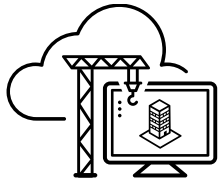


DIGITAL
CONSTRUCTION
SUMMER SCHOOL

Autodesk Takeoff

Day 3 | 3:15pm – 5:00pm





DIGITAL
CONSTRUCTION
SUMMER SCHOOL



Mark Petrucci

Sr. Construction Technologist

Applied Software Technology, Inc.

- Civil Engineer, 30 years in the AEC Industry
- Autodesk Certified Instructor
- Technology User → Manager → Consultant
- Autodesk Construction Cloud Elite Partner

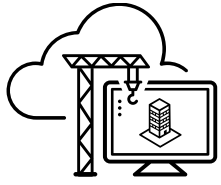


DIGITAL
CONSTRUCTION

SUMMER SCHOOL

AGENDA





AGENDA

- What is Autodesk Takeoff
- Project Setup
 - Classification Systems
 - Sheets and Models
 - Packages
- Takeoff Viewer
- Takeoff(Hands On)
 - Create Package and Takeoff Type
 - Takeoff Sheets – Walls, Doors, Flooring
 - Takeoff Model – Concrete
- Inventory and Reporting
- Q&A
- Extra Videos – Updates and Formulas

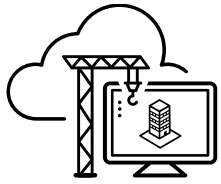


DIGITAL
CONSTRUCTION

SUMMER SCHOOL

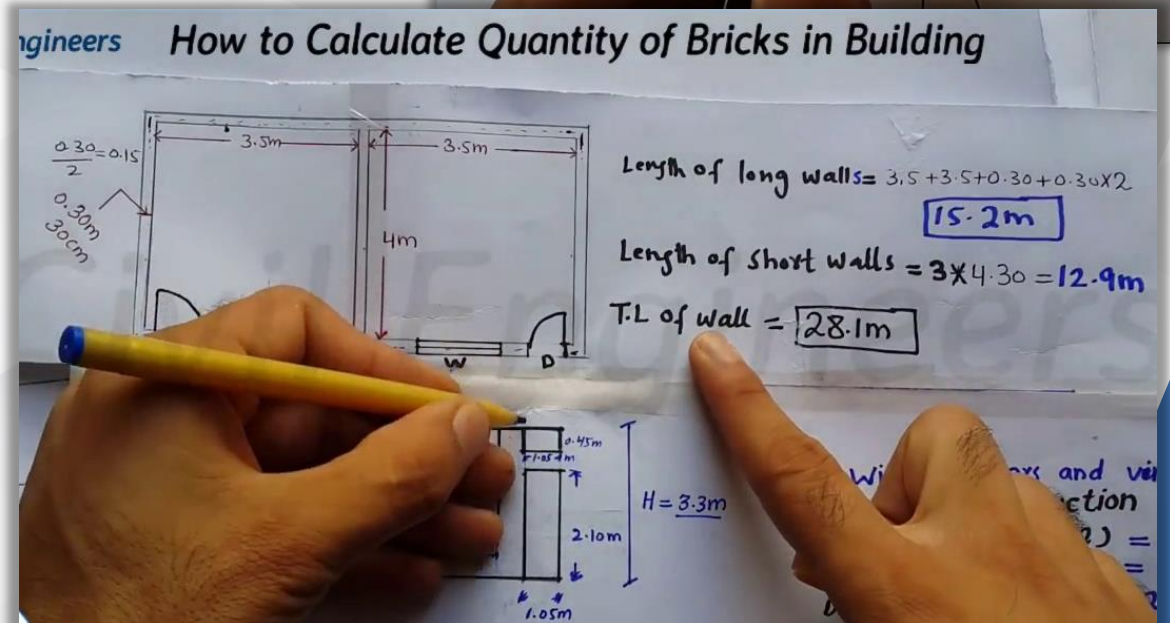
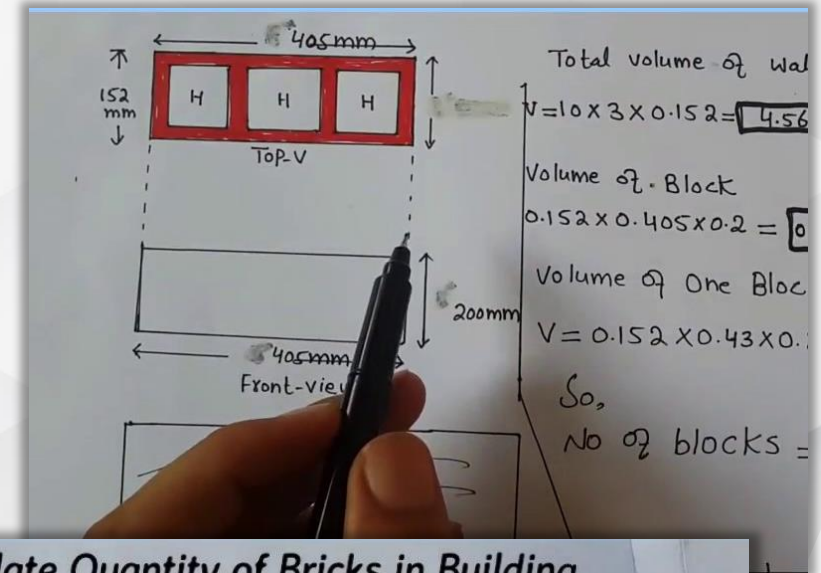
Autodesk Takeoff

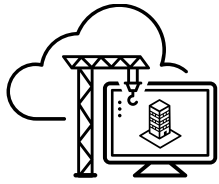




Definitions

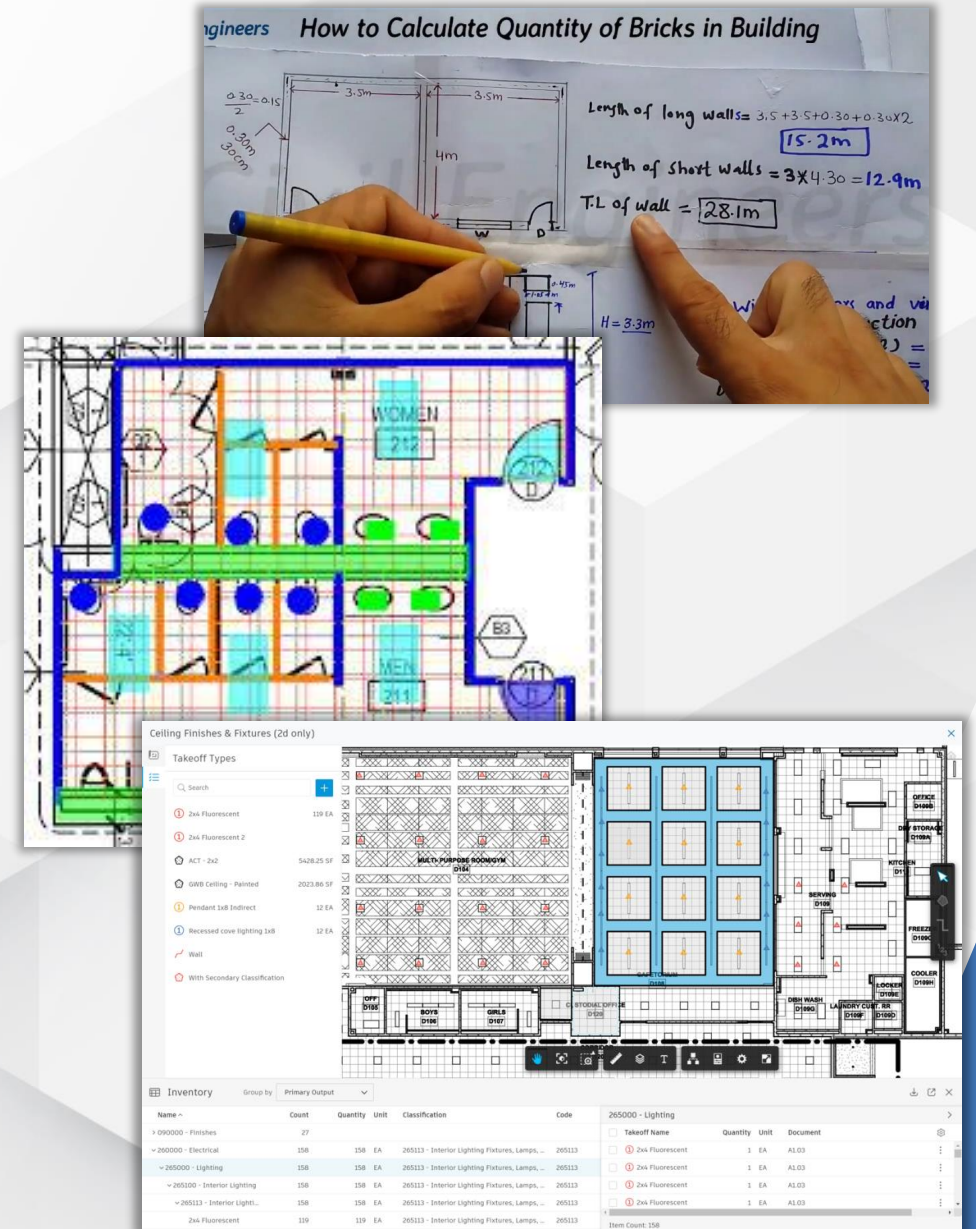
- Takeoff
 - AKA – Material Takeoff, Quantity Takeoff,
 - How much of each material is needed to complete a construction project
 - A takeoff is the process of counting
 - A takeoff is the amount of a material counted
- Estimating
 - Process of adding cost to materials, including labor and equipment costs

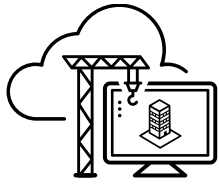




Who and How

- Who does takeoffs
 - Estimators, Contractors
- How do you do takeoffs
 - Paper – visually count by highlighting with colored markers
 - PDFs – 2D. Visually count by electronically highlighting with colored lines and shapes
 - Model – 3D. Count objects based on their properties. BIM! But estimators don't know Revit.
 - Counts, Length, Area, Volume





DIGITAL CONSTRUCTION SUMMER SCHOOL

Autodesk Construction Cloud

C AUTODESK® BIM COLLABORATE

Empower BIM experts to improve constructability of models, increase transparency in managing risk, and facilitate more efficient design collaboration



Design Collaboration



Automated Clash Detection



Aggregated Model Coordination



Issues Management

T AUTODESK® TAKEOFF

Enable estimators to perform more accurate 2D takeoffs and generate automated quantities from 3D models



2D Takeoff



3D Takeoff



Scope Analysis

B AUTODESK® BUILD

Empower builders with a field execution and project management solution to seamlessly collaborate and deliver construction projects on time, on budget



Project Management



Cost Management



Quality Management



Project Closeout



Safety Management



PlanGrid Build Mobile App

D AUTODESK® DOCS

Organize, distribute, and share files on a single, connected document management platform, ensuring all team members have access to the information they need



Document Control



Document Versioning



Document Approvals

INSIGHT

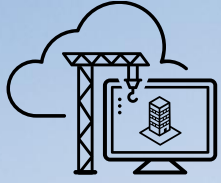
Get up to speed with what's going on in a project, assess trends and patterns in project data, identify any gaps and problems, and use predictive risk data to improve project efficiency

Dashboards

Reporting

Construction IQ

Data Connector



DIGITAL
CONSTRUCTION
SUMMER SCHOOL

Autodesk Takeoff Project Setup

(Lecture only)



Autodesk Takeoff

- Key Workflow

Key Workflow

1. Login to ACC.Autodesk.com
2. Create or select a project
3. Add team members to the project
4. Configure takeoff settings for the project
5. Publish files to Takeoff
 - Publish 2D files as sheets
 - Upload 3D models
6. Create takeoff packages
7. Perform quantity takeoff
8. Export takeoff inventory

Access to Autodesk Construction Cloud

Logging in

The image shows a web browser window with the Autodesk Construction Cloud login page. A red circle with the number '1' points to the browser's address bar, which contains the URL 'acc.autodesk.com'. Another red circle with the number '2' points to the 'Email' input field, which contains the placeholder text 'name@example.com'. Below the input field is a blue 'NEXT' button. At the bottom of the page, there is a link to 'CREATE ACCOUNT' for new users and a link to 'LEARN MORE' about the account.

1

2

Sign in

Email

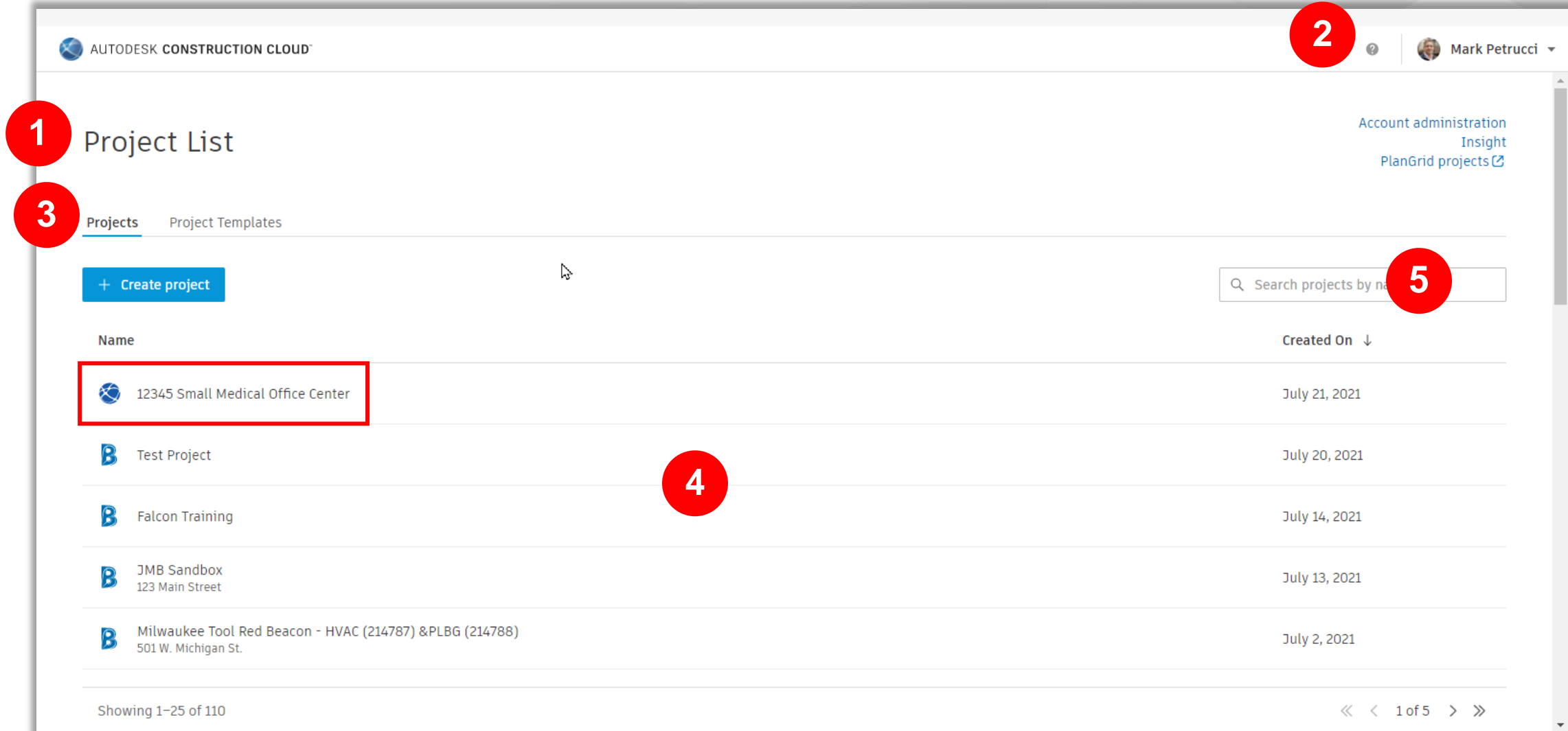
name@example.com

NEXT

NEW TO AUTODESK? [CREATE ACCOUNT](#)

Your account for everything Autodesk
[LEARN MORE](#)

- Project List



Autodesk Takeoff

Autodesk Docs User Interface

The screenshot displays the Autodesk Docs user interface for a project named "12345 Small Medical Office Center". The interface includes a top navigation bar with a "Docs" dropdown menu (callout 2) and a user profile for Mark Petrucci. A left sidebar contains navigation options: Files, Reviews, Transmittals, Issues (callout 3), Reports, Members, and Settings. The main content area is titled "Project Files" and shows a "Folders" view. A list of folders is displayed, including "For the Field" and "Project Files" (callout 4). The "Project Files" folder is expanded, showing a list of sub-folders: "Files For Teachers To Download", "Last Name A-J", "Last Name K-S", and "Last Name T-Z". A table of files is shown below the folders, with columns for Name, Description, Version, Markup, Size, Last updated, and Up. The table lists four items, each corresponding to a folder name. A red circle with the number 5 is placed over the "Last Name K-S" entry in the table. The interface also includes an "Upload files" button, a search bar, and a "Settings" dropdown menu.

1

2

3

4

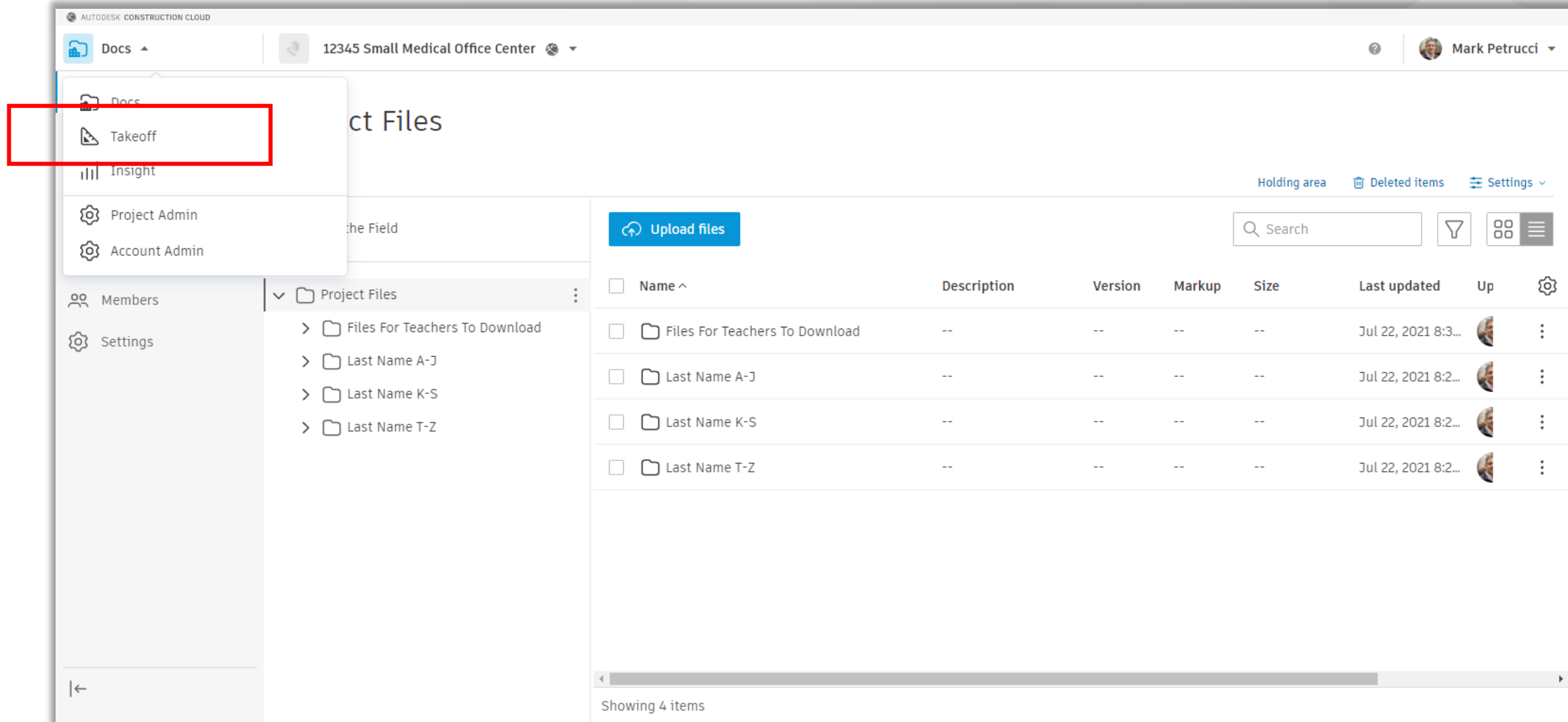
5

| Name ^ | Description | Version | Markup | Size | Last updated | Up |
|---|-------------|---------|--------|------|---------------------|----|
| <input type="checkbox"/> Files For Teachers To Download | -- | -- | -- | -- | Jul 22, 2021 8:3... | |
| <input type="checkbox"/> Last Name A-J | -- | -- | -- | -- | Jul 22, 2021 8:2... | |
| <input type="checkbox"/> Last Name K-S | -- | -- | -- | -- | Jul 22, 2021 8:2... | |
| <input type="checkbox"/> Last Name T-Z | -- | -- | -- | -- | Jul 22, 2021 8:2... | |

Showing 4 items

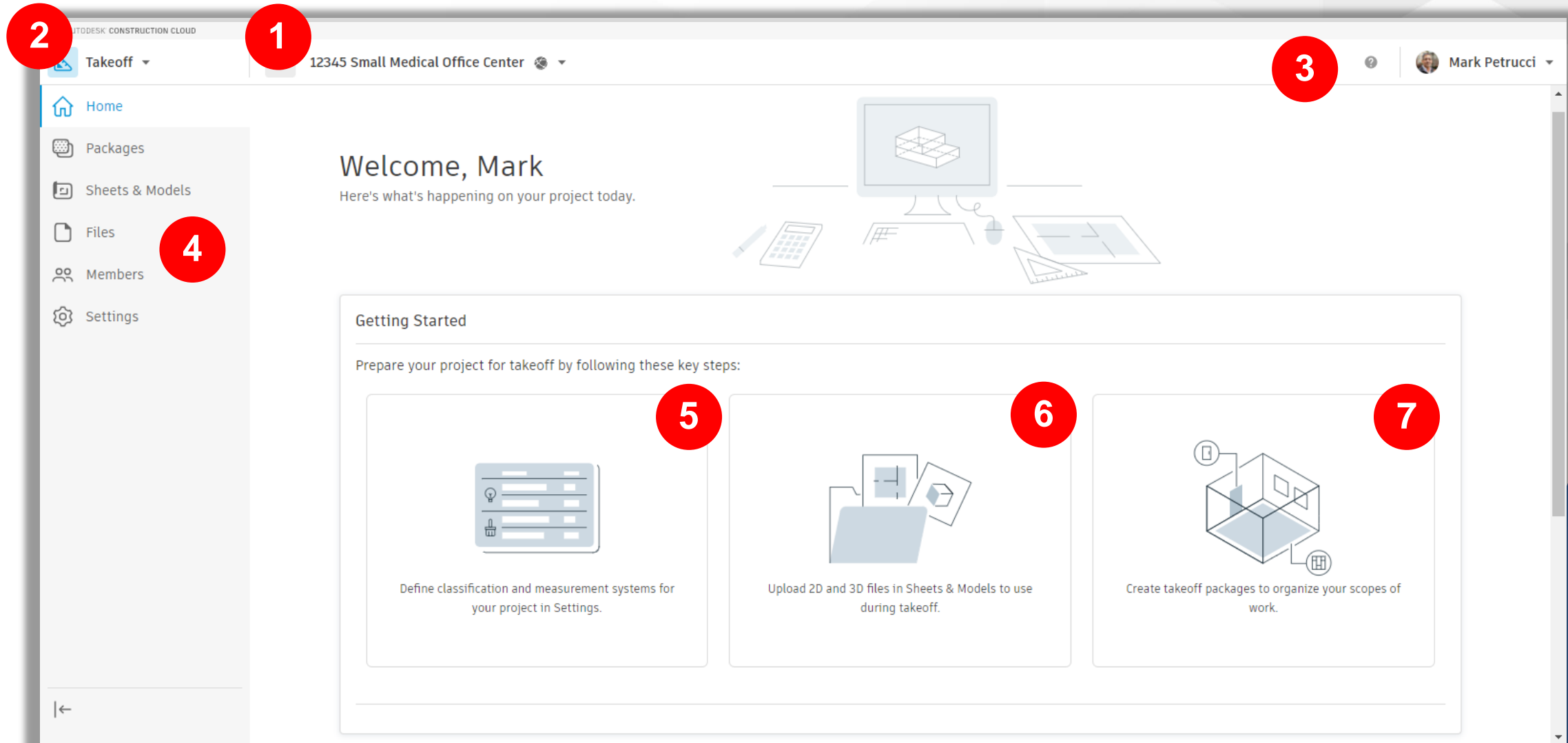
Autodesk Takeoff

- Autodesk Docs User Interface



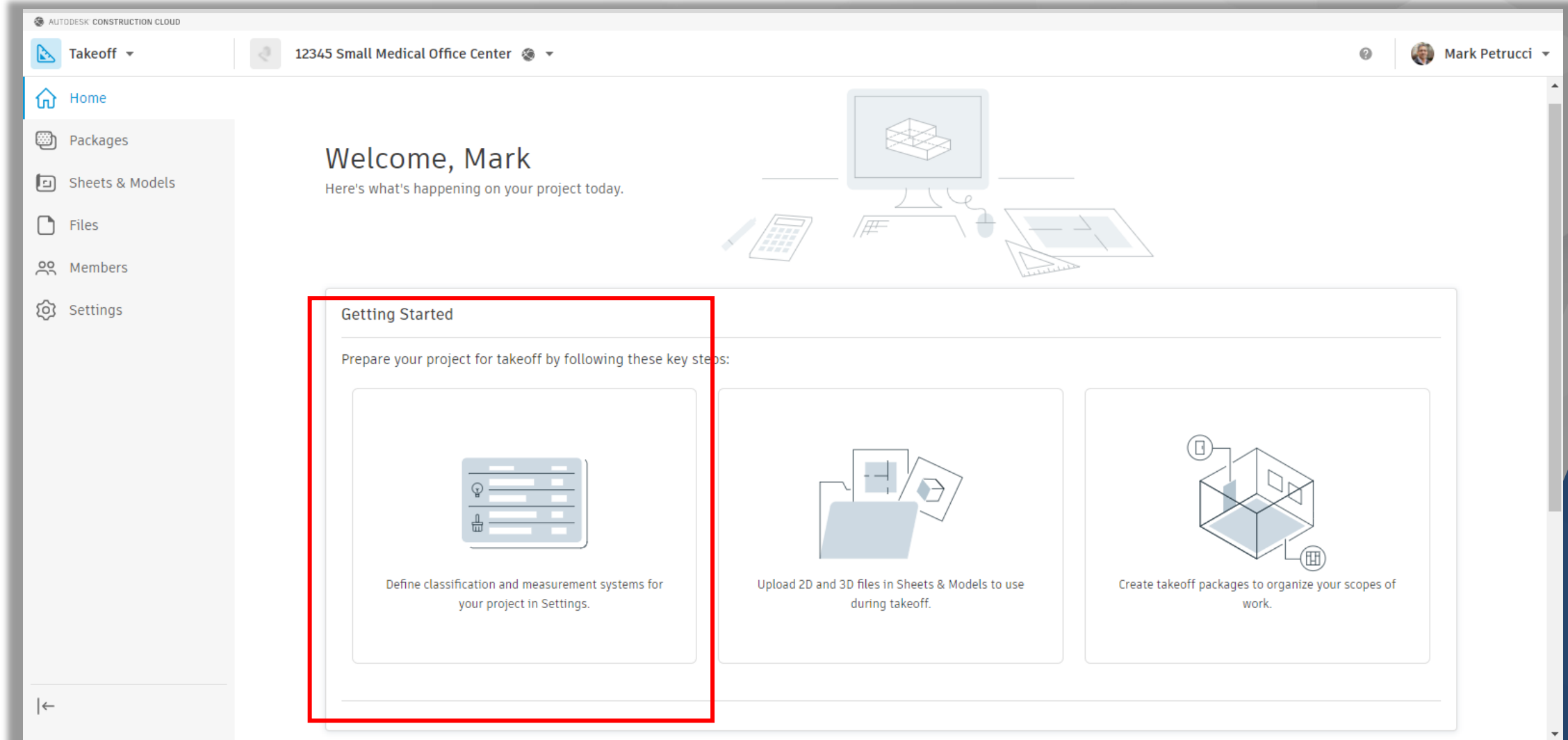
Autodesk Takeoff

- Autodesk Takeoff User Interface



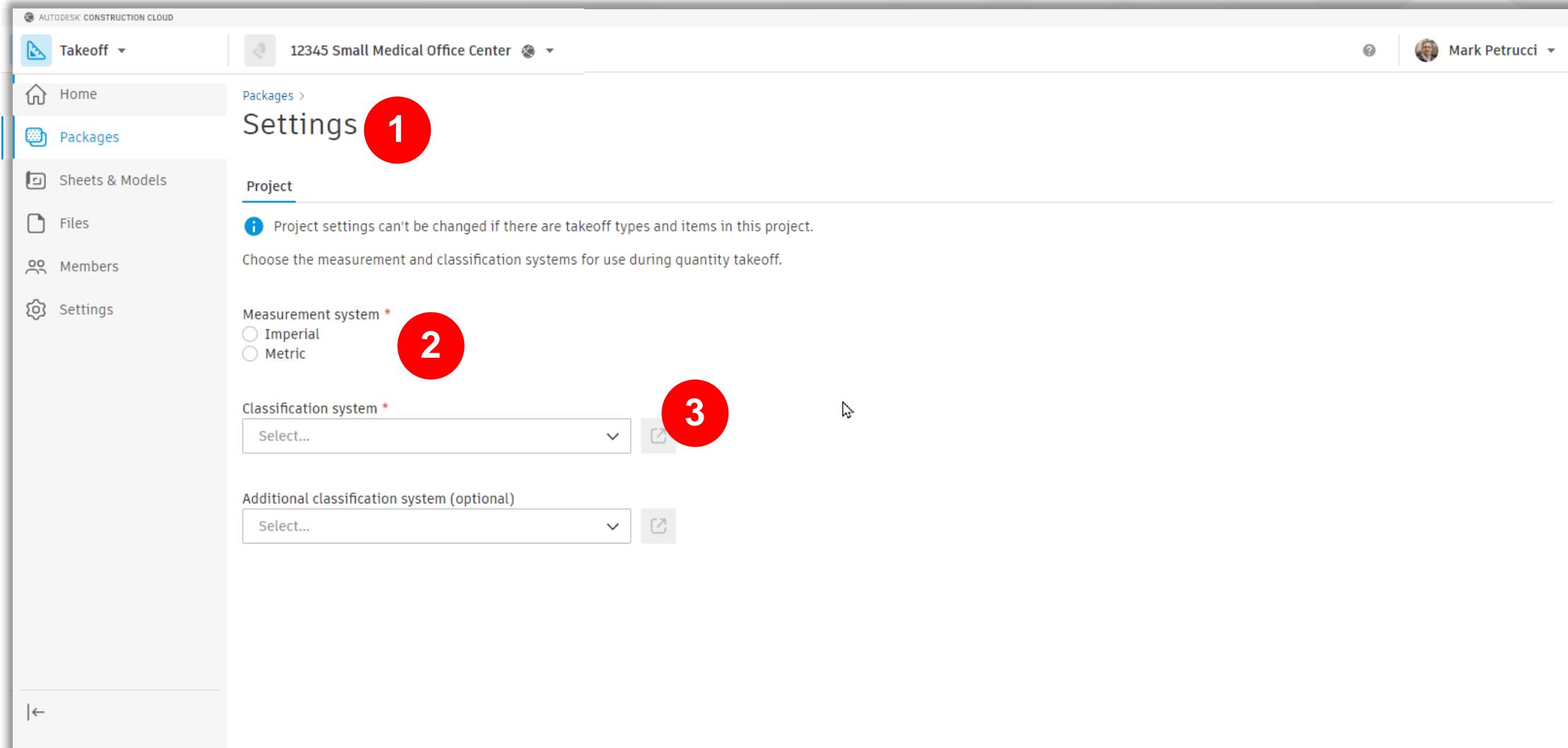
Autodesk Takeoff

- Home Screen - Classification Systems



Autodesk Takeoff

- Classification Systems



Autodesk Takeoff

■ Classification Systems

AUTODESK CONSTRUCTION CLOUD

Takeoff 12345 Small Medical Office Center Mark Petrucci

Home Packages Sheets & Models Files Members Settings

Packages > Settings

Project

Project settings can't be changed if there are takeoff types and items in this project.

Choose the measurement and classification systems for use during quantity takeoff.

Measurement system *

☒ Imperial
☐ Metric

Classification system *

Select...
Sample Assembly Classification
+ Upload custom classification system

Upload custom classification system

Download template Import custom system

To add a custom classification system

1. Click **Download template**. This exports an editable template of the system.
2. Open the template in Excel or other spreadsheet app and edit as needed. Rename the spreadsheet and save.
3. Click **Import custom system** to import and save the custom classification system to your project.

Autodesk Takeoff

■ Classification Systems

The image shows the Autodesk Takeoff web interface. On the left, the 'Docs' tab is selected in the top navigation bar. The main area displays 'Project Files' for a project named '12345 Small Medical Office Center'. Under the 'Folders' section, a list of folders is shown, including 'Project Files', 'Files For Teachers To Download', 'Classification Examples', 'Version 1', 'Version 2', and 'Last Name A-J'. The 'Classification Examples' folder is expanded, showing a list of files: 'UniformatClassifications_2010 Example...', 'OmniClass Table 23 Classification Exam...', and 'MasterFormat Classification Example.xl...'. A red box highlights this list. A red arrow points from this list to a red icon of a computer monitor and server. Another red arrow points from this icon to a modal window titled 'Upload custom classification system'. This modal window contains instructions on how to add a custom classification system, including steps to download a template, edit it, and then import it. Below the modal, a 'Settings' panel is visible, showing the 'Measurement system' set to 'Imperial' and the 'Classification system' dropdown menu, which has 'Upload custom classification system' selected.

Autodesk Takeoff interface showing the 'Docs' tab and 'Project Files' section. The 'Classification Examples' folder is expanded, displaying a list of files including 'UniformatClassifications_2010 Example...', 'OmniClass Table 23 Classification Exam...', and 'MasterFormat Classification Example.xl...'. A red box highlights this list, and a red arrow points from it to a red icon representing a computer and server. Another red arrow points from the icon to the 'Upload custom classification system' modal window.

The 'Upload custom classification system' modal window displays instructions on how to add a custom classification system:

1. Click **Download template**. This exports an editable template of the system.
2. Open the template in Excel or other spreadsheet app and edit as needed. Rename the spreadsheet and save.
3. Click **Import custom system** to import and save the custom classification system to your project.

Below the modal, the 'Settings' panel is visible, showing the 'Measurement system' set to 'Imperial' and the 'Classification system' dropdown menu, which has 'Upload custom classification system' selected.

Autodesk Takeoff

- Classification Systems

Autodesk Construction Cloud

Takeoff

Home

Packages

Sheets & Models

Files

Members

Settings

12345 Small Medical Office Center

Mark Petrucci

Packages >

Settings

Project

Project settings can't be changed if there are takeoff types and items in this project.

Choose the measurement and classification systems for use during quantity takeoff.

Measurement system *

Imperial

Metric

Classification system *

UniFormat_2010

Additional classification system (optional)

MasterFormat Classification

UniFormat_2010

Export

Reimport

> When reimporting, the following is allowed

| Code | Description | Measure |
|-------|--------------------------------|---------|
| > A | SUBSTRUCTURE | |
| > B | SHELL | |
| ∨ C | INTERIORS | |
| ∨ C10 | INTERIOR CONSTRUCTION | |
| C1010 | Interior Partitions | |
| C1020 | Interior Windows | COUNT |
| C1030 | Interior Doors | COUNT |
| C1040 | Interior Grilles and Gates | COUNT |
| C1060 | Raised Floor Construction | |
| C1070 | Suspended Ceiling Construction | AREA |
| C1090 | Interior Specialties | |
| > C20 | INTERIOR FINISHES | |
| > D | SERVICES | |
| > E | EQUIPMENT AND FURNISHINGS | |

Total rows: 107

Autodesk Takeoff

■ Classification Examples

| UniFormat_2010 | | |
|--|--------------------------------|---------|
| Export Reimport | | |
| > When reimporting, the following is allowed | | |
| Code | Description | Measure |
| > A | SUBSTRUCTURE | |
| > B | SHELL | |
| ▼ C | INTERIORS | |
| ▼ C10 | INTERIOR CONSTRUCTION | |
| C1010 | Interior Partitions | |
| C1020 | Interior Windows | COUNT |
| C1030 | Interior Doors | COUNT |
| C1040 | Interior Grilles and Gates | COUNT |
| C1060 | Raised Floor Construction | |
| C1070 | Suspended Ceiling Construction | AREA |
| C1090 | Interior Specialties | |
| > C20 | INTERIOR FINISHES | |
| > D | SERVICES | |
| > E | EQUIPMENT AND FURNISHINGS | |
| Total rows: 107 | | |

| MasterFormat Classification | | |
|--|--|---------|
| Export Reimport | | |
| > When reimporting, the following is allowed | | |
| Code | Description | Measure |
| 00 | Procurement and Contracting Requireme... | |
| > 01 | General Requirements | |
| > 02 | Existing Conditions | |
| > 03 | Concrete | |
| > 04 | Masonry | |
| > 05 | Metals | |
| > 06 | Wood, Plastics, and Composites | |
| > 07 | Thermal and Moisture Protection | |
| > 08 | Openings | |
| > 09 | Finishes | |
| > 10 | Specialties | |
| > 11 | Equipment | |
| > 12 | Furnishings | |
| > 13 | Special Construction | |
| > 14 | Conveying Equipment | |
| Total rows: 3863 | | |

| OmniClass Table 23 Classification | | |
|--|---|---------|
| Export Reimport | | |
| > When reimporting, the following is allowed | | |
| Code | Description | Measure |
| > 23-11 00 00 | Site Products | |
| > 23-13 00 00 | Structural and Exterior Enclosure Products | |
| > 23-15 00 00 | Interior and Finish Products | |
| > 23-17 00 00 | Openings, Passages, and Protection Prod... | |
| > 23-19 00 00 | Specialty Products | |
| > 23-21 00 00 | Furnishings, Fixtures and Equipment Pro... | |
| > 23-23 00 00 | Conveying Systems and Material Handlin... | |
| > 23-25 00 00 | Medical and Laboratory Equipment | |
| > 23-27 00 00 | General Facility Services Products | |
| > 23-29 00 00 | Facility and Occupant Protection Products | |
| > 23-31 00 00 | Plumbing Specific Products and Equipment | |
| > 23-33 00 00 | HVAC Specific Products and Equipment | |
| > 23-35 00 00 | Electrical and Lighting Specific Products ... | |
| > 23-37 00 00 | Information and Communication Specific ... | |
| > 23-39 00 00 | Utility and Transportation Products | |
| Total rows: 1508 | | |

Autodesk Takeoff

- Classification Systems

Autodesk Construction Cloud

Takeoff

Home

Packages

Sheets & Models

Files

Members

Settings

12345 Small Medical Office Center

Mark Petrucci

Settings

Project

Project settings can't be changed if there are takeoff types and items in this project.

Choose the measurement and classification systems for use during quantity takeoff.

Measurement system *

Imperial

Metric

Classification system *

UniFormat_2010

Additional classification system (optional)

MasterFormat Classification

UniFormat_2010

Export

Reimport

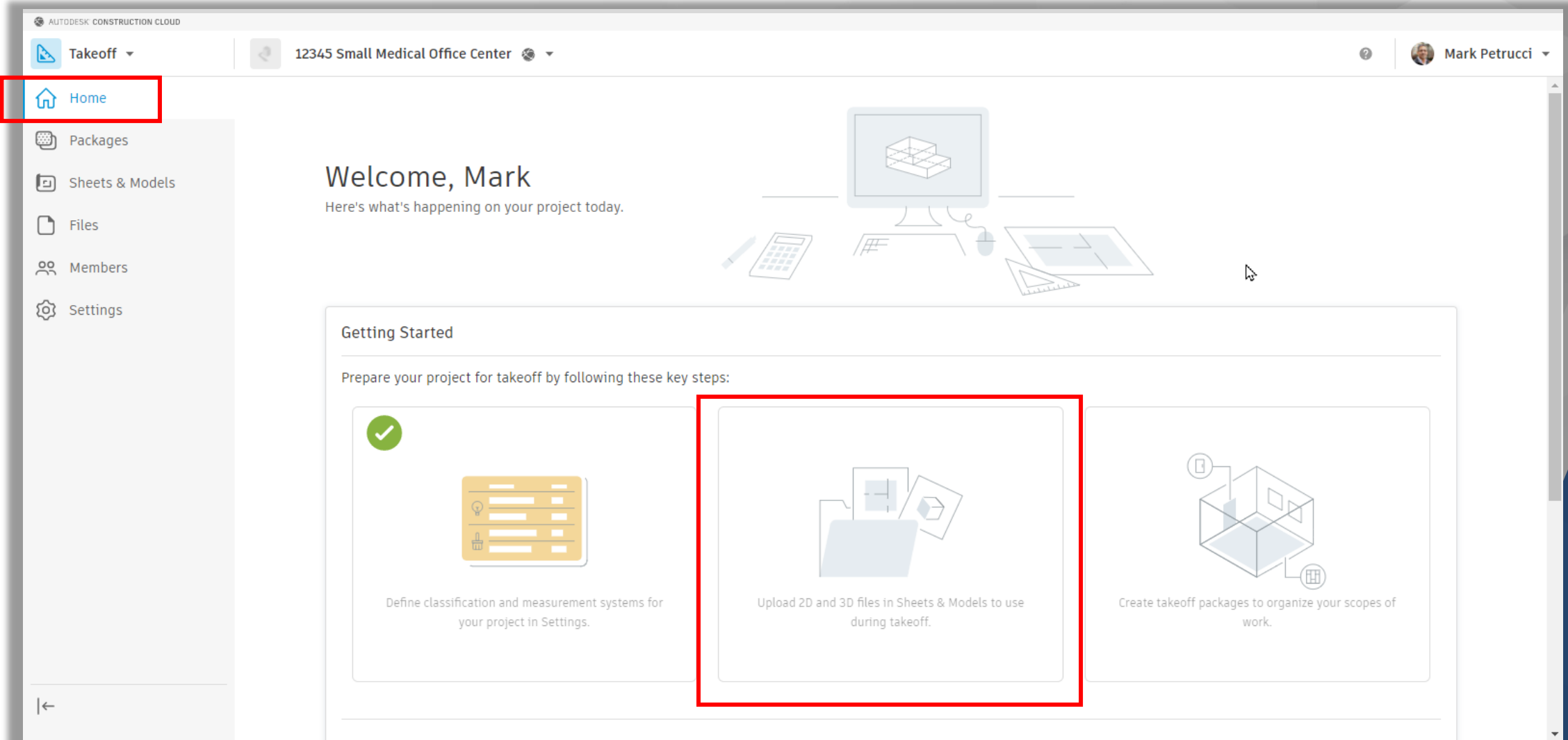
> When reimporting, the following is allowed

| Code | Description | Measure |
|-------|--------------------------------|---------|
| > A | SUBSTRUCTURE | |
| > B | SHELL | |
| ∨ C | INTERIORS | |
| ∨ C10 | INTERIOR CONSTRUCTION | |
| C1010 | Interior Partitions | |
| C1020 | Interior Windows | COUNT |
| C1030 | Interior Doors | COUNT |
| C1040 | Interior Grilles and Gates | COUNT |
| C1060 | Raised Floor Construction | |
| C1070 | Suspended Ceiling Construction | AREA |
| C1090 | Interior Specialties | |
| > C20 | INTERIOR FINISHES | |
| > D | SERVICES | |
| > E | EQUIPMENT AND FURNISHINGS | |

Total rows: 107

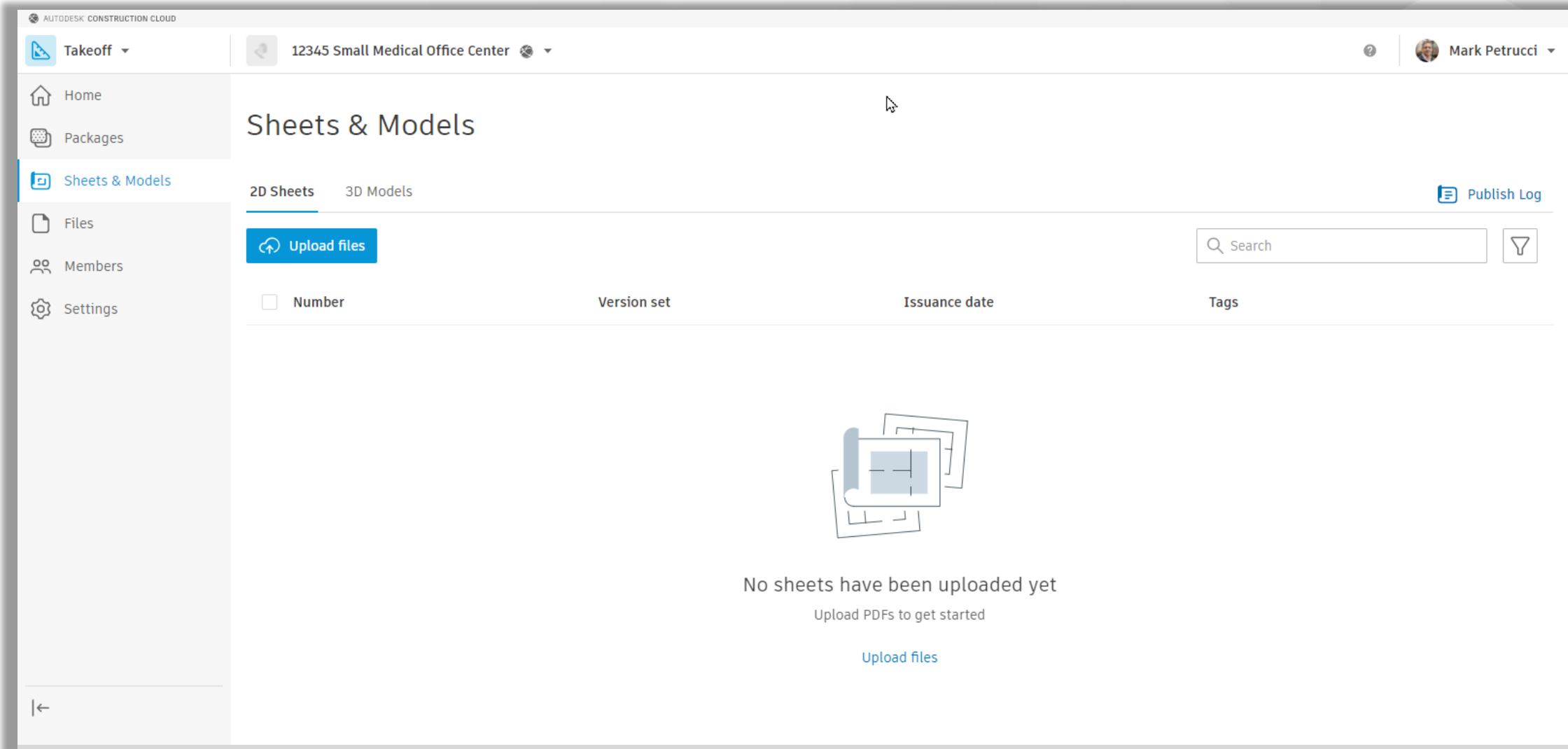
Autodesk Takeoff

- Home Screen – Upload Drawings and Models



Sheet & Models

- Sheets & Models



Sheet & Models

- Sheets & Models

The screenshot displays the Autodesk Construction Cloud interface for a project named "12345 Small Medical Office Center". The left sidebar contains navigation options: Takeoff, Home, Packages, Sheets & Models (highlighted with a red circle), Files, Members, and Settings. A red callout bubble points to the "Sheets & Models" option, stating: "Files used only by Autodesk Takeoff". Another red callout bubble points to the "Files" option, stating: "Includes Project Files and Folders which are part of Common Data Environment". The main content area shows a table header with columns: Number, Version set, Issuance date, and Tags. Below the header is an "Upload files" button. A search bar and a "Publish Log" link are also visible. At the bottom, a message states: "No sheets have been uploaded yet" with a sub-message "Upload PDFs to get started" and a link to "Upload files".

Files used only by Autodesk Takeoff

Includes Project Files and Folders which are part of Common Data Environment

Autodesk CONSTRUCTION CLOUD

12345 Small Medical Office Center

Mark Petrucci

Takeoff

Home

Packages

Sheets & Models

Files

Members

Settings

Sheet

Upload files

Search

Publish Log

Number

Version set

Issuance date

Tags

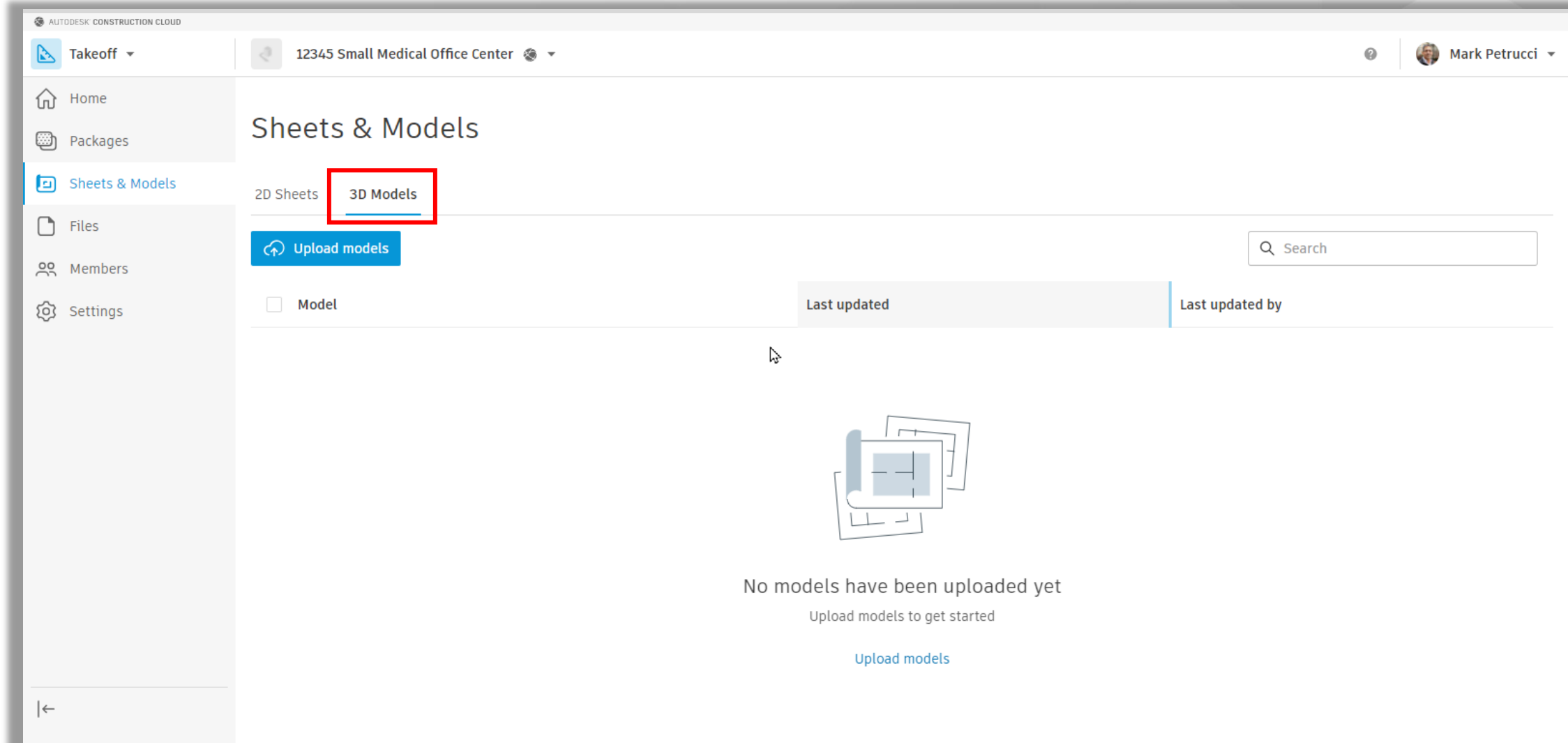
No sheets have been uploaded yet

Upload PDFs to get started

Upload files

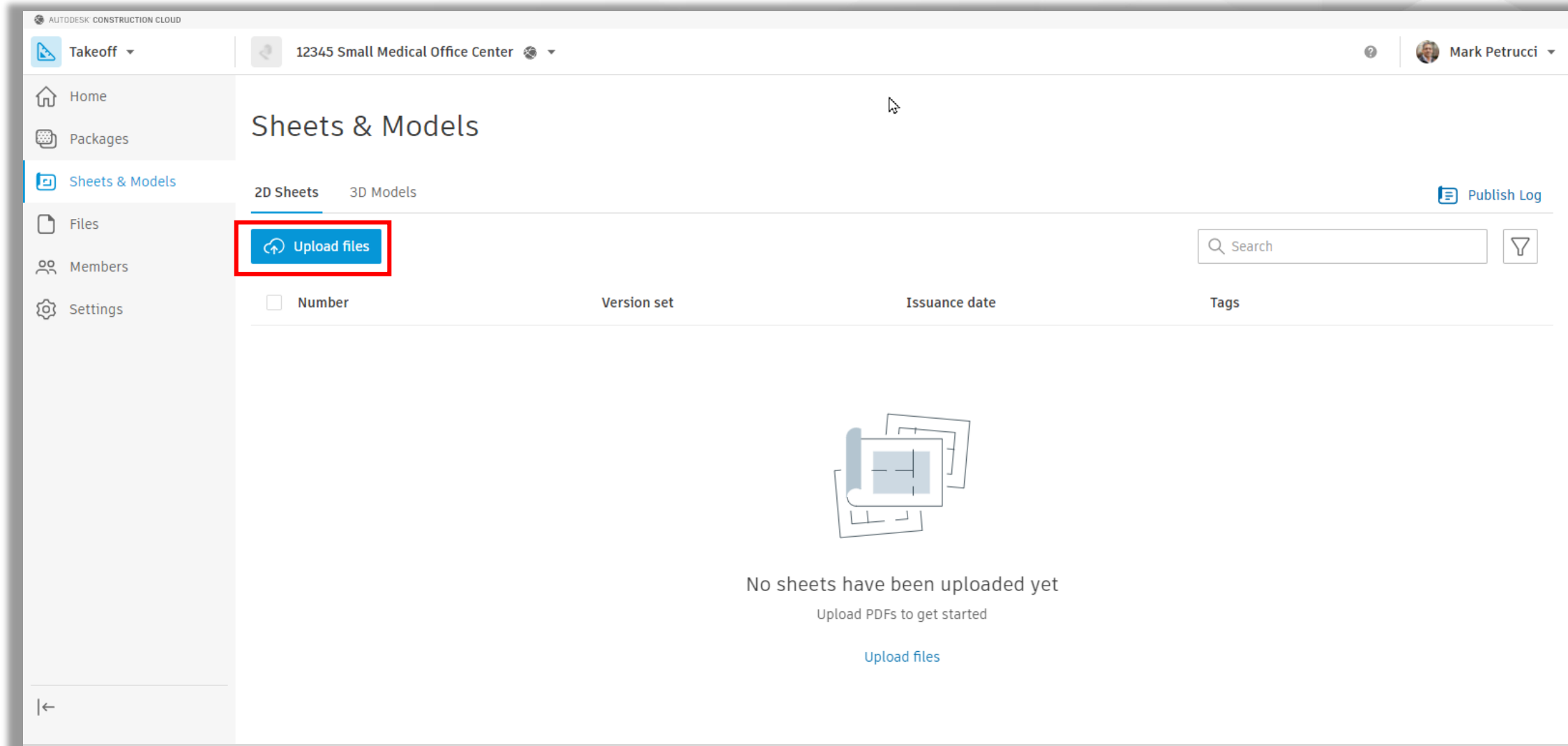
Sheet & Models

- Sheets & Models



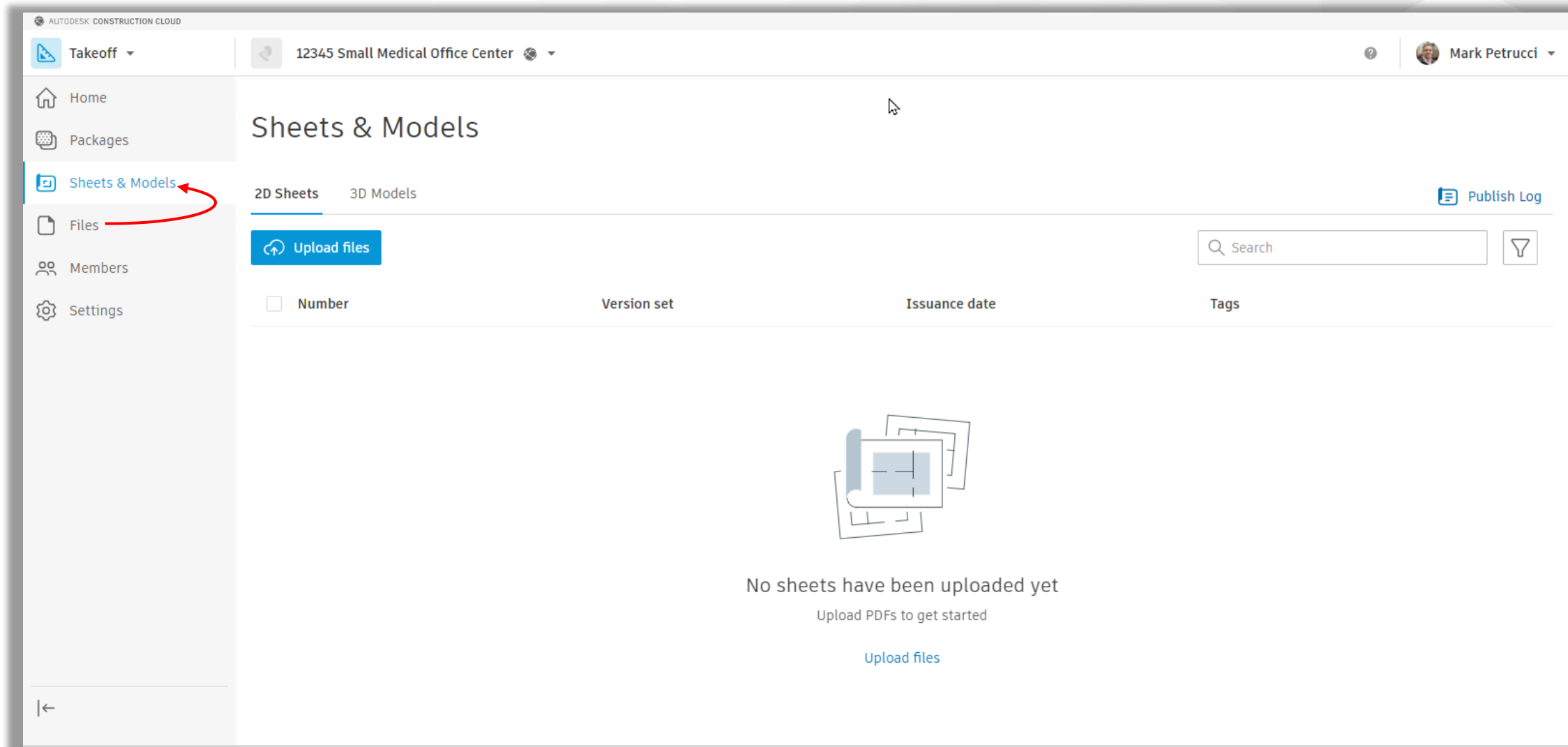
Sheet & Models

- Sheets & Models – Uploading Files



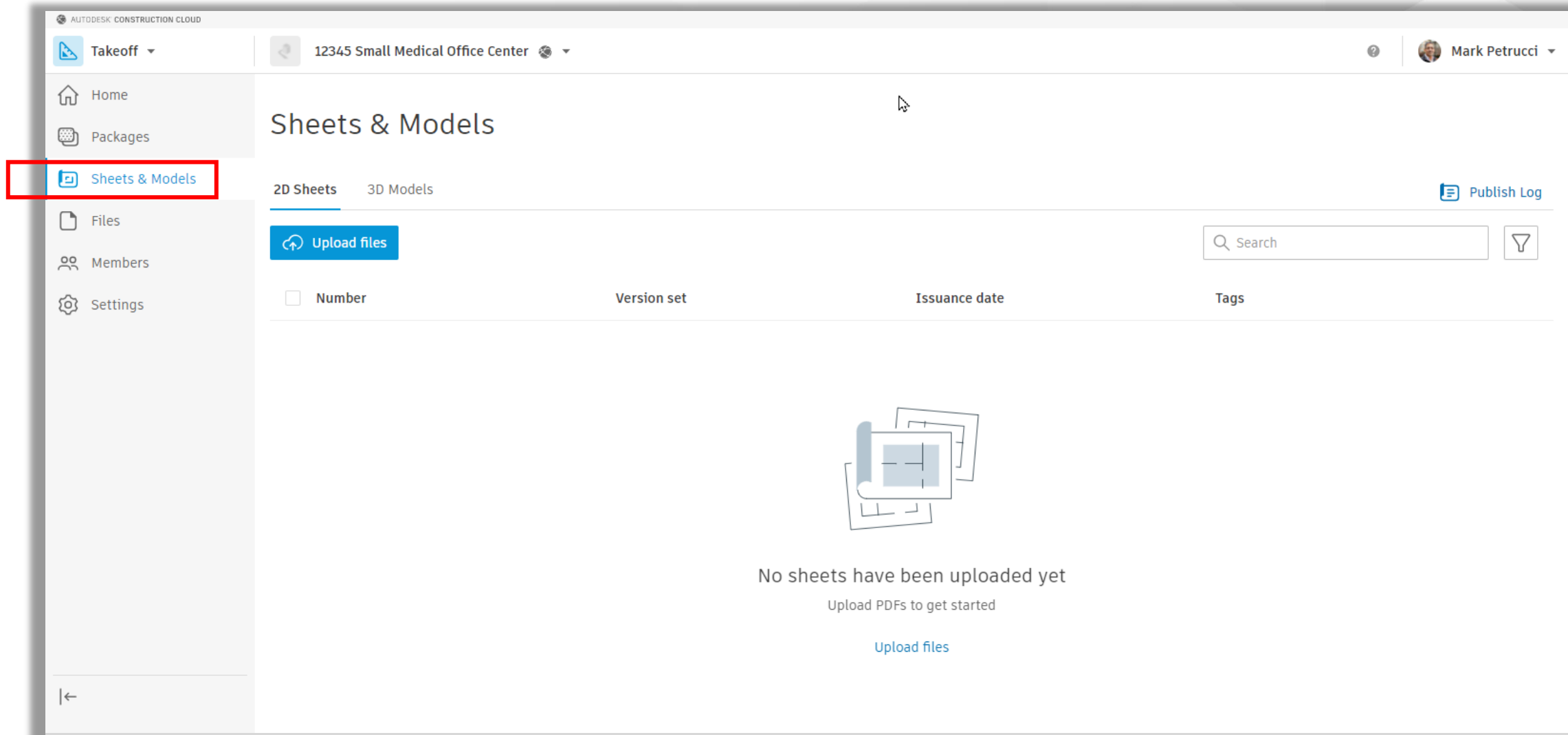
Sheet & Models

- Sheets & Models – Publishing from Docs

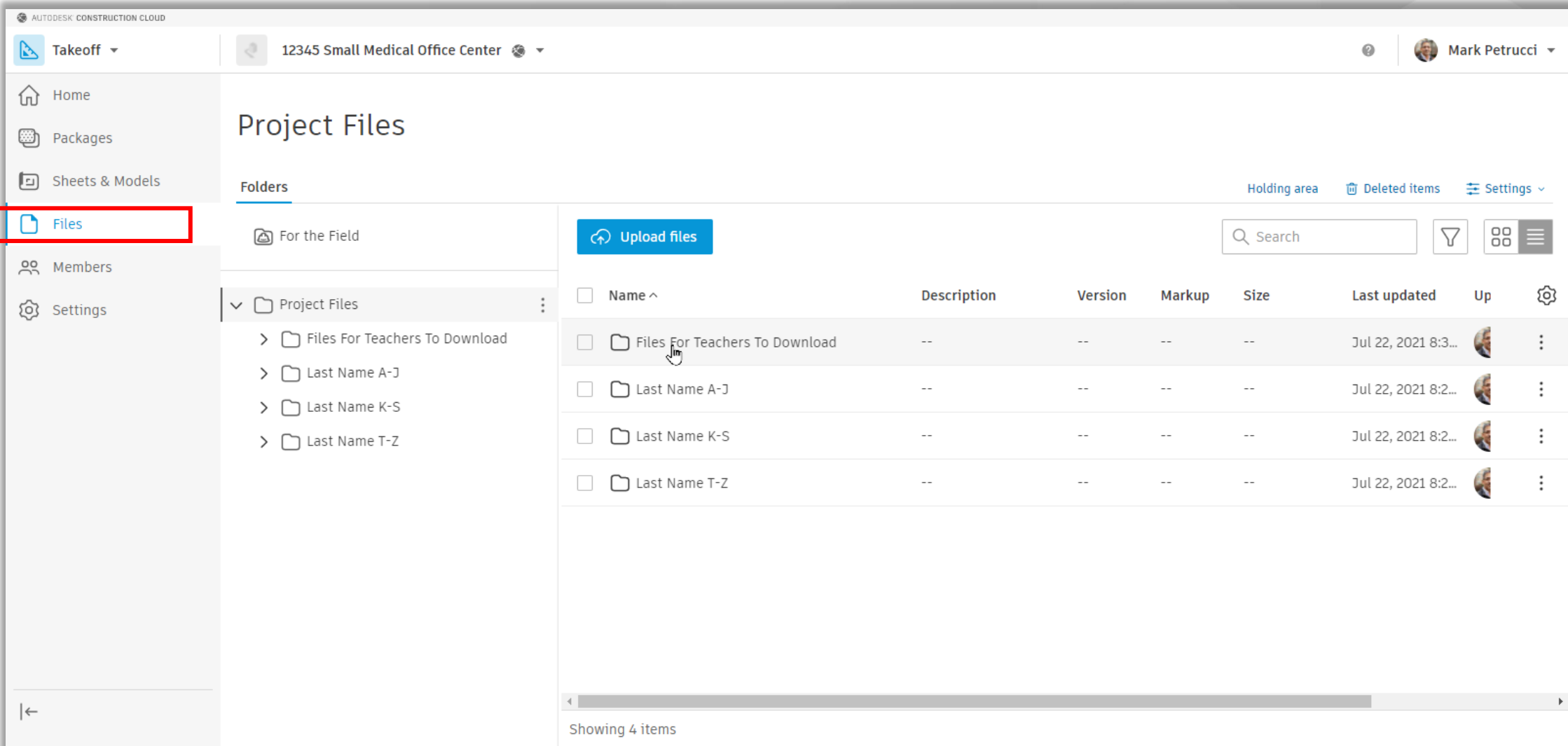


Sheet & Models

- Sheets & Models – Publishing from Docs



■ Files vs Sheets & Models



Sheet & Models

■ Files vs Sheets & Models

The image displays two screenshots of the Autodesk Construction Cloud interface, illustrating the 'Files' section.

Left Screenshot: The top navigation bar shows the 'Files' tab selected, highlighted by a red box. The left sidebar lists various project management tools, including 'Reviews', 'Transmittals', 'Issues', 'Reports', 'Members', and 'Settings'.

Right Screenshot: The left sidebar shows the 'Files' tab selected, highlighted by a red box. The main content area displays a list of folders under the 'Project Files' section. The folders listed are:

- Files For Teachers To Download
- Last Name A-J
- Last Name K-S
- Last Name T-Z

The right screenshot also shows a table of files with columns: Name, Description, Version, Markup, Size, Last updated, and Up. The table lists the same folders as the left screenshot.

| Name | Description | Version | Markup | Size | Last updated | Up |
|--------------------------------|-------------|---------|--------|------|---------------------|----|
| Files For Teachers To Download | -- | -- | -- | -- | Jul 22, 2021 8:3... | |
| Last Name A-J | -- | -- | -- | -- | Jul 22, 2021 8:2... | |
| Last Name K-S | -- | -- | -- | -- | Jul 22, 2021 8:2... | |
| Last Name T-Z | -- | -- | -- | -- | Jul 22, 2021 8:2... | |

Showing 4 items

Sheet & Models

- Sheets & Models – Publishing from Docs

The screenshot shows the Autodesk Construction Cloud interface for a project named "12345 Small Medical Office Center". The user is Mark Petrucci. The left sidebar contains navigation options: Home, Packages, Sheets & Models, Files (selected), Members, and Settings. The main area is titled "Project Files" and shows a folder structure under "For the Field". The "Project Files" folder is expanded, showing "Files For Teachers To Download", "Version 1", "Version 2", and a list of folders: "Last Name A-J", "Last Name K-S", and "Last Name T-Z".

At the top of the file list, there are two buttons: "Upload files" and "Publish to Takeoff Sheets & Models". The "Publish to Takeoff Sheets & Models" button is highlighted with a red box. To the right of these buttons is a search bar and a filter icon.

The file list table has the following columns: Name, Description, Version, Markup, Size, Last updated, Up, and a settings icon. The first row is selected, showing a PDF file named "2021_Sm Med Office-ARCH.pdf".

| Name | Description | Version | Markup | Size | Last updated | Up | |
|---|-------------|---------|--------|---------|---------------------|----|--|
| <input checked="" type="checkbox"/> 2021_Sm Med Office-ARCH.pdf | | V1 | | 4.1 MB | Jul 22, 2021 8:3... | | |
| <input type="checkbox"/> 2021_Sm Med Office-ARCH.rvt | | V1 | | 19.3 MB | Jul 22, 2021 8:3... | | |
| <input type="checkbox"/> 2021_Sm Med Office-MEP.rvt | | V1 | | 21.1 MB | Jul 22, 2021 8:3... | | |
| <input type="checkbox"/> 2021_Sm Med Office-STRUC.rvt | | V1 | | 7.9 MB | Jul 22, 2021 8:3... | | |

1 of 4 selected

Autodesk Takeoff

- Sheets & Models – Publishing from Docs

12345 Small Medical Office Center

Publish sheets

Version set

Sheet numbers

Titles and tags

Select version set

☒ New version set


Version set name *

Architectural Files - First Upload

Issuance date *

Aug 01, 2021

☐ Existing version set



No existing version set
Create a version set on the left

Next to sheet numbers

Sheet & Models

- Sheets & Models – Publishing from Docs

The screenshot shows a software interface for publishing sheets. The title bar indicates the project is '12345 Small Medical Office Center' and the current step is 'Publish sheets'. A progress bar at the top shows three steps: 'Version set' (active), 'Sheet numbers', and 'Titles and tags'. The main heading is 'Select version set'. There are two radio button options: 'New version set' (selected) and 'Existing version set'. Under 'New version set', there are two input fields: 'Version set name *' with the text 'Architectural Files - First Upload' and 'Issuance date *' with the date 'Aug 01, 2021'. A modal dialog box is centered on the screen with the title 'Markups not included'. The message inside says: 'If your files include markups, they won't be included in the published sheets.' At the bottom of the dialog are a checkbox labeled 'Do not show this again' and a blue 'Continue' button. In the background, under the 'Existing version set' section, there is a folder icon and text that says 'No existing version set' and 'create a version set on the left'. At the bottom right of the main window is a blue button labeled 'Next to sheet numbers'.

12345 Small Medical Office Center Publish sheets

Version set Sheet numbers Titles and tags

Select version set

☒ New version set ☐ Existing version set

Version set name *

Architectural Files - First Upload

Issuance date *

Aug 01, 2021

Markups not included

If your files include markups, they won't be included in the published sheets.

☐ Do not show this again [Continue](#)

No existing version set
create a version set on the left

[Next to sheet numbers](#)

Autodesk Takeoff

■ Publish Sheets – User Interface

The screenshot displays the 'Publish sheets' window in Autodesk Takeoff. The window title is '12345 Small Medical Office Center | Publish sheets'. The interface includes a top toolbar with the following elements:

- 1**: '13 sheets total' text.
- 2**: 'Remove sheets' button.
- 3**: 'Draw sheet number area' button.
- 4**: '2 sheet number errors' error message.
- 5**: 'Only show sheets with errors' checkbox.
- 6**: 'Row height' slider.
- 7**: 'Next to titles and tags' button.
- 8**: 'Sheet number duplicated in this list' error message.

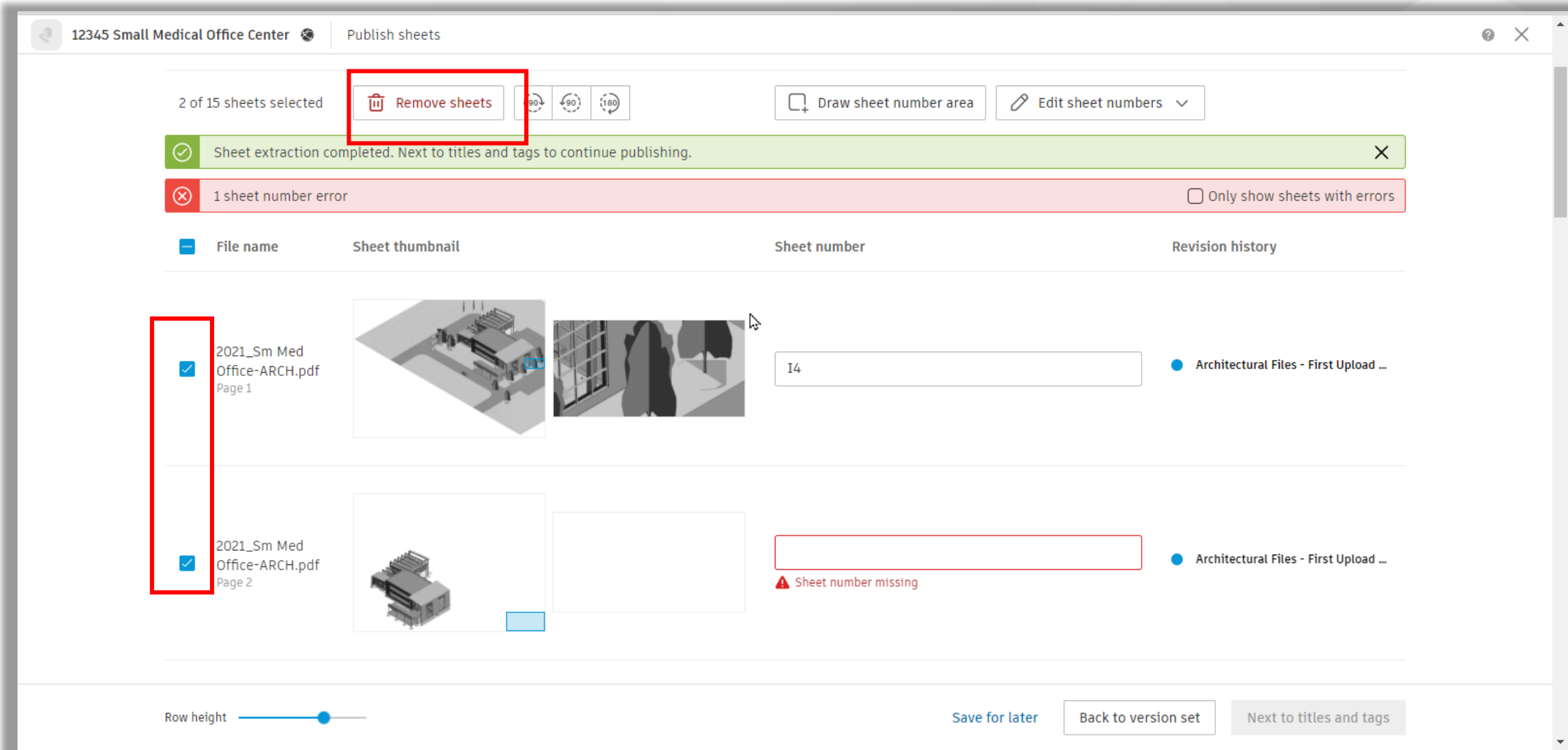
The main content area shows a list of sheets with columns for 'File name', 'Sheet thumbnail', 'Sheet number', and 'Revision history'. Two sheets are listed:

| File name | Sheet thumbnail | Sheet number | Revision history |
|---|-----------------|--------------|--|
| <input type="checkbox"/> 2021_Sm Med Office-ARCH.pdf Page 3 | | | <input type="text" value="A101"/> Architectural Files - First Upload ... ⚠ Sheet number duplicated in this list |
| <input type="checkbox"/> 2021_Sm Med Office-ARCH.pdf Page 4 | | | <input type="text" value="A101"/> Architectural Files - First Upload ... ⚠ Sheet number duplicated in this list |

The bottom of the window contains a 'Save for later' button, a 'Back to version set' button, and a 'Next to titles and tags' button.

Sheet & Models

- Publish Sheets – Remove Sheets



Autodesk Takeoff

- Publish Sheets – Sheet Number Area

12345 Small Medical Office Center | Publish sheets

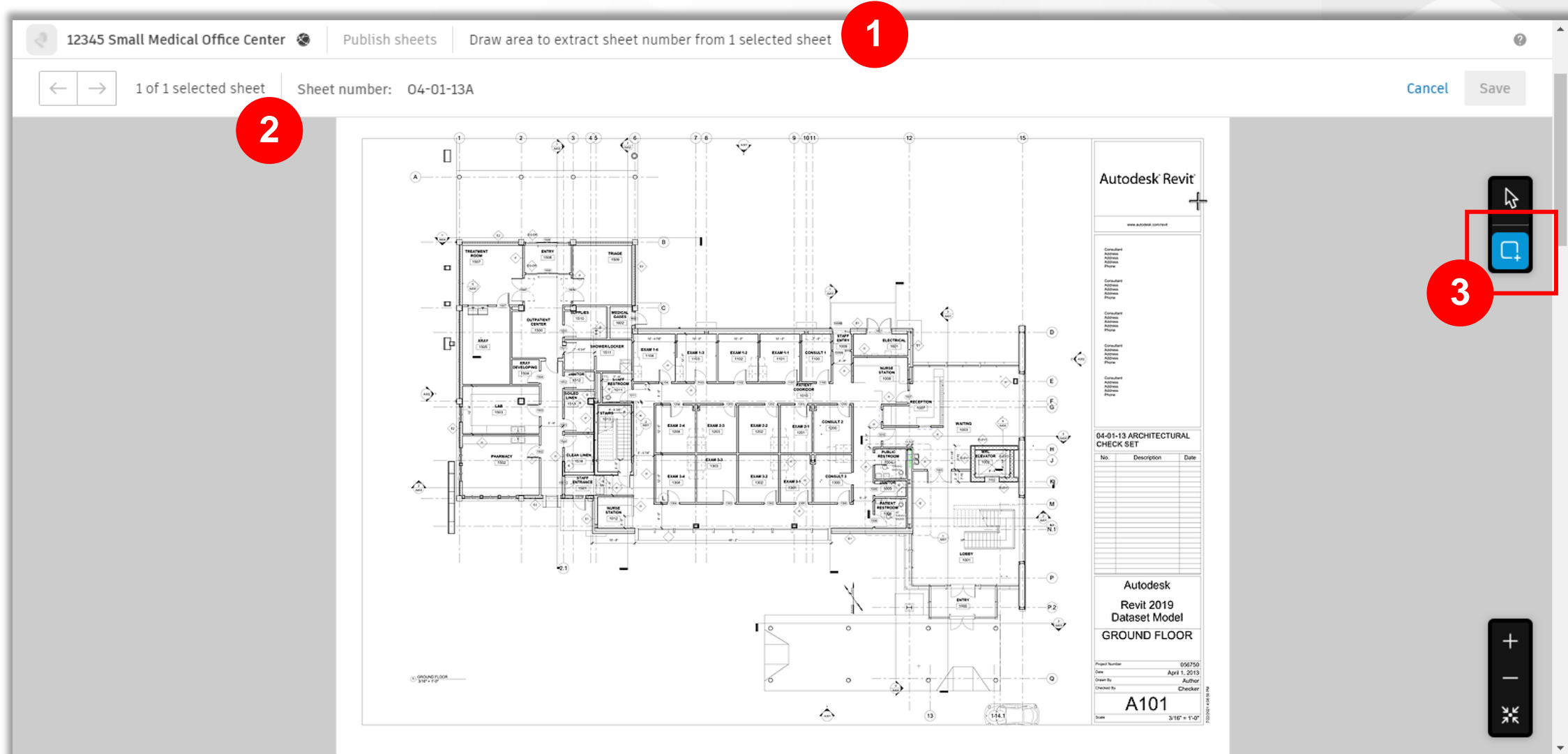
1 of 13 sheets selected Remove sheets 90° 180° Draw sheet number area Edit sheet numbers

Sheet extraction completed. Next to titles and tags to continue publishing.

| File name | Sheet thumbnail | Sheet number | Revision history |
|--|-----------------|--|---|
| <input checked="" type="checkbox"/> 2021_Sm Med Office-ARCH.pdf Page 3 | | <div>04-01-13 ARCHITECTURAL CHECK SET</div> <div>04-01-13A</div> | Architectural Files - First Upload ... |
| <input type="checkbox"/> 2021_Sm Med Office-ARCH.pdf Page 4 | | <div>04-01-13 ARCHITECTURAL CHECK SET</div> <div>A102</div> | Architectural Files - First Upload ... |

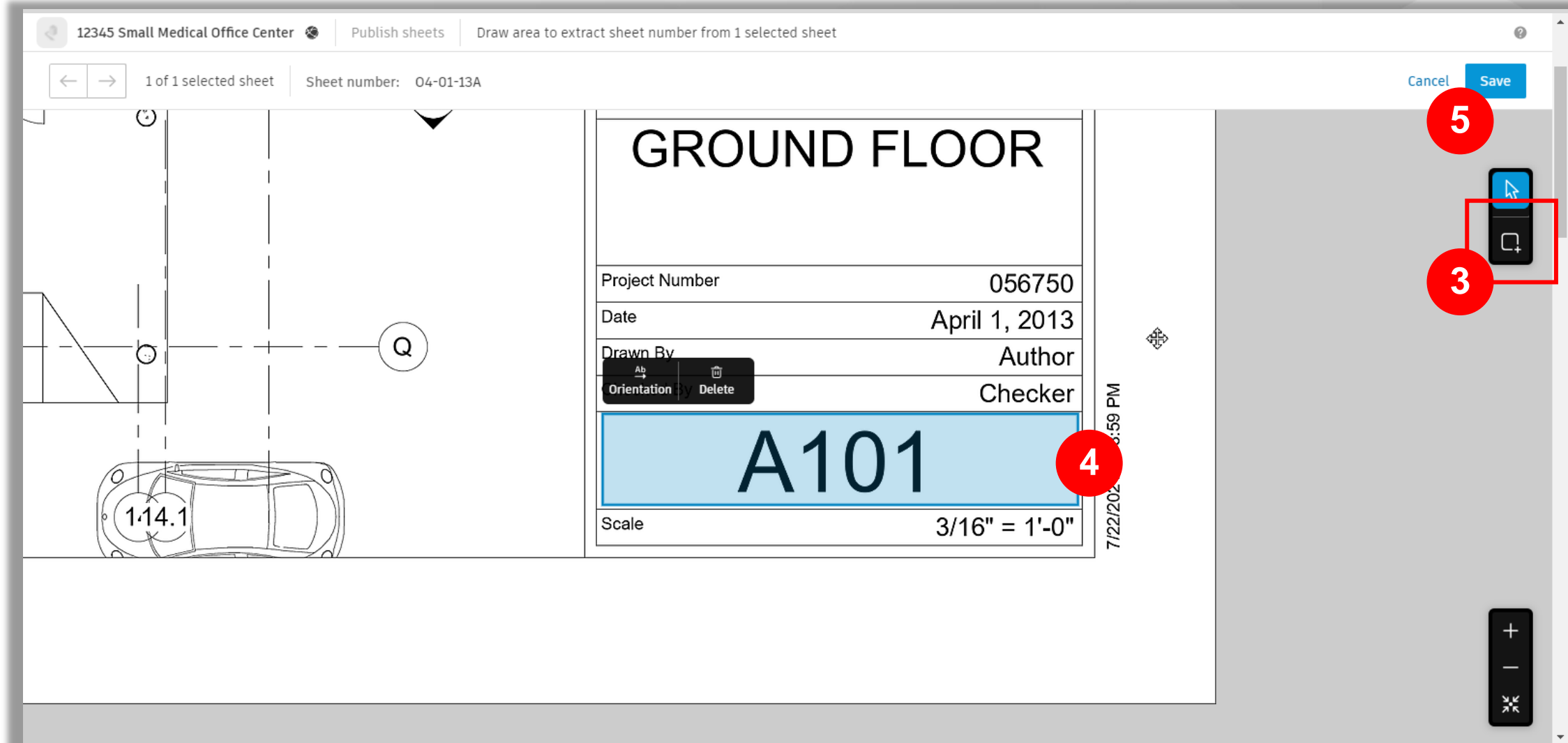
Row height Save for later Back to version set Next to titles and tags

- Publish Sheets – Sheet Number Area



Autodesk Takeoff

- Publish Sheets – Sheet Number Area



Autodesk Takeoff

- Publish Sheets – Sheet Number Review

12345 Small Medical Office Center

Publish sheets

1 of 13 sheets selected

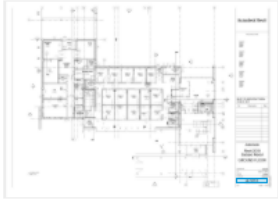
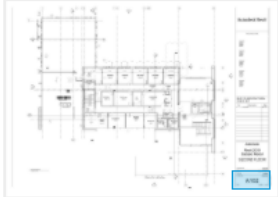
Remove sheets

90° 90° 180°

Draw sheet number area

Edit sheet numbers

Sheet extraction completed. Next to titles and tags to continue publishing.

| File name | Sheet thumbnail | Sheet number | Revision history |
|---|---|---------------------------------|---|
| <input checked="" type="checkbox"/> 2021_Sm Med Office-ARCH.pdf Page 3 |  | <div>A101</div> <div>A101</div> | <div>Architectural Files - First Upload ...</div> |
| <input type="checkbox"/> 2021_Sm Med Office-ARCH.pdf Page 4 |  | <div>A102</div> <div>A102</div> | <div>Architectural Files - First Upload ...</div> |

Row height

Save for later

Back to version set

Next to titles and tags

Autodesk Takeoff

- Publish Sheets – Sheet Title and Tags

12345 Small Medical Office Center

Publish sheets

Version set

Sheet numbers

Titles and tags

Review sheet titles and tags

Sheet titles sourced from index sheet or previous version set. Tags assigned based on sheet numbers.

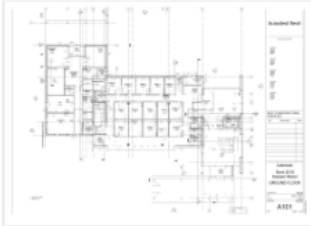
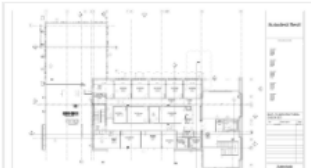
13 sheets total

Remove sheets

Draw sheet title area

Edit with rules

Edit Tags

| <input type="checkbox"/> Sheet number | Sheet thumbnail | Sheet title |
|---------------------------------------|--|---|
| <input type="checkbox"/> A101 |  | <div>Enter title</div> <div>architectural ×</div> |
| <input type="checkbox"/> A102 |  | <div>Enter title</div> <div>architectural ×</div> |

Row height

Save for later

Back to sheet numbers

Publish sheets

Autodesk Takeoff

- Publish Sheets – Sheet Title and Tags

12345 Small Medical Office Center

Publish sheets

Version set

Sheet numbers

Titles and tags

Review sheet titles and tags

Sheet titles sourced from index sheet or previous version set. Tags assigned based on sheet numbers.

13 of 13 sheets selected



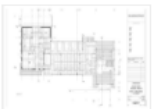

Remove sheets

2

Draw sheet title area

Edit with rules

Edit Tags

| <input checked="" type="checkbox"/> Sheet number | Sheet thumbnail | Sheet title |
|---|--|---|
| <div>1</div> <input checked="" type="checkbox"/> A101 |  | <div>Enter title</div> <div>architectural ×</div> |
| <input checked="" type="checkbox"/> A102 |  | <div>Enter title</div> <div>architectural ×</div> |
| <input checked="" type="checkbox"/> A201 |  | <div>Enter title</div> <div>architectural ×</div> |
| <input checked="" type="checkbox"/> A202 |  | <div>Enter title</div> <div>architectural ×</div> |

Row height

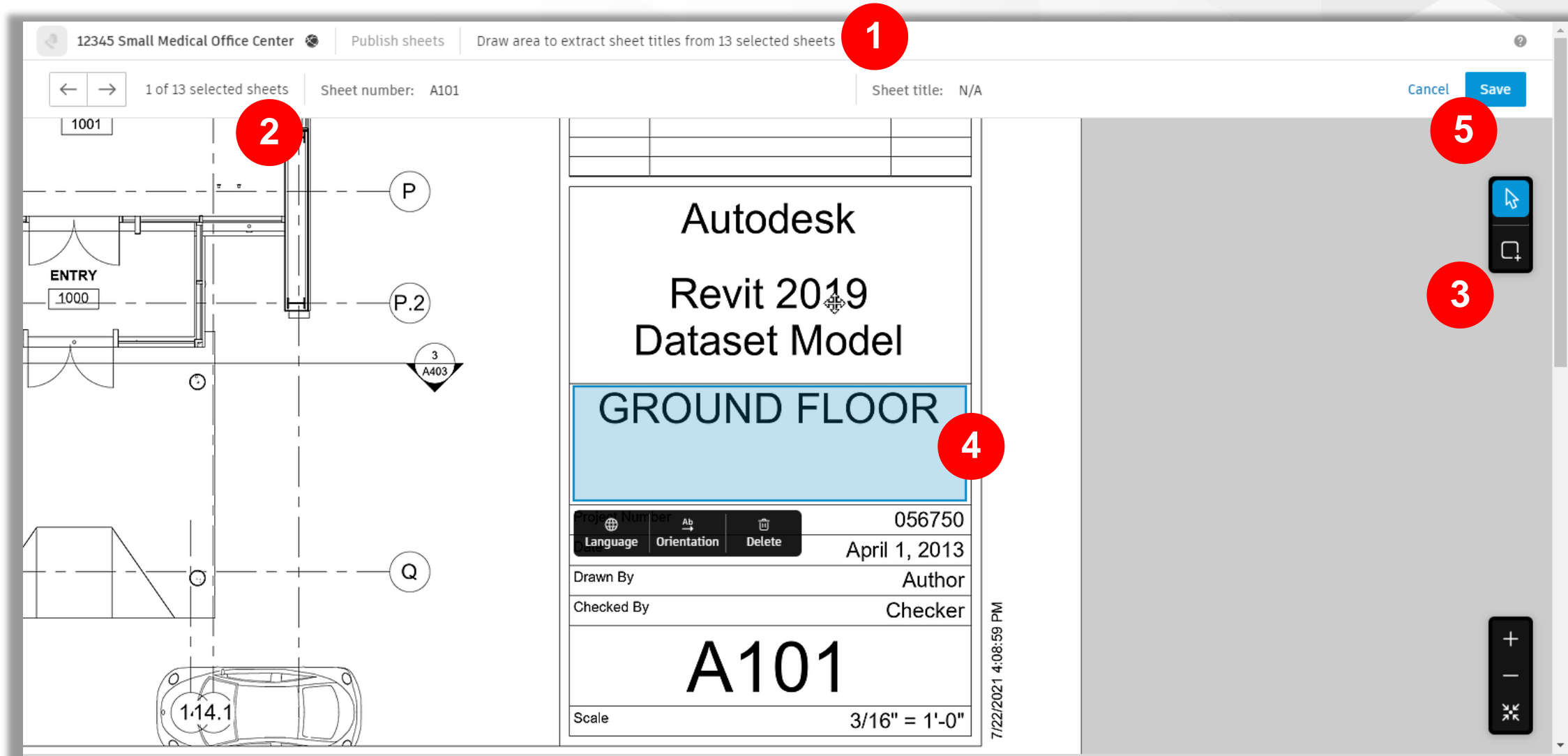
Save for later

Back to sheet numbers

Publish sheets

Autodesk Takeoff

- Publish Sheets – Sheet Title and Tags



Autodesk Takeoff

- Publish Sheets –Tags

12345 Small Medical Office Center

Publish sheets

REVIEW SHEET TITLES AND TAGS

Sheet titles sourced from index sheet or previous version set. Tags assigned based on sheet numbers.

2 of 13 sheets selected

Remove sheets

Draw sheet title area

Edit with rules

Edit Tags

| Sheet number | Sheet thumbnail | Sheet title | |
|--|--------------------|--------------------|-----------------|
| <input checked="" type="checkbox"/> A101 | GROUND FLOOR | GROUND FLOOR | architectural × |
| <input checked="" type="checkbox"/> A102 | SECOND FLOOR | SECOND FLOOR | architectural × |
| <input type="checkbox"/> A201 | RCP- GROUND FLOOR | RCP- GROUND FLOOR | architectural × |
| <input type="checkbox"/> A202 | RCP - SECOND FLOOR | RCP - SECOND FLOOR | architectural × |
| <input type="checkbox"/> A301 | ELEVATIONS | ELEVATIONS | architectural × |

Row height

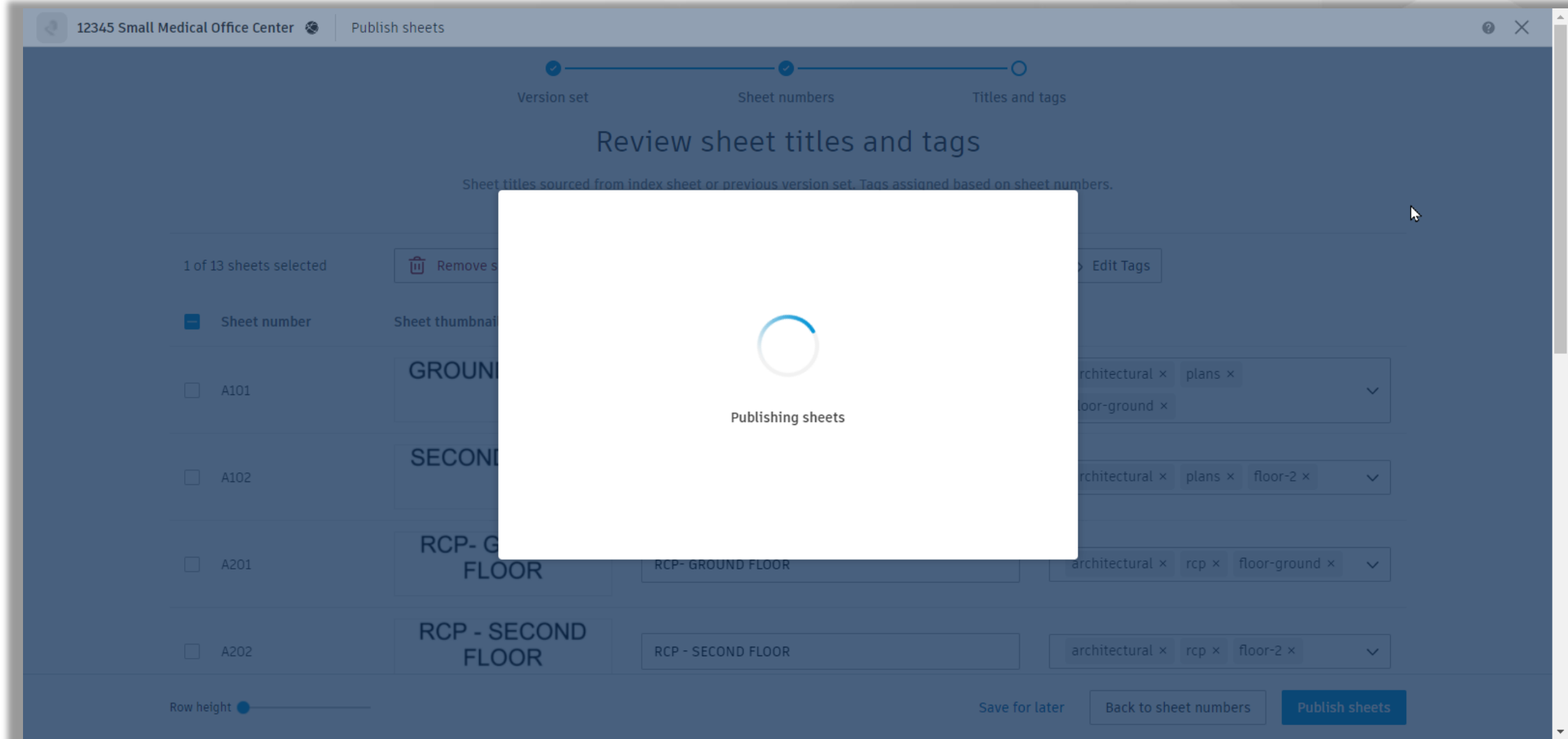
Save for later

Back to sheet numbers

Publish sheets

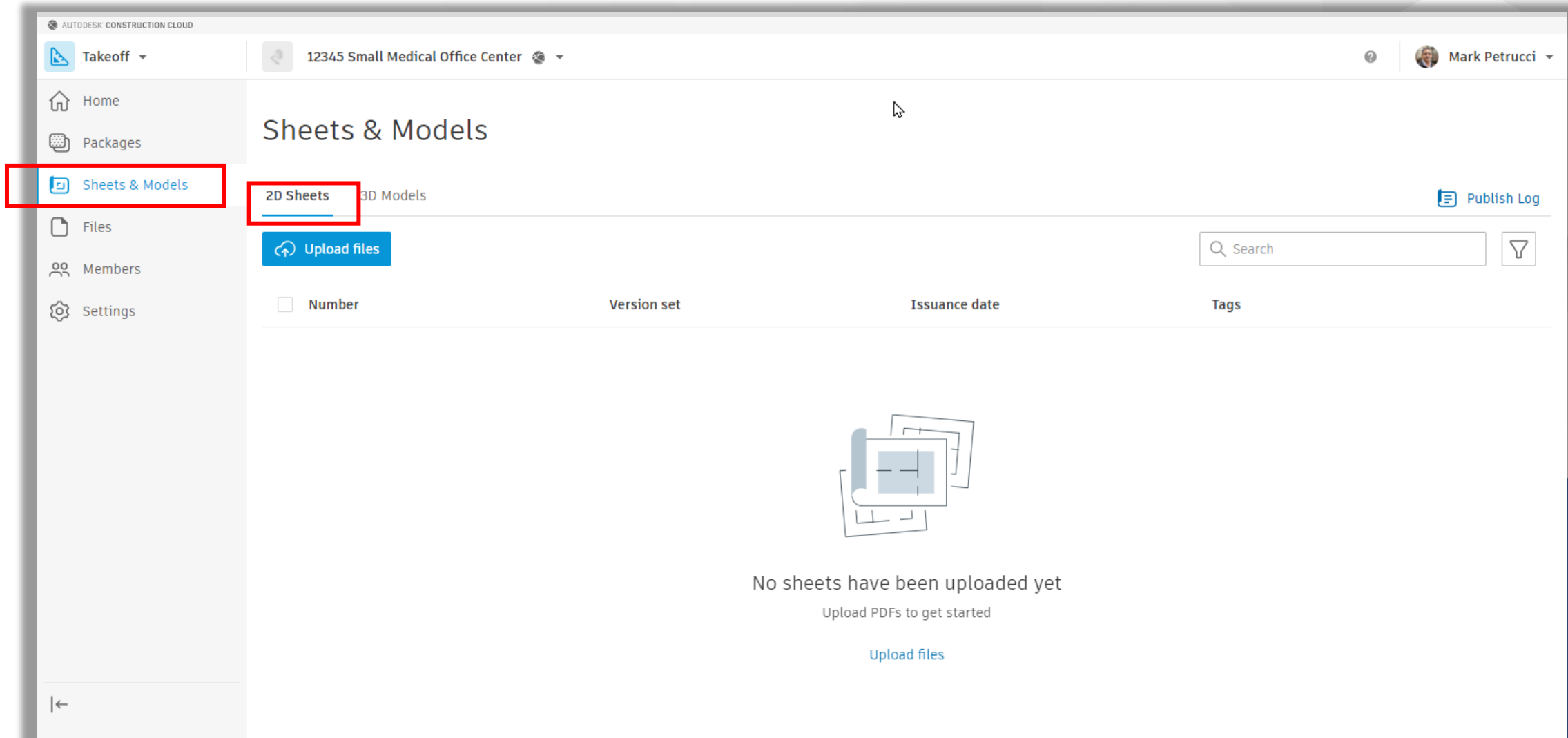
Autodesk Takeoff

- Publish Sheets –Tags



Sheet & Models

- Sheets & Models – Publishing from Docs



Autodesk Takeoff

- Publish Sheets

AUTODESK CONSTRUCTION CLOUD

Takeoff 12345 Small Medical Office Center Mark Petrucci

Home Packages **Sheets & Models** Files Members Settings

2D Sheets 3D Models Publish Log

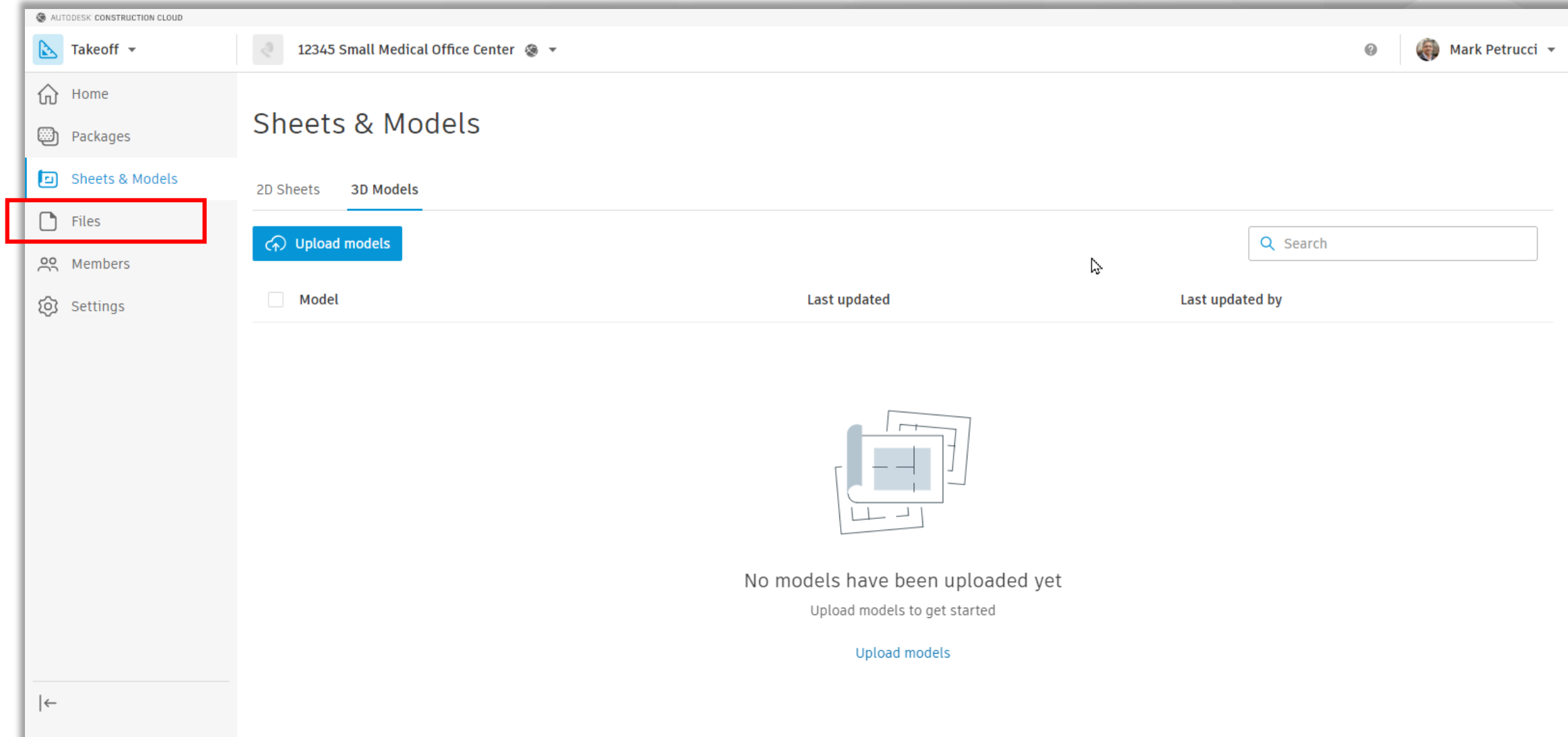
Upload files Search

| <input type="checkbox"/> Number | Version set | Issuance date | Tags |
|---|---------------------------------------|---------------|------------------------------------|
| <input type="checkbox"/> A101 GROUND FLOOR | V1 Architectural Files - First Upload | Aug 1, 2021 | architectural, plans, floor-ground |
| <input type="checkbox"/> A102 SECOND FLOOR | V1 Architectural Files - First Upload | Aug 1, 2021 | architectural, plans, floor-2 |
| <input type="checkbox"/> A201 RCP- GROUND FLOOR | V1 Architectural Files - First Upload | Aug 1, 2021 | architectural, rcp, floor-ground |
| <input type="checkbox"/> A202 RCP - SECOND FLOOR | V1 Architectural Files - First Upload | Aug 1, 2021 | architectural, rcp, floor-2 |
| <input type="checkbox"/> A301 ELEVATIONS | V1 Architectural Files - First Upload | Aug 1, 2021 | architectural, elevations |
| <input type="checkbox"/> A302 ELEVATIONS | V1 Architectural Files - First Upload | Aug 1, 2021 | architectural, elevations |
| <input type="checkbox"/> A303 INTERIOR ELEVATIONS | V1 Architectural Files - First Upload | Aug 1, 2021 | architectural, elevations |
| <input type="checkbox"/> A401 SECTIONS | V1 Architectural Files - First Upload | Aug 1, 2021 | architectural, sections |

Showing 1 - 13 of 13 1 of 1

Autodesk Takeoff

- 3D Models



Autodesk Takeoff

- 3D Models

Autodesk Construction Cloud

Takeoff 12345 Small Medical Office Center Mark Petrucci

Home Packages Sheets & Models Files Members Settings

Project Files

Folders

For the Field

Project Files

Files For Teachers To Download

Classification Examples

Version 1

Version 2

Last Name A-J

Last Name K-S

Last Name T-Z

Upload files Publish

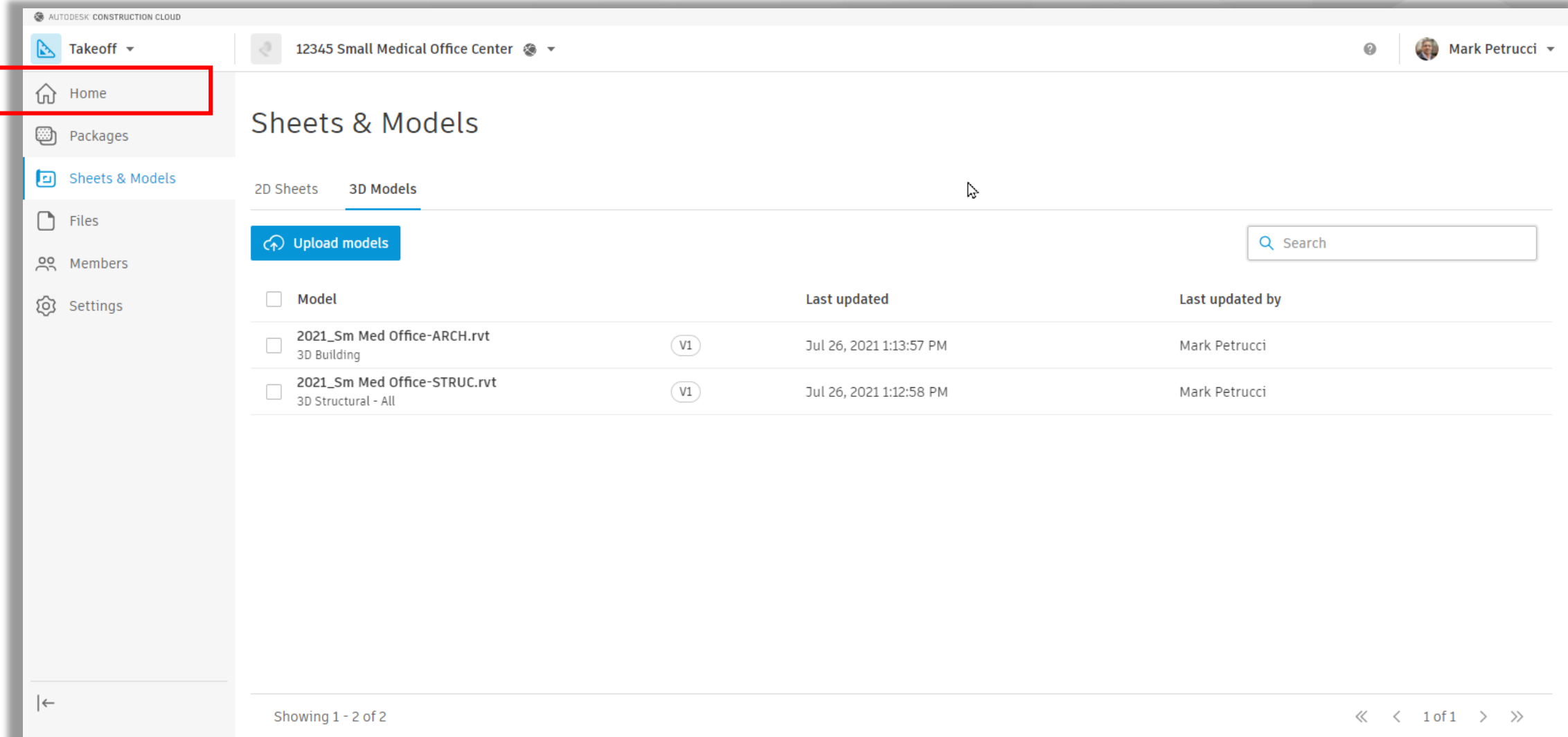
Added Aug. 4, 2021!

| Name ^ | Description | Version | Markup | Size | Last updated | |
|--|-------------|---------|--------|---------|-----------------|--|
| <input type="checkbox"/> 2021_Sm Med Office-ARCH.pdf | | V1 | | 4.1 MB | Jul 22, 2021 8: | |
| <input checked="" type="checkbox"/> 2021_Sm Med Office-ARCH.rvt | | V1 | | 19.3 MB | Jul 22, 2021 8: | |
| <input type="checkbox"/> 2021_Sm Med Office-MEP.rvt | | V1 | | 21.1 MB | Jul 22, 2021 8: | |
| <input checked="" type="checkbox"/> 2021_Sm Med Office-STRUC.rvt | | V1 | | 7.9 MB | Jul 22, 2021 8: | |

2 of 4 selected

Autodesk Takeoff

- 3D Models



AUTODESK CONSTRUCTION CLOUD

Takeoff ▾

12345 Small Medical Office Center ▾

Mark Petrucci ▾

Home

Packages

Sheets & Models

Files

Members

Settings

Sheets & Models

2D Sheets 3D Models

Upload models

Search

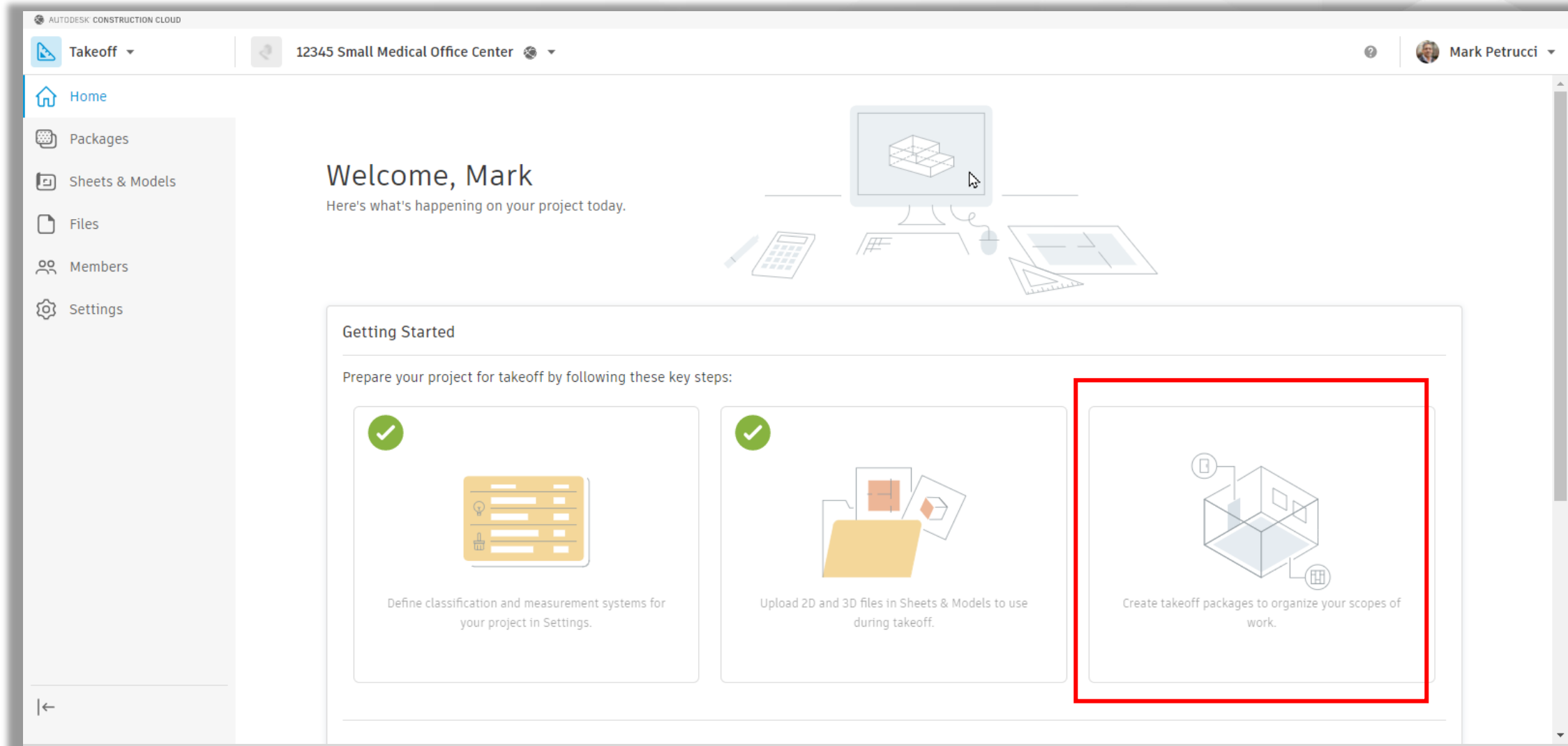
| <input type="checkbox"/> | Model | | Last updated | Last updated by |
|--------------------------|---|----|-------------------------|-----------------|
| <input type="checkbox"/> | 2021_Sm Med Office-ARCH.rvt 3D Building | V1 | Jul 26, 2021 1:13:57 PM | Mark Petrucci |
| <input type="checkbox"/> | 2021_Sm Med Office-STRUC.rvt 3D Structural - All | V1 | Jul 26, 2021 1:12:58 PM | Mark Petrucci |

Showing 1 - 2 of 2

1 of 1

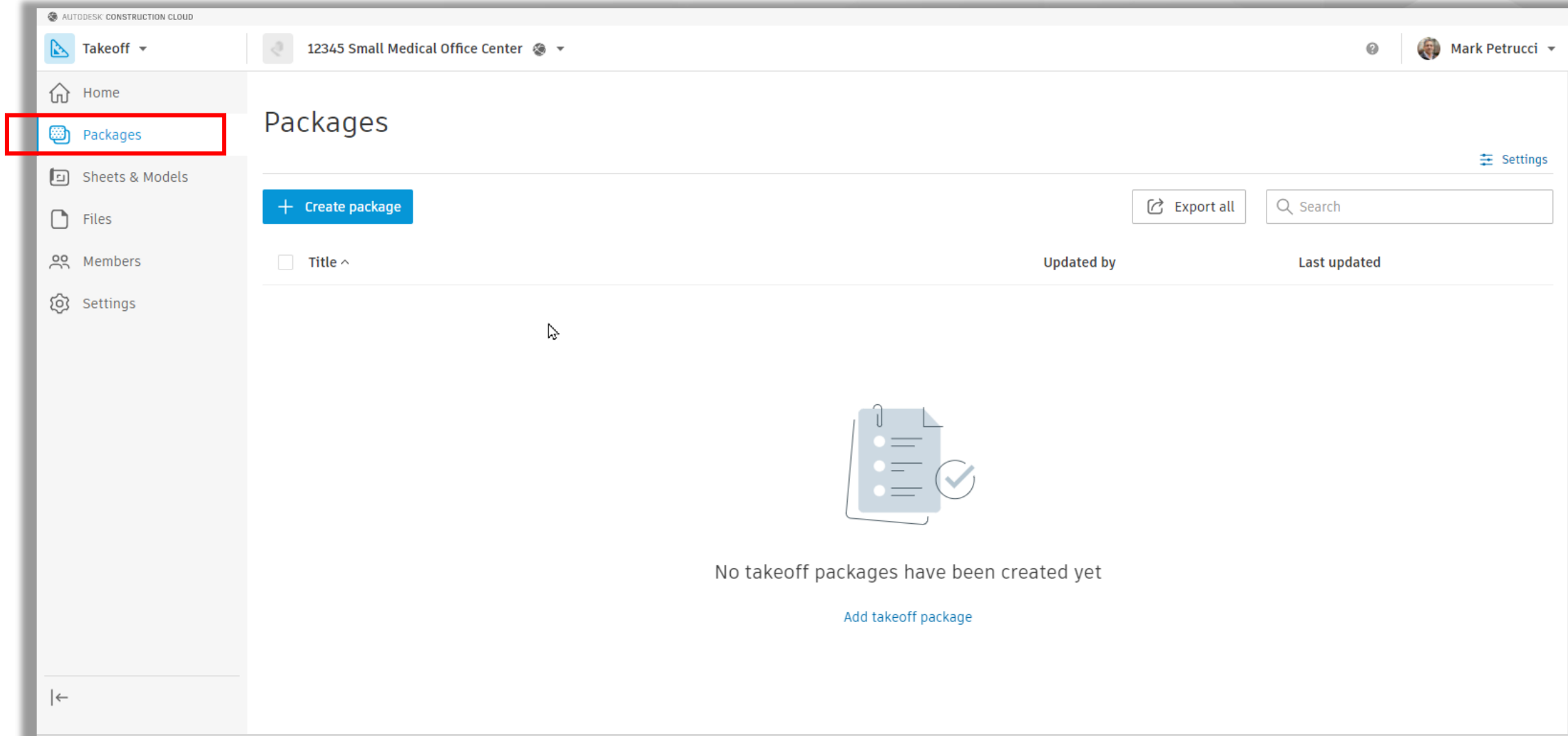
Autodesk Takeoff

- Packages



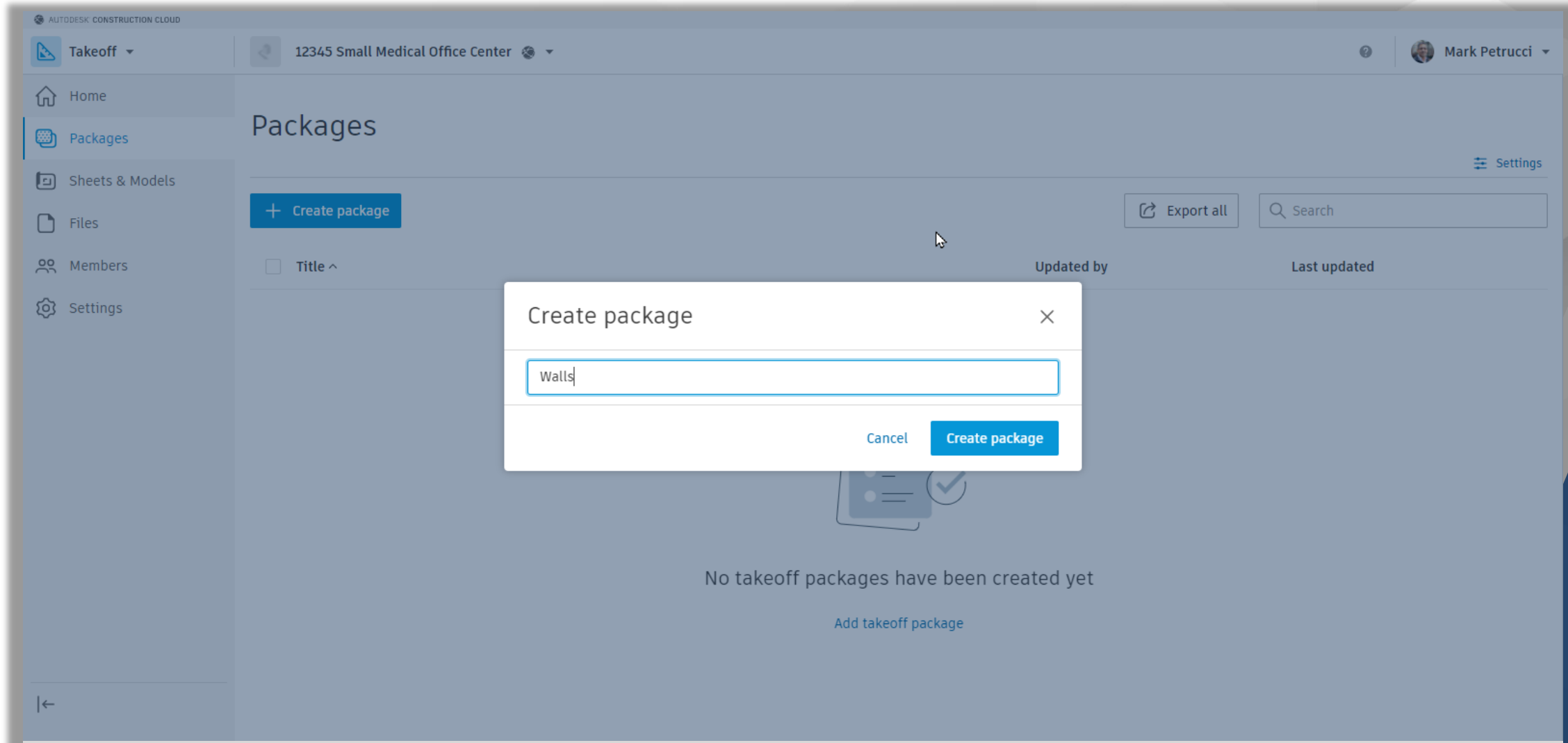
Autodesk Takeoff

- Packages



Autodesk Takeoff

- Creating Packages



Autodesk Takeoff

- Begin Takeoff

The screenshot displays the Autodesk Takeoff web application interface. The top navigation bar includes the Autodesk Construction Cloud logo, a project name '12345 Small Medical Office Center', and a user profile for Mark Petrucci. The left sidebar contains navigation links for Home, Packages, Sheets & Models, Files, Members, and Settings. The main content area is titled 'Packages' and features a '+ Create package' button, an 'Export all' button, and a search bar. Below these is a table listing available packages.

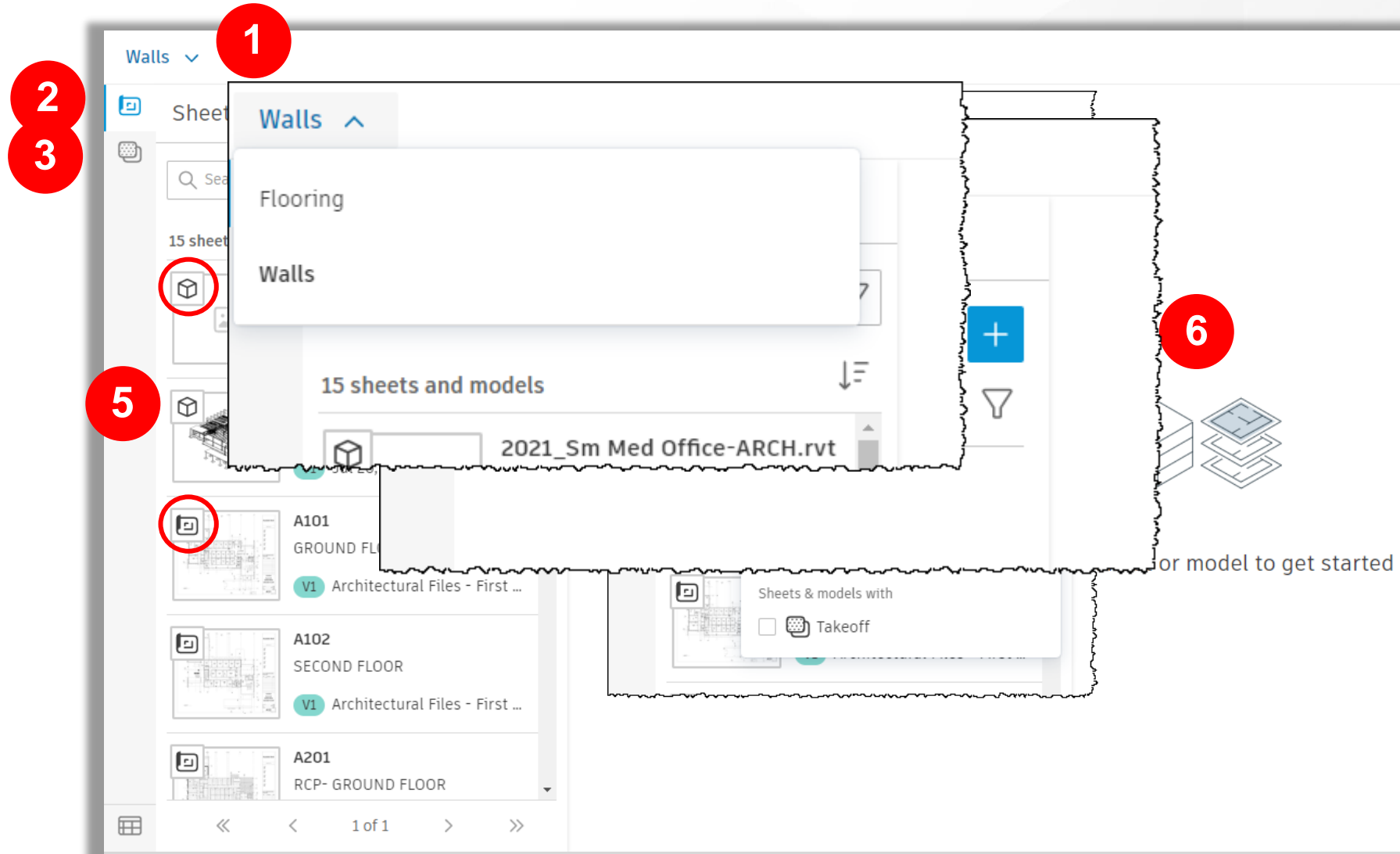
| <input type="checkbox"/> Title ^ | Updated by | Last updated |
|-----------------------------------|---------------|-------------------------|
| <input type="checkbox"/> Flooring | Mark Petrucci | Jul 26, 2021 1:21:27 PM |
| <input type="checkbox"/> Walls | Mark Petrucci | Jul 26, 2021 1:21:18 PM |

A red callout bubble with the text "Select a Package to begin a Takeoff" points to the 'Flooring' package in the table.

Showing 1 - 2 of 2

Autodesk Takeoff

- Takeoff Viewer





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SUMMER SCHOOL

Hands On!



Takeoff Types



Search



10 takeoff types



C - Interiors

1

① Door 3-0 Interior Wood- MJP

31 EA

① Door 6-0 Double Glass - MJP

3 EA

2

① Door 6-0 Double Wood - MJP

2 EA

3

① Door 6-0 Sliding Glass- MJP

2 EA

Flooring Carpeting - MJP

Flooring Hardwood 3/4" - MJP

1724.34 SF

4

Flooring Tile - MJP

381.65 SF

5

Flooring Vinyl - MJP

5154.14 SF

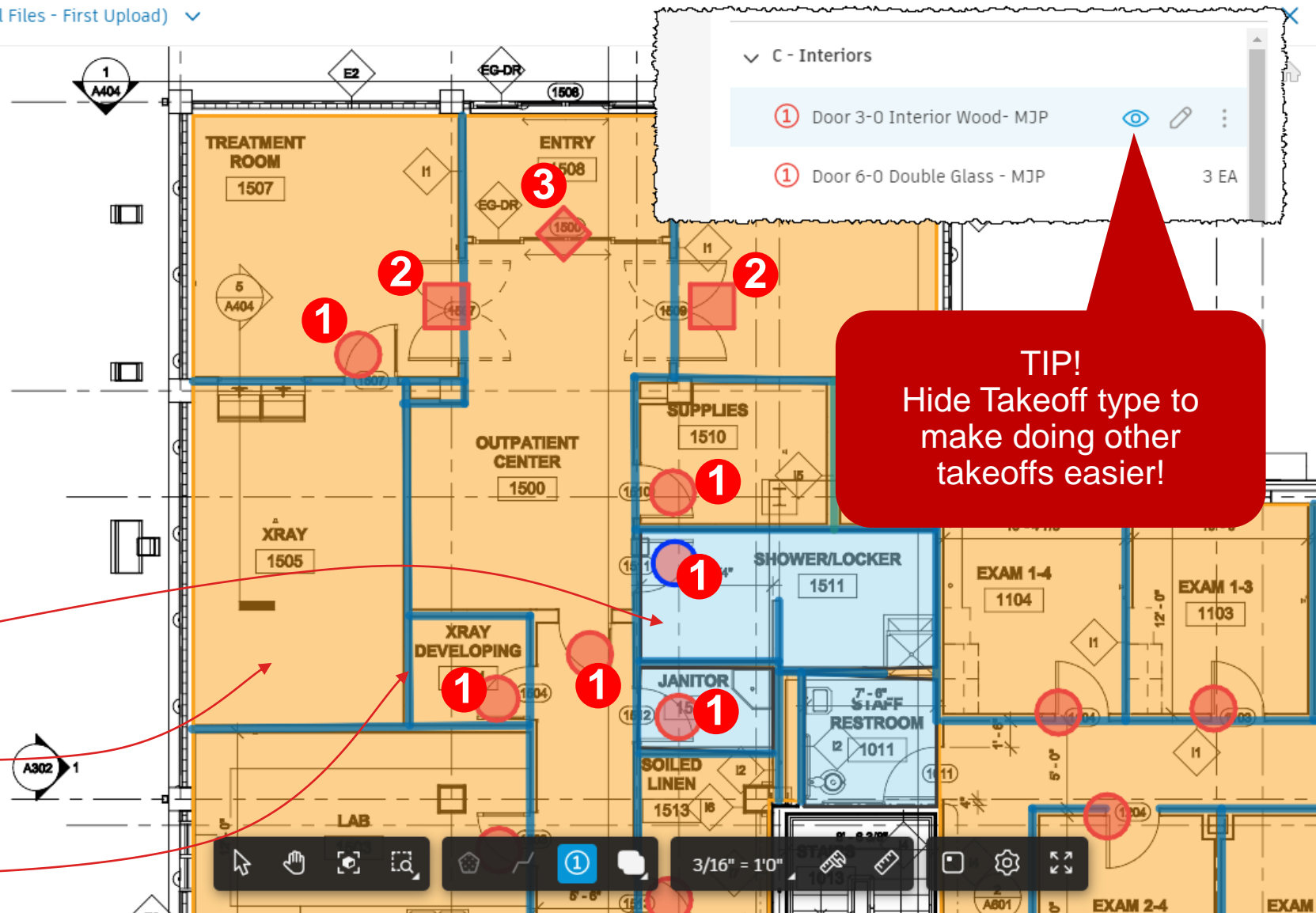
Wall 12" CMU - MJP

23.51 LF

6

Wall 5" Mtl Stud - MJP

692.61 LF



- Inventory / Reports

Interior - Walls, Doors, Windows, Floo... A102 (Architectural Files - First Upload)

Sheets & Models

Search

15 sheets and models

- 2021_Sm Med Office-ARCH.rvt
3D Building
V1 Jul 26, 2021
- 2021_Sm Med Office-STRUC.rvt
3D Structural - All
V1 Jul 26, 2021
- A101
GROUND FLOOR
V1 Architectural Files - First ...
- A102
SECOND FLOOR**
V1 Architectural Files - First ...
- A201
RCP- GROUND FLOOR

1

04-01-13 ARCHITECTURAL CHECK SET

| No. | Description | Date |
|-----|-------------|----------|
| 1 | IN HOUSE | 06-11-16 |

Autodesk
Revit 2019
Dataset Model
SECOND FLOOR

Project Number 056760
Date April 1, 2013
Drawn By Author

3/16" = 1'0"

- Inventory / Reports

Interior - Walls, Doors, Windows, Floor...
A102 (Architectural Files - First Upload)
✕

Sheets & Models

15 sheets and models

2021_Sm Med Office-ARCH.rvt

3D Building

V1 Jul 26, 2021

2021_Sm Med Office-STRUC.rvt

3D Structural - All

<<
<
1 of 1
>
>>

Inventory

Group by

Document

Export
✕

| Name ^ | Count | Quantity | Unit | Code | Description | Document |
|-------------------------|-------|----------|------|-------|---------------------|----------|
| ▼ A101 | 3 | 3 | EA | | | A101 |
| 3-0 Interior Door - MJP | 1 | 1 | EA | C1030 | Interior Doors | A101 |
| 6-0 Double Door - MJP | 1 | 1 | EA | C1030 | Interior Doors | A101 |
| Carpeting - MJP | 1 | 1 | EA | C2030 | Flooring | A101 |
| ▼ A102 | 18 | | | | | A102 |
| 12" CMU Wall - MJP | 2 | 37.10 | LF | C1010 | Interior Partitions | A102 |

Click on an item in the left panel to view instances

Autodesk Takeoff

- Inventory / Reports

Autodesk Takeoff Inventory - Google Chrome

acc.autodesk.com/takeoff/assets-no-cache/inventoryTable.html

Inventory

Group by Document

1

3

2

| Name ^ | Count | Quantity | Unit | Code | Description | Document | 3-0 Interior Door - MJP |
|-----------------------------|-------|----------|------|-------|---------------------|----------|--|
| ▼ A101 | 3 | 3 | EA | | | A101 | <div><div>Takeoff Name</div><div>Quantity</div><div>Unit</div><div>Document</div></div> |
| 3-0 Interior Door - MJP | 1 | 1 | EA | C1030 | Interior Doors | A101 | <div><div><input type="checkbox"/></div><div>① 3-0 Interior Door - ...</div><div>1</div><div>EA</div><div>A102</div></div> |
| 6-0 Double Door - MJP | 1 | 1 | EA | C1030 | Interior Doors | A101 | <div><div><input type="checkbox"/></div><div>① 3-0 Interior Door - ...</div><div>1</div><div>EA</div><div>A102</div></div> |
| Carpeting - MJP | 1 | 1 | EA | C2030 | Flooring | A101 | <div><div><input type="checkbox"/></div><div>① 3-0 Interior Door - ...</div><div>1</div><div>EA</div><div>A102</div></div> |
| ▼ A102 | 18 | | | | | A102 | <div><div><input type="checkbox"/></div><div>① 3-0 Interior Door - ...</div><div>1</div><div>EA</div><div>A102</div></div> |
| 12" CMU Wall - MJP | 2 | 37.10 | LF | C1010 | Interior Partitions | A102 | <div><div><input type="checkbox"/></div><div>① 3-0 Interior Door - ...</div><div>1</div><div>EA</div><div>A102</div></div> |
| 3-0 Interior Door - MJP | 5 | 5 | EA | C1030 | Interior Doors | A102 | |
| 3/4" Hardwood - MJP | 1 | 1 | EA | C2030 | Flooring | A102 | |
| 5" Wall - MJP | 7 | 127.33 | LF | C1010 | Interior Partitions | A102 | |
| 6-0 Double Door - MJP | 1 | 1 | EA | C1030 | Interior Doors | A102 | |
| 6-0 Glass Double Door - MJP | 1 | 1 | EA | C1030 | Interior Doors | A102 | |
| Carpeting - MJP | 1 | 1 | EA | C2030 | Flooring | A102 | |

4

5

Export

Item count: 5



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Q & A



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Make anything[™]

Updates Notification for Packages

- Sheets/Models

ASTI KB - Intranet-CTG

Packages - Autodesk Takeoff

+

acc.autodesk.com/takeoff/packages/projects/8887ae9c-fa96-4816-8ddc-40d61512b4e4

AppsQuick LinksASTI LinksAutodesk Construct...Autodesk LinksLearningPower BIMisc ReadsPersonal

AUTODESK CONSTRUCTION CLOUD

Takeoff

UP-12345 Small Medical Office Center (Take...

Mark Petrucci

Home

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Settings

+ Create package

Export all

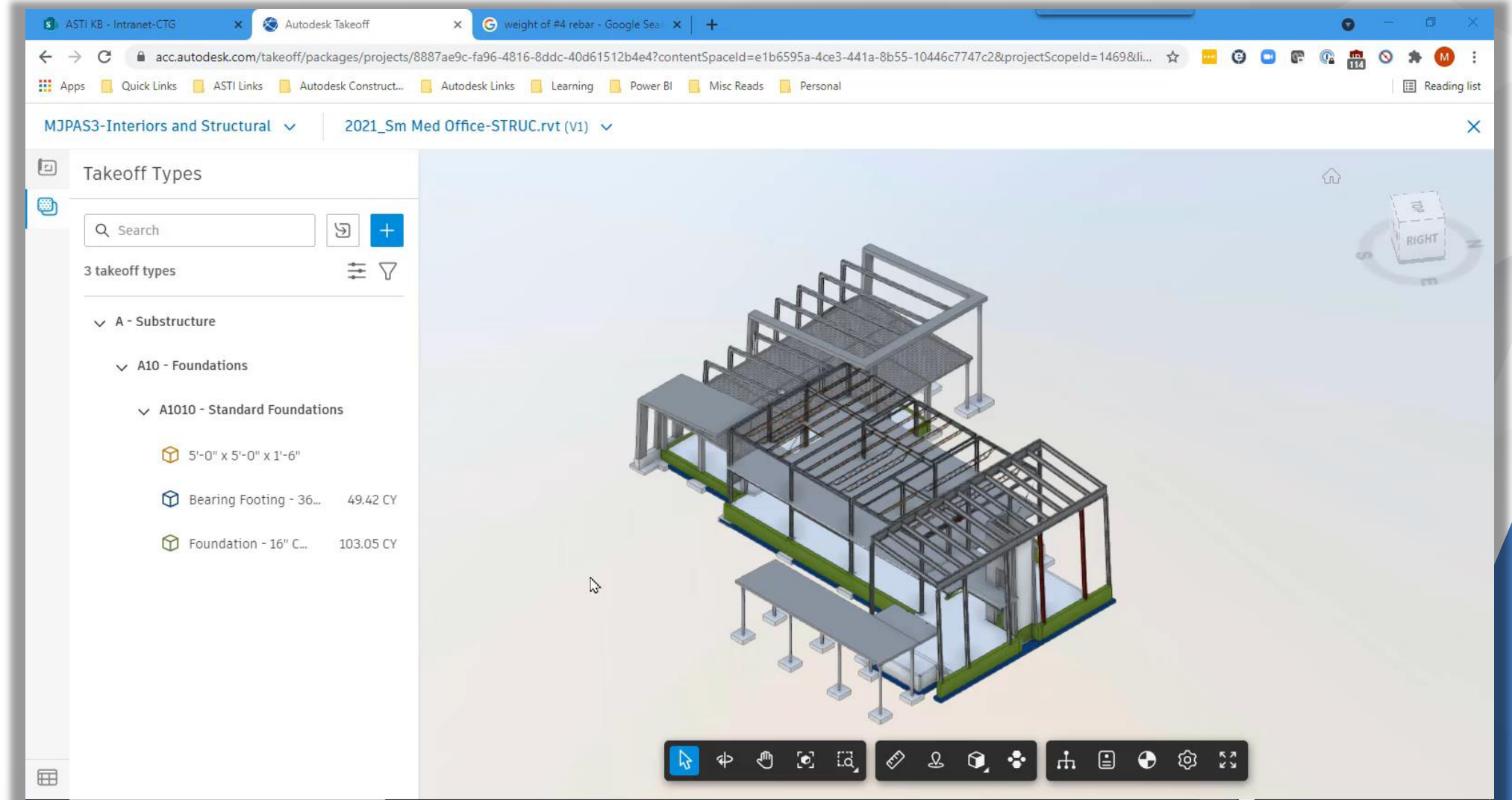
Search

| <input type="checkbox"/> Title ^ | Updated by | Last updated |
|--|-----------------------|-------------------------|
| <input type="checkbox"/> LDPU-Interior and Structural | Luciana Debs | Aug 5, 2021 4:47:26 PM |
| <input type="checkbox"/> LED IIT-Interior and Structural | Mark Petrucci | Aug 24, 2021 8:45:41 AM |
| <input type="checkbox"/> MDMSUM-Interior and Structural <div>Updates</div> | Mohamed Diab | Aug 3, 2021 4:47:30 PM |
| <input type="checkbox"/> MHIIT-Interior and Structural <div>Updates</div> | Mohammad Heidarinejad | Aug 3, 2021 4:44:34 PM |
| <input type="checkbox"/> MJPAS-Interior & Structure <div>Updates</div> | Mark Petrucci | Jul 29, 2021 9:53:16 AM |
| <input type="checkbox"/> MJPAS-Interior and Structural | Mark Petrucci | Aug 5, 2021 4:57:29 PM |
| <input type="checkbox"/> MJPAS2-Interior and Structural <div>Updates</div> | Mark Petrucci | Aug 4, 2021 2:59:23 PM |
| <input type="checkbox"/> MJPAS3-Interior and Structural | Mark Petrucci | Aug 5, 2021 4:47:20 PM |

Showing 1 - 48 of 48

<<< < 1 of 1 > >>>

Formula for Calculating Rebar Weight



Formulas - Bug

- Autodesk is working on fix

