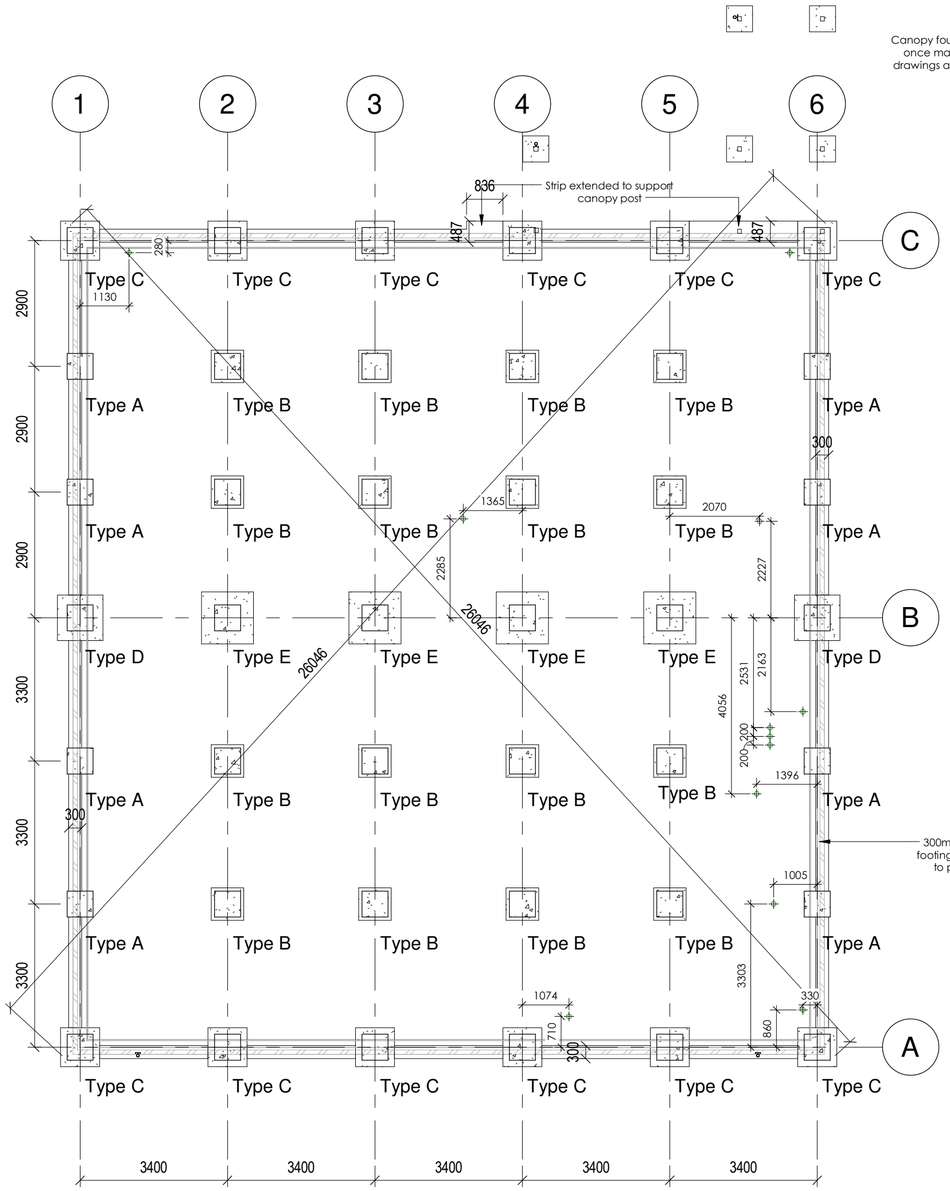


Foundation

1 : 100

FFL: 99.30
Top of Pier: 99.075
Top of Foundation: 98.925

General Notes

- The anticipated bearing strata is 0.3m into the Glacial Till encountered between 0.3m and 1.2m below existing ground level capable of achieving 150kN/m², refer to SoilTechnics ground investigation report dated May 2013 for further details.
- Foundations are to extend a minimum of 0.9m below formation level to comply with the requirements of the NHBC Standards Chapter 42 for building near trees, this depth may need to be increased to reach the required bearing strata.
- The proposed foundation design assumes there are no trees or bushes within 30m of the foundations of the new building, to be confirmed on site.
- Any new planting is to be limited to 'low water demand' trees or bushes planted at least 10m away from the foundations of the new building.
- All foundation concrete is to be designated mix FND1.
- All concrete construction is to be in accordance with the 'National Structural Concrete Specification' by The Concrete and Construction Structures Group.
- All bearing levels are to be inspected by a suitably qualified and experienced individual prior to pouring of concrete.
- Foundation depths may need to be deepened in response to site conditions as required.
- If any soft spots are discovered they are to be removed and replaced with lean mix concrete to achieve the correct bearing level.
- If excavations are to remain open overnight prior to pouring of concrete 50mm of blinding is to be used to protect the bearing strata.

Schedule

A - 600x600 mm square 900mm thick
B - 750x750 mm square 900mm thick
C - 900x900 mm square 900mm thick
D - 1050x1050 mm square 900mm thick
E - 1200x1200 mm square 900mm thick

Foundation thickness are the minimum required structurally but may need to increase to reach the required bearing strata.

The perimeter strip foundation is to be 300mm wide taken down to an equivalent depth as the adjacent pad foundations.

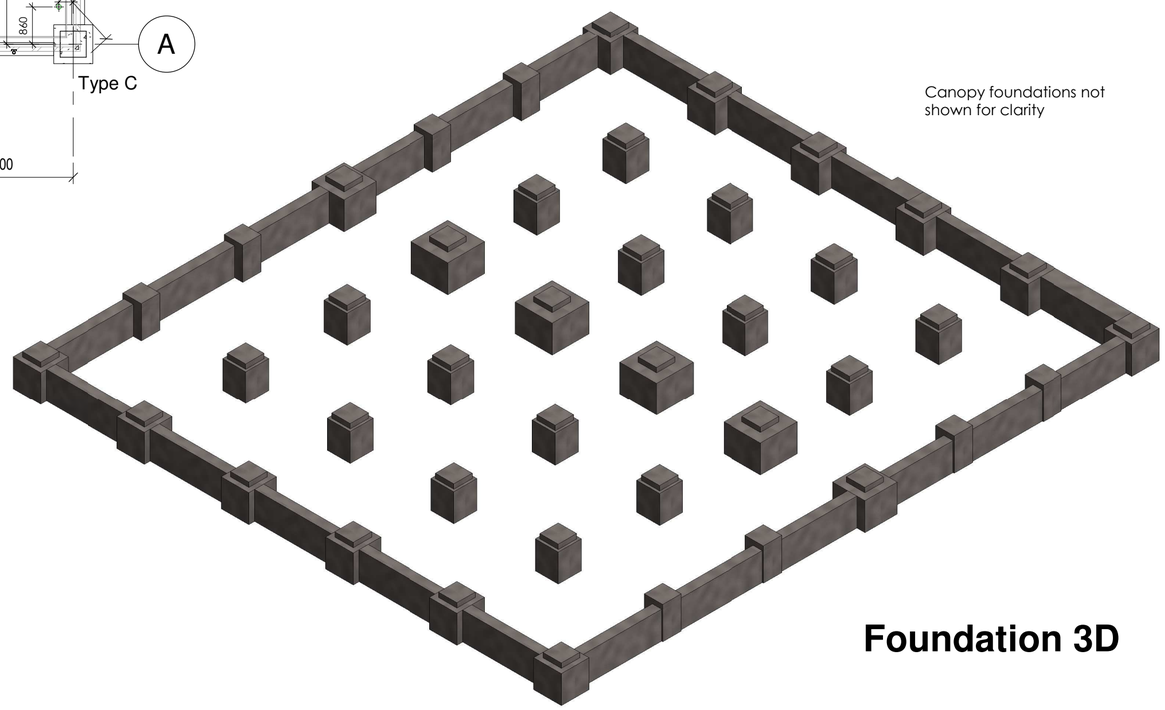
- All concrete piers to be 600mmx600mm with a minimum depth of 150mm to maintain a clear void under the building of 150mm
- Concrete pads/piers to be float finished with a maximum height deviation across the pier of ± 1mm
- The variation in finished height of all concrete pads/piers to be no greater than +0 - 5mm to the datum height
- All piers are to be set out to the foundation setting out drawing with no deviation greater than ± 5mm on diagonal and ± 2mm distance pier to pier/pad to pad.
- Accumulative setting out of the pads/piers across the site to be no greater than +0mm and -6mm, or +0mm and -1.5√l mm whichever is the greater as defined by BS 5964-1 1990
- The above setting out tolerances apply to either the pad/pier edge or the pad/pier centre as defined on the foundation setting out drawing
- The concrete pier is to be central to the supporting concrete foundation pad with a maximum permitted deviation of ± 25mm
- Services pop-ups or other cast-in services positions, lift pits or staircase pad etc. within the building footprint to be no greater than ± 3mm to the datum dimensions
- The building modules must be supported at a maximum 3000mm centres (span point to point) along the length of the floor beams

Drawing to be red in conjunction with: 20-126_Red Kite Academy_Foundation GA_200519

If there are any discrepancies on the drawings then advice should be immediately sought from the structural engineer.

Prior to execution, the sub-contractor is to assume design responsibility for all elements of their work and satisfy themselves with the details shown on the drawing. Design, compliance with relevant regulations and execution on site is the responsibility of the appointed sub-contractor

Structural Foundation Schedule					
Type	Pad Length	Pad Width	Foundation Thickness	Volume	Count
Canopy Foundation	600	600	600	0.22 m³	22
Pier	600	600	150	0.05 m³	42
Strip Footing - Typically 300mm wide unless stated otherwise			900	15.01 m³	1
Type A	600	600	900	0.32 m³	8
Type B	750	750	900	0.51 m³	16
Type C	900	900	900	0.73 m³	12
Type D	1050	1050	900	0.99 m³	2
Type E	1200	1200	900	1.30 m³	4



Canopy foundations not shown for clarity

Foundation 3D

Rev	Description	By	Chk	Date
P1	CP issue / Planning Issue, June 2020	CJR	TM	30/06/2020

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DarwinGroup
Construction Has Evolved
Design — Engineering — Contracting — Offsite — Minor Works

London House, Shawbury Business Park, Shawbury, Shrewsbury, SY4 4EA

TEL: 01939 252900
www.darwingroupltd.co.uk

PROJECT TITLE: Red Kite Academy

ADDRESS: Corby NN18 0BY

DRAWING TITLE: Foundation Setting Out

DRAWING REFERENCE

PROJECT	ORIGINATOR	VOLUME	LEVEL	TYPE	ROLE	NUMBER
180235	DGL	01	XX	DR	A	1010

INITIAL ISSUE DATE	INITIAL ISSUE BY	INITIAL CHECKED BY	GIFA
19/05/20	TM		303 m²

SUITABILITY		SCALE	SHEET	REV
S0	For Information	As indicated	A2	P1
STATUS CODE	STATUS DESCRIPTION			

30/06/2020 16:42:03