



The Future of Connected Model Coordination with Autodesk Construction Cloud

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Paul Walker

Sr. Product Manager, Autodesk

Paul Walker is a Sr Product Manager in Autodesk Construction Solutions leading the group building model coordination workflows across Autodesk Construction Cloud. Paul was part of the Navisworks acquisition in 2007 and has been in software development for almost 20 years.

What's the
state of model
coordination today?



Many teams are still
using a process that was
developed 20 years ago.



The lonely BIM manager



Collaboration has only become more complicated as projects become more complex and clients expect more from less.

130

MODELS

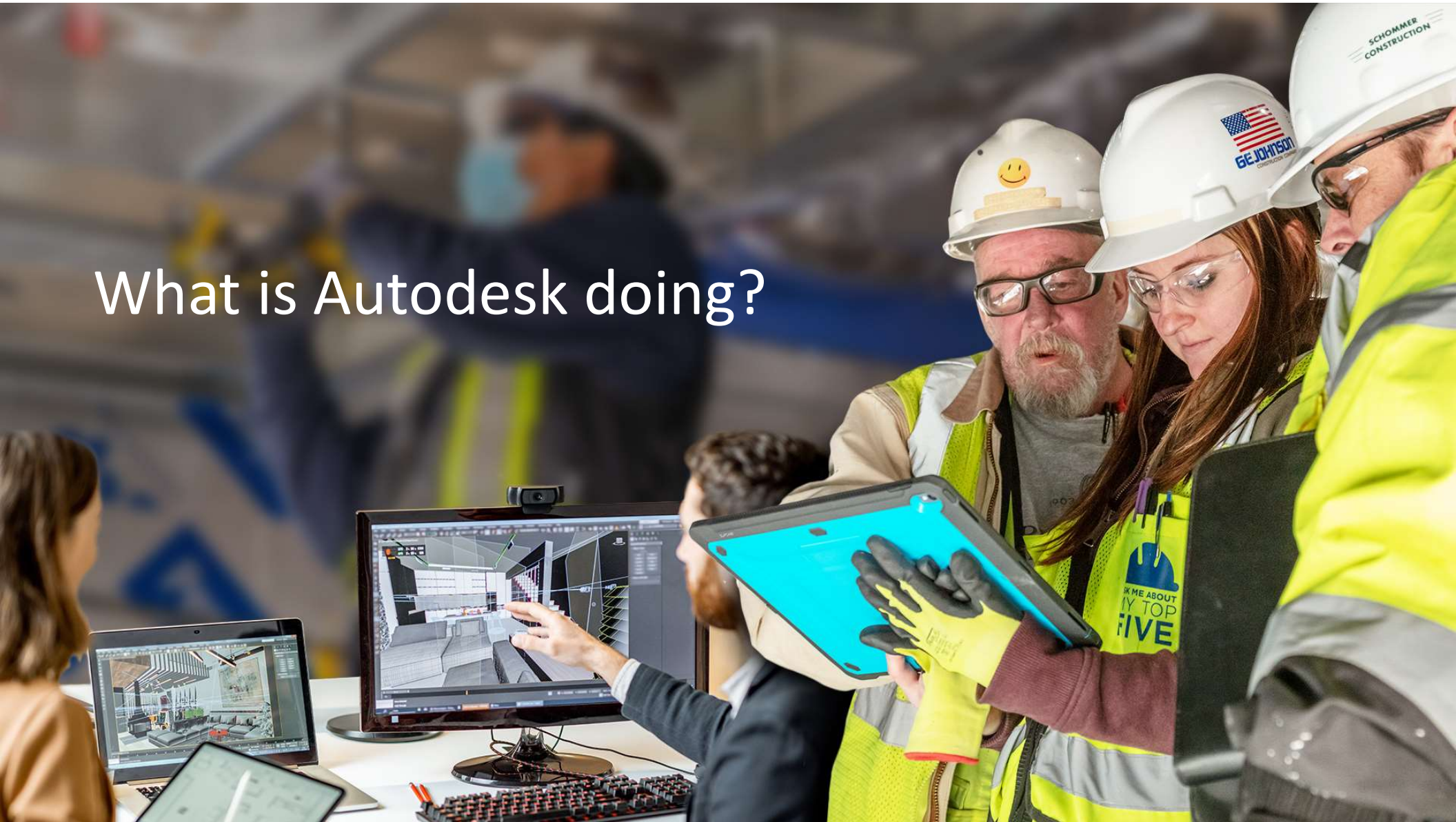
3,000+

REVISIONS

One solution:
Integrated Project
Delivery



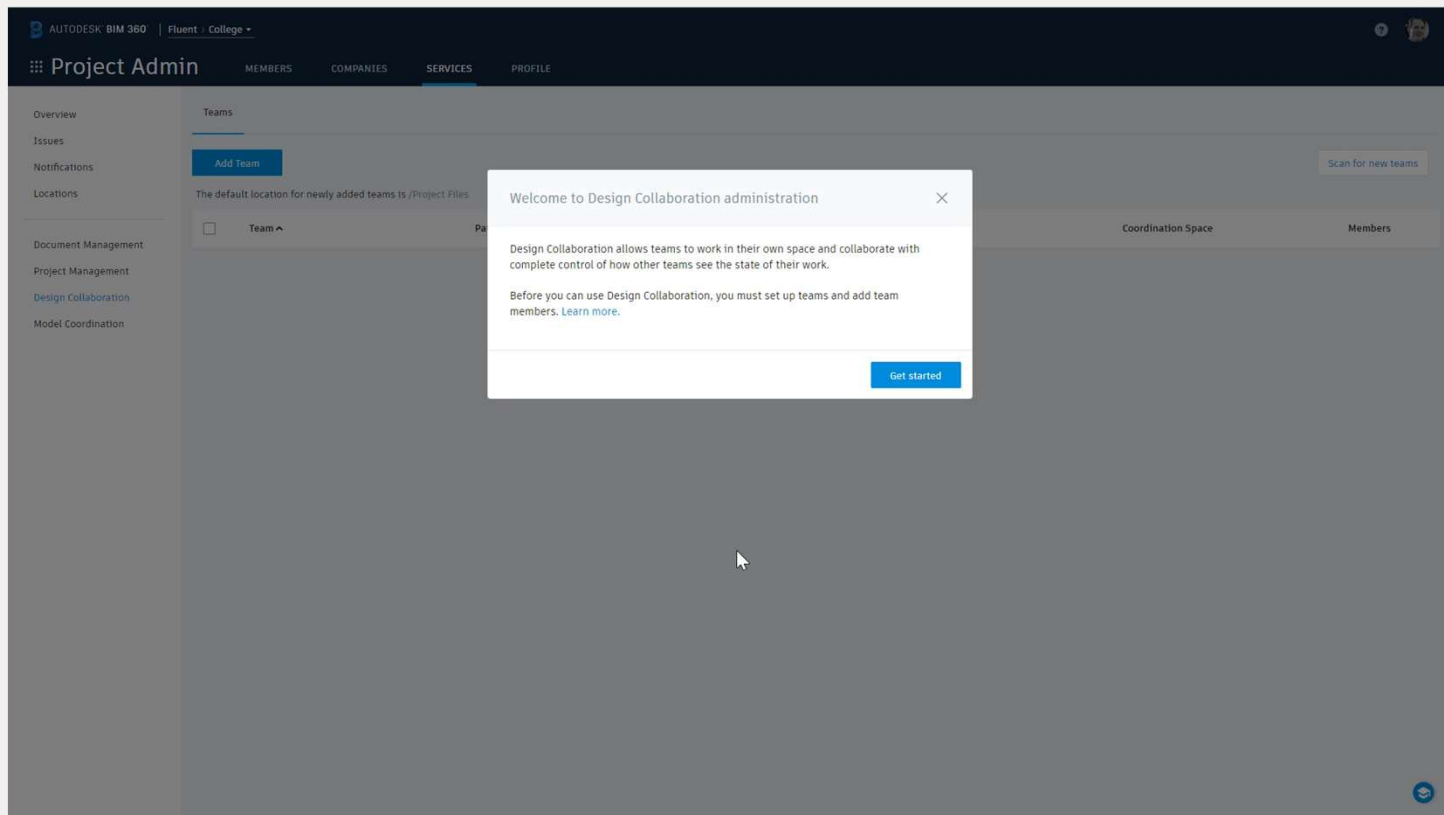
What is Autodesk doing?

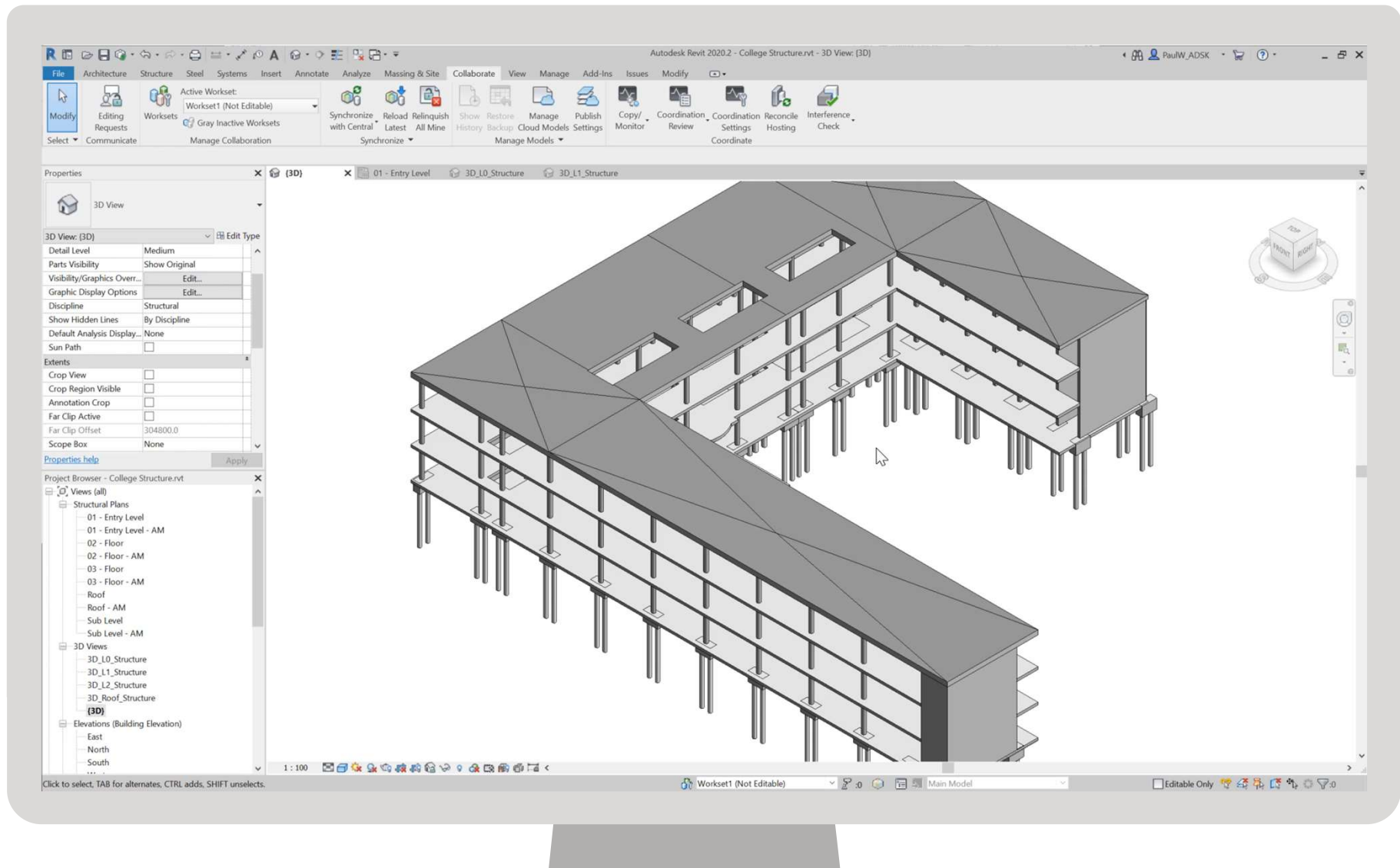


How are we doing that?

- Project setup, collaboration, sharing
- Self checking
- Formal coordination
- Coordination Meeting
- Issue Resolution - Roundtripping





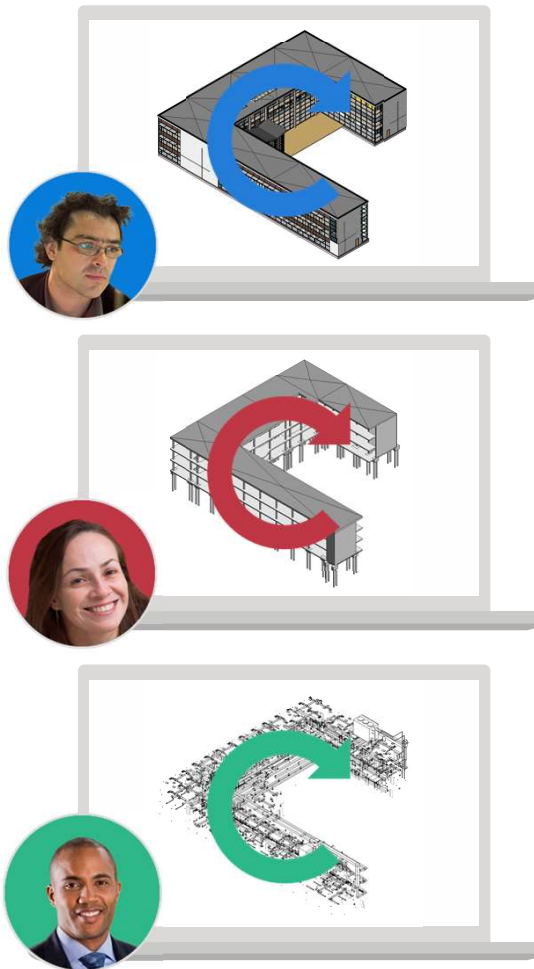


How are we doing that?

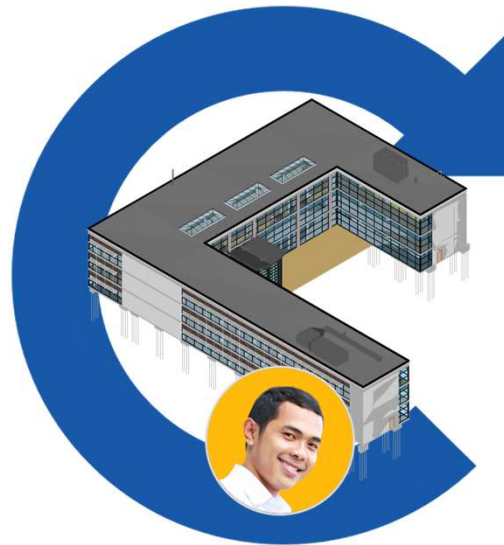
- Project setup, collaboration, sharing
- **Self checking**
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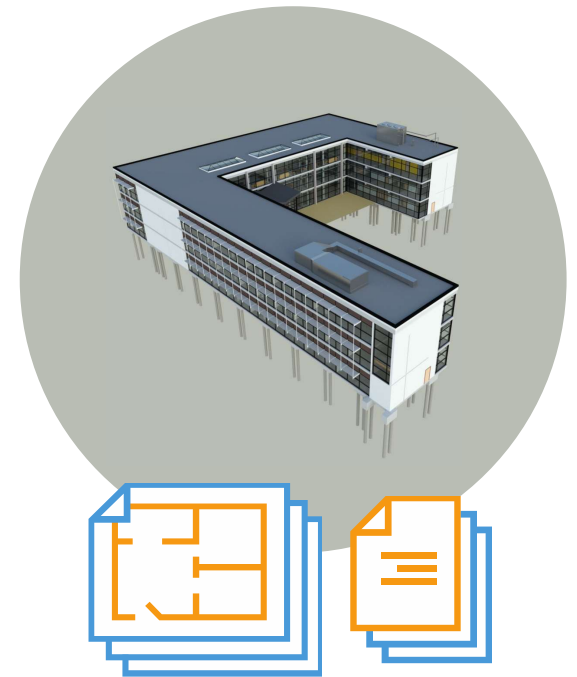
Self Check



Formal Coordination



Construction Documents



MODELS CLASHES VIEWS

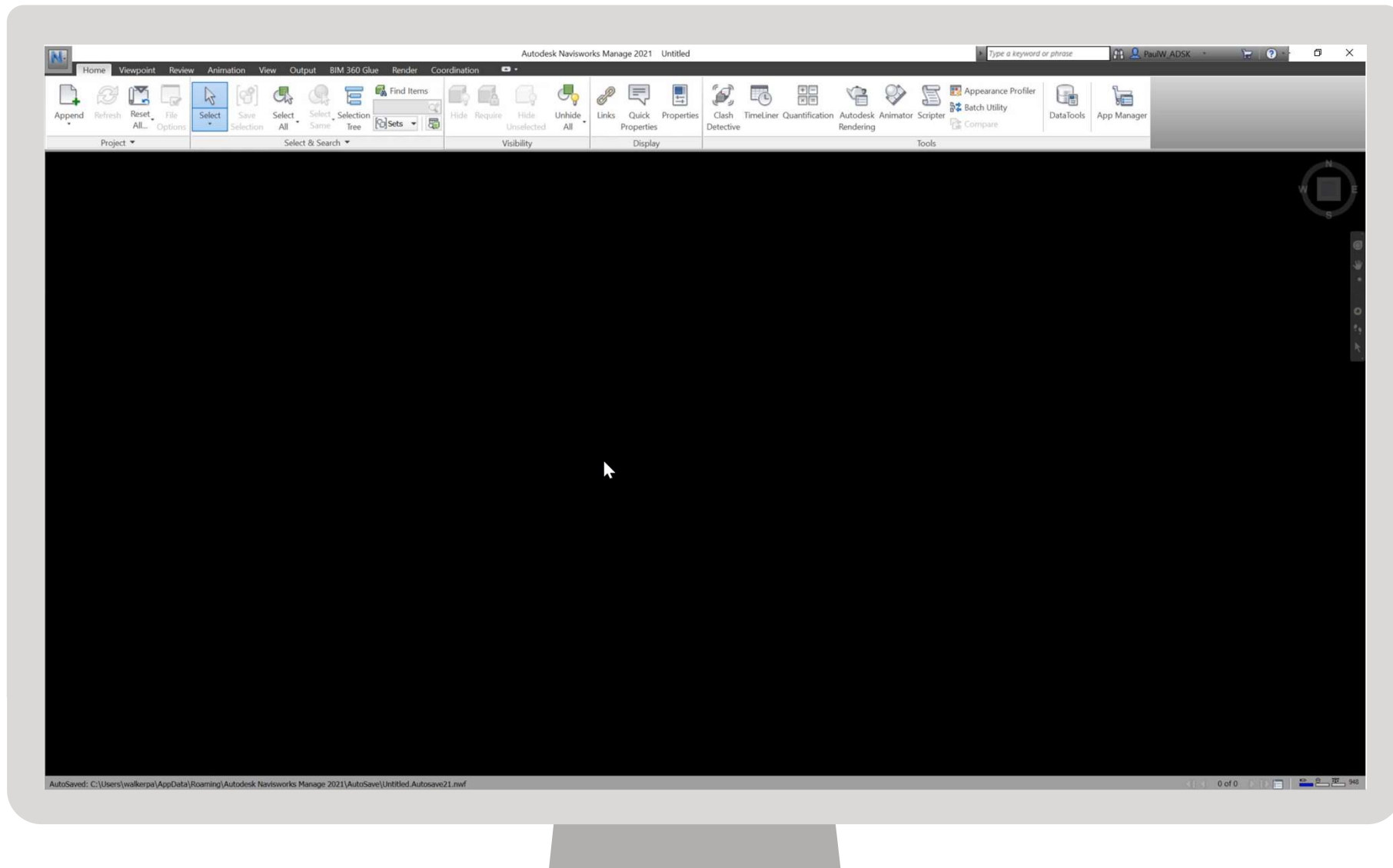
Structure Team Self Check ▼
Last clash check Today at 15:34

All models [illegible]

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Autodesk Navisworks Manage 2021 - Untitled

Home Viewpoint Review Animation View Output BIM 360 Glue Render Coordination

Open Models Manage Issues About

Coordination Issues Help

Clash Detective

L0 Arch vs Supply Air

Last Run: 11 September 2020 11:08:06
Clashes - Total: 23 (Open: 23 Closed: 0)

Rules Select Results Report

New Group Assign Re-run Test

Name	Status	Found	Approved...
New Group	Reviewed	11:08:07 11-09-2020	
Clash1	Reviewed	11:08:07 11-09-2020	
Clash6	Reviewed	11:08:07 11-09-2020	
Clash16	Reviewed	11:08:07 11-09-2020	
Clash26	Reviewed	11:08:07 11-09-2020	
Clash2	New	11:08:07 11-09-2020	
Clash3	New	11:08:07 11-09-2020	
Clash4	New	11:08:07 11-09-2020	
Clash5	New	11:08:07 11-09-2020	
Clash7	New	11:08:07 11-09-2020	
Clash8	New	11:08:07 11-09-2020	
Clash9	New	11:08:07 11-09-2020	
Clash10	New	11:08:07 11-09-2020	
Clash11	New	11:08:07 11-09-2020	
Clash12	New	11:08:07 11-09-2020	
Clash13	New	11:08:07 11-09-2020	
Clash14	New	11:08:07 11-09-2020	
Clash15	New	11:08:07 11-09-2020	
Clash17	New	11:08:07 11-09-2020	
Clash18	New	11:08:07 11-09-2020	
Clash19	New	11:08:07 11-09-2020	

Highlighting

Item 1 Item 2

Use item colors

☒ Highlight all clashes

Isolation

Dim Other Hide Other

☒ Transparent dimming

☐ Auto reveal

Viewpoint

Auto-update

☐ Animate transitions

Focus on Clash

Simulation

☒ Show simulation

View in Context

All

View

Items

Item 1	Item 2
<input checked="" type="checkbox"/> Highlight	<input checked="" type="checkbox"/> Highlight
Item Name: Basic Wall [150342] Item Type: SVF Geometry	Item Name: Rectangular Duct [402884] Item Type: SVF Geometry
College Architecture.rvt - 3D_10_Architecture <ul style="list-style-type: none">Walls<ul style="list-style-type: none">Basic Wall<ul style="list-style-type: none">Interior - 138mm Partition (1-hr)<ul style="list-style-type: none">Basic Wall [150342]	College MEP.rvt - 3D_10_HVAC <ul style="list-style-type: none">Ducts<ul style="list-style-type: none">Rectangular Duct<ul style="list-style-type: none">Mitered Elbows / Taps<ul style="list-style-type: none">Rectangular Duct [401681]Rectangular Duct [402884]Rectangular Duct [403292]

BIM 360 Issues

Refresh Help

Issue #5

DETAILS ATTACHMENTS ACTIVITY

Drag and drop files here

screenshot_2020-09-11_10-10-03_1.png
Paul Jonathan Walker - Today

Create Issue

AutoSaved: C:\Users\walkerp\AppData\Roaming\Autodesk Navisworks Manage 2021\AutoSave\Untitled.AutoSave22.nwf

1 of 1

How are we doing that?

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Mark as minutes

All changes are saved automatically

AGENDA

Video Conference Link Unspecified Add Zoom meeting

Review cross-trade model coordination, identifying blockers to sign-off / release for construction. Create and review action plans for coordination issue resolution.

▼ Sign-off Review

1. Review model content for current sign-off area.
2. Review area-relevant Open and Answered issues.
 - ▶ [Linked References](#)
3. Review any new clashes in relevant area and agree action plan for resolution.
4. Discuss any other items impacting area sign-off.

OPEN

OPEN

► [Linked References](#)

OPEN

OPEN

1. Review model content for next sign-off area.

1. Review model content for next sign-off area.
2. Review area-relevant Open issues.

OPEN

OPEN

ATTACHMENTS

ORGANIZERS (1)

Paul Jonathan Walker

INVITEES (3) ⓘ

[Add invitees](#)

 Anna Anderson-Lee
Anderson Architects

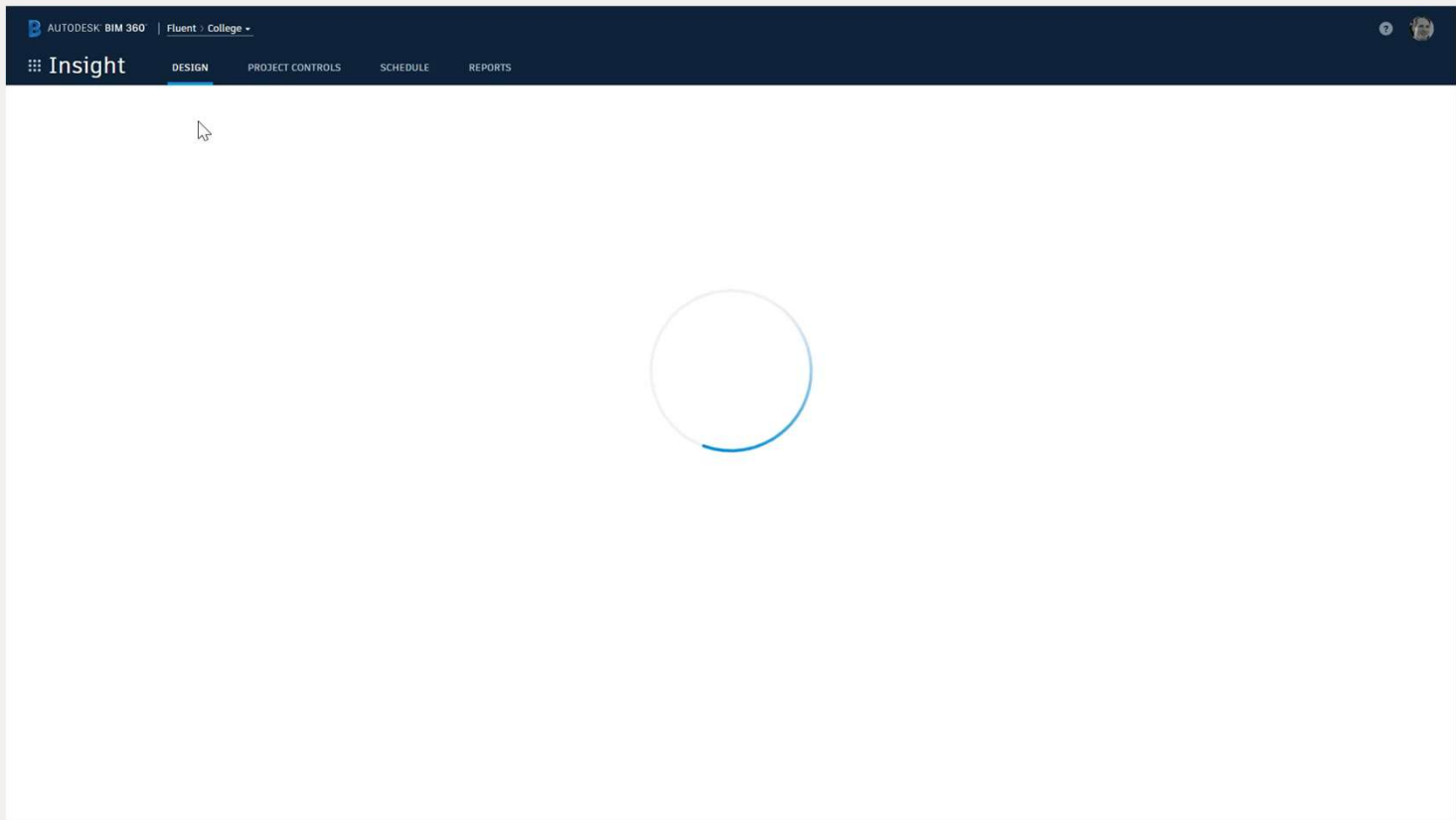
○ ...

 Deb Miller
SureStruct

○ ...

 George Turner
ValuVent Engineering

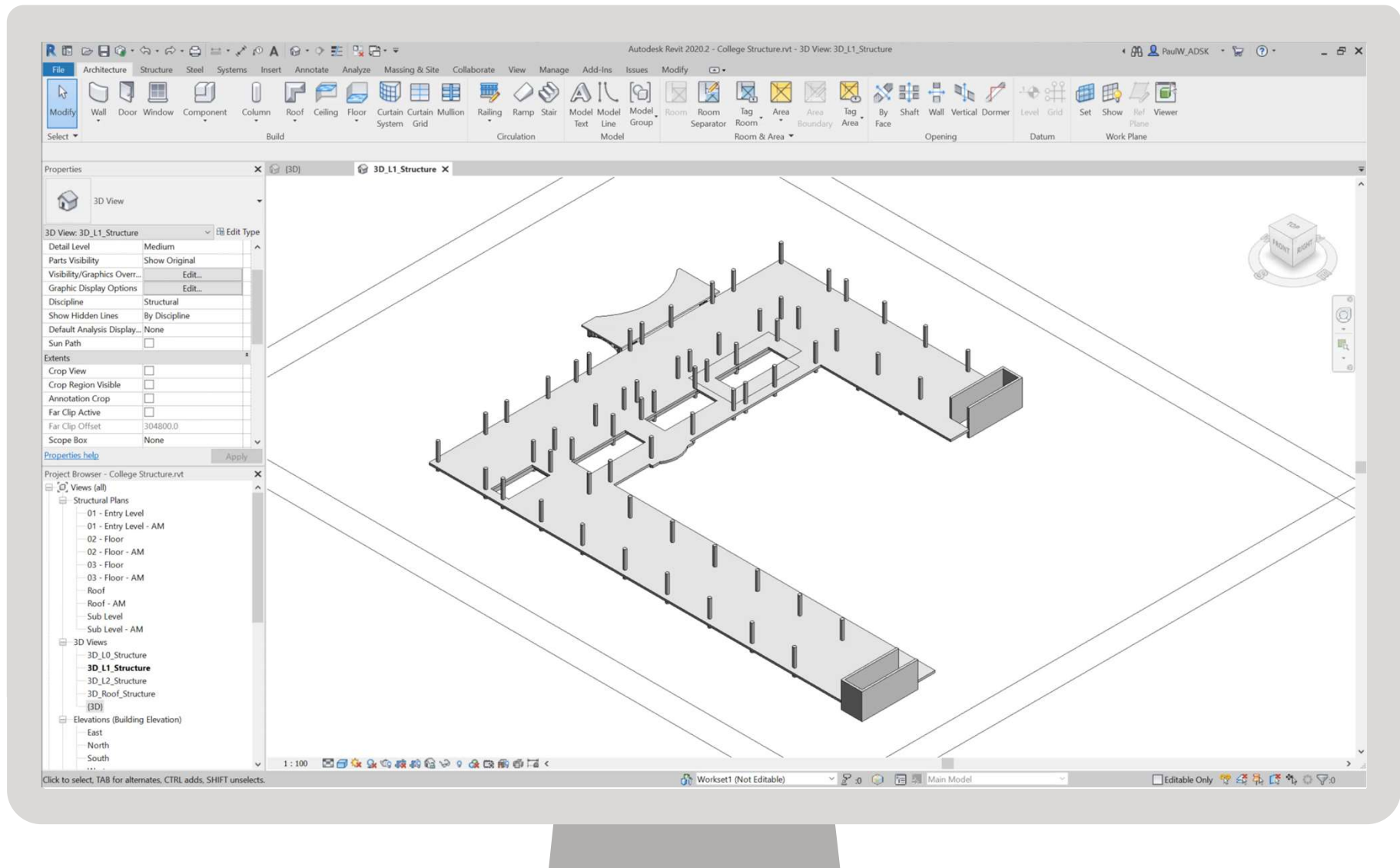
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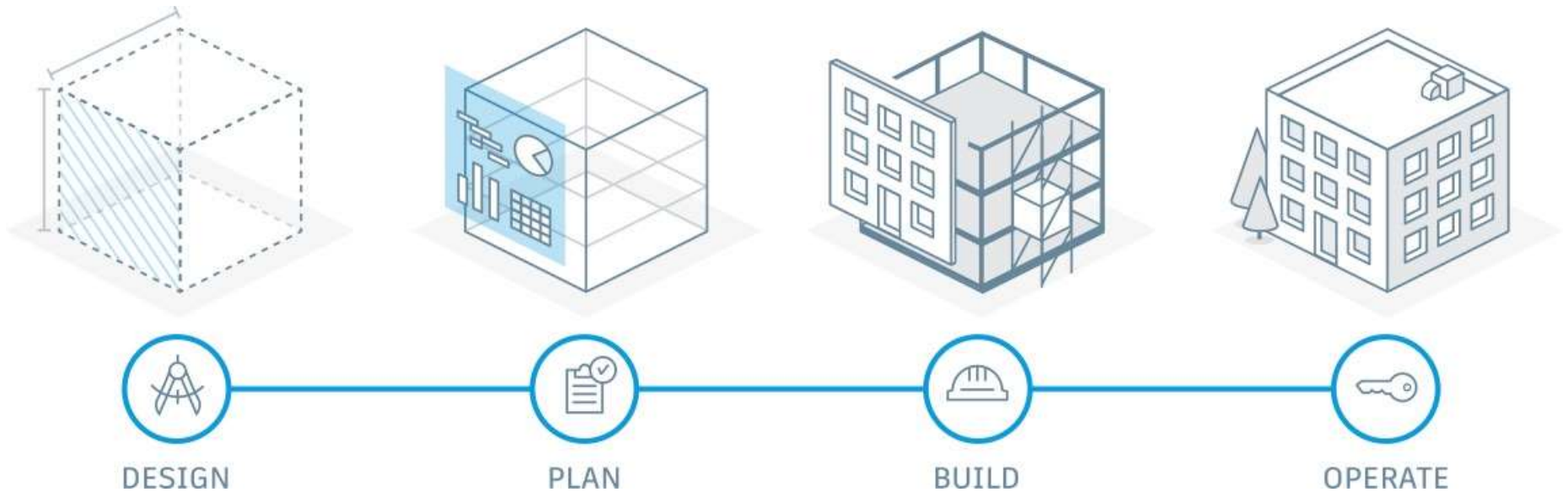
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Connected Construction with Autodesk



Outcomes of improved model coordination

Reduced rework
during
construction

Reduced number of
constructability issues
on site

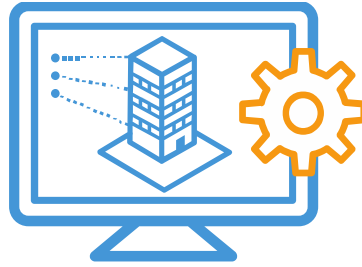
Reduced
defects at
handover

An increase in the %
of successful projects

Reduced non-
recoverable cost of
contractors

Improved plan to
actual ratio of
schedule

Interested in learning more?



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