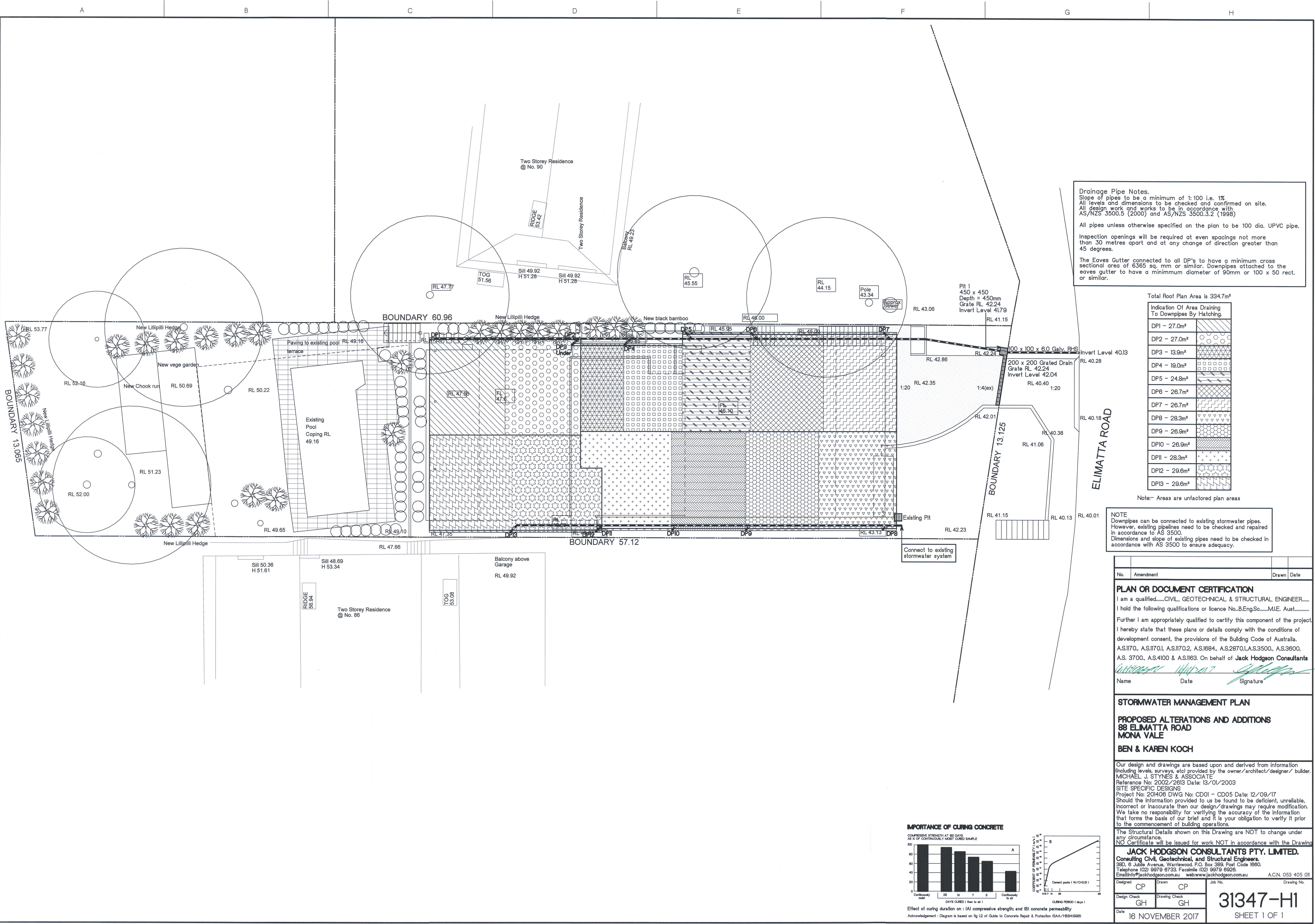




Drainage Pipe Notes.
Slope of pipes to be a minimum of 1:100 i.e. 1%
All levels and dimensions to be checked and confirmed on site.
All design work and works to be in accordance with
AS/NZS 3500.5 (2000) and AS/NZS 3500.3.2 (1998)

All pipes unless otherwise specified on the plan to be 100 dia. UPVC pipe.

Inspection openings will be required at even spacings not more than 30 metres apart and at any change of direction greater than 45 degrees.

The Eaves Gutter connected to all DP's to have a minimum cross sectional area of 6365 sq. mm or similar. Downpipes attached to the eaves gutter to have a minimum diameter of 90mm or 100 x 50 rect. or similar.

Total Roof Plan Area is 334.7m²

Indication Of Area Draining To Downpipes By Hatching	
DP1 - 27.0m²	
DP2 - 27.0m²	
DP3 - 13.9m²	
DP4 - 19.0m²	
DP5 - 24.8m²	
DP6 - 26.7m²	
DP7 - 26.7m²	
DP8 - 28.3m²	
DP9 - 26.9m²	
DP10 - 26.9m²	
DP11 - 28.3m²	
DP12 - 29.6m²	
DP13 - 29.6m²	

Note:- Areas are unfactored plan areas

NOTE
Downpipes can be connected to existing stormwater pipes. However, existing pipelines need to be checked and repaired in accordance to AS 3500.
Dimensions and slope of existing pipes need to be checked in accordance with AS 3500 to ensure adequacy.

No.	Amendment	Drawn	Date
PLAN OR DOCUMENT CERTIFICATION			
I am a qualified.....CIVIL, GEOTECHNICAL & STRUCTURAL ENGINEER.....			
I hold the following qualifications or licence No..B.Eng.Sc.....M.E. Aust.....			
Further I am appropriately qualified to certify this component of the project.			
I hereby state that these plans or details comply with the conditions of development consent, the provisions of the Building Code of Australia, A.S.1170, A.S.1170.1, A.S.1170.2, A.S.1684, A.S.2870.1, A.S.3500, A.S.3600, A.S. 3700, A.S.4100 & A.S.1163. On behalf of Jack Hodgson Consultants			
Name	Date	Signature	

STORMWATER MANAGEMENT PLAN

**PROPOSED ALTERATIONS AND ADDITIONS
88 ELIMATTA ROAD
MONA VALE**

BEN & KAREN KOCH

Our design and drawings are based upon and derived from information (including levels, surveys, etc) provided by the owner/architect/designer/ builder, MICHAEL J. STYNES & ASSOCIATE
Reference No: 2002/2813 Date: 13/01/2003
SITE SPECIFIC DESIGN
Project No: 201408 DWG No: CD01 - CD05 Date: 12/09/17
Should the information provided to us be found to be deficient, unreliable, incorrect or inaccurate then our design/drawings may require modification. We take no responsibility for verifying the accuracy of the information that forms the basis of our brief and it is your obligation to verify it prior to the commencement of building operations.

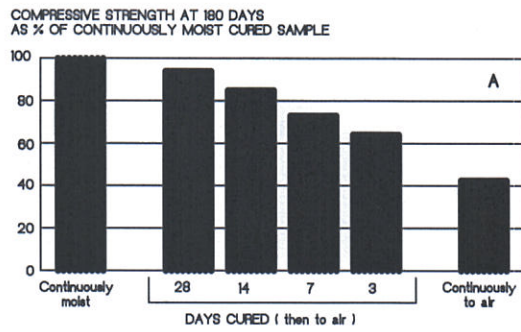
The Structural Details shown on this Drawing are NOT to change under any circumstance.
NO Certificate will be issued for work NOT in accordance with the Drawing

JACK HODGSON CONSULTANTS PTY. LIMITED.
Consulting Civil, Geotechnical, and Structural Engineers.
36D, 6 Jubile Avenue, Warriewood, P.O. Box 388, Post Code 1680.
Telephone (02) 9979 6733. Facsimile (02) 9979 6926.
Email info@jackhodgson.com.au web www.jackhodgson.com.au A.C.N. 053 405 011

Designed	CP	Drawn	CP	Job No.	Drawing No.
Design Check	GH	Drawing Check	GH		
Date	16 NOVEMBER 2017				

31347-H1
SHEET 1 OF 1

IMPORTANCE OF CURING CONCRETE



Effect of curing duration on: (A) compressive strength and (B) concrete permeability
Acknowledgement: Diagram is based on fig 12 of Guide to Concrete Repair & Protection (SAA/HB841996)

