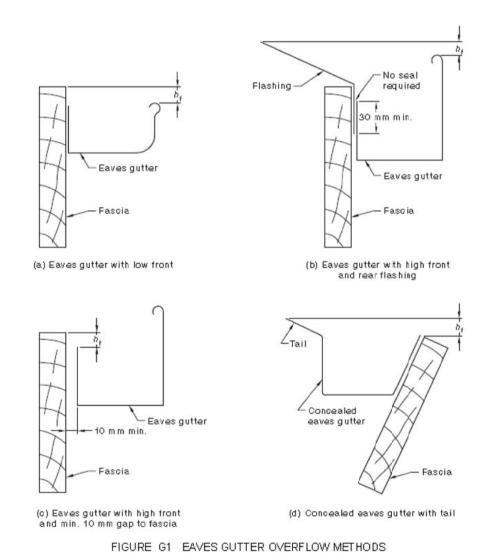


VERTICAL DOWN PIPE =

DP HIGH POINT = HP



SUBCATCHMENT AREAS FOR GUTTERS & DOWNPIPES (ARI 20 YEARS) SUB-CATCHMENT **VERTICAL** PLAN AREA CATCHMENT UTTER CROSS-SECT DOWNPIPE DP CROSS-SECT AREA (m2) AREA (mm2) 25.1 28.4 8200 Ø100 OR 100 x 75 Ø100 OR 100 x 75 25.1 28.4 8200 27.5 32.7 8200 Ø100 OR 100 x 75 27.5 32.7 8200 Ø100 OR 100 x 75 30.6 39.8 8200 Ø100 OR 100 x 75 10.2 14.0 8200 Ø100 OR 100 x 75 36.7 41.5 8200 Ø100 OR 100 x 75 20.0 22.6 8200 Ø100 OR 100 x 75 28.1 31.8 8200 Ø100 OR 100 x 75 Ø100 OR 100 x 7 37.9 42.8 8200 37.9 42.8 8200 Ø100 OR 100 x 7 30.5 34.5 8200 Ø100 OR 100 x 75 36.0 40.5 8200 Ø100 OR 100 x 75

DOWNPIPES CROSS-SECTION TO BE AS PER TABLE ABOVE.

ALL PIPES INCL. DOWN PIPES SHALL BE SEWER GRADE uPVC WITH SOLVENT WELDED JOINTS (U.N.O.).

<u>UNDERGROUND SERVICES</u> DIAL 1100 BEFORE YOU DIG FOR LOCATION OF UNDERGROUND SERVICES PRIOR TO ANY CONSTRUCTION WORKS.

CONTACT TELSTRA FOR WRITTEN PERMISSION TO MAINTAIN OR RELOCATE ANY EXISTING SERVICE PIT.

ALL SERVICES ARE TO MATCH INTO THE NEW FOOTPATH LEVELS CONTACT THE RELEVANT AUTHORITY FOR ADJUSTMENT TO SERVICES.

THIS STORMWATER MANAGEMENT PLAN IS SUBJECT TO NORTHERN BEACHES COUNCIL APPROVAL

EXISTING STORMWATER SYSTEM TO BE REMOVED

DRAINAGE LINES LOCATIONS ARE INDICATIVE ONLY AND MAY VARY DUE TO SITE CONSTRAINTS. FINAL PIPES LOCATIONS TO BE COORDINATED ON SITE WITH OTHER SERVICES & BUILDERS.

LEAF GUARDS

TO BE INSTALED TO EACH DOWN PIPE

EAVES GUTTER SPECIFICATION.

EAVES GUTTER GRADIENTS TO BE 1:500 OR GREATER. EAVES GUTTER TO HAVE AN EFFECTIVE CROSS SECTIONAL AREA AS PER TABLE ABOVE.

FASCIA TO BE A MINIMUM OF 14mm ABOVE GUTTER OVERFLOW.

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

APPROVED PRECAST PITS MAY BE USED.

GENERAL NOTES

ALL PLUMBING WITHIN THE SITE MUST BE CARRIED OUT IN ACCORDANCE WITH RELEVANT PROVISIONS OF AUSTRALIAN STANDARD AS/NZS 3500.3-2018

THE CONTRACTOR MUST VERIFY ALL DIMENSIONS AND EXISTING LEVELS ON SITE PRIOR TO COMMENCEMENT OF WORKS, REPORT ANY DISCREPANCIES TO THE

ALL WORK IS TO BE CARRIED OUT IN ACCORDANCE WITH THE DETAILS SHOWN

READ THESE PLANS IN CONJUNCTION WITH APPROVED ARCHITECTURAL,

WHERE NEW WORK ABUTS EXISTING. THE CONTRACTOR SHALL ENSURE THAT A

DESIGN LEVELS GIVEN ARE TO FINISHED SURFACE LEVEL AND INCLUSIVE OF

THE CONTRACTOR SHALL ARRANGE ALL SURVEY SETOUT TO BE CARRIED OUT

NO MECHANICAL EXCAVATIONS ARE TO BE UNDERTAKEN OVER TELECOM OR

ALL BUILDING SURROUND SHOULD BE GRADED TO ENSURE OVERLAND FLOW FROM UPSTRAM AREAS CAN DRAIN AROUND THE FOUNDATIONS, WALLS OF

ALL EXCAVTION SHORING OF EXCAVATION ANS STABILITY OF ADJACENT

DURING CONSTRUCTION, THE STRUCTURE SHALL BE MAINTAINED IN A STABLE

WORKMANSHIP AND MATERIALS SHALL CONFORM WITH THE REQUIREMENTS OF

THE RELEVANT SAA CODES, BCA REQUIREMENTS AND THE SPECIFICATION,

PROPRIETARY PRODUCTS USED SHALL BE INSTALLED TO MANUFACTURERS

PUBLIC ROADS, ARE TO BE CARRIED OUT IN ACCORDANCE WITH COUNCIL'S

PUBLIC FOOTPATHS SHALL BE RECONSTRUCTED TO THE SATISFACTION OF

PERMIT SHALL BE OBTAINED FOR ALL WORKS CARRIED OUT IN A PUBLIC OR COUNCIL CONTROLLED LAND. RESTORATION OF LANDSCAPING, ROADS AND PATHS SHALL BE TO COUNCIL'S REQUIREMENTS. ALL OTHER RESTORATION

WHERE WORKS ARE UNDERTAKEN ON PUBLIC ROADS. ADEQUATE TRAFFIC

STRUCTURAL, HYDRAULIC AND MECHANICAL DRAWINGS AND SPECIFICATION.

SMOOTH EVEN PROFILE, FREE FROM ABRUPT CHANGES, IS OBTAINED.

CARE IS TO BE TAKEN WHEN EXCAVTING NEAR EXISTING SERVICES.

STRUCTURES SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR.

ELECTRICAL SERVICES. HAND EXCAVTE IN THESE AREAS.

CONDITION AND NO PART SHALL BE OVERSTRESSED.

BY-LAWS AND ORDINANCIES OF THE RELEVANT AUTHORITIES.

SPECIFICATION AND TO THE SATISFACTION OF THE SUPERINTENDENT.

ALL ACTIVITIES AND WORKS EXTERNAL TO THE SITE, OR THAT AFFECT

COUNCIL'S DIRECTOR OF ENGINEERING SERVICES. A ROAD OPENING

SHALL BE TOTHE SATISFACTION OF THE AFFECTED PARTIES.

CONTROL AND DIRECTIONS TO MOTORISTS SHALL BE PROVIDED.

PLUMBING AND DRAINAGE - STORMWATER DRAINAGE.

DO NOT SCALE FROM THE DRAWINGS.

SUPERINTENDENT OR DESIGN ENGINEER.

ON THE DRAWINGS AND SPECIFICATION.

TOPSOIL. (TOPSOIL DEPTH VARIES).

BY A REGISTERED SURVEYOR.

BUILDING.

EXTERNAL WORKS

CODES AND STANDARDS.

ALL LEVELS ARE TO AUSTRALIAN HEIGHT DATUM. (AHD)

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 SEALED.

ALL CONNECTIONS TO THE EXISTING DRAINAGE PITS SHALL BE MADE IN A TRADESMAN LIKE MANNER AND THE INTERNAL WALLL OF THE PIT AT THE POINT OF ENTRY SHALL BE CEMENT RENDERED TO ENSURE A SMOOTH FINISH.

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

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 PIT CENTRES.

ALL DRAINAGE PIPES LESS THAN 300mm DIAMETER SHALL BE SEWER GRADE upvc with solvent welded joints (u.n.o.). All pipe junctions and TAPERS SHALL BE VIA. PURPOSE MADE FITTINGS.

MINIMUM GRADE TO DRAINAGE PIPES TO BE 1.5% 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.

RAINWATER RE-USE NOTES AND SPECIFICATIONS
ROOF WATER ONLY TO BE DRAINED TO THE RAINWATER STORAGE TANKS.

THE RAINWATER STORAGE TANKS ARE TO BE CONNECTED FOR RE—USE AS REQUIRED BY THE BASIX CERTIFICATE.

RAINWATER STORAGE TANKS TO BE CONFIGURED IN ACCORDANCE WITH SYDNEY WATER SPECIFICATIONS 'GUIDELINES FOR RAINWATER TANKS ON RESIDENTIAL

PROVIDE MAINS 'TOP-UP' SUPPLY TO RAINWATER TANKS. MAINS TOP-UP ZONE TO BE BASED

PROVIDE A MECHANICAL PUMPING ARRANGEMENT (IN SOUND-PROOF HOUSING) TO PUMP SUPPLIERS SPECIFICATION TO SUIT INTENDED USAGE OF RAINWATER STORAGE. PUMPING ARRANGEMENTS MUST COMPLY WITH EPA GUIDELINES.

INLETS TO RAINWATER TANKS MUST BE SCREENED TO PREVENT THE ENTRY OF FOREIGN MATTER,

A SIGN MUST BE AFFIXED TO THE RAINWATER TANKS AND HOSE TAPS AS PER AS3500.1 CLEARLY STATING THAT THE WATER IN THE TANK IS RAINWATER AND IS NOT TO BE USED FOR HUMAN CONSUMPTION.

'FIRST FLUSH' DEVICE TO BE PROVIDED TO EACH DOWNPIPE OR IF PREFERRED A SINGLE DEVICE TO BE PROVIDED ON THE UPSTREAM SIDE OF STORAGE TANK FOR EACH PIPED INLET TO STORAGE TANK. A SINGLE FIRST FLUSH DEVICE MAY BE PROVIDED IN LIEU OF EACH RAINWATER TANKS TO BE PLACED ON A STRUCTURALLY ADEQUATE BASE

IN ACCORDANCE WITH THE MANUFACTURER'S OR STRUCTURAL ENGINEER'S DETAILS. THE TANK MUST NOT BE INSTALLED OVER ANY MAINTENANCE STRUCTURE OR FITTINGS USED BY

RAINWATER TANKS AND ASSOCIATED PLUMBING WORKS TO BE INSTALLED AND CONFIGURED BY A LICENSED PLUMBER. PUMP TO BE INSTALLED BY A LICENSED ELECTRICIAN.

DOCUMENT CERTIFICATION I AM A QUALIFIED CIVIL ENGINEER. I HOLD THE FOLLOWING QUALIFICATIONS: MEngSc (Civil) MIEAUST.
I HEREBY STATE THAT THESE PLANS OR DETAILS COMPLY WITH THE CONDITIONS OF DEVELOPMENT CONSENT, THE PROVISIONS OF THE BUILDING CODE OF AUSTRALIA AND/OR PELEVANT AUSTRALIAN INDUSTRY STANDARDS. DATE: 18/12/2020 Michal Korecky

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SCALE: AS NOTED DRAWN: MK ISSUE: DRAWING Nr