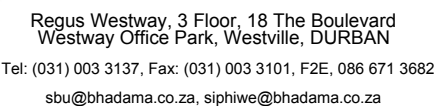


- REVISIONS

CLIENT:

PROJECT MANAGERS:

MECHANICAL ENGINEERS:
STRUCTURAL ENGINEERS:



TION / BLOCK

GENERAL SITE LAYOUT PLAN

E
WET SERVICES DRAWING

FLYING DESCRIPTION

CATCHMENTS AREA LAYOUT PLAN AND DETAILS

WING NUMBER: P1911/50-001

SITE AREA	2440.00 m ²	Radial distance
SITE COORDINATES	LATITUDE 28 51' S LONGITUDE 31 50' E	lat = +30mm lon = +268mm
STORM RUNOFF ANALYSIS		
1 in 10 Year Return Period		
Pre-development peak run-off (Q-COAG05)	(m ³ /s) (3)	0.049
Post-development peak run-off	(m ³ /s) (4)	0.066
Increased storm run-off volume	(m ³)	0.070
Storage required 1 in 10	(m ³)	0.62
1 in 50 Year Return Period		
Pre-development peak run-off (Q-COAG05)	(m ³ /s) (3)	0.075
Post-development peak run-off	(m ³ /s) (4)	0.107
Increased storm run-off volume	(m ³)	0.029
Storage required 1 in 50	(m ³)	29.1
Attenuation volume required: 25.1 m ³		
Attenuation volume provided: 28 m ³		
Attenuation tank size: 14m x 2m x 1.0m		
Outlet outlet size: 50mm diameter pipe		

SITE AREA:	2440.00 m ²	Rational Intensity:
SITE COORDINATES:	LATITUDE: 28 51' 5"	km = +120mm
	LONGITUDE: 31 50' E	km = +200mm

STORM RUNOFF ANALYSIS

1 in 10 Year Return Period		
Pre-development peak runoff (Q _{WQCA200})	(m ³ /s) x 1	0.043
Post-development peak runoff-off	(m ³ /s) x 1	0.066
Increased storm runoff-off	(m ³ /s)	0.023
Storage required 1 in 10	(m ³)	0.2
1 in 50 Year Return Period		
Pre-development peak runoff (Q _{WQCA200})	(m ³ /s) x 1	0.075
Post-development peak runoff-off	(m ³ /s) x 1	0.127
Increased storm runoff-off	(m ³ /s)	0.052
Storage required 1 in 50	(m ³)	26.1

Attenuation volume required: 26.1 m³

Attenuation volume provided: 28 m³

Attenuation tank size: 14m x 2m x 1.0m

Choked outlet size: 50mm diameter pipe

SITE AREA	244,000 m ²	Parcel Number
SITE COORDINATES	Latitude: 28°51' S Longitude: 31°52' E	Lot = 1238m In = >200mm
STORM DRAINOFF ANALYSIS		
1 in 10 Year Return Period		
Pre-development peak run-off (C=0.30)	(m ³ /s)	0.048
Post-development peak run-off	(m ³ /s)	0.061
Increased storm run-off volumes	(m ³ /s)	0.013
Storage required 1 to 15	(m ³)	19.2
1 in 50 Year Return Period		
Pre-development peak run-off (C=0.30)	(m ³ /s)	0.078
Post-development peak run-off	(m ³ /s)	0.107
Increased storm run-off volumes	(m ³ /s)	0.209
Storage required 1 to 50	(m ³)	52.1
Attenuation volume required: 26.1 m ³		
Attenuation volume provided: 28 m ³		
Attenuation tank size: 14m x 2m x 1.0m		
Checked out size: 50mm diameter pipe		

SITE AREA	2440.30 m ²	Barbed fencing
SITE COORDINATES	LATITUDE 28° 51' S LONGITUDE 31° 52' E	Int. >125mm Ext. >250mm
STORM RUNOFF ANALYSIS		
1 in 10 Year Return Period		
Pre-development peak run-off (C=0.05)	0.97(3) l/s	0.046
Post-development peak run-off	0.97(3) l/s	0.016
Increased storm run-off volumes	0.97(3)	0.978
Storage required 1 in 10	0.97(3)	16.2
1 in 50 Year Return Period		
Pre-development peak run-off (C=0.08)	0.97(3) l/s	0.075
Post-development peak run-off	0.97(3) l/s	0.107
Increased storm run-off volumes	0.97(3)	0.202
Storage required 1 in 50	0.97(3)	25.9
Attenuation volume required: 26.1 m ³		
Attenuation volume provided: 28 m ³		
Attenuation tank size: 14m x 2m x 1.0m		
Checked outlet size: 50mm diameter pipe		