ALL INLET PIPES DIAMETER 100mm SUBSOIL DRAINAGE TO EXTEND FOR A DISTANCE OF 3.0m UPSTREAM OF PIT (AT EACH INLET PIT) WITH THE UPSTREAM END SCALED.

PIT GRATES AND SOULD COVERS SHALL BE CLASS 'B' IN NON TRAFFIC AREAS AND CLASS 'D' IN TRAFFIC AREAS IN ACCORDANCE WITH AS 3996.

DRAINAGE PIPES
EXISTING PIPES WHICH FORM NO PART OF THE DRAINAGE SYSTEM SHALL BE REMOVED OR SANDFILLED AS INDICATED ON THE PLANS.

PIPE LENGTHS MEASURED ARE BETWEEN PLT CENTRES.

ALL DRAINAGE PIPES LESS THAN JOOMM DIANETER SHALL BE SEWER GRADE UPIC WITH SOLVENT WELDED JOINTS (U.N.C.). ALL PIPE JUNCTIONS AND TAPERS SHALL BE VIA. PURPOSE WADE FITTINGS.

MINIMUM CRADE TO DRAINAGE PIPES TO BE 15% U.N.O.

MINIMUM PIPE SIZE TO BE 100mm DIAMETER U.N.O.

THE CONTRACTOR IS TO SUPPLY AND INSTALL ALL FITTINGS AND SPECIALS INCLUDING VARIOUS PIPE ADAPTORS TO ENSURE PROPER CONNECTION BETWEEN DISSIMILAR PIPEWORK.

RANNATER RE-USE NOTES AND SPECIFICATIONS. ROOF BATER ONLY TO BE DRANED TO THE RANNATER STORAGE TANKS.

THE RANKATER STORAGE TANKS ARE TO BE CONNECTED FOR RE-USE AS REQUIRED BY THE BASIX CERTIFICATE. RANMATER STORAGE TANKS TO BE CONFIGURED IN ACCORDANCE WITH STONEY MATER SPECIFICATIONS 'QUIDLINES FOR RANMATER TANKS ON RESIDENTIAL PROPERTIES.'

PROVIDE MAINS "TOP-UP" SUPPLY TO RANKATER TANKS. MAINS TOP-UP ZONE TO BE BASED ON THE DAILY NON-POTABLE USAGE THAT MAY BE EXPECTED FROM THE TANK.

PROVIDE A MECHANICAL PUMPING ARRANQUIENT (IN SOUND-PROOF HOUSING) TO PUMP SUPPLIES SPECIFICATION TO SUIT INTENDED USAGE OF RANNATER STORAGE, PLIMPING ARRANQUIENTS MUST COMPLY WITH EPA QUIDELINES

INLETS TO RANMATER TANKS MUST BE SCREENED TO PREVENT THE ENTRY OF FOREIGN MATTER, ANNALS OR INSECTS. A SION MUST BE AFFIXED TO THE RANNAMER TANKS AND HOSE TAPS AS PER ASSISTANT DEFAULT STATING THAT THE MATER IN THE TANK IS RANNAMER AND IS NOT TO BE USED FOR HIMAN CONSTRUCTION.

THEST FLUSH DEVICE TO BE PROVIDED TO EACH DOMAPPE OR IF PRETERRED.
A SINGLE DEVICE TO BE PROVIDED ON THE LIPSTREAM SOE OF STORAGE TANK FOR EACH PIPED.
NILET TO STORAGE TANK. A SINGLE FIRST FLUSH DEVICE MAY BE PROVIDED IN LIEU OF EACH
PROMISSION.

THE TANK MUST NOT BE INSTALLED OVER ANY MAINTENANCE STRUCTURE OR FITTINGS USED BY A PUBLIC AUTHORITY.

RANNATER TANKS AND ASSOCIATED PLUMBING MORKS TO BE INSTALLED AND CONFIGURED BY A LICENSED PLUMBER. PLMP TO BE INSTALLED BY A LICENSED ELECTRICAL

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MICHAL KORECKY

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WWW.PLANSDESIGN.COM.AU MOB: 0438148944

PROPOSED SUBDIVISION 93 PARKES ROAD COLLAROY NSW 2100 LOT 14, DP 12832 CLIENT: CHRISTOPH SCHRADER

T	DATE: 10/07/17	SCALE: AS NOTED
1	DRAWN: MK	ISSUE: 1
	17040	EAS-1