



- ### STORMWATER DRAINAGE STRATEGY
- ALL GUTTERS & DOWNPIPES ARE DESIGNED TO ACCEPT A 1:20 YEAR ARI STORM EVENT.
 - BOX GUTTERS & DOWNPIPES ARE DESIGNED TO ACCEPT A 1:100 YEAR ARI STORM EVENT.
 - ALL PITS & PIPES ARE DESIGNED TO ACCEPT A 1:20 YEAR ARI STORM EVENT.
 - DESIGN RAINFALL INTENSITIES:
 - 1:20 YEAR, 5 MIN = 221 mm/hr
 - 1:100 YEAR, 5 MIN = 310 mm/hr
 - ALL PIPES MUST HAVE A MIN. 1.0% FALL UNO.
 - ALL STORMWATER RUNOFF IS DIRECTED TO A SQID PRIOR TO EXITING THE SITE.
 - ON-SITE DETENTION HAS BEEN PROVIDED FOR THE DEVELOPMENT AS PER COUNCIL'S REQUIREMENTS.
 - STORMWATER QUALITY MEASURES HAVE BEEN IMPLEMENTED DOWNSTREAM TO MEET COUNCIL'S REQUIREMENTS OF REDUCING POST-DEVELOPMENT RUNOFF POLLUTION LOADS BY PRE-DETERMINED AMOUNTS.

ON-SITE DETENTION DESIGN SUMMARY

TOTAL SITE AREA = 7,950 m²

PRE-DEVELOPMENT IMPERVIOUS AREA = 0 m² (100% OF SITE)

POST-DEVELOPMENT IMPERVIOUS AREA = 7,481 m² (94%)

TOTAL SITE DRAINING TO OSD = 100%

TOTAL OSD VOLUME PROVIDED = 470 m³

ORIFICE PLATE DIAMETER = Ø130 mm (LOCATION AS NOTED ON PLAN)

PRE & POST DEVELOPMENT FLOWS				
	2 YEAR ARI	10 YEAR ARI	20 YEAR ARI	100 YEAR ARI
PRE - DEVELOPMENT FLOW (l/s)	118	265	332	544
POST - DEVELOPMENT FLOW (l/s)	62	81	86	100
STORAGE REQUIRED (m ³)	258	349	386	468

STORMWATER DRAINAGE PLAN

1:250

ALL DRAINAGE LINES SHALL BE UPVC (CLASS SH) STORMWATER DRAINAGE PIPE, UNO.
ALL DRAINAGE LINES SHALL BE LAID @ 0.5% FALL MIN. UNO.
FIRST FLUSH RAINWATER DEVICES TO BE FITTED TO DRAINAGE LINES TO BUILDER'S DETAIL. TYPICAL
MINIMUM EFFECTIVE EAVES GUTTER SIZE = 24,500 mm²
MINIMUM EFFECTIVE EAVES GUTTER SLOPE = 1:500
THE FOLLOWING SYMBOLS & ABBREVIATIONS HAVE BEEN USED:
DP = Ø150 DOWN PIPE
SIP = SURFACE INLET PIT (NO LINTEL)
BG1 = BOX GUTTER
X 100.00 = PROPOSED FINISHED SURFACE LEVEL
(WS) = DENOTES WET SUMP PIT - REFER TO TYPICAL DETAIL
--- = DENOTES WATER SUPPLY PIPE TO WET SUMP PITS

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THE WORK AS EXECUTED INFORMATION SHOWN IN RED ON
THIS PLAN RELATES TO THE AS BUILT LEVELS OF STORMWATER
AS SURVEYED ON 5 MAY 2020

MITCHELL A. WARWICK
[Signature]

REGISTERED LAND SURVEYOR UNDER THE SURVEYING & SPATIAL INFORMATION ACT, 2002

ORIGIN OF LEVELS: SSM 116081 RL:4.372 (AHD)
CLASS: LD, ORDER: 4, DATED: 30/08/2019

OUR REF: 19528

FOR CONSTRUCTION

REVISION	DATE	AMENDMENT DESCRIPTION
B	15.11.19	ISSUED FOR CONSTRUCTION
A	28.10.19	ISSUED FOR APPROVAL

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PROPOSED DEVELOPMENT

130 Cormorant Rd, Kooragang
For Brown Commercial Building

STORMWATER DRAINAGE PLAN

DESIGN	DRAWN	DATE	PROJECT No.
SWH	RCL	OCT 2019	9935
CHECKED	APPROVED	SCALE	DRG No.
		1:250	C04 - B