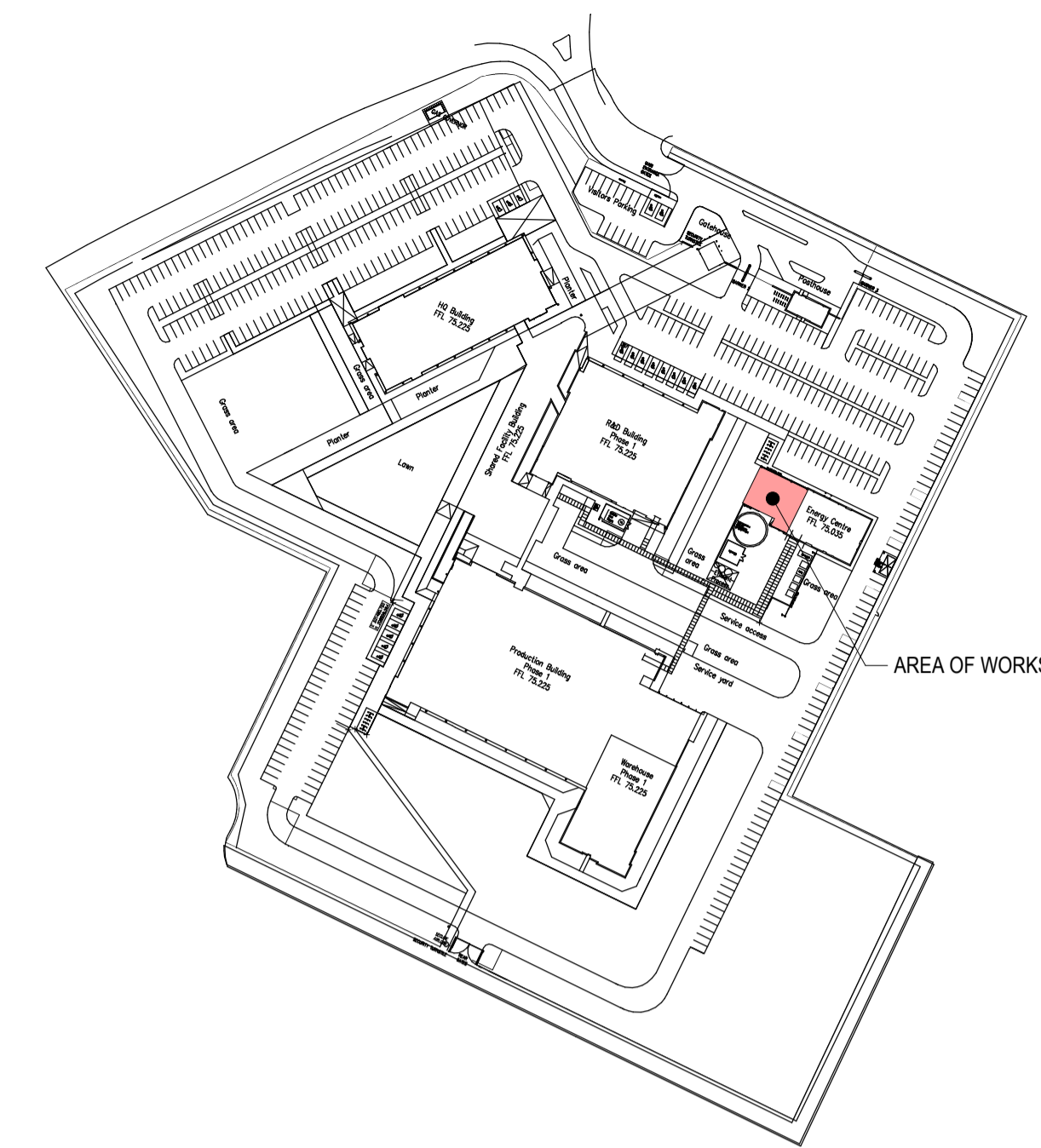


2001 / 1 FIRST FLOOR LAYOUT  
SHOWING STEELWORK  
SCALE 1 : 100



KEY PLAN  
1 : 2000

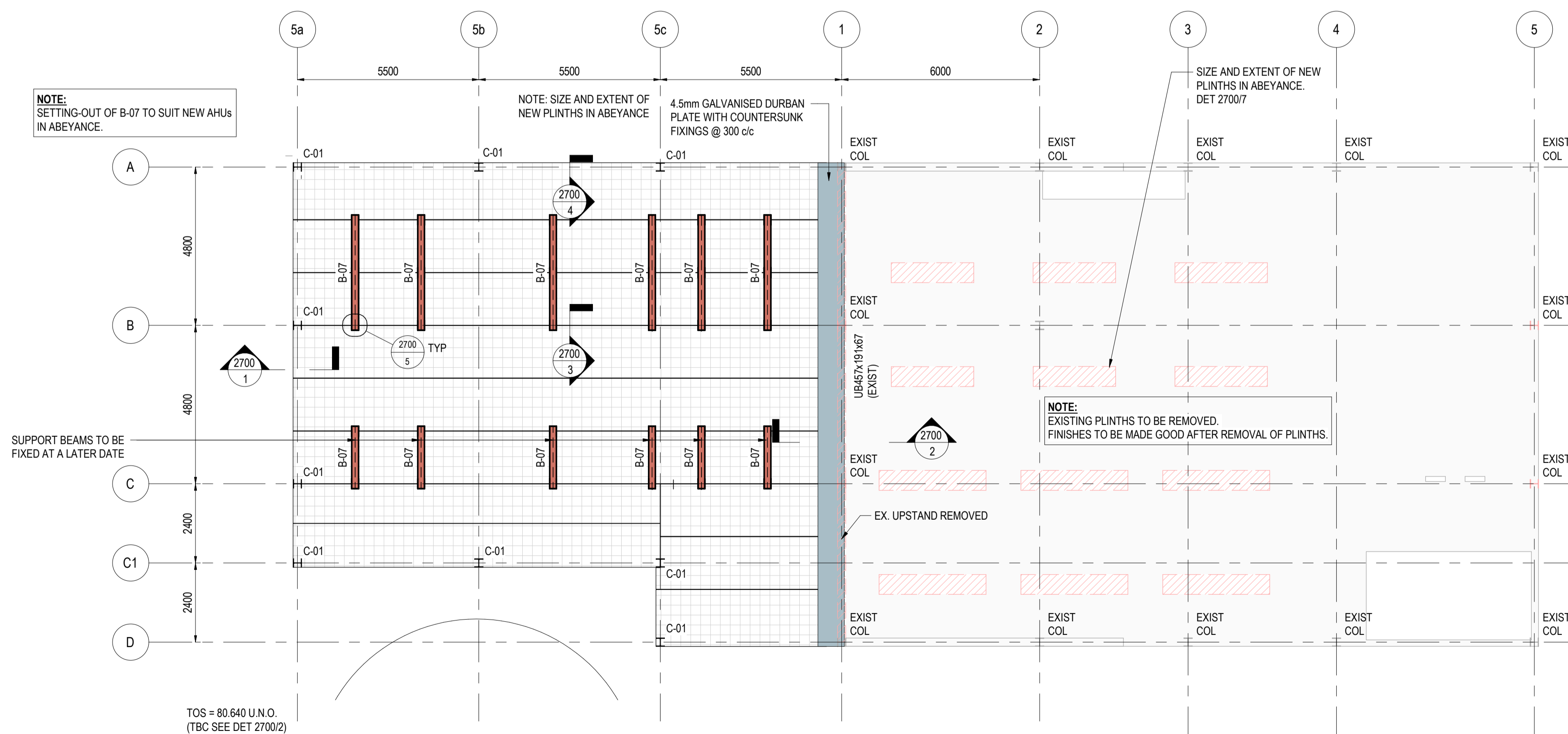
STEEL COLUMN SCHEDULE - GF/1st FL					
TYPE MARK	SIZE	F <sub>x</sub>	F <sub>y</sub>	F <sub>z</sub>	REMARKS
C-01	UC254x254x73	10.00 kN	25.00 kN	400.00 kN	

STEEL BEAM SCHEDULE - 1st FL					
TYPE MARK	SIZE	F <sub>x</sub>	F <sub>y</sub>	F <sub>z</sub>	REMARKS
B-01	UB254x102x22	0.00 kN	5.00 kN	75.00 kN	
B-02	UB254x146x31	0.00 kN	5.00 kN	75.00 kN	
B-03	UB305x102x33	0.00 kN	5.00 kN	125.00 kN	
B-04	UB305x165x40	0.00 kN	5.00 kN	125.00 kN	
B-05	UB305x165x46	0.00 kN	5.00 kN	200.00 kN	
B-06	UB305x165x54	0.00 kN	5.00 kN	125.00 kN	
B-07	UC203x203x46	5.00 kN	5.00 kN	75.00 kN	AHU SPREADER/SUPPORT BEAM

STEEL BRACING SCHEDULE					
TYPE MARK	SIZE	F <sub>x</sub> (±)	F <sub>y</sub>	F <sub>z</sub>	REMARKS
BR-01	CHS139.7x6.3	75.00 kN	0.00 kN	0.00 kN	

**CONNECTION FORCES LEGEND :**  
 ± + COMPRESSION, - TENSION  
 F<sub>x</sub> AXIAL FORCE  
 F<sub>y</sub> HORIZONTAL SHEAR  
 F<sub>z</sub> VERTICAL SHEAR  
 M<sub>x</sub> MOMENT ABOUT 'X' AXIS, TORSION  
 M<sub>y</sub> MOMENT ABOUT 'Y' AXIS, MAJOR AXIS MOMENT  
 M<sub>z</sub> MOMENT ABOUT 'Z' AXIS, MINOR AXIS MOMENT  
**NOTE:**  
 ALL FORCES ARE PROVIDED AT ULS.

**LEGEND:**  
 ↔ DENOTES SPAN OF 35 DEEP FLOOR GRILLAGE



2001 / 2 FIRST FLOOR LAYOUT  
SCALE 1 : 100

**NOTES**

- 1.0 GENERAL**
- 1.1 THE COPYRIGHT OF THIS DRAWING IS VESTED IN VERTEX ENGINEERS AND IT MAY NOT BE REPRODUCED IN WHOLE OR PART, OR USED FOR THE MANUFACTURE OF ANY ARTICLE WITHOUT THE EXPRESS PERMISSION OF THE COPYRIGHT HOLDERS.
  - 1.2 WORK TO FIGURED DIMENSIONS ONLY.
  - 1.3 THIS DRAWING IS TO BE READ IN CONJUNCTION WITH ALL RELEVANT ARCHITECTS, SERVICE ENGINEERS AND VERTEX ENGINEERS' DRAWINGS AND SPECIFICATIONS.
  - 1.4 ALL DIMENSIONS ARE IN MILLIMETRES UNLESS OTHERWISE NOTED.
- 2.0 STRUCTURAL STEELWORK**
- 2.1 EXECUTION OF ALL STEEL STRUCTURES MUST BE IN ACCORDANCE WITH BS EN 1090-2 EXECUTION CLASS 2.
  - 2.2 ALL STEELWORK TO BE GRADE S355 AND GALVANISED U.N.O.
  - 2.3 ALL COLUMNS & PARAPET LEVEL BEAMS TO BE GALVANISED.
  - 2.4 CONNECTION DESIGN IS THE RESPONSIBILITY OF THE CONTRACTOR. THE STEEL FABRICATOR IS TO COMPLETE THE DESIGN OF THE CONNECTIONS INCLUDING NEW/EXISTING CONNECTIONS TO SAFELY TRANSFER A MINIMUM SHEAR FACTORED LOAD AS NOTED IN SCHEDULE.
  - 2.5 AS A MINIMUM ALL CONNECTIONS ARE TO BE 2No. M16/8.8 BOLTS WITH 10mm THICK END PLATES.
  - 2.6 ALL WELDS TO BE MINIMUM FULL PROFILE 6mm CONTINUOUS FILLET WELD (C.F.W.) UNLESS NOTED OTHERWISE.
  - 2.7 IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO TAKE ALL NECESSARY SITE DIMENSIONS FOR FABRICATION PURPOSES.
- 3.0 FLOOR**
- 3.1 GALVANISED LIONWELD 35x5 LK208P OR SIMILAR FIXED IN ACCORDANCE WITH MANUFACTURER'S REQUIREMENTS.
  - 3.2 FLOOR DESIGNED FOR IMPOSED LOAD OF 5.0 kN/m<sup>2</sup>.
- 4.0 DRAWING SPECIFIC NOTES**
- 4.1 PROVIDE TEMPORARY WORKS TO MAINTAIN WEATHER TIGHTNESS OF EXISTING BUILDING DURING THE WORKS.

Rev	Description	By	App. By	Date
P3	REVISED TO SUIT FLOOR GRILLAGE DESIGN	AB	AJH	05/02/2024
P2	CHANGES TO SUIT SERVICES SITE SURVEY.	AB	AJH	15/01/2024
P1	PRELIMINARY	AB	AJH	24/11/2023

Client: **JAGUAR**  
 Architect: -

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Project Title: **EISAI**  
 Drawing Title: **CHILLER REPLACEMENT FIRST FLOOR LAYOUT**

Drawing Status: **PRELIMINARY**

Drawn By	Date	Checked By	Date	Scale @ A1	Project No.
AB	NOV-23	GA	NOV-23	As indicated	25147

Dwg No.	Revision	Suitability
25147-VTX-XX-01-DR-S-2001	P3	S3