

DATE: 13/03/20 SCALE: AS NOTED

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GENERAL NOTES

ALL PLUMBING WITHIN THE SITE MUST BE CARRIED OUT IN ACCORDANCE WITH RELEVANT PROVISIONS OF AUSTRALIAN STANDARD AS/NZS 3500.3-2003

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,

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

CARE IS TO BE TAKEN WHEN EXCAVTING NEAR EXISTING SERVICES.

ELECTRICAL SERVICES. HAND EXCAVTE IN THESE AREAS.

CONDITION AND NO PART SHALL BE OVERSTRESSED.

STRUCTURAL, HYDRAULIC AND MECHANICAL DRAWINGS AND SPECIFICATION.

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

SPECIFICATION AND TO THE SATISFACTION OF THE SUPERINTENDENT.

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

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

PITS DEEPER THAN 1200mm TO BE FITTED WITH STEP IRONS AT 300mm

DIAMETER 100mm HOLE FOR SUBSOIL DRAINAGE OUTLET TO BE LOCATED

ALL CONNECTIONS TO THE EXISTING DRAINAGE PITS SHALL BE MADE IN A

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

EXISTING PIPES WHICH FORM NO PART OF THE DRAINAGE SYSTEM SHALL BE

ALL DRAINAGE PIPES LESS THAN 300mm DIAMETER SHALL BE SEWER GRADE

upvc with solvent welded joints (u.n.o.). All pipe junctions and

THE CONTRACTOR IS TO SUPPLY AND INSTALL ALL FITTINGS AND SPECIALS

INCLUDING VARIOUS PIPE ADAPTORS TO ENSURE PROPER CONNECTION BETWEEN

TRADESMAN LIKE MANNER AND THE INTERNAL WALLL OF THE PIT AT THE

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.

AND CLASS 'D' IN TRAFFIC AREAS IN ACCORDANCE WITH

REMOVED OR SANDFILLED AS INDICATED ON THE PLANS.

PIPE LENGTHS MEASURED ARE BETWEEN PIT CENTRES.

TAPERS SHALL BE VIA. PURPOSE MADE FITTINGS.

MINIMUM GRADE TO DRAINAGE PIPES TO BE 1.5% U.N.O.

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

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 ON THE DAILY NON-POTABLE USAGE THAT MAY BE EXPECTED FROM THE TANK.

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

CLEARLY STATING THAT THE WATER IN THE TANK IS RAINWATER AND IS NOT TO BE USED FOR

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

THE TANK MUST NOT BE INSTALLED OVER ANY MAINTENANCE STRUCTURE OR FITTINGS USED BY

CONFIGURED BY A LICENSED PLUMBER. PUMP TO BE INSTALLED BY A LICENSED ELECTRICIAN.

PROVIDE A MECHANICAL PUMPING ARRANGEMENT (IN SOUND-PROOF HOUSING) TO PUMP

SUPPLIERS SPECIFICATION TO SUIT INTENDED USAGE OF RAINWATER STORAGE. PUMPING

A SIGN MUST BE AFFIXED TO THE RAINWATER TANKS AND HOSE TAPS AS PER AS3500.

'FIRST FLUSH' DEVICE TO BE PROVIDED TO EACH DOWNPIPE OR IF PREFERRED

RAINWATER TANKS AND ASSOCIATED PLUMBING WORKS TO BE INSTALLED AND

RAINWATER TANKS TO BE PLACED ON A STRUCTURALLY ADEQUATE BASE IN ACCORDANCE WITH THE MANUFACTURER'S OR STRUCTURAL ENGINEER'S DETAILS.

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

DISSIMILAR PIPEWORK.

AS REQUIRED BY THE BASIX CERTIFICATE.

ARRANGEMENTS MUST COMPLY WITH EPA GUIDELINES.

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.

STRUCTURES SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR.

BY-LAWS AND ORDINANCIES OF THE RELEVANT AUTHORITIES.

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

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.

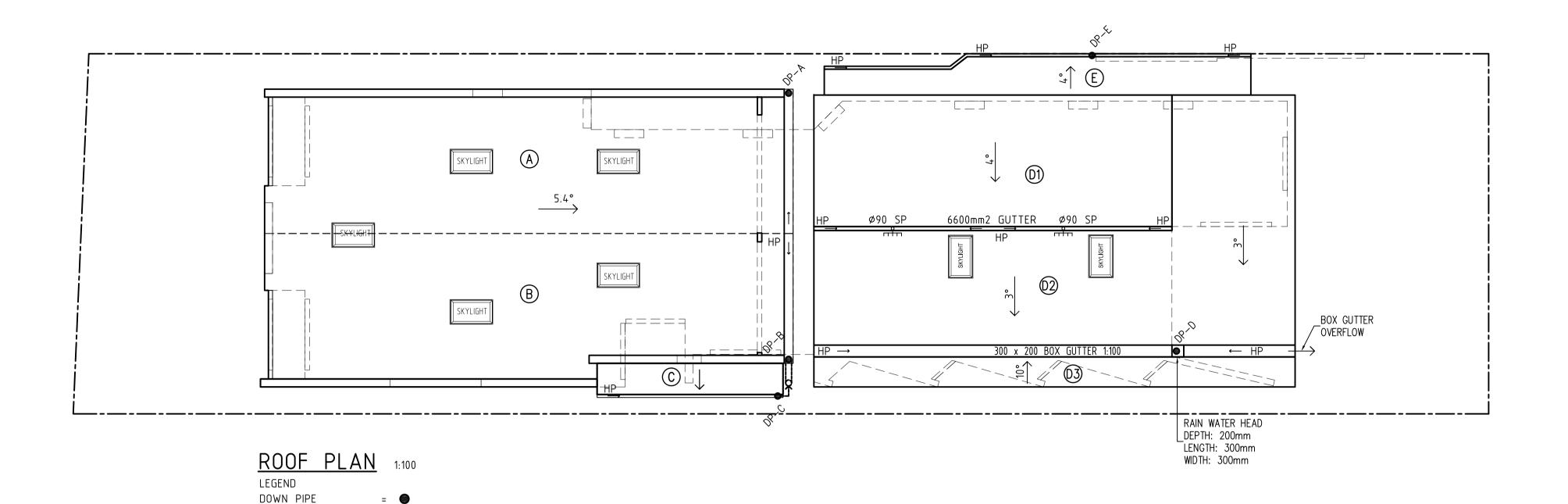
EXTERNAL WORKS

CODES AND STANDARDS.

CENTRES AND STAGGERED.

APPROVED PRECAST PITS MAY BE USED.

ALL LEVELS ARE TO AUSTRALIAN HEIGHT DATUM. (AHD)



SUBCATCHMENT AREAS FOR GUTTERS & DOWNPIPES (ARI 20 YEARS)								
VERTICAL DOWNPIPE		SUB-CATCHMENT						
		PLAN AREA (m2)		CATCHMENT AREA (m2)		MIN. EFFECTIVE GUTTER CROSS—SECT. AREA (mm2)	DP CROSS-SECT.	
Þ	4	86.8		91.2		16000	ø150	
В		86.8		91.2		16000	ø150	
C		7.5		8.0		6600	ø90	
D1		55.6		57.8		300 x 200		
D2	D	82.4	161.1	85.7	167.6	BOX GUTTER	ø150	
D3		23.1		24.1				
E		18.3		19.1		6600	Ø100	
·								

EAVES GUTTER SPECIFICATION.

HIGH POINT

SPREADER

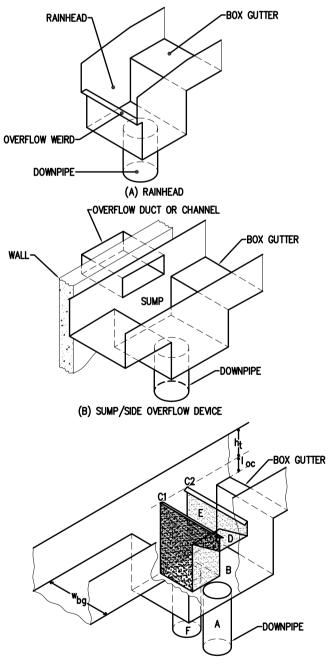
RAIN WATER OUTLET = RWO

= HP

= SP سپل

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

DOWNPIPES CROSS-SECTION TO BE AS PER TABLE ABOVE. FASCIA TO BE A MINIMUM OF 14mm ABOVE GUTTER OVERFLOW.



(C) SUMP/HGH CAPACITY OVERFLOW DEVICE (SEE CLAUSE 3.7.2.2(B)(ii)) SUMP (TYP)

BOX GUTTERS SPECIFICATION

BOX GUTTERS SHALL:

THE MINIMUM WIDTH OF BOX GUTTERS USED FOR COMMERCIAL CONSTRUCTION IS 300 MM. BOX GUTTERS 200 MM WIDE MAY BE USED FOR DOMESTIC CONSTRUCTION, BUT THEY ARE MORE PRONE TO BLOCKAGES AND SHOULD BE SUBJECT TO FREQUENT INSPECTIONS AND MAINTENANCE. ADDITIONAL HEIGHT IS RECOMMENDED WHERE POSSIBLE.

(I) BE STRAIGHT (WITHOUT CHANGE IN DIRECTION); (II) IN A CROSS-SECTION HAVE A HORIZONTAL CONSTANT WIDTH BASE (SOLE) WITH VERTICAL SIDES; (III) HAVE A CONSTANT LONGITUDINAL SLOPE BETWEEN 1:200 AND 1:40; (IV) DISCHARGE AT THE DOWNSTREAM END WITHOUT CHANGE OF DIRECTION (I.E., NOT TO THE SIDE); AND (V) BE SEALED TO THE RAINHEADS AND SUMPS.

DOWNPIPES SHALL BE FITTED VERTICALLY TO THE BASE OF A RAINHEAD OR SUMP

PROJECT:

GENERAL NOTES ALL PLUMBING WITHIN THE SITE MUST BE CARRIED OUT IN ACCORDANCE WITH RELEVANT PROVISIONS OF AUSTRALIAN STANDARD AS/NZS 3500.3-2003 PLUMBING AND DRAINAGE - STORMWATER DRAINAGE.

ALL LEVELS ARE TO AUSTRALIAN HEIGHT DATUM. (AHD)

DO NOT SCALE FROM THE DRAWINGS.

ON THE DRAWINGS AND SPECIFICATION.

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

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

READ THESE PLANS IN CONJUNCTION WITH APPROVED ARCHITECTURAL, STRUCTURAL, HYDRAULIC AND MECHANICAL 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 MECHANICAL EXCAVATIONS ARE TO BE UNDERTAKEN OVER TELECOM OR ELECTRICAL SERVICES. HAND EXCAVTE IN THESE AREAS.

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

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.

WORKMANSHIP AND MATERIALS SHALL CONFORM WITH THE REQUIREMENTS OF THE RELEVANT SAA CODES, BCA REQUIREMENTS AND THE SPECIFICATION, BY-LAWS AND ORDINANCIES OF THE RELEVANT AUTHORITIES.

PROPRIETARY 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 CARRIED OUT IN ACCORDANCE WITH COUNCIL'S

PUBLIC FOOTPATHS SHALL BE RECONSTRUCTED TO THE SATISFACTION OF COUNCIL'S DIRECTOR OF ENGINEERING SERVICES. A ROAD OPENING 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 SHALL BE TOTHE SATISFACTION OF THE AFFECTED PARTIES.

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

PITS DEEPER THAN 1200mm TO BE FITTED WITH STEP IRONS AT 300mm

CENTRES AND STAGGERED. APPROVED PRECAST PITS MAY BE USED.

CODES AND STANDARDS.

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

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.

(AT EACH INLET PIT) WITH THE UPSTREAM END SEALED.

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

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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 ON THE DAILY NON-POTABLE USAGE THAT MAY BE EXPECTED FROM THE TANK.

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

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. 13/03/2020 Michal Korecky

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DESIGN BY:

21 NALYA ROAD, NARRAWEENA NSW 2099 ABN: 79 393 130 294

Phone: 99813332,

Email: koreckym@gmail.com WWW.PLANSDESIGN.COM.AU

COLLAROY NSW 2097 CLIENT: BRENDAN & SIMONE WAIGHTS MOB: 0438148944

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