

NOTES:

THE WATER SUPPLY FLOW AND PRESSURE REQUIRED AT THE SPRINKLER CONTROL VALVES LOCATED ON THE GROUND FLOOR IS SUMMARISED AS FOLLOWS.

* FIRST FLOOR (Kitchen/Dining Room): 100 L/min. @ 1.818 bar (2 Sprinklers in operation)

IT HAS BEEN ASSUMED THAT THE TOWN'S MAIN SUPPLY IS ADEQUATE TO MEET THE ABOVE FLOWS AND PRESSURES.

NOTES:

- NO RESPONSIBILITY ACCEPTED FOR FROST DAMAGE TO PIPE WORK CAUSED BY INADEQUATE HEATING. ALL SPRINKLERS TO BE FITTED 90 Deg. TO THE CEILING OR ROOF.
- A CLEAR SPACE OF 500mm MUST BE MAINTAINED BELOW SPRINKLER HEADS
- PIPEWORK TO BE: CPVC PLASTIC PIPE
- SPRINKLER HEADS MUST NOT BE PAINTED.
- BRACKET POSITIONS ARE APPROXIMATE AND SHOULD BE INSTALLED AS FOLLOWS:

Nominal diameter	Horizontal run	Vertical run
mm	m	m
20	1.7	3.0
25	1.8	3.0
32	2.0	3.0
40	2.1	3.0
50	2.4	3.0
65	2.7	3.0
80	3.0	3.0

SPRINKLER SCHEDULE				
Area	Constr.	Sprinklers		
		Temp.	Type	No.
First Floor	NFP	74°C	15mm Viking Concealed (VK494) (K=70.6)	6
Ground Floor	NFP	74°C	15mm Viking Concealed (VK494) (K=70.6)	5

STANDARD SYMBOLS KEY

○	Sprinkler Upright	↔	Bracket location
○	Sprinkler Pendant	→	Direction of pipe slope
○	Existing Sprinkler	⊠	M. J. Control
○	Sprinkler on riser	⊠	Sidewall Sprinkler
○	Head in false ceiling	⊠	Drop or rise
○	Swivel drop to false ceiling sprinkler	⊠	Hydraulic design point

DESIGN SPECIFICATION

BS 9251:2014 - DOMESTIC OCCUPANCY

SYSTEM CATEGORY : 1 HIGHEST SPRINKLER : 5.00 m

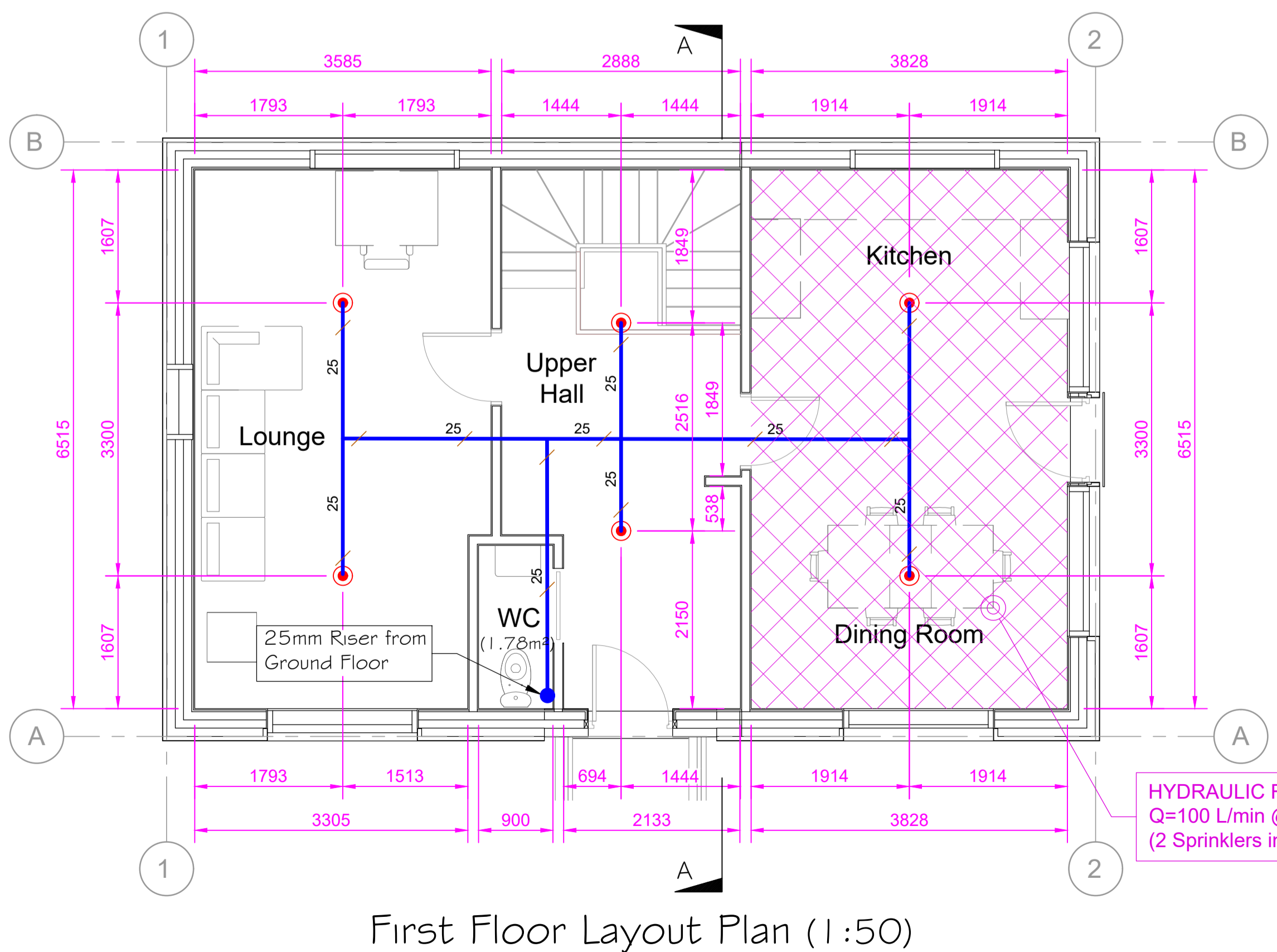
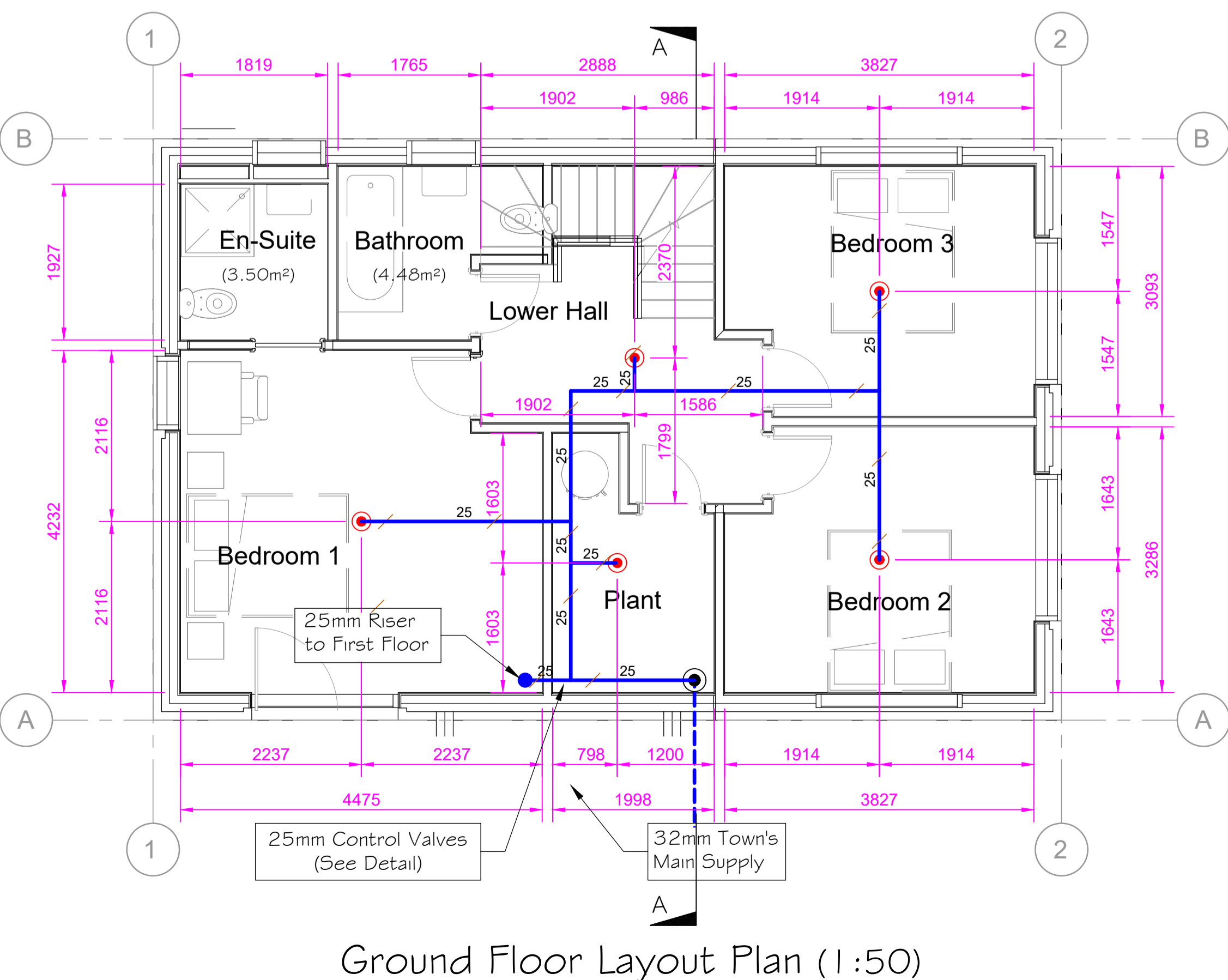
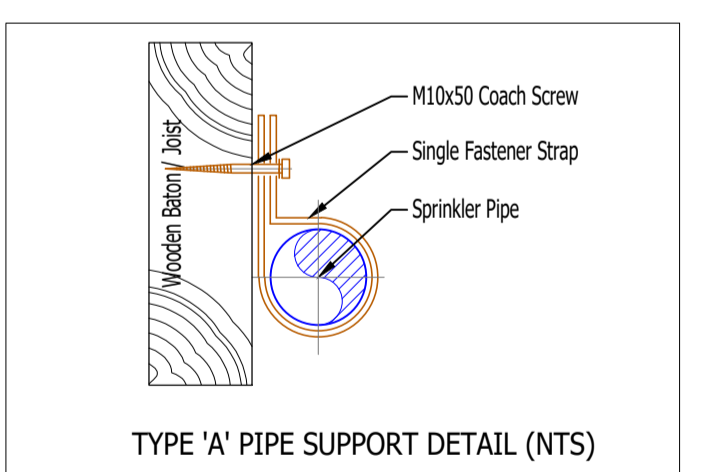
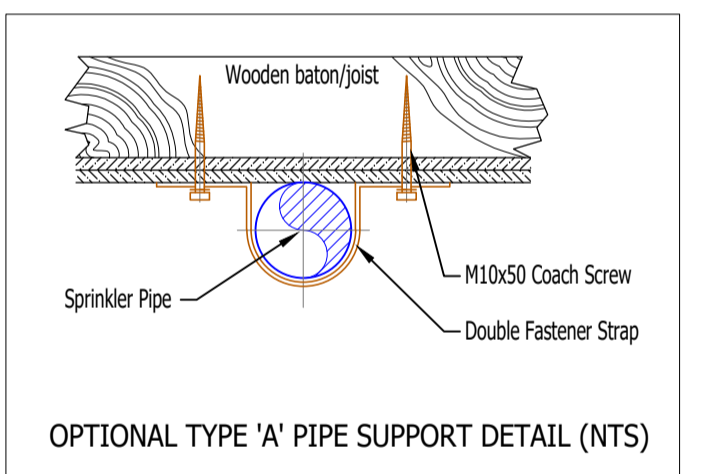
OCCUPANCY : Dwelling INSTALLATION SIZE : 25mm

TYPE OF BLDG : Ind. House SPRKS IN OPERATION : 2 Spks

DESIGN DENSITY : 2.04 mm/min.

WATER SUPPLIES : 32mm Town's Main Connection

N.B. OF PIPE (MM)	25	32	40	50	65	80	100	150
WEIGHT OF PIPE FULL OF WATER (KG/M)	2.94	4.00	4.78	6.97	9.65	12.8	19.4	38.2



HYDRAULIC RESULTS:
Q=100 L/min @ 1.818 bar
(2 Sprinklers in Operation)

FOR APPROVAL

TITLE	
AUTOMATIC SPRINKLER INSTALLATION SPRINKLER & PIPEWORK LAYOUT PLAN VIEWS, SECTION & DETAILS	
SCALE 1:50 @ A1	DATE 16/06/21
DESIGNED BY J.M.	CHECKED W.S.
DRAWING No. P139-01	REV. O

Systematik Ltd
Contractors & Reactive Engineers

Happidals
Sunray Ave
Whitstable, Kent
CT5 4ED

Tel.: 01227 389900

REV.	DATE	DESCRIPTION	DRN	CKD
O	17/06/21	ISSUED FOR APPROVAL	J.M.	W.S.