



BEAM SCHEDULE	
BEAM REF.	SIZE
A	254 x 102 UB28
B	254 x 102 UB22
C	250 x 150 x 6.3 RHS
*1	MOMENT CONNECTION 1 MOMENT, M=154Nm SHEAR, V=50kN TORSION, T=10Nm SEE 8459/125
*2	MOMENT CONNECTION 2 MOMENT, M=154Nm SHEAR, V=50kN SEE 8459/125
NOTE: FOR ALL OTHER CONNECTIONS SHEAR, V=50kN	
NOTE: ALL COLUMNS: 152 x 152 UC30	

NOTE  
ALL BEAMS/ COLUMNS CENTRED ONTO  
GRIDLINES UNLESS OTHERWISE NOTED.

LEGEND	
	220 x 50 C16 (SC3) JOISTS Ø400 CRS. PROVIDE MIN. 2/3 DEPTH NOGGINGS @ ENDS AND MID. SPAN
	ALLOW FOR 30 x 5 GALVANISED MILD STEEL STRAPPING @ 1200 CRS. AROUND EDGE OF ROOF AND ACROSS ALL STEEL BEAMS.
	ALL ROOFLIGHTS TRIMMED WITH DOUBLED UP JOISTS.

ROOF PLAN.  
SHOWING STRUCTURE UNDER  
(1:100)

NOTES.

- GENERAL
  - This drawing is not to be scaled, work to figured dimensions only, confirmed on site.
  - This drawing is to be read in conjunction with all relevant architectural drawings, detailed specifications where applicable and all associated drawings in this series.
  - Any discrepancy on this drawing is to be reported immediately to the partnership for clarification.
  - The contractor is responsible for all temporary works and for the stability of the works in progress.
- STRUCTURAL TIMBERWORK
  - All timber to be strength class C16/SC3 unless otherwise stated.
  - Timber to be pressure impregnated preservative treated. All cut, built-in ends and joints to be given 2 further applications or preservative on site.
  - Where double or triple members (2/ or 3/) are indicated, these are to be bolted M10 at 450c/c, with TT connections.
- STRUCTURAL STEELWORK
  - All structural steelwork will be from steel to B.S. 4, PART 1:1980 (Dimensions of properties of structural steel sections) unless otherwise detailed.
  - All steelwork will be grade S275 (43) unless otherwise stated.
  - All steel to be fabricated in accordance with B.S. 5950 ( the 'Structural Use of Steel in Buildings)
  - All steel to be blast cleaned to SA 2.5.
  - Steel to be given 1 shop applied zinc phosphate coat of primer (75microns DFT), then one coat of M.I.O. (75 micron DFT) touched up on site. All preparation work to be in accordance with B.S.5493 accordance with B.S. 5493.
  - Ordinary bolting to be grade 8.8 precision bolts in accordance with B.S. 3692. High strength friction grip bolts shall be in accordance with B.S. 4604, Load indicating washers of an approved type to be used where instructed.
  - All connections to be designed by steelwork fabricator, details to be issued to engineer prior to fabrication for comments. (See beam schedule for forces/ moments. All forces/ moments are ultimate.

BEAM SETTING OUT INFORMATION ADDED	31/08/00	M.PACIFICO	C
LEVELS TO LIFT ROOF SLABS REVISED	07/08/00	A.D.COOK	B
LIFT CORES AMENDED. COLUMNS EFS. FGS AMENDED	12/06/00	M.PACIFICO	A
Revision	FIRST ISSUE	19/04/00	M.PACIFICO By Rev. No.

Client BERKELEY HOMES (SOUTHERN) LTD

Project 24-30 MARINE PARADE  
BRIGHTON, EAST SUSSEX

Title ROOF PLAN  
SHOWING STRUCTURE UNDER

**H E M S L E Y** **O I R R E L L** **P A R T N E R S H I P**  
CONSULTING CIVIL & STRUCTURAL ENGINEERS

● HOP HOUSE, 41 Church Road,  
Hove, East Sussex  
BN3 2BE  
Tel : (01273) 223900  
Fax : (01273) 326767  
Email : hophouse@dal.pipex.com

○ 151 Western Road,  
Howards Heath, West Sussex  
RH16 3LH  
Tel : (01444) 457756  
Fax : (01444) 455953  
Email : hop.hi@virgin.net

Scales	Date	Drawn	Engineer	Checked	Approved
1:100	FEB 2000	M.PACIFICO	A.HUMPHREY	D.JONES	D.JONES
Project No.	8459	Task No.	02	Dwg. No.	107
					Rev. No. C