



2022 Digital Construction Summer School

# What's New in the Autodesk Construction Cloud

New feature overview

Nicole Thomas

AEC Account Mgr. | Autodesk, Inc.

John Herridge

AEC Technical Marketing Mgr. | Autodesk, Inc.

# About me



## Nicole Thomas

AEC Account Mgr.

Autodesk, Inc.

- Located near Salt Lake City, Utah
- Joined Autodesk in 2016
- AEC industry experience in Design, Support, Consulting, & BIM/VDC Management

**Email** | [nicole.thomas@autodesk.com](mailto:nicole.thomas@autodesk.com)

# About me



## John Herridge

AEC Technical Marketing Mgr.  
Autodesk, Inc.

- 35 years of AEC industry experience
- 16 years with Autodesk Education team
- Autodesk University speaker for multiple years
- Autodesk Certified Instructor Platinum

**Email | [john.herridge@autodesk.com](mailto:john.herridge@autodesk.com)**

# Presentation agenda

- Autodesk Construction Cloud platform
- Autodesk Takeoff
- Autodesk BIM Collaborate
- Autodesk Build
- PlanGrid Build mobile app
- Live demos
- Q & A



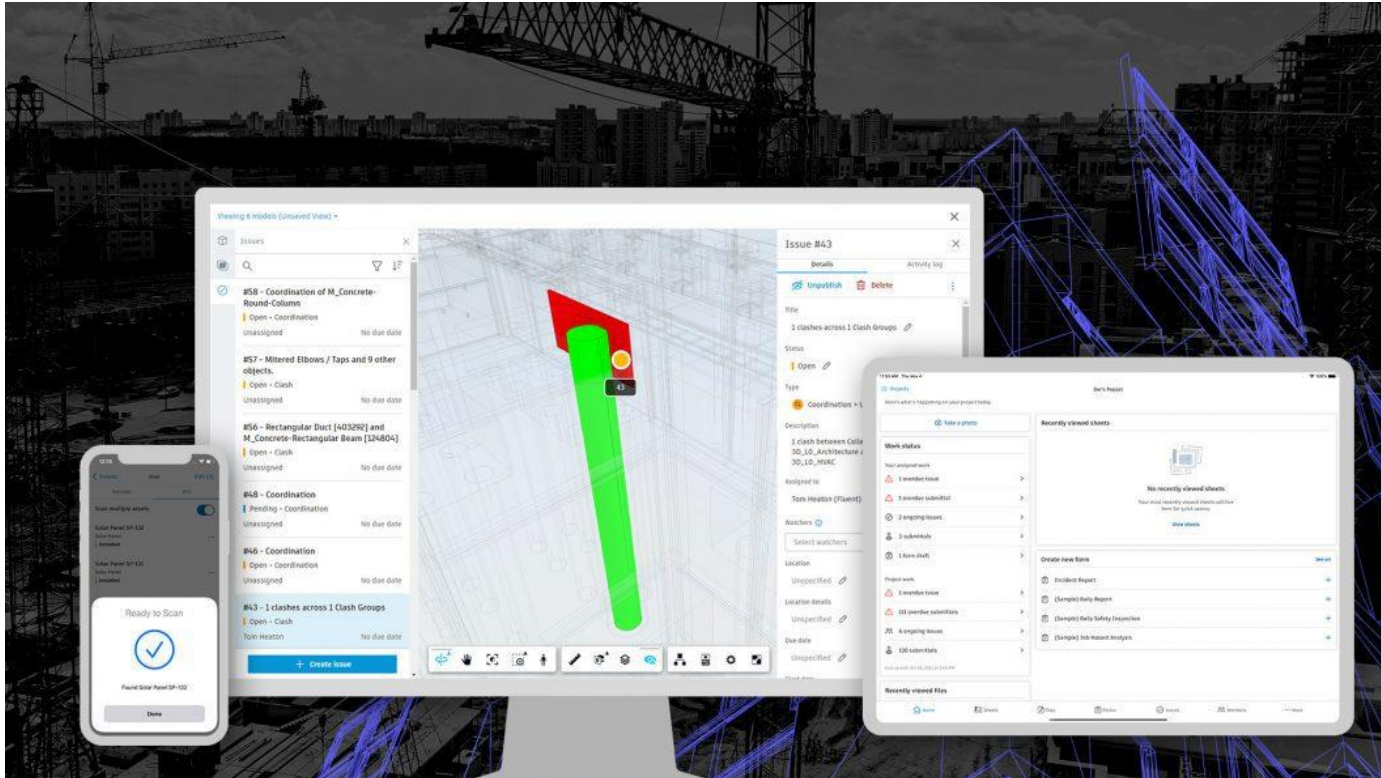


# Autodesk Construction Cloud platform

New features

# Access to project files on mobile app

Autodesk Construction Cloud



# Bridge

## Autodesk Construction Cloud



The screenshot displays the Bridge interface with the 'Outgoing' tab selected. A table lists outgoing transfers with columns for Package Name, Type, Sent To, Sent By, Status, and Status Updated. A search bar and a 'Filter by' sidebar are also visible.

Bridge

Incoming **Outgoing** Automations Bridged Projects

Search...

| Package Name      | Type  | Sent To        | Sent By             | Status   | Status Updated      |
|-------------------|-------|----------------|---------------------|----------|---------------------|
| Files March 1,... | Files | 22 Rothschi... | jadie.fanganello... | Accepted | Today at 10:42 A... |
| Sheets Dece...    | Sheet | -              | matthew.burnes...   | Accepted | December 9, 2021    |
| Sheets Dece...    | Sheet | -              | matthew.burnes...   | Accepted | December 9, 2021    |
| Sheets Octob...   | Sheet | Automatio...   | matthew.burnes...   | Accepted | October 26, 2021    |
| Sheets Octob...   | Sheet | Automatio...   | matthew.burnes...   | Accepted | October 25, 2021    |
| Sheets Octob...   | Sheet | Automatio...   | matthew.burnes...   | Accepted | October 22, 2021    |
| Sheets Octob...   | Sheet | Automatio...   | matthew.burnes...   | Accepted | October 19, 2021    |

Showing 1 - 7 of 7

Filter by

Type

- All
- All
- Sheets
- Files

Sent by

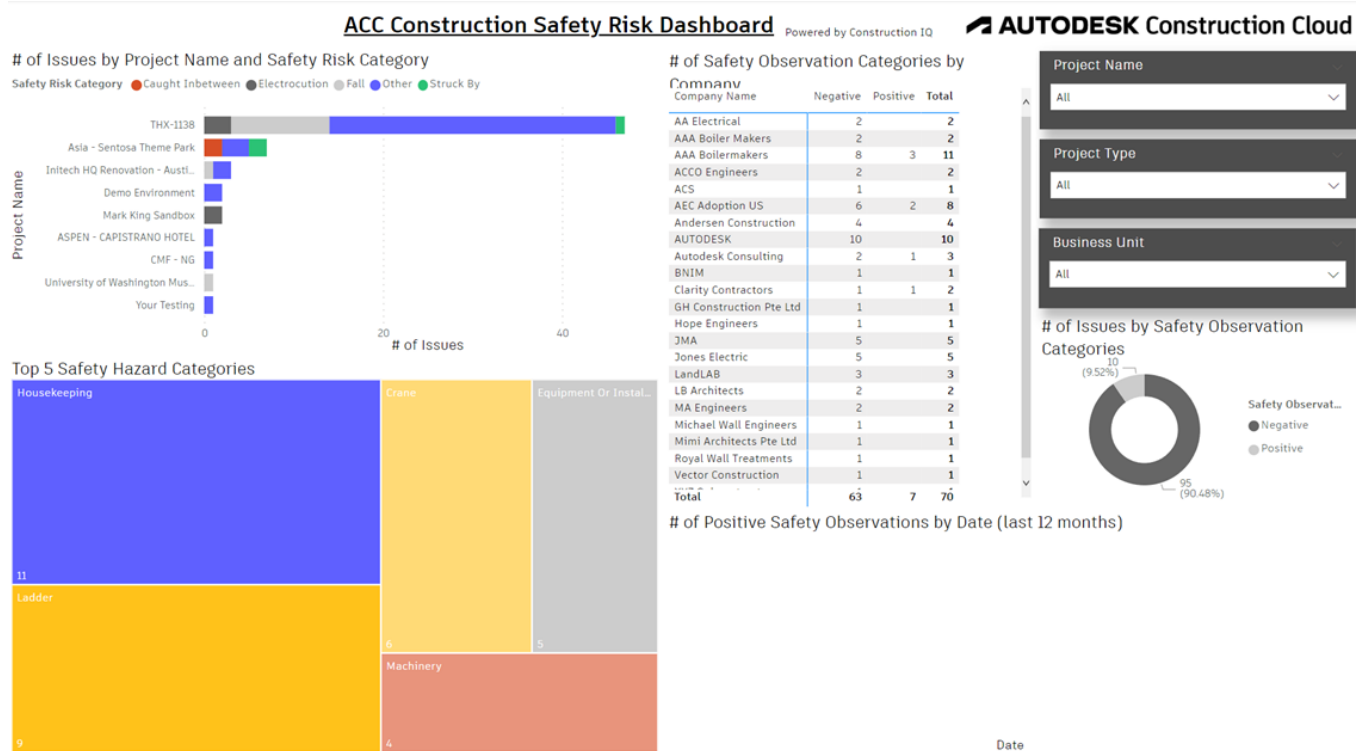
Select...

Sent through an automation

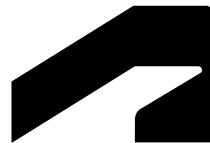
Show all transfers

# Power BI

## Autodesk Construction Cloud







# Autodesk Takeoff

New features

# IFC file support

## Autodesk Takeoff

The screenshot displays the Autodesk Takeoff software interface. On the left, a search bar is visible above a list of materials. The central area shows a 3D model of a building with a red structural overlay. On the right, a metadata panel displays project information. At the bottom, an inventory table is shown with columns for Name, Count, Quantity, Unit, Classification, and Document.

| Name             | Count | Quantity | Unit | Classification | Document |
|------------------|-------|----------|------|----------------|----------|
| 12" Shell Brick  |       | 25348.00 | SF   |                |          |
| HSS12X12X1/2     |       | 1826.00  | LF   |                |          |
| HSS12X12X1/2     |       |          |      |                |          |
| HSS12X12X1/4     |       |          |      |                |          |
| Round Column 12" |       | 1375.50  | LF   |                |          |
| W10X33           |       |          |      |                |          |
| W14X120          |       | 12914.97 | LF   |                |          |
| W40X149          |       | 240.00   | LF   |                |          |
| W40X149          |       |          |      |                |          |
| W8X10            |       |          |      |                |          |

Metadata Panel:

- Identity Data**
  - Organization...
  - Organization...
  - Building Na...
  - Author
- Energy Analysis**
  - Energy Setti...
- Other**
  - Project Issu... 03/12/2020
  - Project Status Project Status
  - Client Name Seaport Land Developers
  - Project Addr... Enter address here
  - Project Name Seaport Civic Center
  - Project Num... 1-789

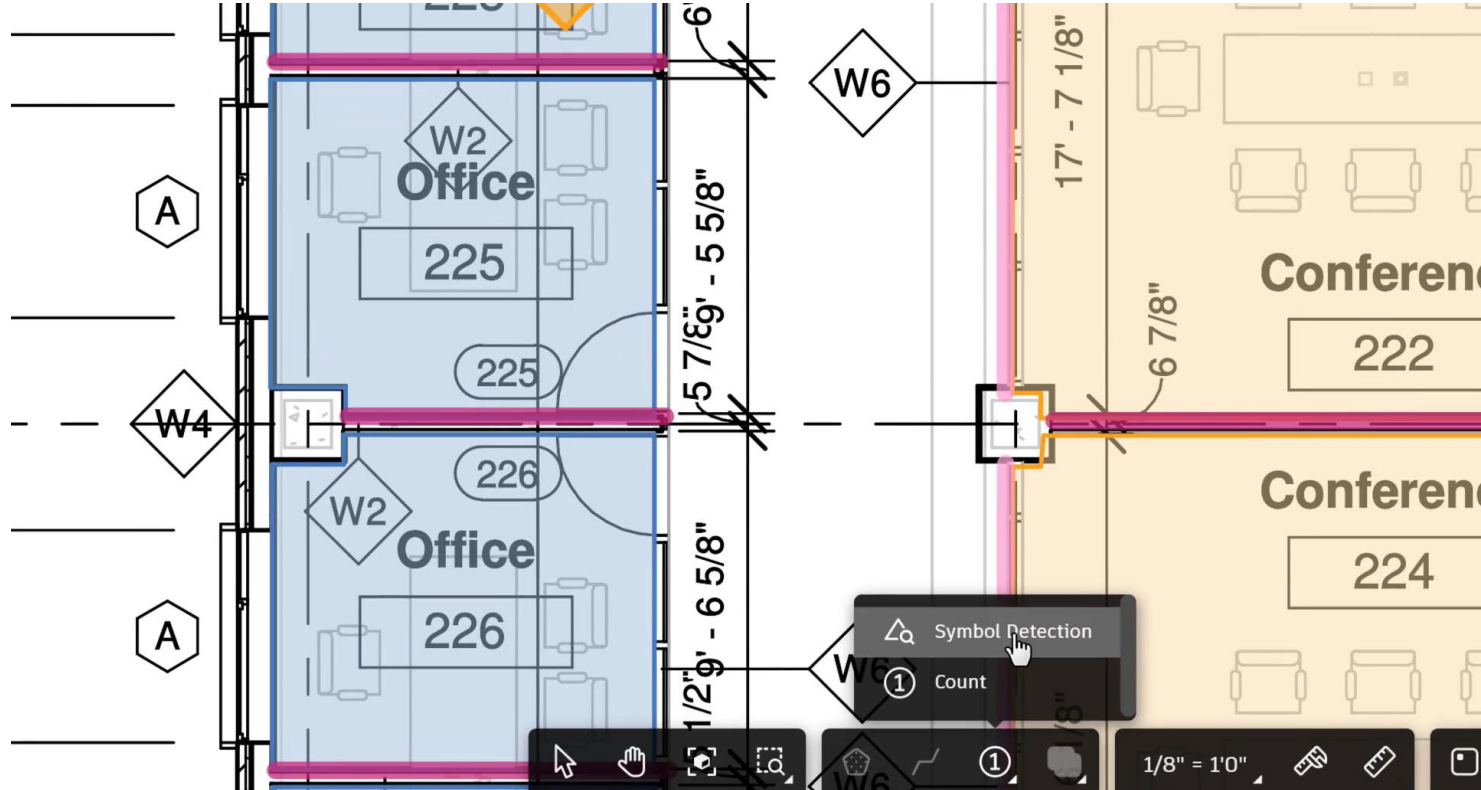
Inventory Panel:

Group by: Takeoff

Document: Round Column 12"

# Symbol detection

Autodesk Takeoff



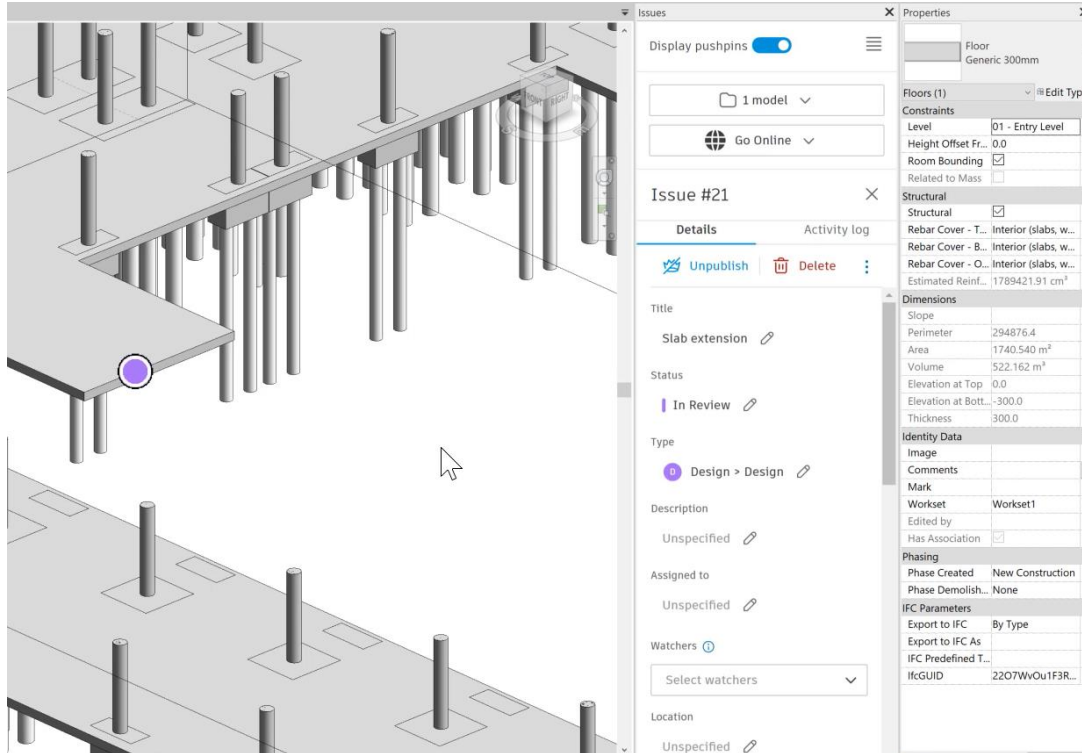
A 3D architectural rendering of a building's structural frame, showing a complex network of interconnected beams and columns. The structure is rendered in a metallic, reflective material, possibly steel or aluminum, with a dark grey or black finish. The perspective is from a low angle, looking up at the structure, which creates a sense of height and scale. The lighting is dramatic, highlighting the sharp edges and the reflective surfaces of the beams.

# Autodesk BIM Collaborate

New features

# Issues add-in update

Autodesk Revit



## Clash tolerance settings

### Units

Select the units that tolerance is displayed in.

Imperial

inches

Metric

millimetres

### Range

Enter values to define the ranges used for clash tolerance.

Lower limit

50

Upper limit

100

### Preview

5

< 50

10

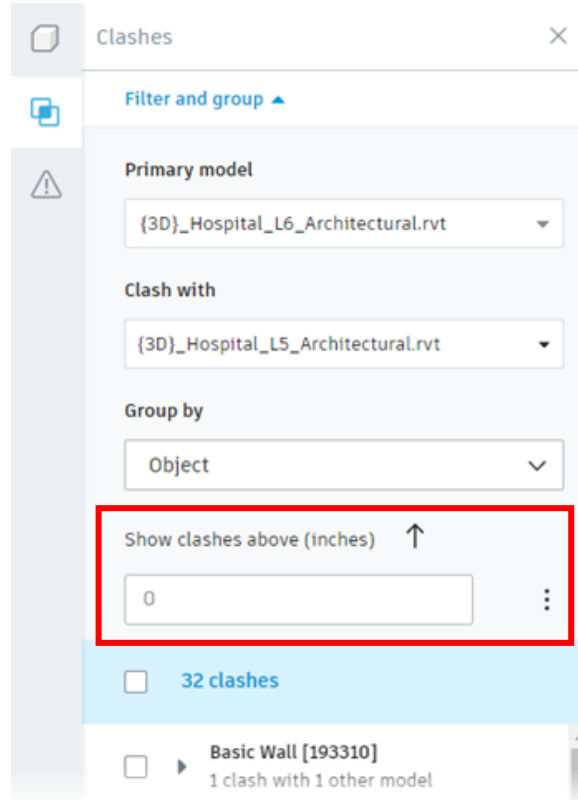
50 - 100

15

> 100

# Enhanced clash tolerance filters

Autodesk BIM Collaborate



The screenshot shows the 'Clashes' panel in Autodesk BIM Collaborate. The panel is titled 'Clashes' and has a close button (X) in the top right corner. Below the title bar, there is a 'Filter and group' section with a blue icon and an upward arrow. This section contains several filter options:

- Primary model:** A dropdown menu showing '{3D}\_Hospital\_L6\_Architectural.rvt'.
- Clash with:** A dropdown menu showing '{3D}\_Hospital\_L5\_Architectural.rvt'.
- Group by:** A dropdown menu showing 'Object'.
- Show clashes above (inches):** A section highlighted with a red border, containing an upward arrow icon, a text input field with the value '0', and a vertical ellipsis icon.

Below the filter section, there is a blue bar with a checkbox and the text '32 clashes'. At the bottom, a list item is visible: 'Basic Wall [193310]' with a right-pointing arrow and the text '1 clash with 1 other model'.

# Opt-out for auto clash detection

## Autodesk BIM Collaborate

**Model Coordination** | 2022 Sm Med Office - MEP.rvt - 3D HVAC

Models | **Clashes** | Views | Meetings | Reports | Members | Settings

Clashes >

### Settings

Select and deselect models here to specify which models are included in automatic clash. ⓘ

Deselected models are still available to open and review, but clash highlighting on related issues won't be displayed.

MEP Coordination ▾ | Last clash check 23 Jun 2022 17:26

Save settings

| <input checked="" type="checkbox"/> | Models                                      | Contributor | Last updated      | Clashes |
|-------------------------------------|---------------------------------------------|-------------|-------------------|---------|
| <input checked="" type="checkbox"/> | 2022_Sm Med Office-ARCH.rvt - 3D Building   | [Avatar]    | 23 Jun 2022 17:09 | 206     |
| <input checked="" type="checkbox"/> | 2022_Sm Med Office-ARCH.rvt - 3D Med Center | [Avatar]    | 23 Jun 2022 17:09 | 243     |
| <input checked="" type="checkbox"/> | 2022_Sm Med Office-MEP.rvt - 3D Electrical  | [Avatar]    | 23 Jun 2022 17:09 | 33      |
| <input checked="" type="checkbox"/> | 2022_Sm Med Office-MEP.rvt - 3D HVAC        | [Avatar]    | 23 Jun 2022 17:09 | 108     |

10 of 10 models showing, 10 selected

A 3D architectural rendering of a building's structural frame, showing a grid of dark, metallic-looking beams. The perspective is from a low angle, looking up at the structure, which is partially obscured by the text on the right.

# Autodesk Build

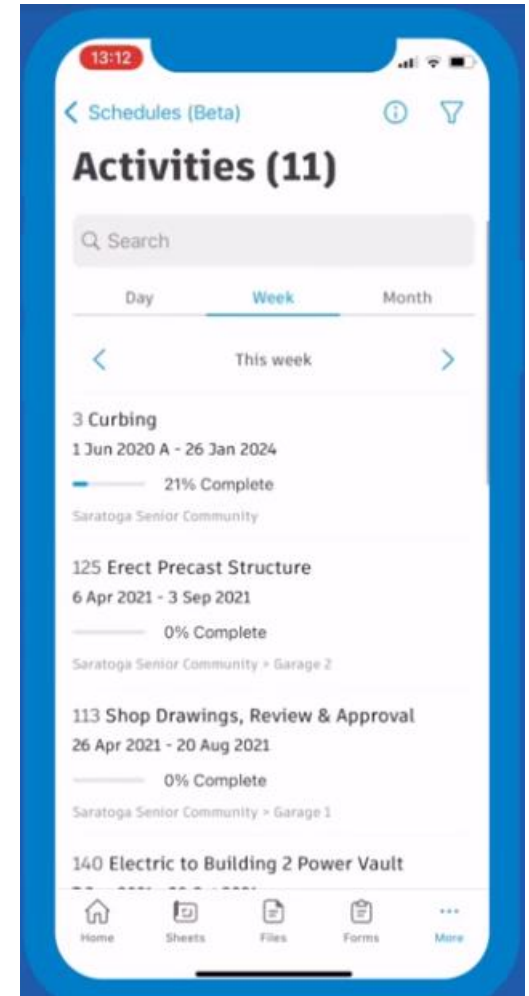
New features



# Project management

## Autodesk Build

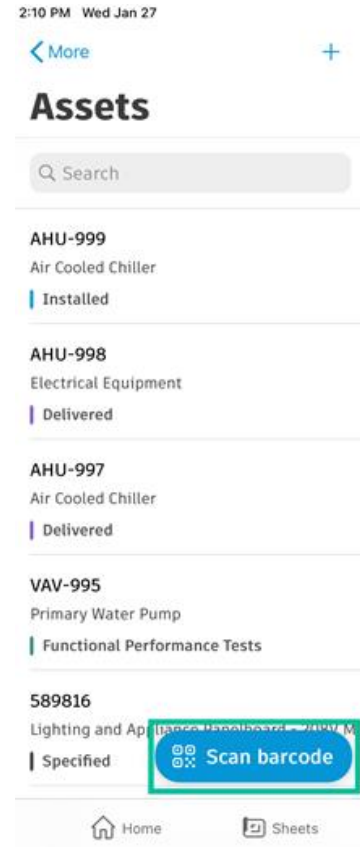
- RFI's
  - Assign RFI to a location
  - Add schedule and issue references to RFIs
- Submittals
  - Watcher enhancements
  - New filters
- Schedule
  - Share schedule views
  - View schedule on iOS and Android devices

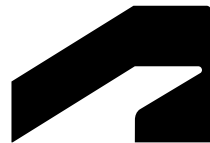


# Field management

## Autodesk Build

- Photos
  - Auto tagging enabled
  - Add RFI reference to photo
- Issues
  - Bulk import supported
- Location
  - QR scanner added, scan QR and barcodes





# PlanGrid Build mobile app

New features

# Object properties

## PlanGrid Build mobile app





# Questions and Answers



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