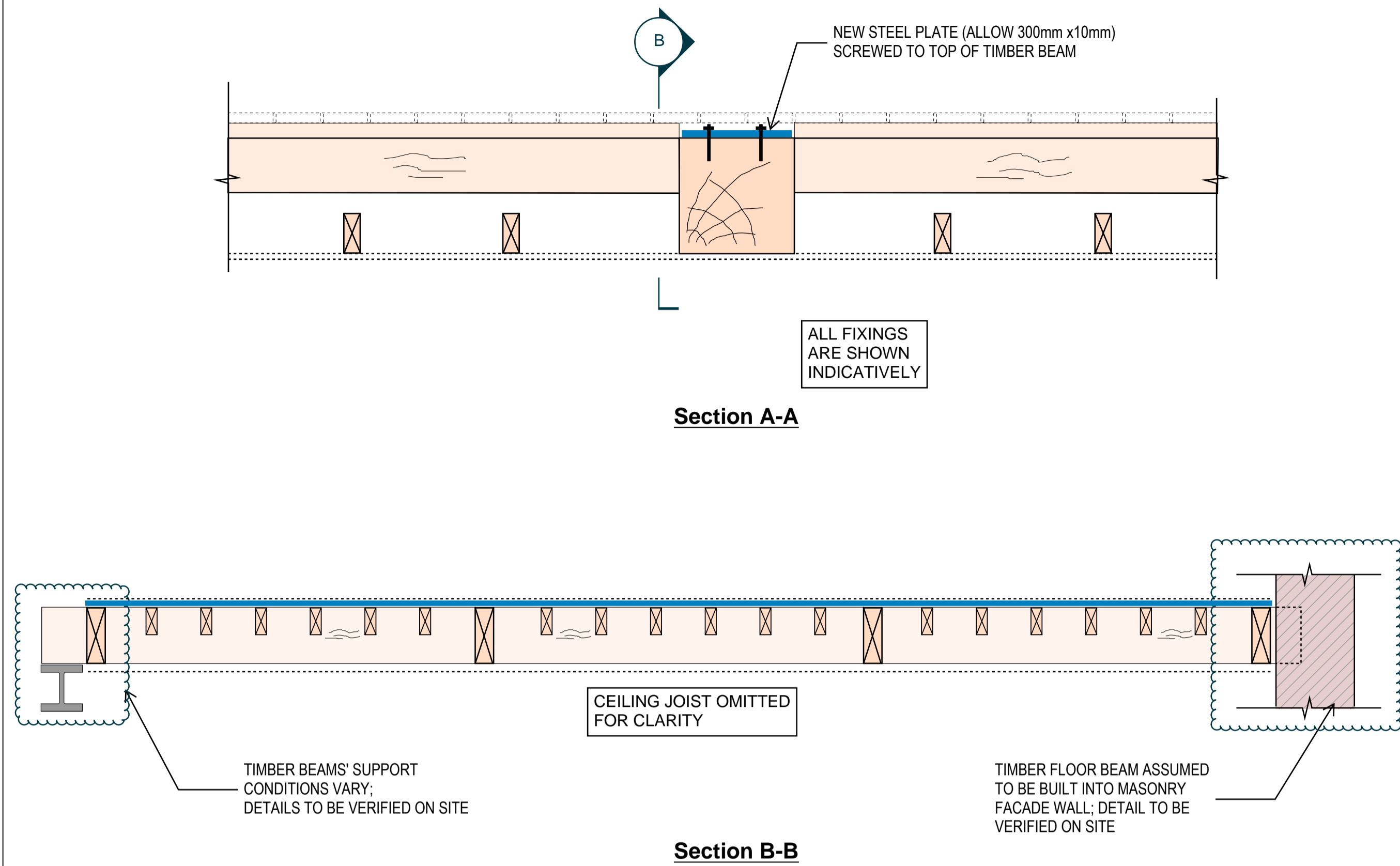
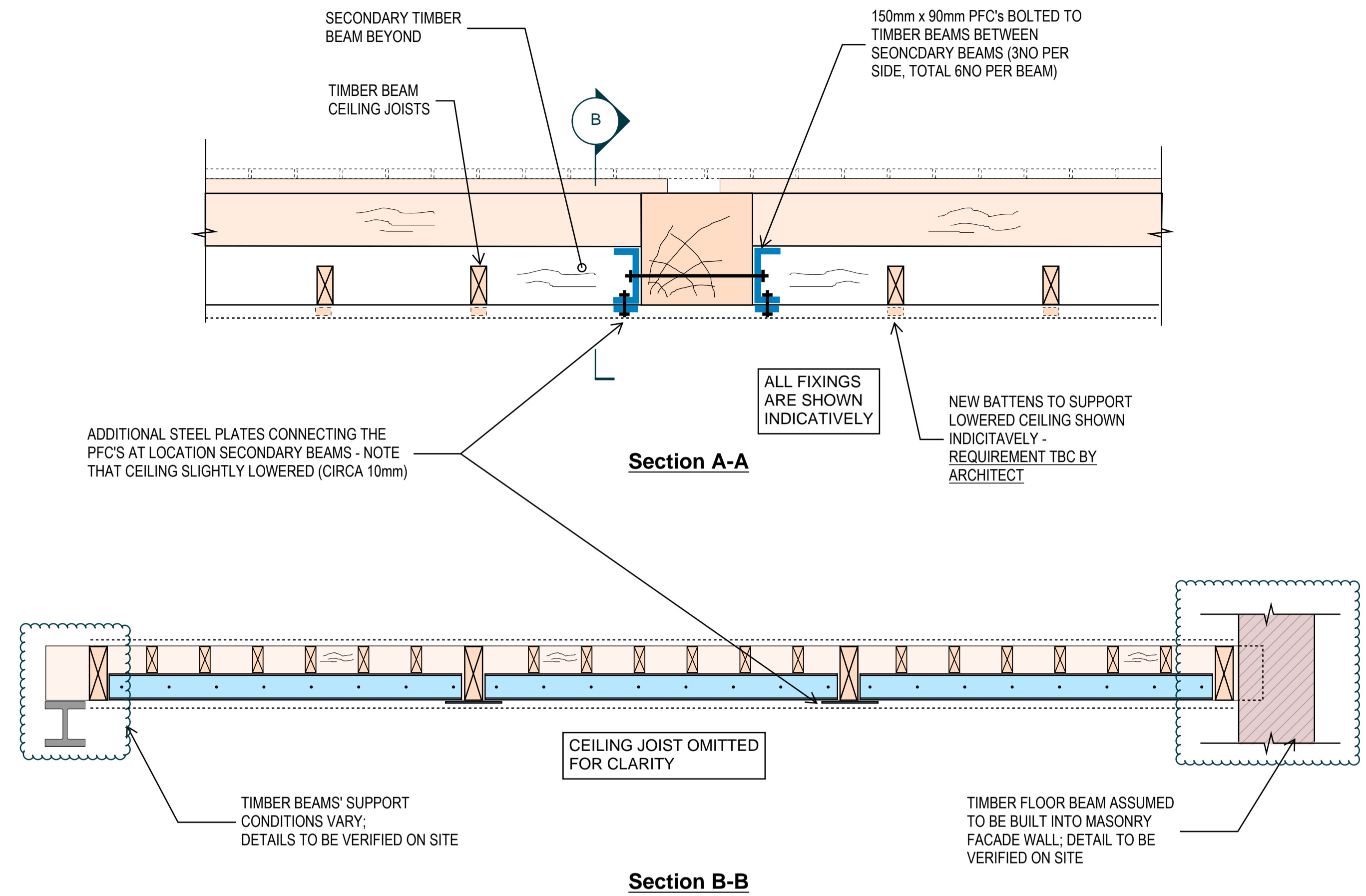


OPTION 1 - PLATE TO TOP OF BEAM

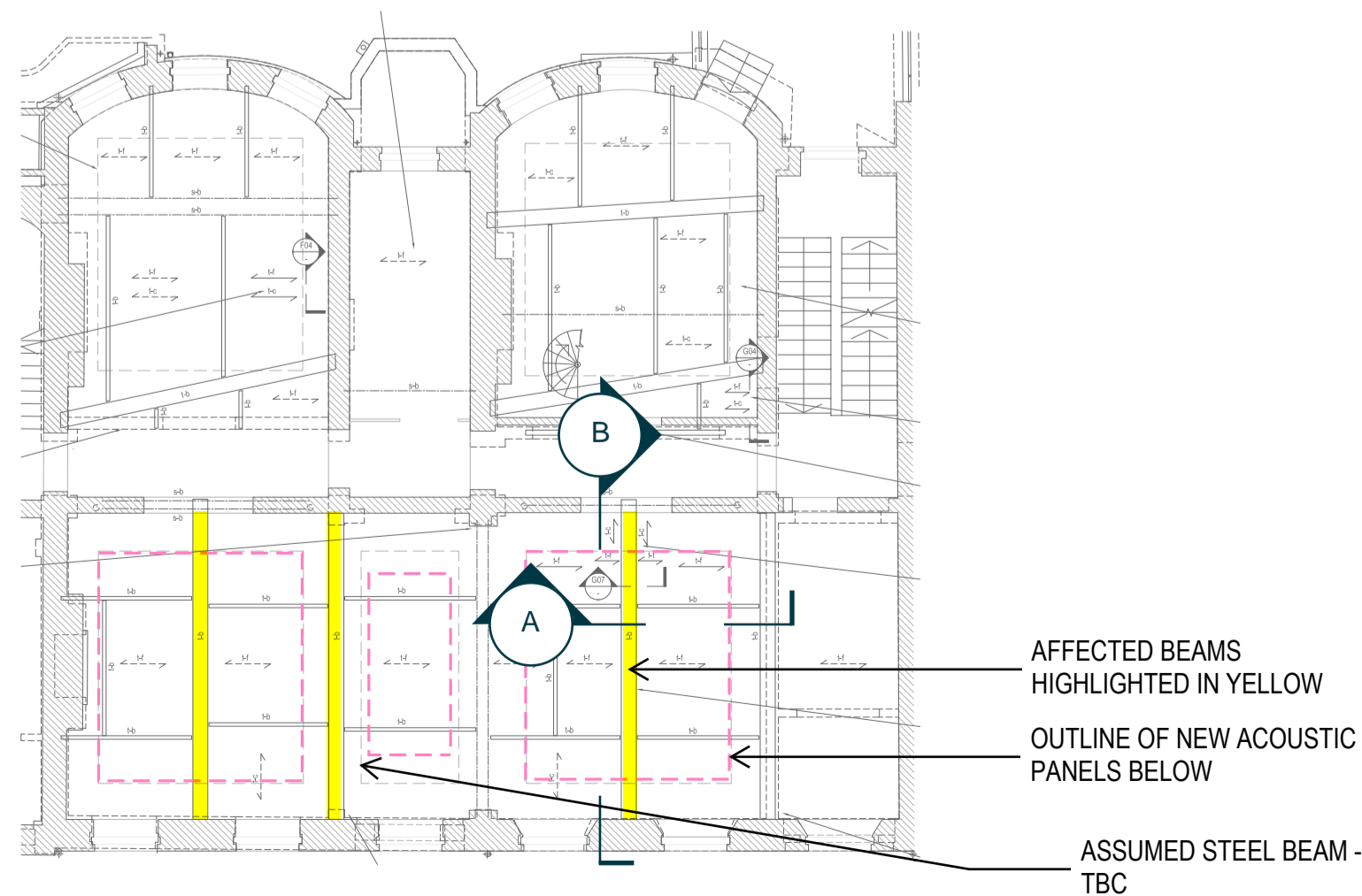


- INSTALLED FROM ABOVE - ACCESS TO THE LIBRARY REQUIRED ✘
- CAN BE INSTALLED ALONG THE FULL LENGTH OF BEAM ✔
- TEMPORARY PROPPING NOT REQUIRED ✔
- SIMPLER INSTALLATION FROM H&S PERSPECTIVE (NO WORKS AT HEIGHT OR OVERHEAD LIFTING) ✔
- NO CHANGES TO CEILING (HOWEVER, NOTE THAT CEILING WILL BE CUT WHERE NEW ACOUSTIC PANELS ARE INSTALLED IN THE NEXT PHASE) ✔

OPTION 2 - PFC TO BEAM SIDES



- CAN BE INSTALLED FROM BELOW - NO ACCESS TO LIBRARY REQUIRED (HOWEVER, LIBRARY SHOULD NOT BE IN USE DURING WORKS TAKING PLACE) ✔
- TEMPORARY PROPPING NOT REQUIRED ✔
- 150mm DEEP CHANNELS REQUIRED - AVAILABLE DEPTH TBC (NOT CONCLUSIVE FROM THE INVESTIGATION WORKS) ?
- CEILING LEVEL TBC TO ACCOMMODATE STEEL PLATES & FIXINGS (CIRCA 10mm) ?/✔



KEY PLAN

THE FOLLOWING ITEMS ARE TO BE DESIGNED BY OTHERS:

- ACOUSTIC PANEL AND ASSOCIATED EQUIPMENT
- ALL SPECIALIST UNISTRUT FRAMING AND ASSOCIATED CONNECTIONS

ASSUMED NEW LOADS FROM NEW ACOUSTIC PANELS:

- 30kg/m PERIMETER TRACK LOAD
- 8kg/m² ACOUSTIC PANEL
- SELF WEIGHT OF NEW FRAMING, ALLOWED 20kg/m²

ASSUMED NEW LIVE LOADS:

- 250kg/m²

ITEMS TO BE CONFIRMED:

THERE ARE A NUMBER OF AREAS OF THE EXISTING BUILDING WHICH WE STRONGLY RECOMMEND INVESTIGATING PRIOR TO COMMENCING THE WORKS. SOME AREAS WERE SCOPED AS PART OF THE INVESTIGATIVE WORKS BUT ABANDONED, OTHER AREAS WILL REQUIRE CONFIRMATION TO ASSESS VIABILITY OF PROPOSALS AND DE-RISK THE WORKS ON SITE.

THESE INCLUDE: -

- i. CONFIRMATION OF THE FORM OF CONSTRUCTION OF THE ASSUMED 2 NO. STRUCTURAL DOWNSTANDS WITHIN THE LECTURE HALL
- ii. EXPOSING THE END CONNECTIONS OF THE EXISTING PRIMARY TIMBER BEAMS IN KEY LOCATIONS
- iii. CONFIRMATION OF DEPTH OF BEAM FROM UNDERSIDE OF FLOOR JOISTS
- iv. SURVEY OF BEAM LEVELS AND DEFLECTIONS
- v. CONDITION OF BEAMS AND DAMAGE, WANES, SHAKES OR OTHER ISSUES WHICH MAY REQUIRE REPAIR
- vi. CONFIRMATION OF OBSTRUCT RUCTIONS, MODIFICATIONS OR OTHER EXISTING ELEMENTS WHICH MAY IMPEDE OR AFFECT INSTALLATION OF STRENGTHENING WORKS.

NOTES:

1. DO NOT SCALE FROM THESE DRAWINGS
2. EXISTING STRUCTURAL ARRANGEMENT IS BASED ON THE INVESTIGATION CARRIED OUT BETWEEN 28/11/2022 AND 01/12/2022 AND SUBSEQUENT REPORT BY NEUXPARK ISSUED ON 07/12/2022
3. STRENGTHENING WORKS TO EXISTING TIMBER BEAMS ARE REQUIRED TO ACCOMMODATE INCREASED LOADS DUE TO INSTALLATION OF NEW ACOUSTIC PANELS IN THE LECTURE HALL (BELOW LIBRARY)

REV	DESCRIPTION	BY	CHK	DATE
P01	ISSUED FOR COMMENT	IN	AS	08/02/2023

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Project:
ARCHITECTURAL ASSOCIATION REFURBISHMENT

Drawing Title:
LECTURE HALL, PRIMARY BEAM STRENGTHENING OPTIONS

Scale at A1:	Date:	Drawn:	Checked:
NTS	FEB 2023	IN	AS
Drawing No.	Revision		
309581-1-AH-XX-XX-SK-S-016	P01		