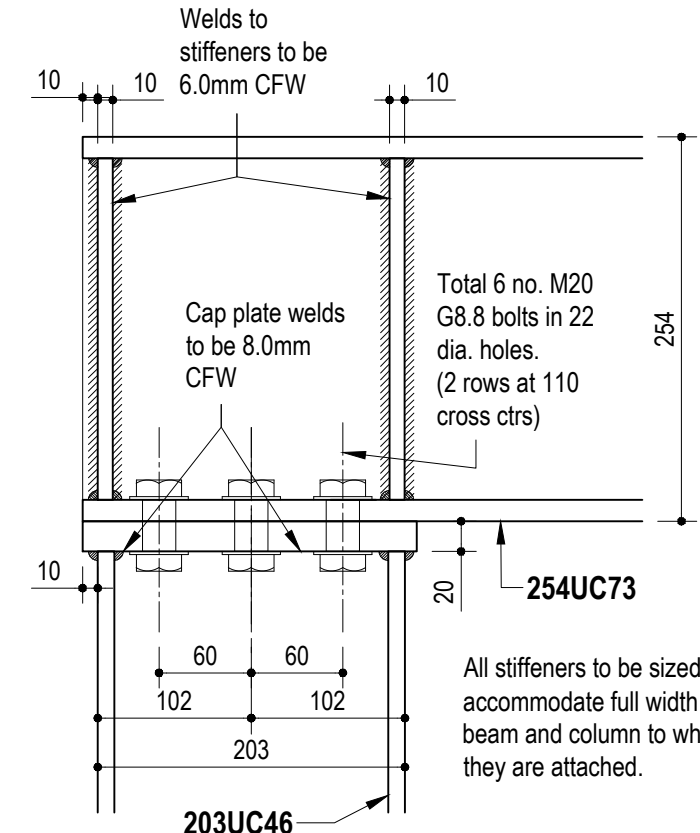


STEELWORK NOTES.

1. **Encasing Steelwork in Concrete:** Steelwork to be encased in concrete to be left **unprimed**. Fully wrap bottom beam member of box frame in D49 mesh fabric before concrete pour. Minimum encasement cover thickness to steelwork to be 100mm at top & sides unless specified differently on plans. At ends, reduce to 75 to minimize breakout of existing foundations. Note these are 'minimum req'ts' and overall width of encasement must not be less than width of original foundations. Do not pour concrete for either foundations or encasement of frame bottom without Building Control inspection and approval. If existing concrete footings to original rear wall are sufficiently low, then new encased member may be cast on top of existing subject to site inspection and

Building Control approval. At all times a minimum of 100mm of concrete cover is required to the underside of the beam.
 2. **Concrete. Mix For Encasing Steel Beams:** To be RC35. Ensure full compaction is achieved. Do not segregate water content by 'over-compaction'.
 3. **Steelwork Grade:** All steelwork to grade S275 except hollow sections. Hot rolled hollow sections - S355. All structural steelwork to be provided with 1/2 fire protection to Architect's specification.
 4. **Protection:** Exposed steelwork finished & fire protected to Architect's specification. Any Applied primer to be compatible with intumescent paint.
 5. **Packing Gap Above Top of Frame And Steel Beams:** 1:3 Mix

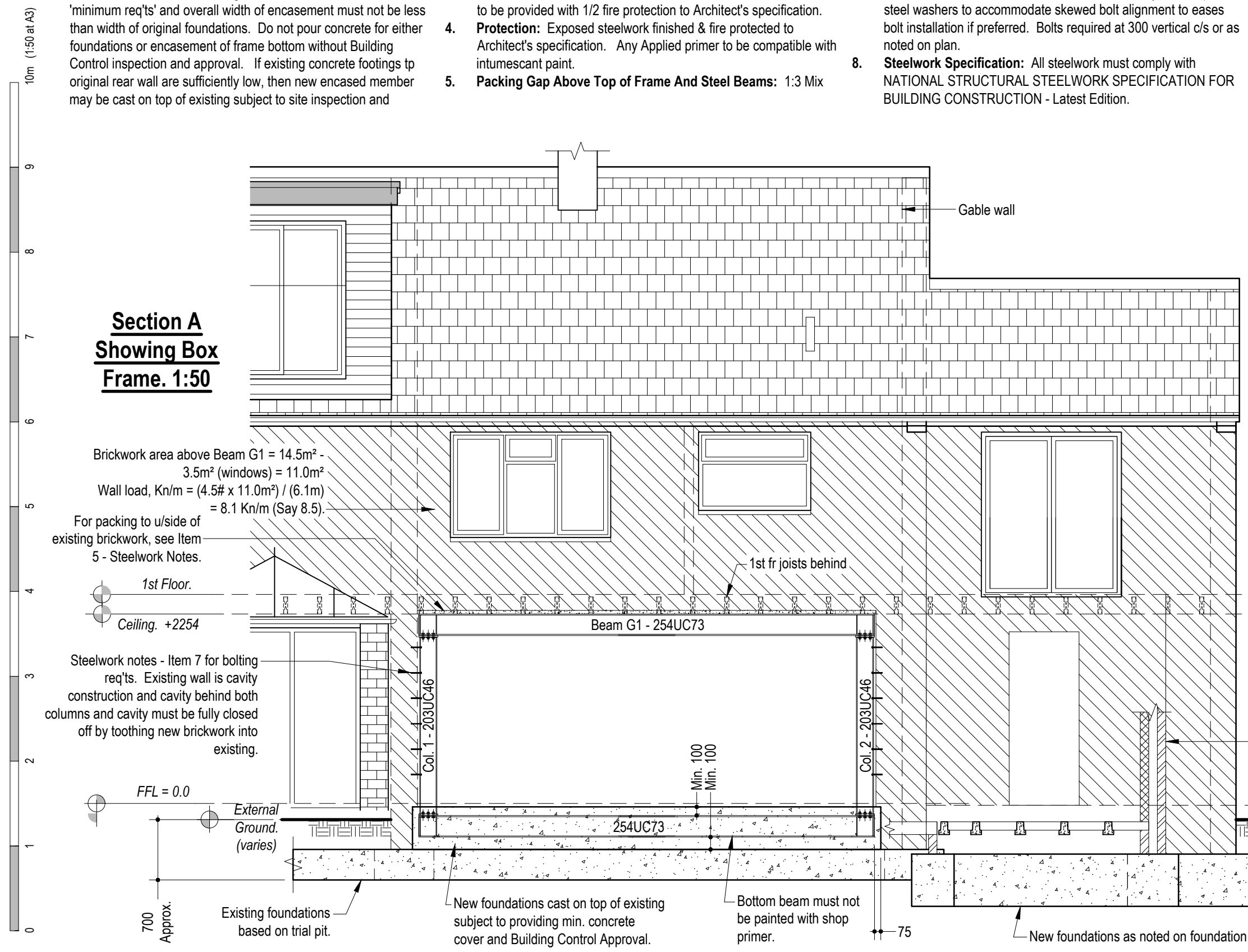
Cement to Sharp Sand mix hand damp and packed solid above Beams.
 6. **Steelwork Connections -** All 'shop' prepared and not on site. Adopt site connection if noted on SE drawings.
 7. **Fixing Columns Back To walls:** Columns to be tied to back to walls with single line of M10 resin bolts passing through steel columns with 80mm min. embedment into masonry. Use tapered steel washers to accommodate skewed bolt alignment to eases bolt installation if preferred. Bolts required at 300 vertical c/s or as noted on plan.
 8. **Steelwork Specification:** All steelwork must comply with NATIONAL STRUCTURAL STEELWORK SPECIFICATION FOR BUILDING CONSTRUCTION - Latest Edition.



Box Frame Connection
 1:5

All stiffeners to be sized to accommodate full width of beam and column to which they are attached.

Section A
Showing Box
Frame. 1:50



notes. 1. This drawing to be read in conjunction with remaining engineer's & architect's project drawings & specifications.
 2. Main Contractor to check all levels & dimensions on site and report any discrepancies.
 3. All work to be to the satisfaction of the Local Authority, statutory bodies & in accordance with current Building Regulations and Codes of Practice.

project. **9 Portway Woking Surrey GU24 9AJ**
Side & Rear Enlargement

title. **Proposed Structural Details 2 of 2**

rev.	A	Underfloor heating removed	24/10/2023
date.	28-11-2022		
scale.	As noted at A3		
issue.			
by.	Jatinder Tamrat.	m: 07810 370470.	email: jatinder.t@outlook.com

drawing no. **22-983-2** rev. **A**