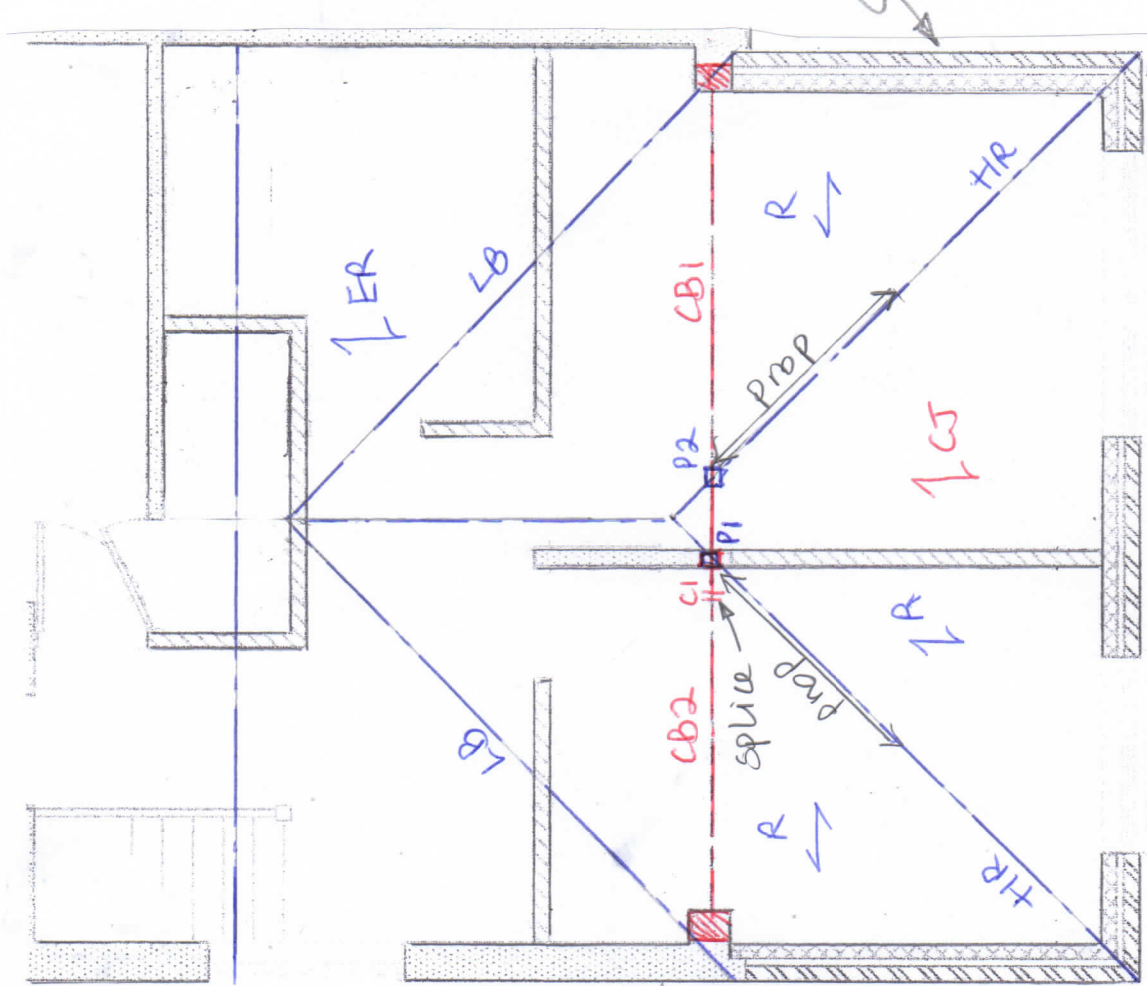
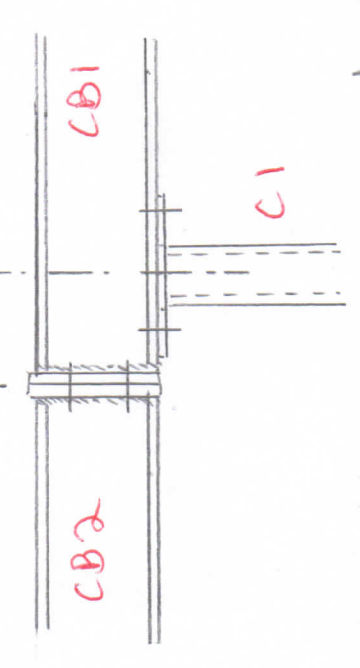




Timber frame construction may be preferred for the new external walls in order to minimise additional load on the foundations

PART FIRST FLOOR PLAN
SHAVING STRUCTURE OVER
(1 : 50 at A3)

P1 + P2 not shown.



Elevation on proposed connection

Member Ref	Section
ER	STRUCTURAL MEMBERS Existing rafters to be retained. Strip locally where building the new roof over. Lay board proposed for building the new roof over the existing. New rafters = C24 47 x 147 at 400 crs. Hip rafter = C24 47 x 195. Prop at mid-span with a timber prop supported on CB1 / CB2 and support on posts P1 and P2. Ceiling joists = min C16 47 x 122 at 400 crs. 152 x 152 x 23 UC. Support with 200mm long bearing on a wall thickness x 225 long x 150h mass concrete or engineering brick padstone adjacent to the party wall. Bolt the bottom flange to a cap plate on C1 with 4 M16. CB2 152 x 152 x 23 UC. Support with 200mm long bearing on a wall thickness x 225 long x 150h mass concrete or engineering brick padstone on the external wall. Bolt to the end of CB1 via welded flush end plate and 4 M16. Note: It is assumed that CB1 and CB2 will be positioned beneath the existing ceiling joists and rafter feet. C1 90 x 90 x 8 SHS post with 10 thk welded cap plate and base plate. Bolt the cap plate to the bottom flange of CB1 and bolt the base plate to the top flange of CB2. P1 100 x 100 C24 timber post supported on CB1 to provide support to the hip rafter. P2 100 x 100 C24 timber post supported on CB1 or CB2 (depending on the true position as confirmed on site) to provide support to the hip rafter. Note: The member sizes indicated above are the minimum required and may be increased if preferred to suit Architectural / construction details.
LB	
R	
HR	
CJ	
CB1	
CB2	
Note:	
C1	
P1	
P2	
Note:	

Tamara Maw Structures M.I.Struct.E, C.Eng tel: 07790 593758	
Client:	Mr and Mrs Sheppard
Project:	23 Pierson Road Windsor, SL4 5RJ
Title:	Proposed Extension and Alterations Roof Structure
Date:	May 2022
Drg No:	03
Rev:	