

136 CARRINGTON STREET, REVESBY NSW 2212

CONCEPT STORMWATER MANAGEMENT PLAN

DRAWING LIST	
DRAWING No.	DRAWING TITLE
C1.01	LEGEND, DRAWING LIST AND LOCALITY PLAN
C2.01	SHEET LAYOUT PLAN
C3.01	CONCEPT SEDIMENT AND EROSION CONTROL PLAN AND DETAILS
C4.01	CONCEPT STORMWATER MANAGEMENT PLAN (BUILDING A & B)
C4.02	CONCEPT STORMWATER MANAGEMENT PLAN (BUILDING C & D)

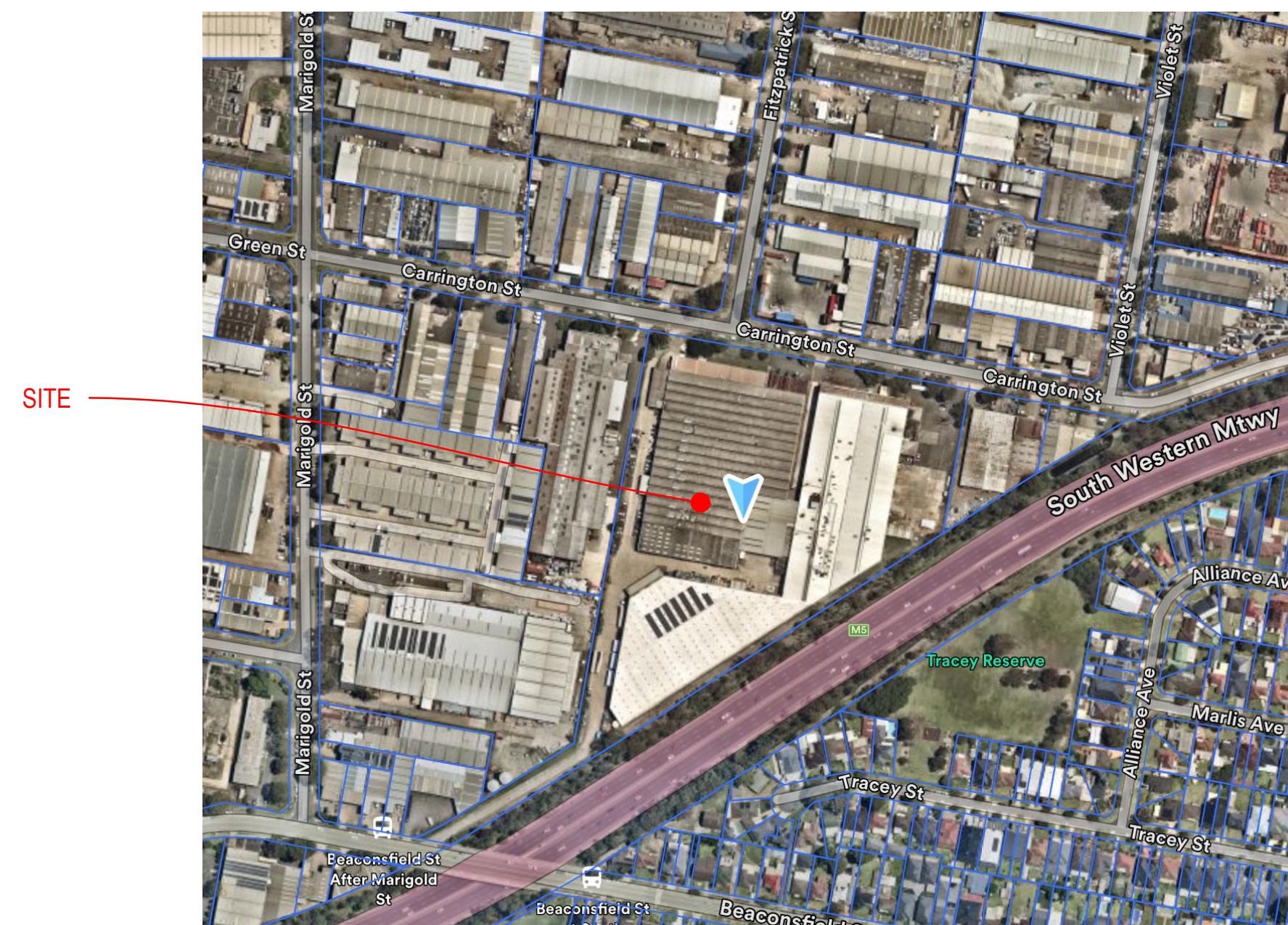
CIVIL LEGEND PROPOSED

Diagram illustrating the Civil Legend Proposed, showing various levels and boundaries:

- + 13.75 PROPOSED SURFACE LEVEL
- + 13.75(e) EXISTING SURFACE LEVEL
- FFL 12.40 FINISHED FLOOR LEVEL
-  PROPOSED STORMWATER PIT
-  PROPOSED IN-GROUND STORMWATER DRAINAGE
-  EXISTING 2250 STORMWATER
-  PROPERTY BOUNDARY

ABBREVIATIONS

TYP - TYPICAL
IL - INVERT LEVEL
RL - REDUCED LEVEL
EX - EXISTING



LOCALITY PLAN

[illegible]

NORTH

FOR DEVELOPMENT
APPLICATION



PROJECT

136 CARRINGTON STREET
REVESBY NSW 2212

CLIENT	
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GN PROJECTS PTY LTD
LEVEL 12, 50 MARKET STREET
MELBOURNE, VIC 3000

TITLE

LEGEND, DRAWING LIST AND LOCALITY
PLAN

DESIGNED	DRAWN	SCALE @ A1
EE	KR	
PROJECT No	APPROVED	DATE
23043	-	20.03.24
DRAWING No		ISSUE
C1.01		A

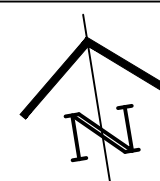
DIAL BEFORE YOU DIG



IMPORTANT: THE CONTRACTOR IS TO MAINTAIN A CURRENT SET OF "DIAL BEFORE YOU DIG" DRAWINGS ON SITE AT ALL TIMES.

 WRAP INLET GRATE IN FILTER FABRIC.
PROVIDE AT ALL EXISTING AND NEW
SURFACE STORMWATER PITS

1. EROSION AND SEDIMENT CONTROL SHALL BE CONSTRUCTED, MAINTAINED AND DESIGNED IN ACCORDANCE WITH:
 - A. CANTERBURY-BANKSTOWN COUNCIL REQUIREMENTS;
 - B. LANDCOM - MANAGING URBAN STORMWATER: SOIL AND CONSTRUCTION, 4th EDITION, MAR 2004.

[illegible]

FOR DEVELOPMENT
APPLICATION

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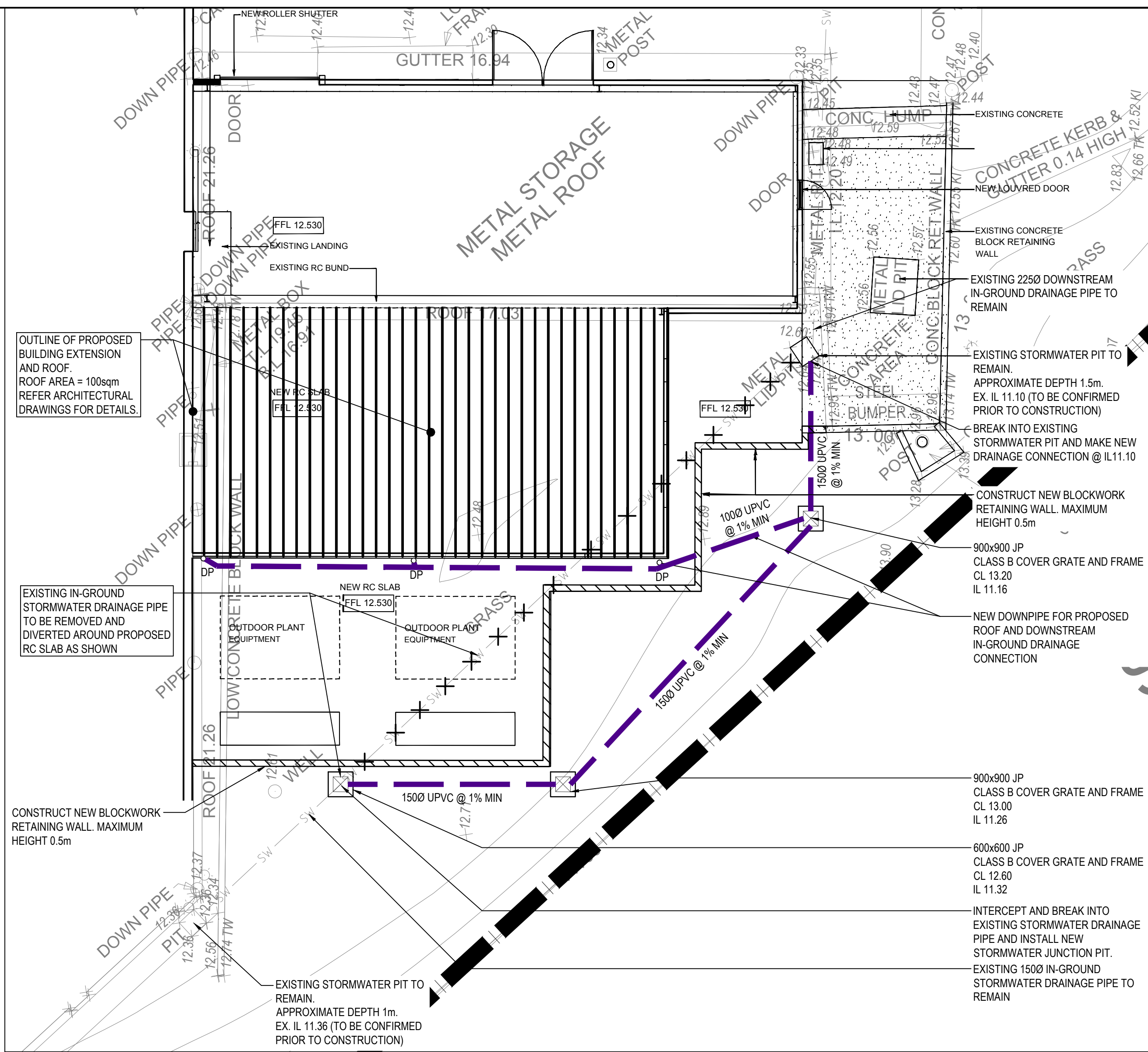
TITLE	CONCEPT SEDIMENT AND EROSION CONTROL PLAN AND DETAILS
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DESIGNED	DRAWN	SCALE @ A1
EE	KR	1:100
PROJECT No	APPROVED	DATE
23043	-	20.03.24
DRAWING No		ISSUE
C3.01		B

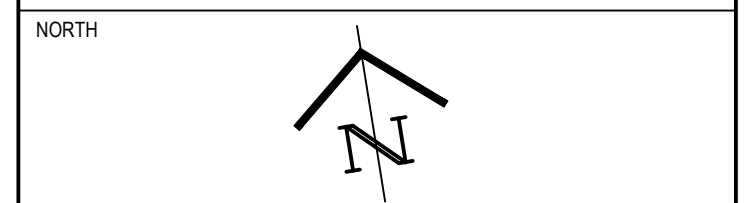
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APPLICATION

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LEVEL 12, 50 MARKET STREET
MELBOURNE, VIC 3000

TITLE
CONCEPT STORMWATER MANAGEMENT PLAN (BUILDING A & B)

DESIGNED	DRAWN	SCALE @ A1
EE	KR	1:100
PROJECT No	APPROVED	DATE
23043	-	20.03.24
DRAWING No		ISSUE
C4.01		A

INSET 'B' (BUILDING 'B')

Building A	Roof Drainage Calculations and Procedure - Basic residential developments (Eaves Gutter + DP's)			
	Reference:	AS3500.3		
a)	Design ARI	100	year	
b)	Duration	5	min	
	Rainfall Intensity	198	mm/hr	ARR Data Hub
c)	Pitch/slope	18	degrees	
d)	Eaves Gutters	Ac = Ah*F		Section 3.4.3(2) - See Table 3.2 for 'F' (Roof Plan Area)
i	Ah	145	m ²	
ii	Ac	168	m ²	
	F	1.16		Section 3.4.3(2) - See Table 3.2 for 'F'
e)	Gutter gradient	1:500 (min)		
f)	Ae	9500	mm ²	(refer manufacturer - Lysaght)
g)	Ac _{dp}	50	m ² (max area per downpipe)	Figure 3.5(a)
h)	Ac/Ac _{dp}	3.4	Number of downpipes	
i)	Sub-Catchment Areas For Downpipes			
	Vertical Downpipe	Sub-Catchment		
	DP	Plan area (A _{hs-c}) sqm	Catchment Area (A _{s-c}) sqm	Length of gutter (m)
	1	36.3	42	0
	2	36.3	42	5
	3	36.3	42	5
	4	36.3	42	5
j)	As-c is not greater than Ac _{dp} (section 'g' above) -> no. 4 downpipes required			
k)	Downpipes to be min 100 diameter (circular)			

Building B

Roof Drainage Calculations and Procedure - Basic residential developments (Eaves Gutter + DP's)

Reference:AS3500.3

a)Design ARI100year

b)Duration5min

Rainfall Intensity198mm/hrARR Data Hub

c)Pitch/slope18degrees

d)Eaves GuttersAc = Ah*FSection 3.4.3(2) - See Table 3.2 for 'F' (Roof Plan Area)

iAh100m2

Ac116m2

F1.16Section 3.4.3(2) - See Table 3.2 for 'F'

e)Gutter gradient1:500 (min)

f)Ae9500mm2(refer manufacturer - Lysaght)

g)Acdp50m2 (max area per downpipe) Figure 3.5(a)

h)Ac/Acdp2.3Number of downpipes

i)Sub-Catchment Areas For Downpipes

DP	Plan area (Ahs-c) sqm	Catchment Area (As-c) sqm	Length of gutter (m)
1	33.0	38	0
2	33.0	38	7
3	33.0	38	7

j)As-c is not greater than Acdp (section 'g' above) -> no. 3 downpipes required

k)Downpipes to be min 100 diameter (circular)

Outlet PIPE CALCULATIONS

Catchment Area (New roof)0.01ha

Rational Calc Q = CIA/360

C0.95

I(100yr, 5min ARI)198mm/hr

Q =5.2l/s

100 DIAMETER UPVC PIPE CAPACITY CHECK

Pipe Dia. (mm) :0.10.10

Pipe Slope (m/m) :0.010.01

'k' value :0.03

Capacity (l/s) =7.89a-0.1

0.0079b0

1.00c0

d0.01

v1

area0.01

Velocity (m/s) =

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