

# HTA Design

HTA Design partnered with SWAPP to accelerate Stage 4 documentation on a fast-moving residential project - reducing repetitive work, improving coordination, and maintaining high-quality outputs under constant design changes.



## Results

26,667 sqm

Residential Project Delivered  
with Continuous Design  
Updates

50%

Fewer Team Members  
Required for  
Documentation Tasks

High Quality

Consistent, Accurate Stage  
4 Documentation Under  
Tight Timelines

Industry

Architecture (Residential)

Region

United Kingdom

Design Platform

Revit

Challenge

HTA Design needed to deliver accurate Stage 4 documentation for a complex residential project while managing constant client-driven design changes and coordinating with multiple external teams. The ongoing updates created repetitive manual work, time pressure, and risk of inconsistencies across models and drawing sets.

## Project Overview

HTA Design, a UK-based architectural firm known for its community-driven residential work, partnered with SWAPP to support a complex, fast-paced project comprising **four buildings, six floors each**, and totaling **26,667 square meters**. The project involved constant design updates from the client and required seamless coordination with external design teams. SWAPP's AI-powered solution helped HTA accelerate delivery, reduce manual work, and maintain high documentation quality under tight timelines.

## About HTA

HTA Design is an interdisciplinary architecture and design firm with over 50 years of experience delivering award-winning housing, urban design, and regeneration projects across the UK. Known for their collaborative spirit and commitment to place-making, HTA works with public and private sector clients to develop thoughtful, sustainable, and socially impactful environments.

## The Context

HTA engaged SWAPP to help manage Stage 4 (UK equivalent to US CD) documentation and modeling on fast-moving projects that required close collaboration with multiple stakeholders. The pace of change — driven by client requests — placed ongoing pressure on HTA's internal team to deliver quick, accurate updates while maintaining project momentum.

SWAPP stepped in to automate repetitive design modeling and documentation tasks and help streamline communication across project teams, allowing HTA to remain agile without compromising quality.

## Challenge

HTA faced two main challenges:

### 1. Time-consuming repetition with every change:

Each new client request triggered a chain of manual updates to the model and drawing set. Without automation, this cycle consumed valuable time and increased the risk of errors.

### 2. Continuous design evolution:

The client regularly introduced changes that needed to be reflected quickly and accurately in the model and documentation, under strict time constraints. This required a highly responsive workflow to avoid delays and misalignment between teams.

## Solution

To meet these challenges, SWAPP implemented the following approach:

#### **Initial Model Audit:**

A comprehensive model review to identify and correct potential issues before the first round of updates.

#### **AI-Powered Dynamic Modeling:**

SWAPP's AI engine instantly translated design updates into consistent model and document outputs, based on HTA's specific standards for dimensions, views, annotations, and layout structures.

#### **Integrated Workflow Across Teams:**

SWAPP aligned with HTA's team to establish a fast and reliable update loop, reducing friction, avoiding miscommunication, and enabling efficient project iteration without pausing the design process done in parallel by the Architects.

## The Impact: 50% Reduction in Stage 4 Documentation Effort

By automating repetitive modeling and documentation tasks, SWAPP enabled HTA Design to dramatically reduce the effort required to manage ongoing design changes. The result was a leaner, more efficient workflow that maintained documentation quality while freeing the team to focus on design and coordination.





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