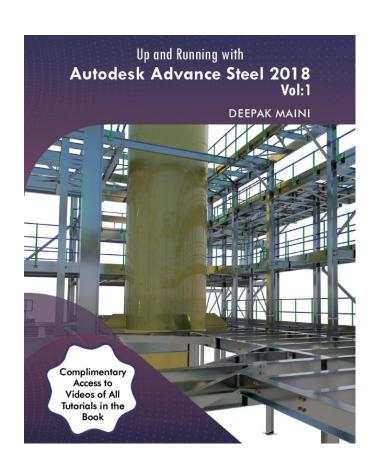
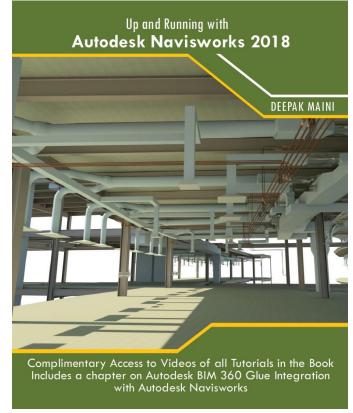


Welcome to the MSF Conference

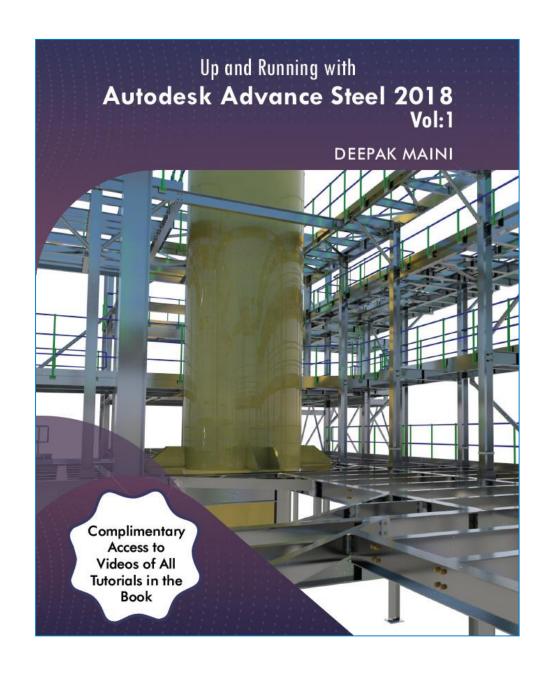
My Introduction

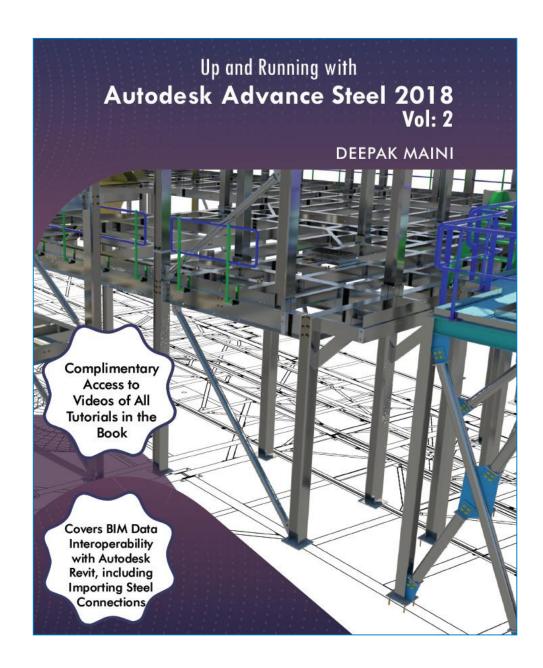
- Qualified Mechanical Engineer
- More than 18 Years of experience in the industry
- Autodesk Expert Elite
- Guest lecturer at the University of Technology Sydney (UTS) and University of New South Wales (UNSW)
- Top rated speaker at Autodesk University in Las Vegas for last 3 years in a row
- Among the Top 3 speakers at BILT ANZ and Top 6 speakers at BILT Asia
- Author of the Up and Running with Autodesk Advance Steel and Up and Running with Autodesk Navisworks series of books





Give Away 1 Set of the Advance Steel Books





A lot more Goodies...

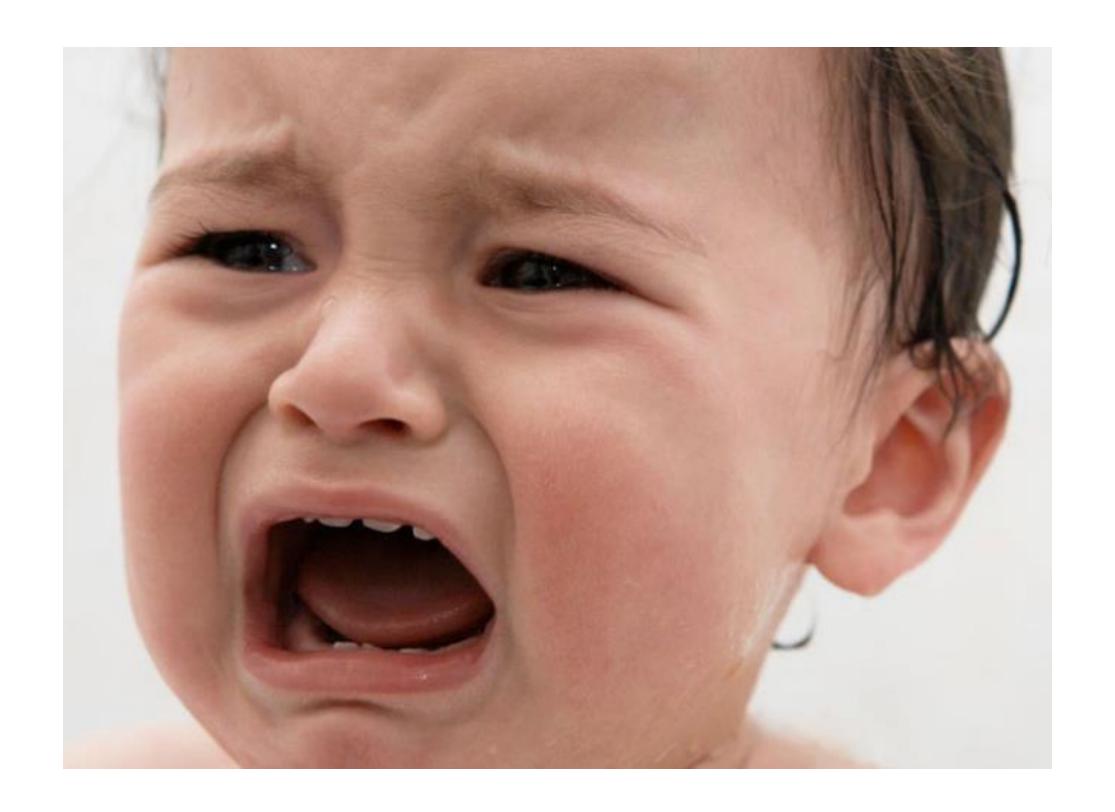






Let's Take a Pledge

Please stand up...



Rules of Engagement

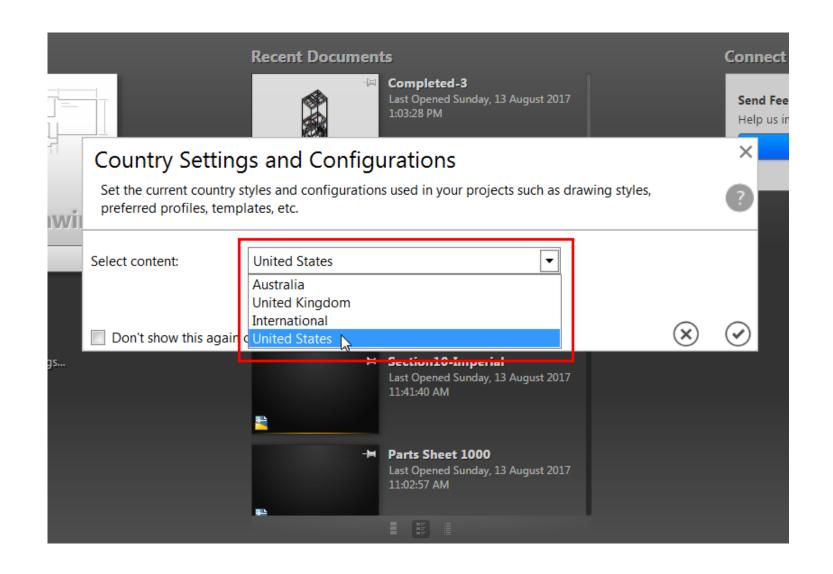
- 11 Sections to be Completed in this lab + 2 Extra Sections (in the Handout)
- Only have 60 Minutes (~50) to Complete All Sections
- I will Show you the Steps in Each Section First and then Let you Work on that Section
- All Required Exercise Files are in the <u>Imperial Units (US Settings)</u> and <u>Metric</u>
 (<u>Australia Settings</u>) and are saved in a Folder called C:\Dataset\Deepak Maini
- Imperial Handouts under Class Handout and Metric are under Additional Class Material
- Great "Lab Buddies" <u>Here to Help You</u>, if needed (Thank You Guys)

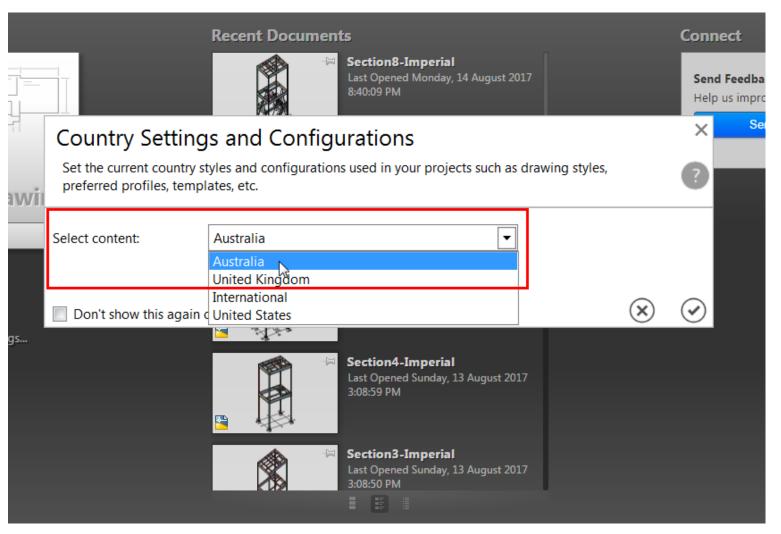
Challenge for You as well as Me

Hence the Pledge...

Section 1: Starting Advance Steel

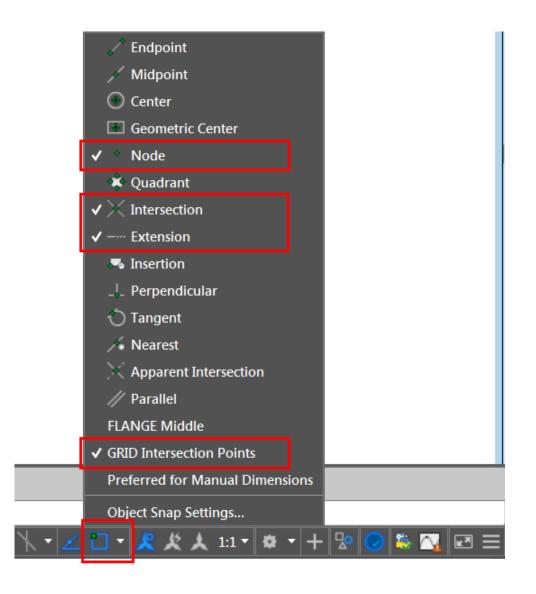
Selecting the Country Settings to start Advance Steel

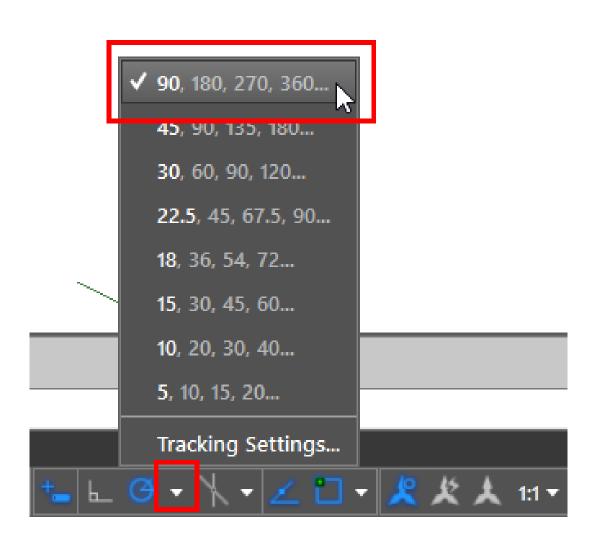




Section 2: Inserting and Copying Columns, Peripheral Beams and Filter Beams (Step 1-4 and Stop)

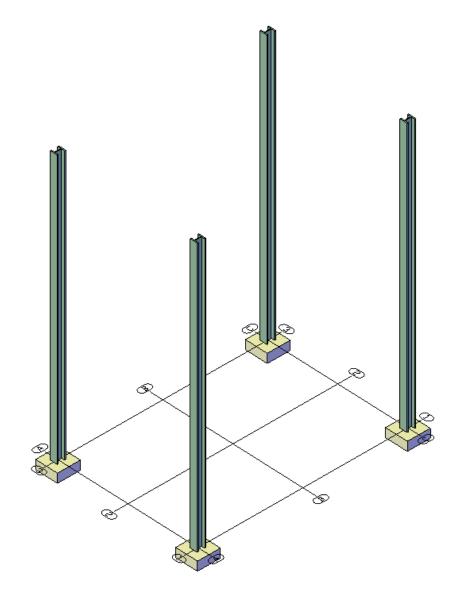
- Open the Section2-Imperial.dwg or Section2-Metric.dwg file
- Select the following Object Snap Types and configure the Polar Tracking settings

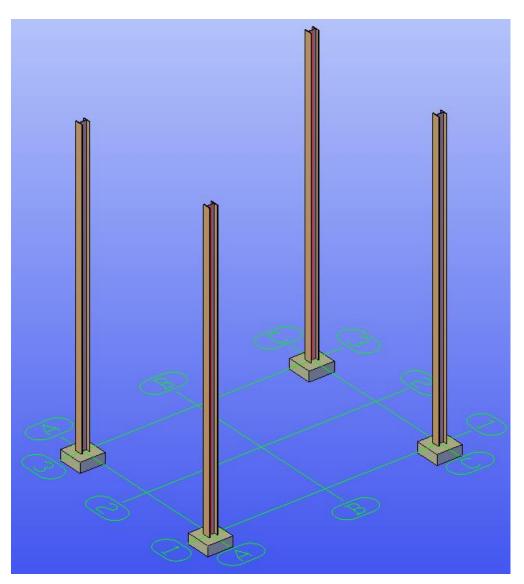




Section 2: Inserting and Copying Columns, Peripheral Beams and Filter Beams (Steps 5-14 and Stop)

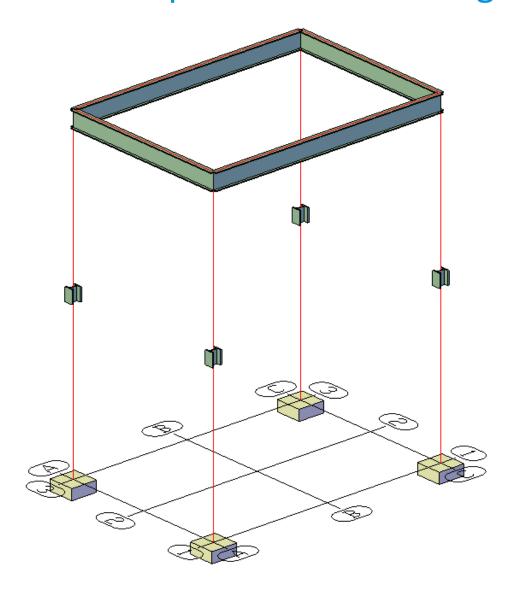
- Insert a Rolled I Section at A1 Grid Intersection Point (40' or 12000mm). Section Type is
 AISC 14.1 W > W12x210 or Australian Universal Column > 310 UC 158
- Copy the section to the A2, C1 and C3 Grid Intersection Points

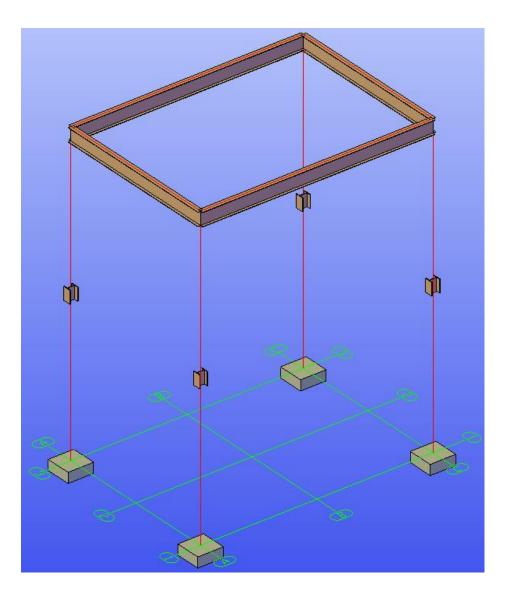




Section 2: Inserting and Copying Columns, Peripheral Beams and Filter Beams (Steps 15-30 Only)

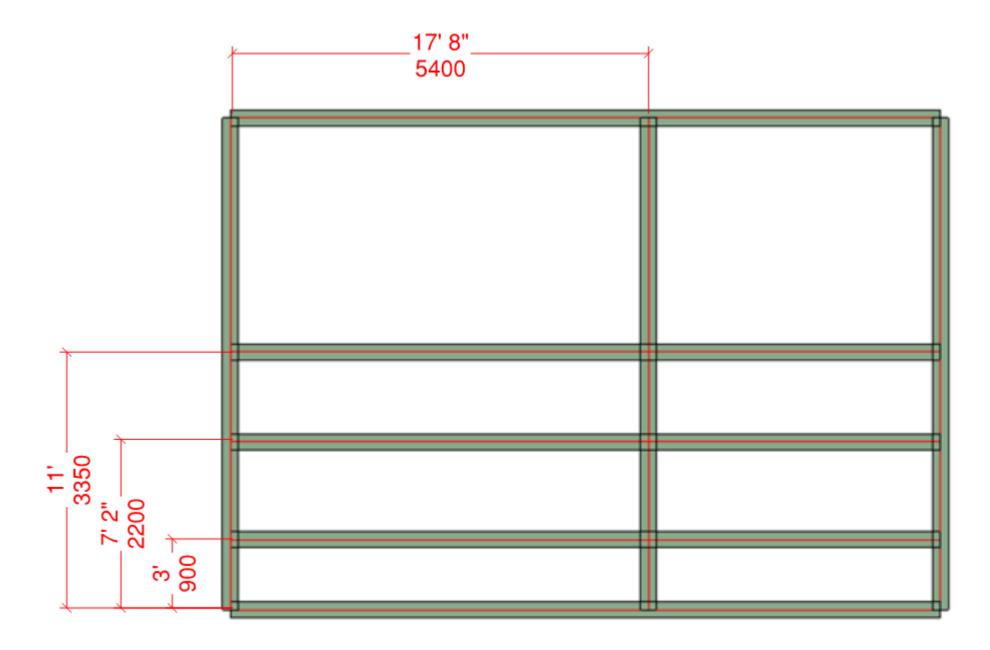
- Change the display of columns to Symbol
- Insert Perimeter Beams. Section Type is AISC 14.1 S > S24X121 or Australian Universal Beam
 > 530 UB 82.0 with Top Center Positioning





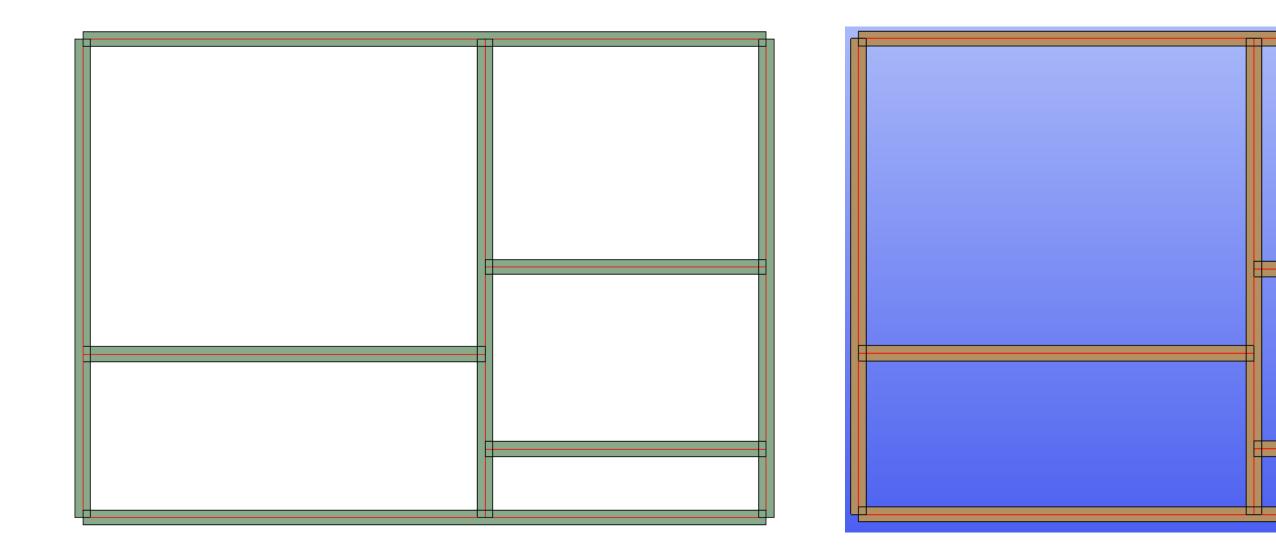
Section 2: Inserting and Copying Columns, Peripheral Beams and Filter Beams

- Isolate Beams and Change the view to Top View
- Copy Perimeter Beams



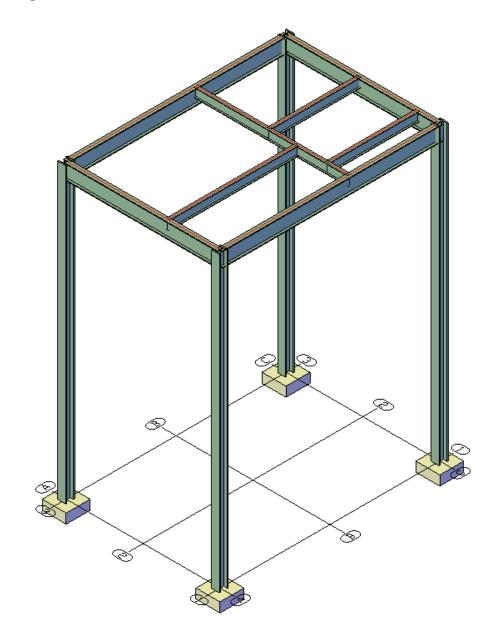
Section 2: Inserting and Copying Columns, Peripheral Beams and Filter Beams

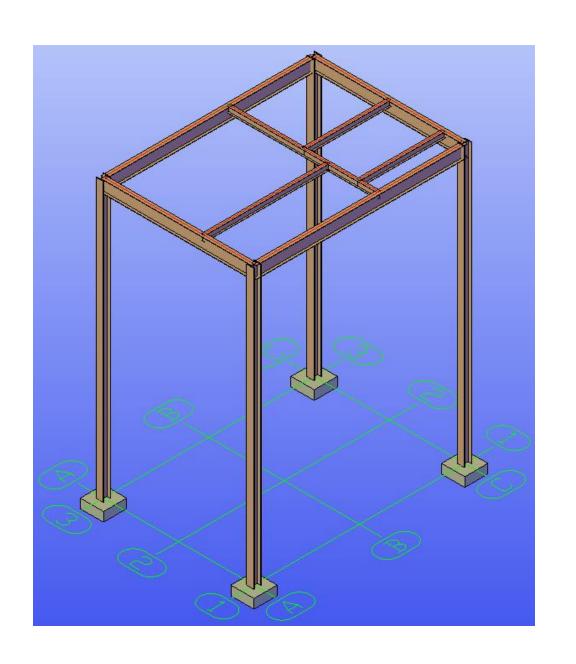
- Split Beams
- Change the sizes to AISC 14.1 S > S12X50 or Australian Universal Beam > 250 UB 31.4



Section 2: Inserting and Copying Columns, Peripheral Beams and Filter Beams (Remaining Steps)

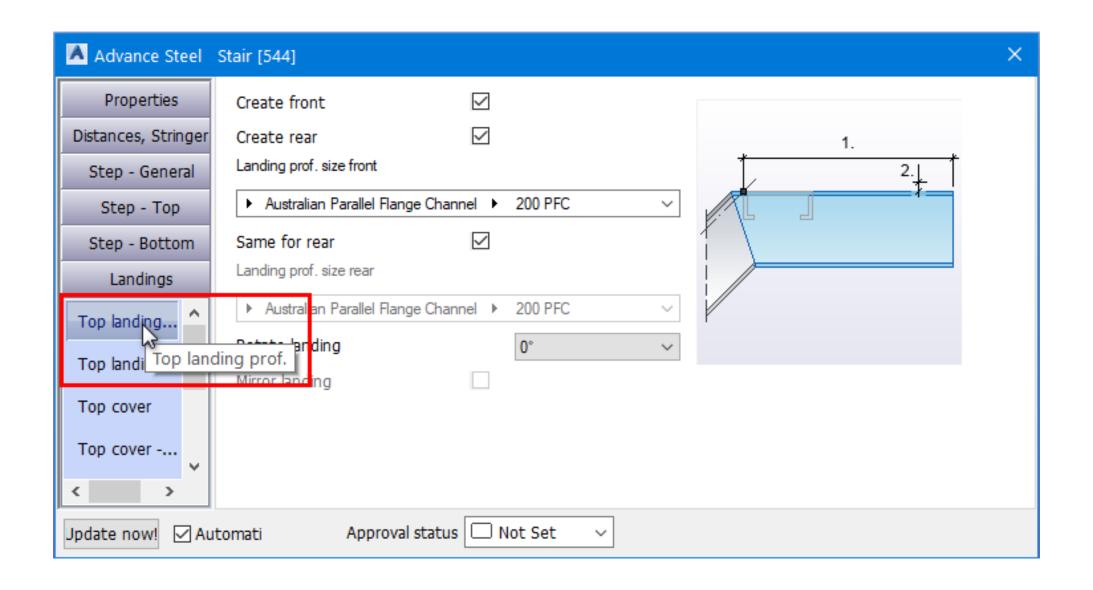
- Change the view to Home view with Parallel Projection
- Unisolate all objects





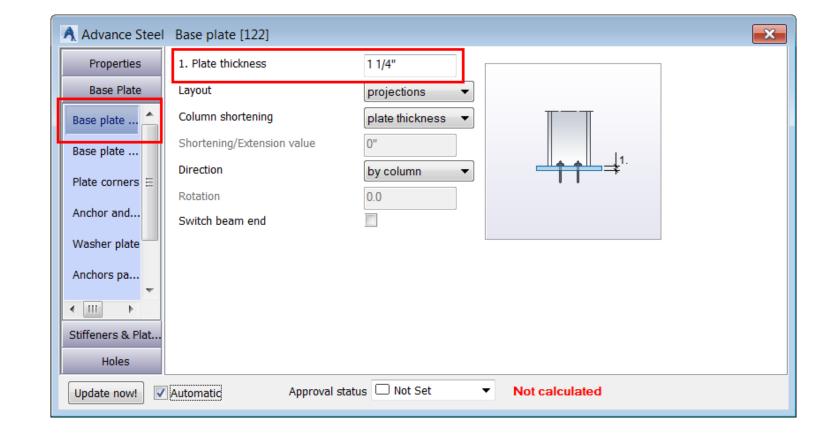
Section 3: Inserting and Copying the Base Plate Joints (Important thing about the Dialog box Tab Names)

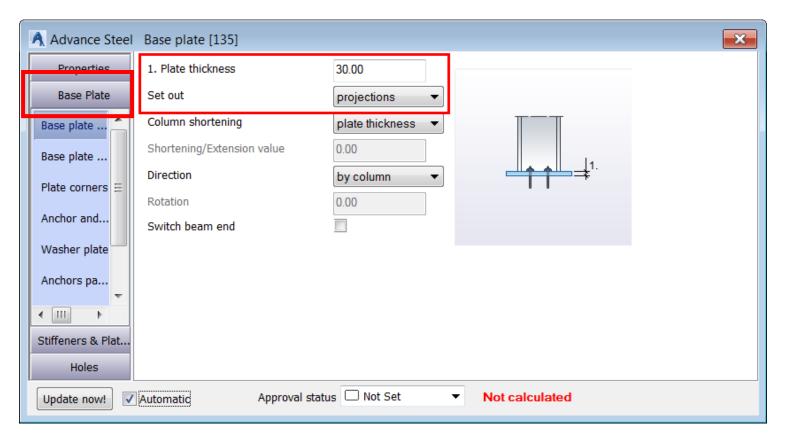
Hover the cursor over the tab name to display the full name of the tab



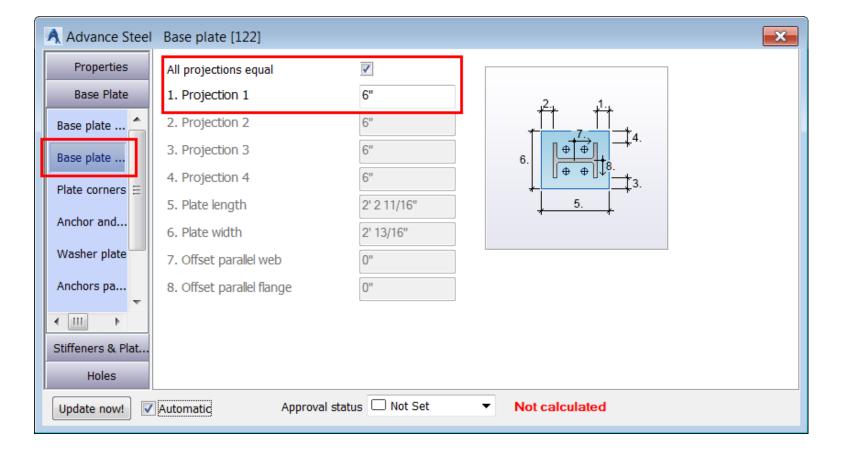
Section 3: Inserting and Copying the Base Plate Joints (Steps 1-23 Only)

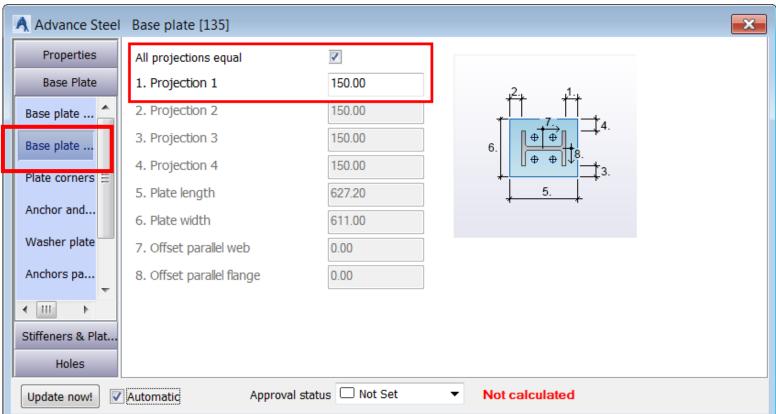
- Open the Section3-Imperial.dwg or Section3-Metric.dwg file
- Turn on Connection vault
- Invoke the Base plate Joint and select the column at A1 grid intersection point
- Base Plate > Base plate layout tab:



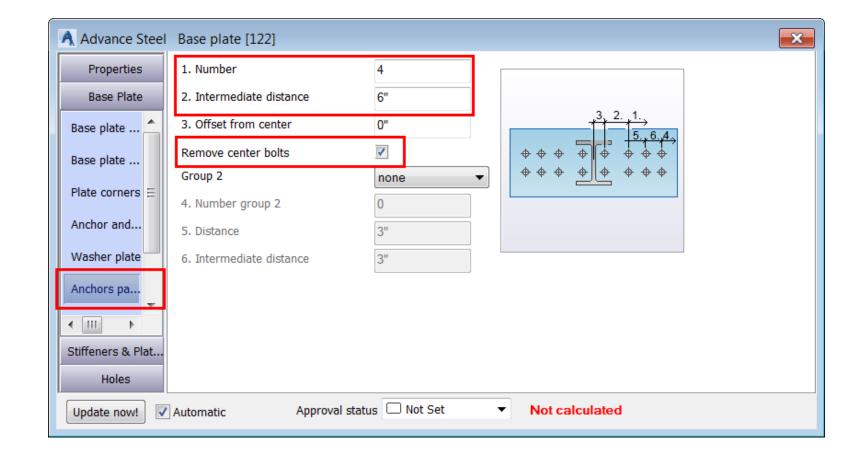


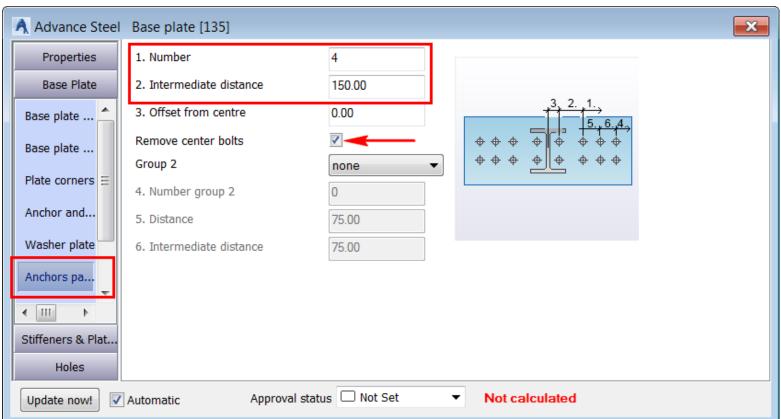
Base Plate > Base plate dimensions tab:



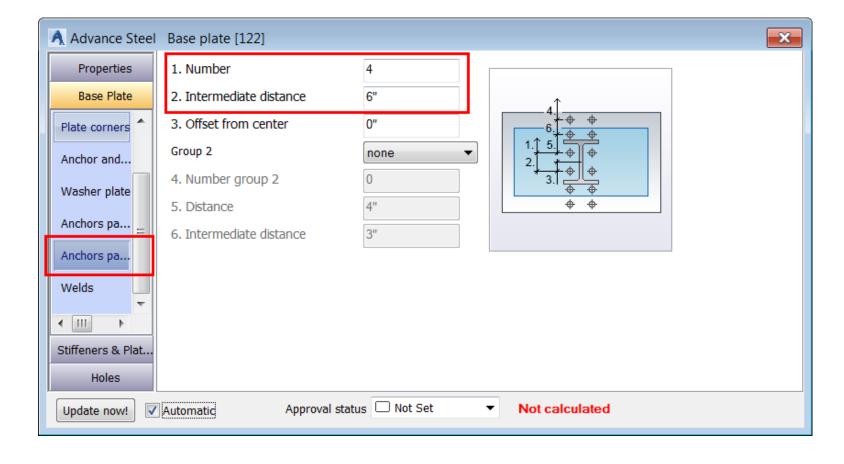


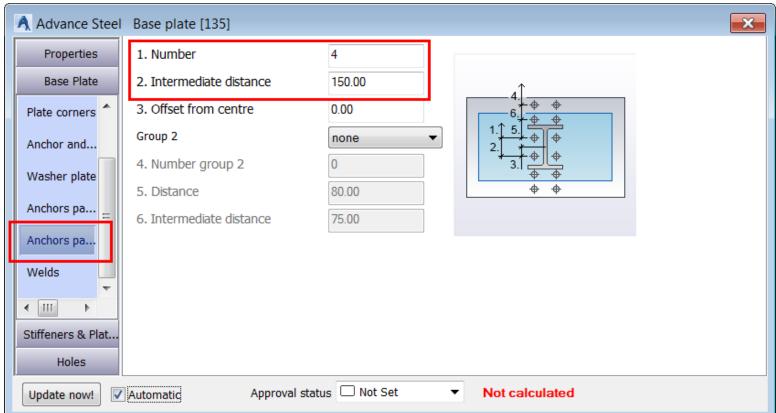
Base Plate > Anchor parallel web tab:



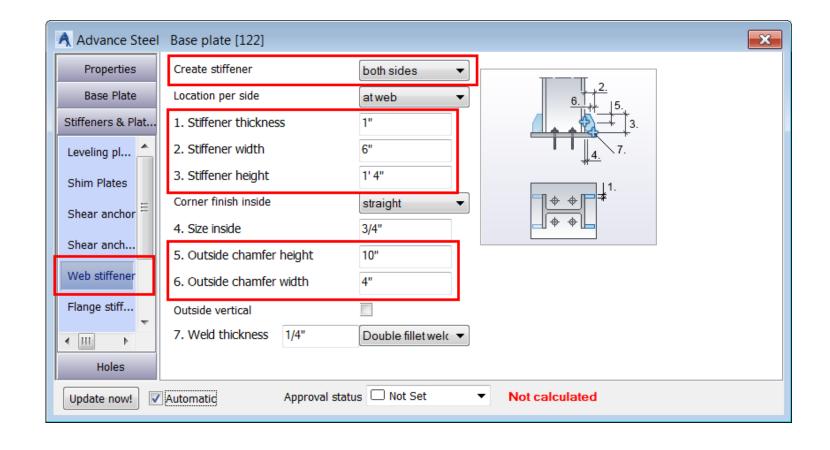


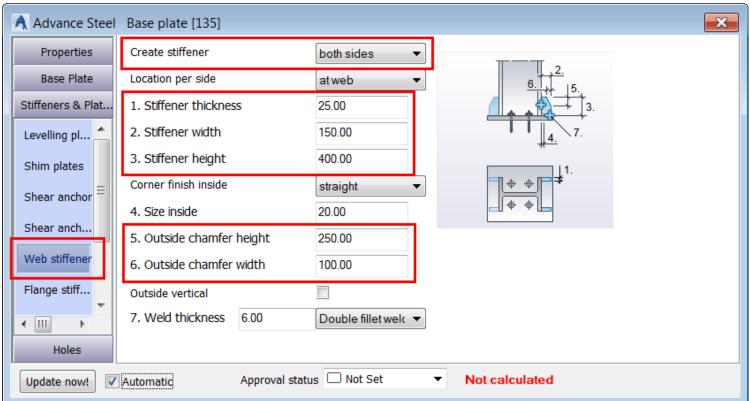
Base Plate > Anchor parallel flange tab:



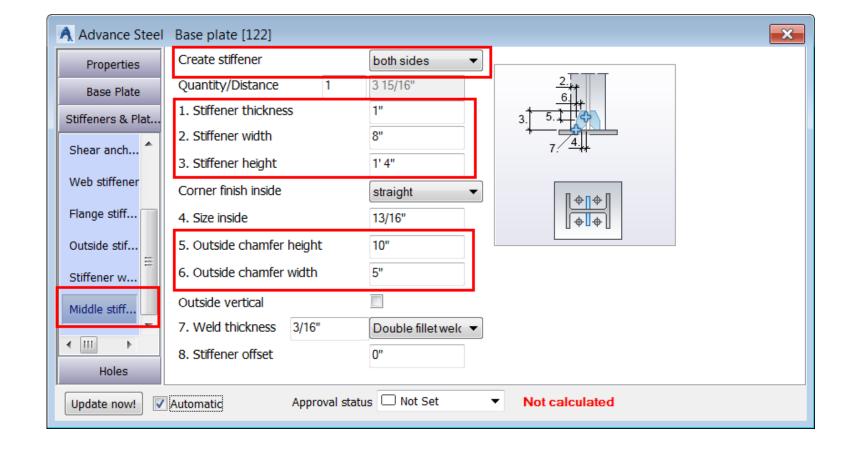


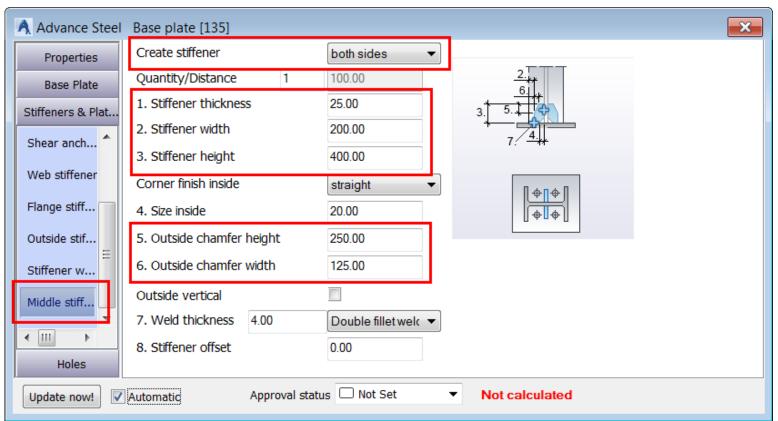
Stiffeners & Plates > Web stiffener tab:



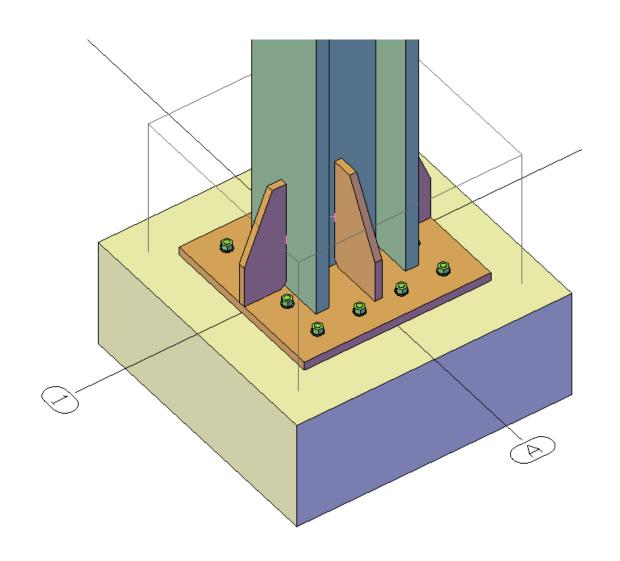


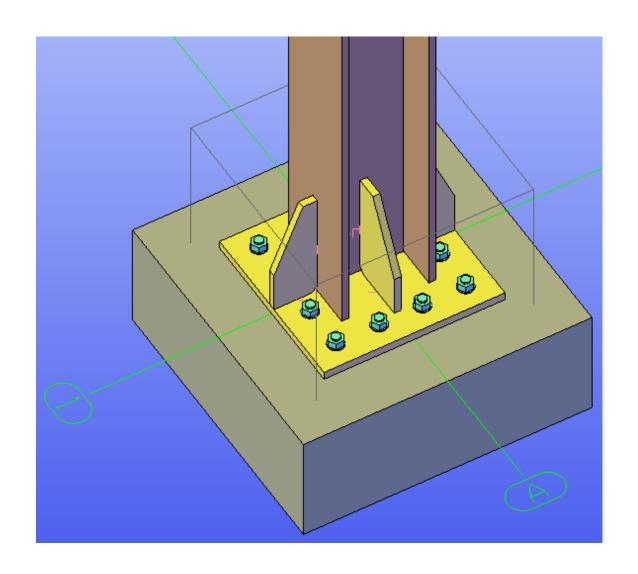
Stiffeners & Plates > Middle stiffener tab:



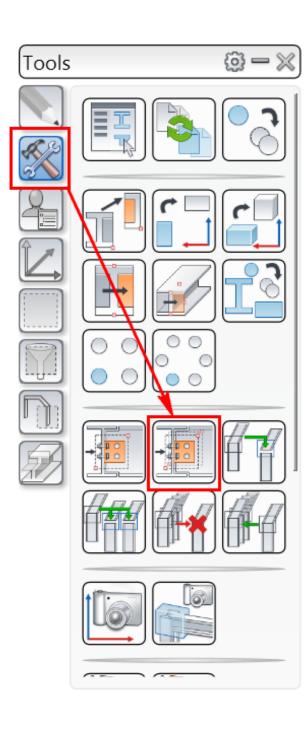


Close the dialog box.



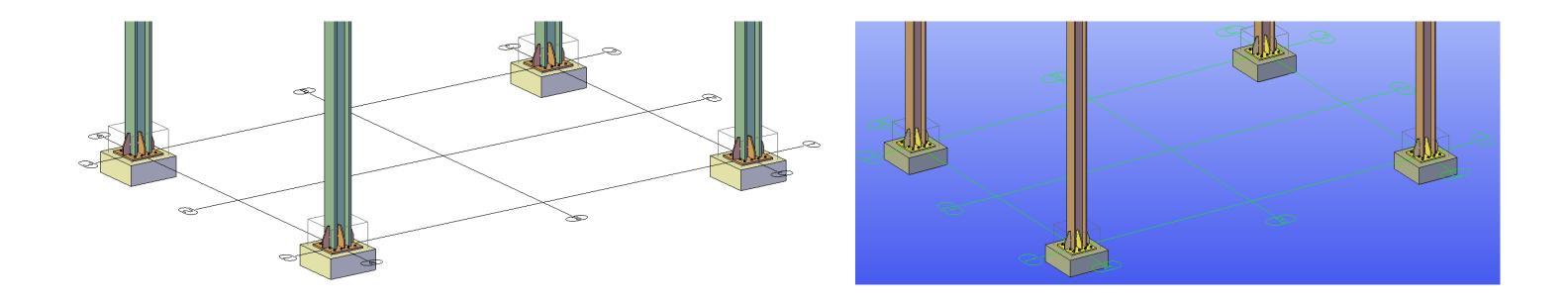


From the Advance Steel Palette > Tools tab, invoke the Create by template, multiple tool.



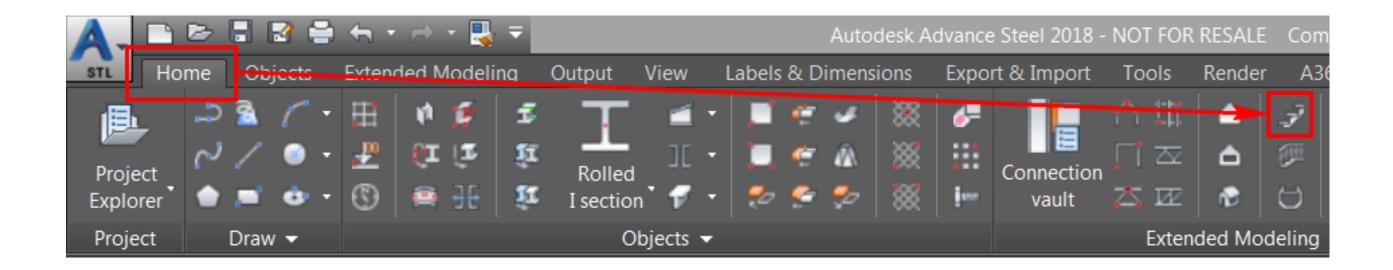
Section 3: Inserting and Copying the Base Plate Joints (Remaining Steps)

Copy the joint to the remaining columns.



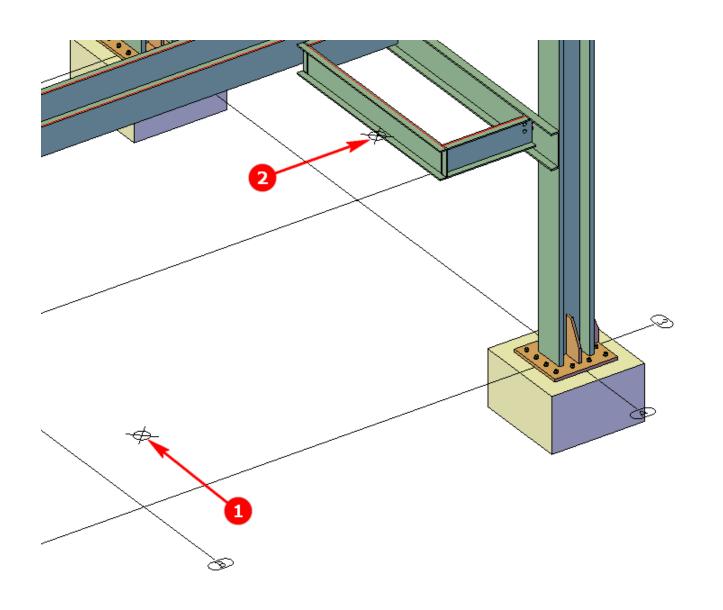
Section 4: Inserting Stairs (Do with me)

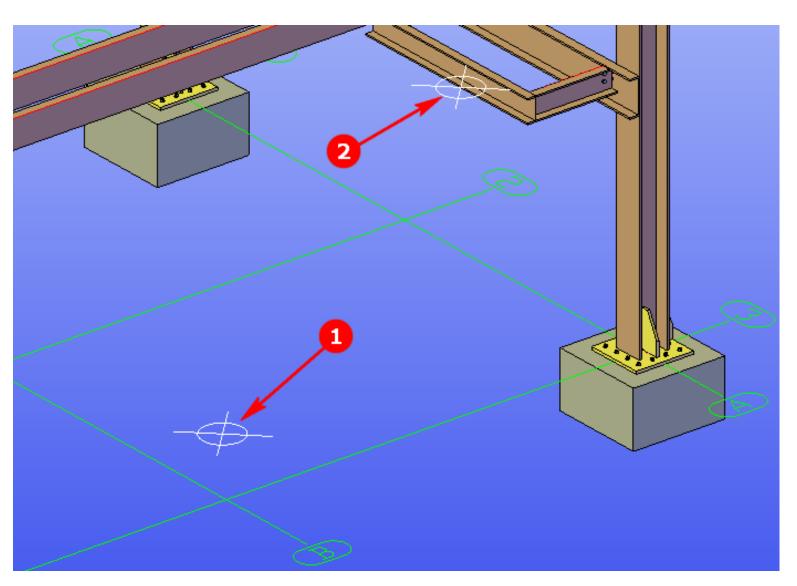
- Open the Section4-Imperial.dwg or Section4-Metric.dwg file
- Invoke the Straight stairs tool



Section 4: Inserting Stairs (Do with me)

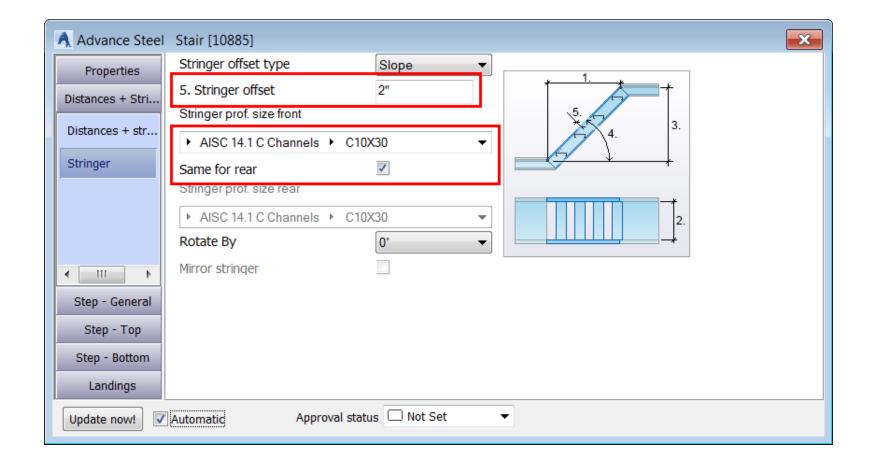
- Press ENTER and click the following two points.
- Press ENTER again.

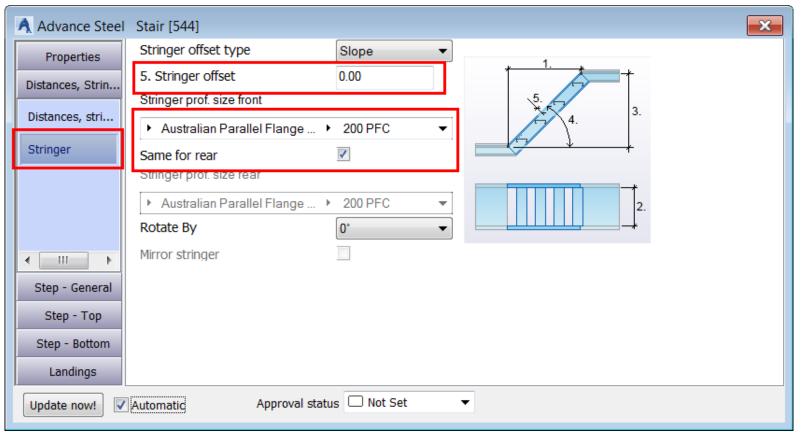




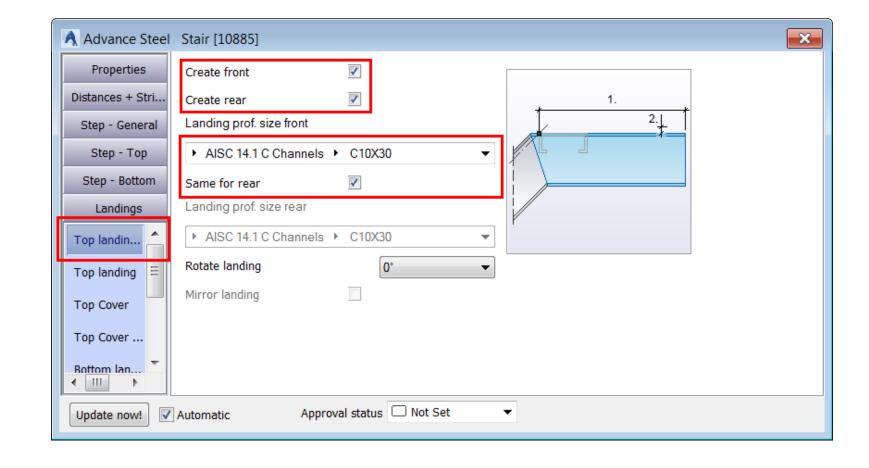
Section 4: Inserting Stairs (Step 8 Onwards)

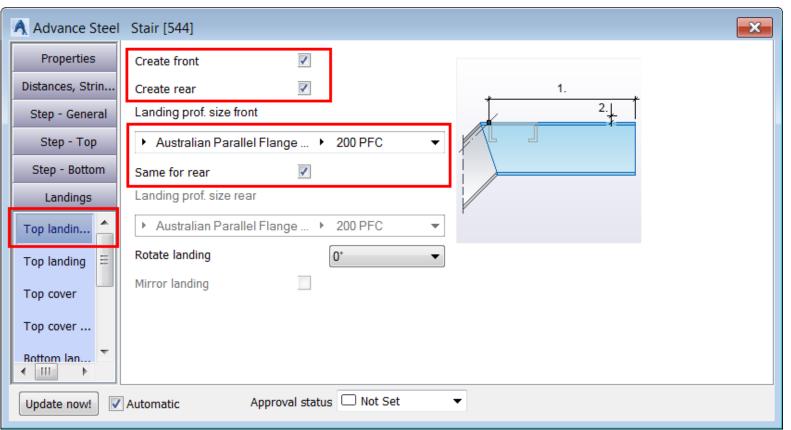
Distances + Stringer > Stringer tab:



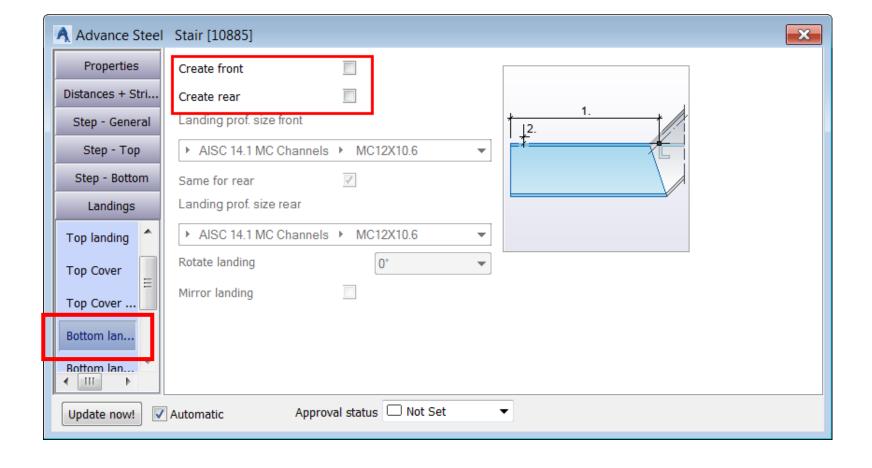


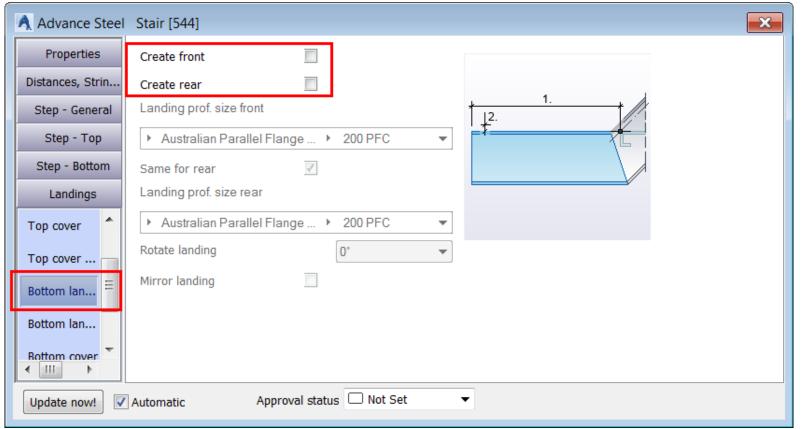
Landings > Top landing prof. tab:



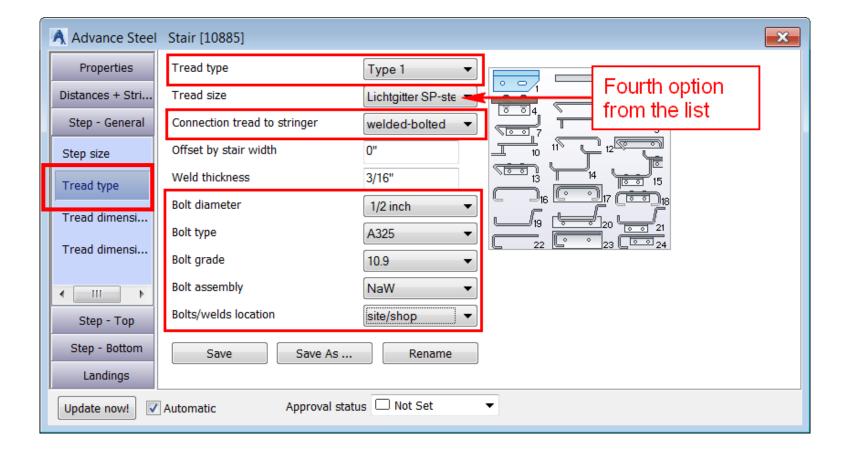


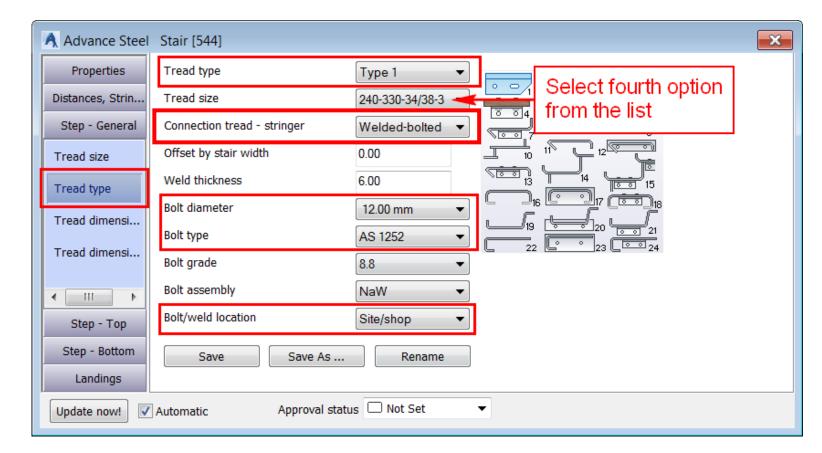
Landings > Bottom landing prof. tab:



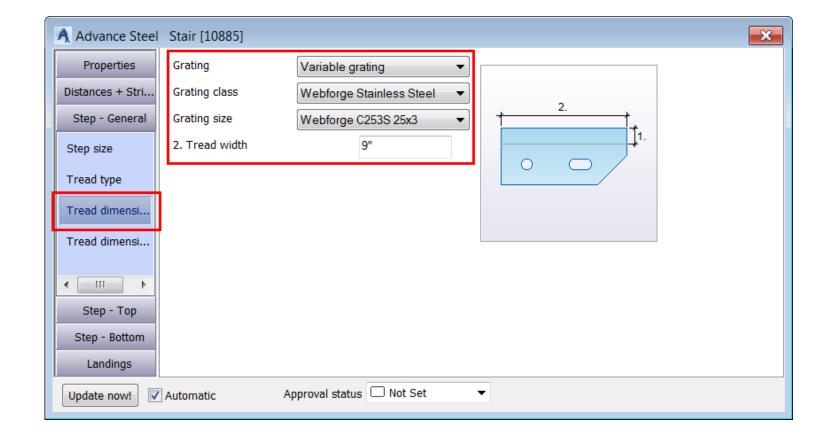


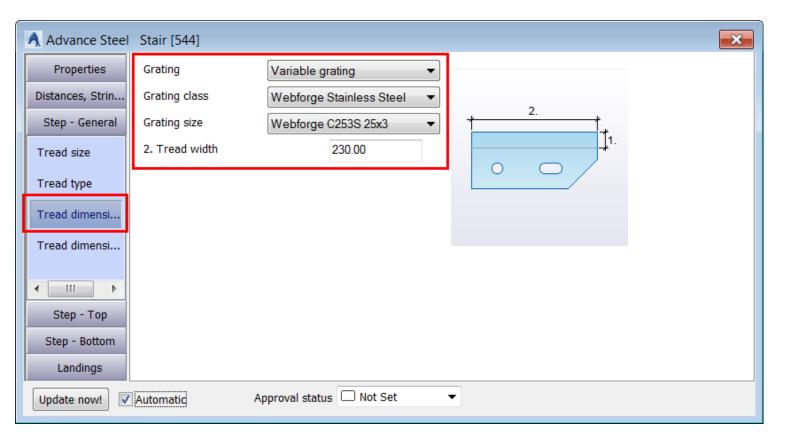
Step - General > Tread type tab:



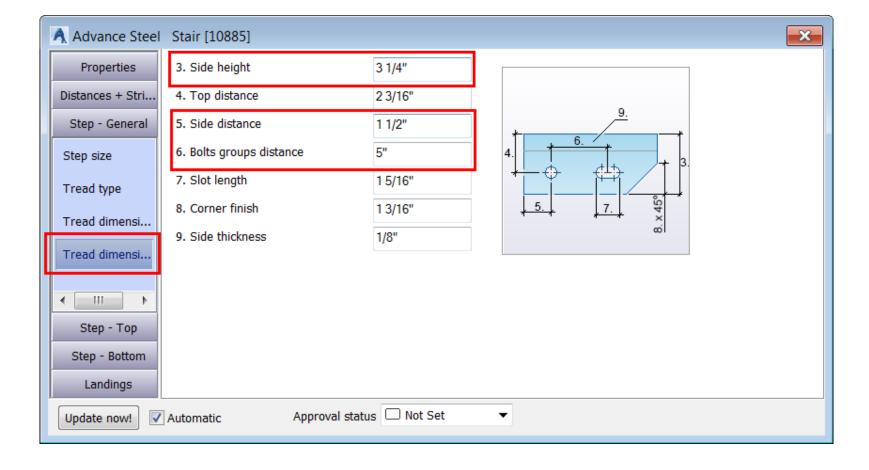


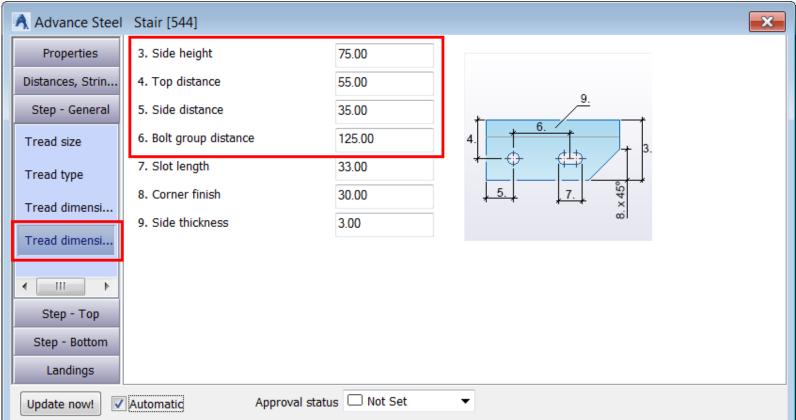
Step - General > Tread dimensions 1 tab:



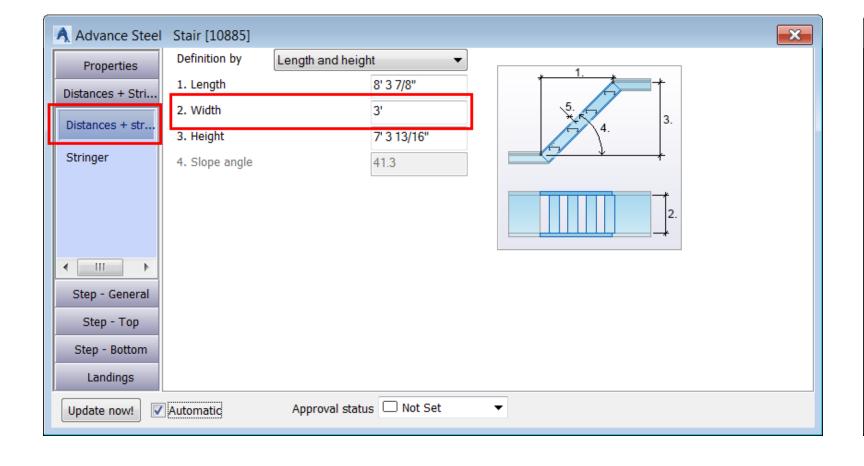


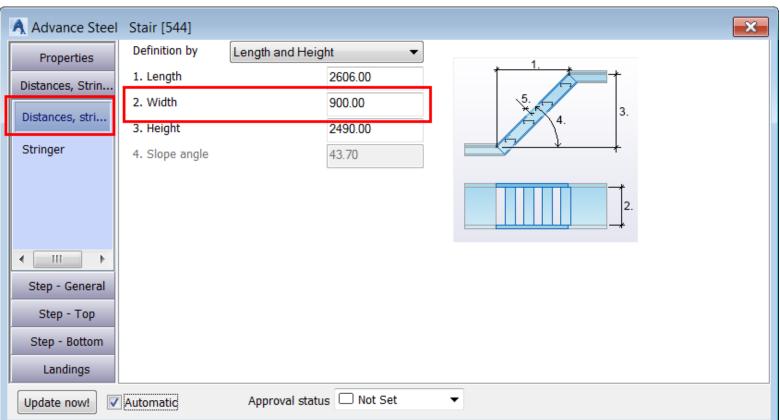
Step - General > Tread dimensions 2 tab:



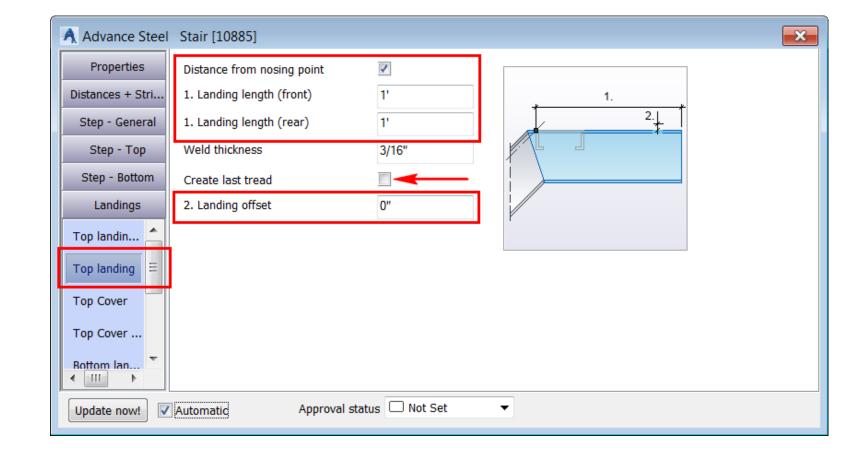


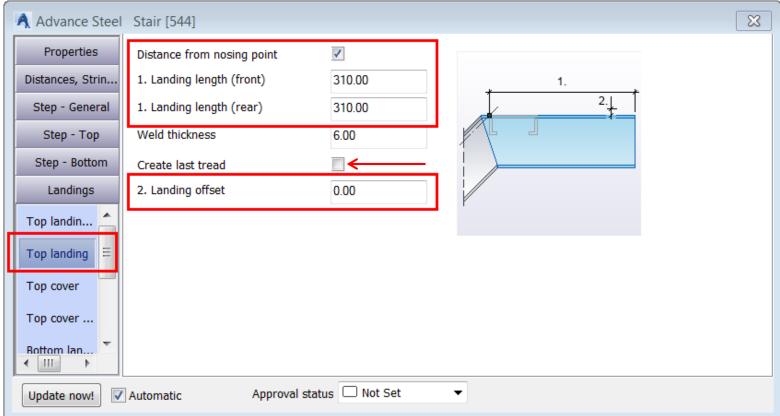
Distances + Stringer > Distances + stringer tab:



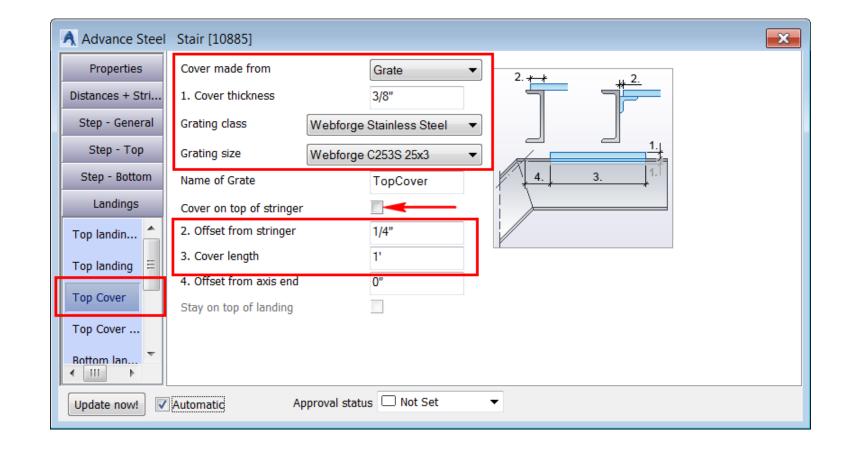


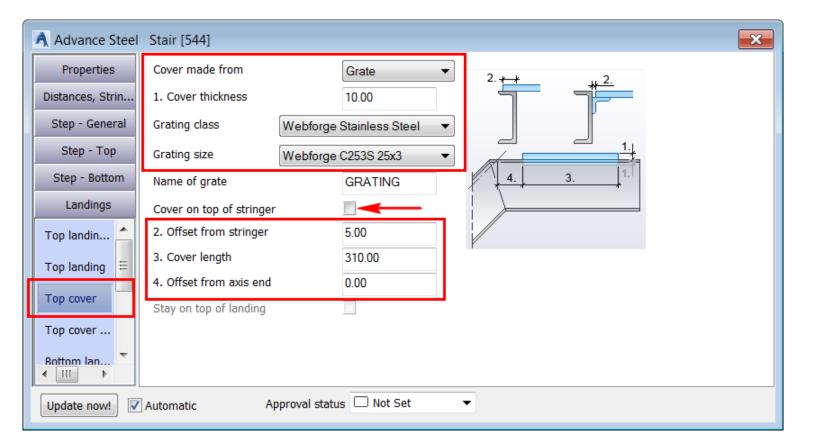
Landings > Top landing tab:



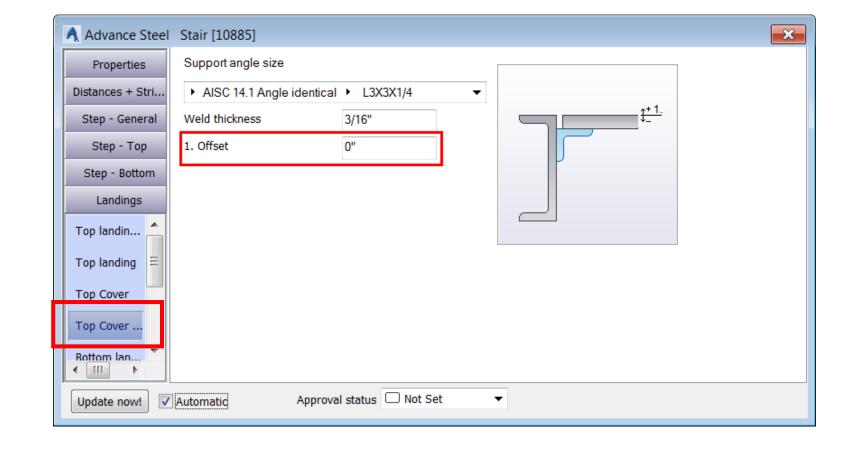


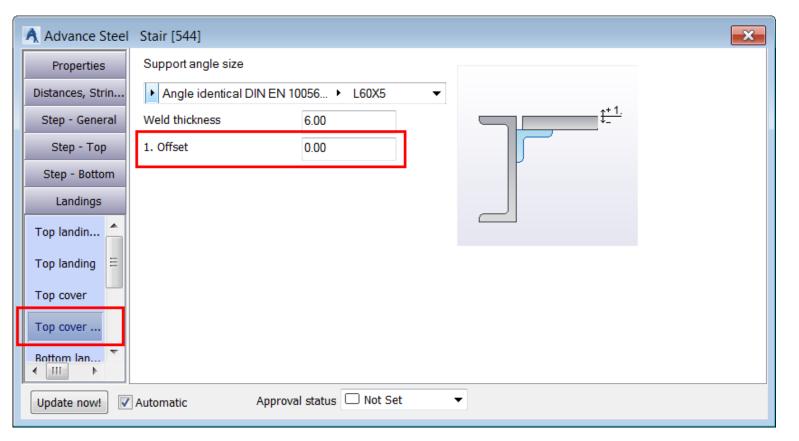
Landings > Top Cover tab:



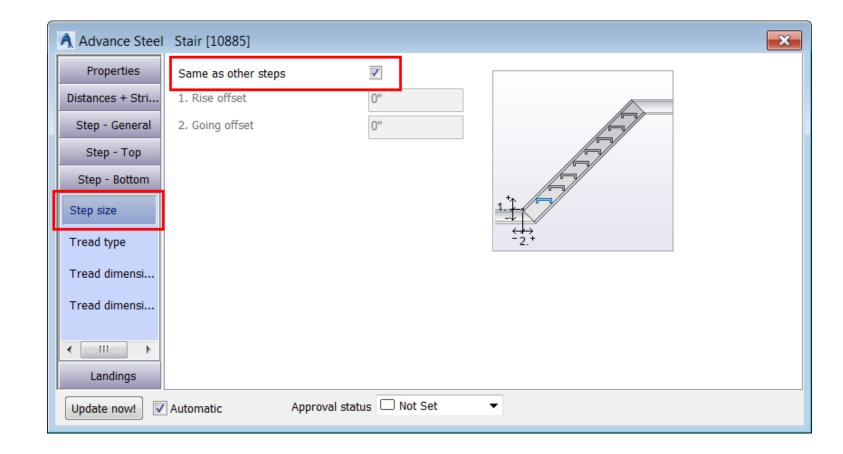


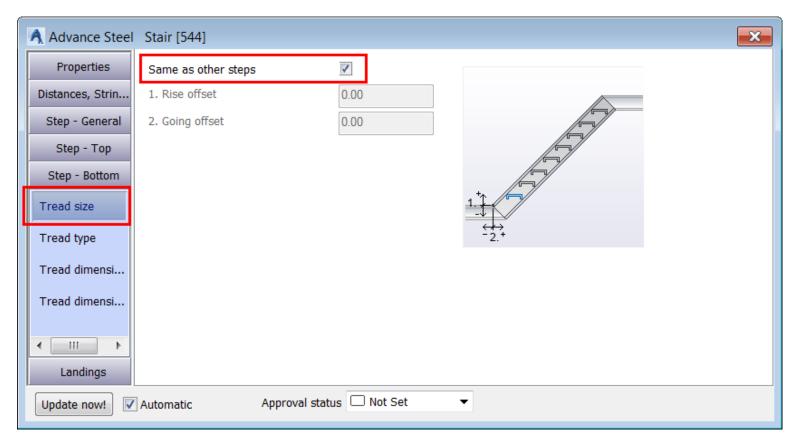
Landings > Top Cover - Angle tab:



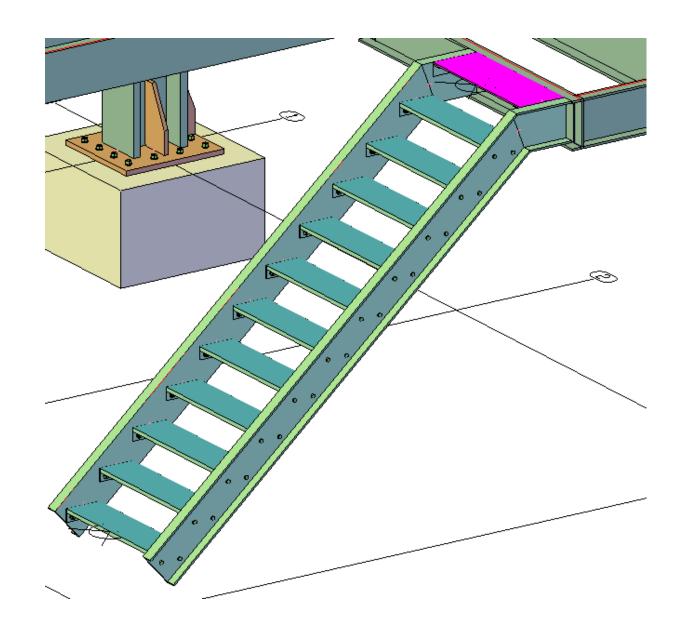


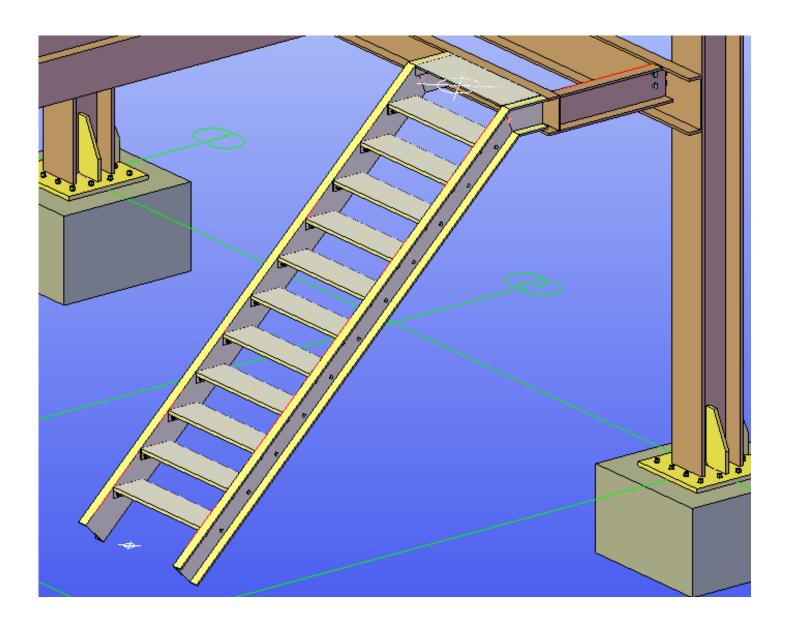
- Step Bottom > Step size tab:
- Navigate to the bottom of the stairs





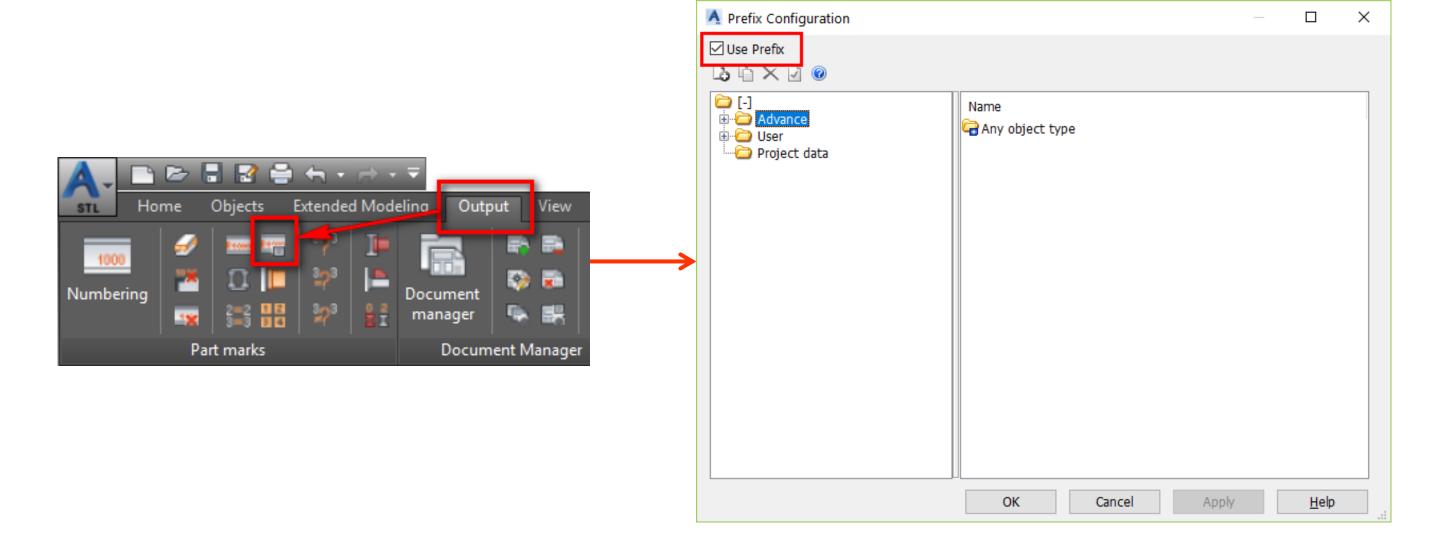
Close the dialog box





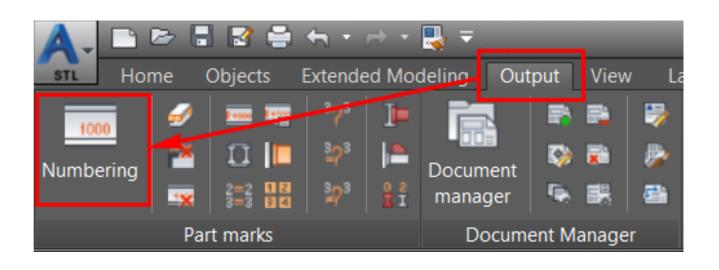
Section 5: Numbering Single Parts and Assemblies (Work with me)

- Open the Section5-Imperial.dwg or Section5-Metric.dwg file
- In METRIC Settings only



Section 5: Numbering Single Parts and Assemblies

Invoke the Numbering tool



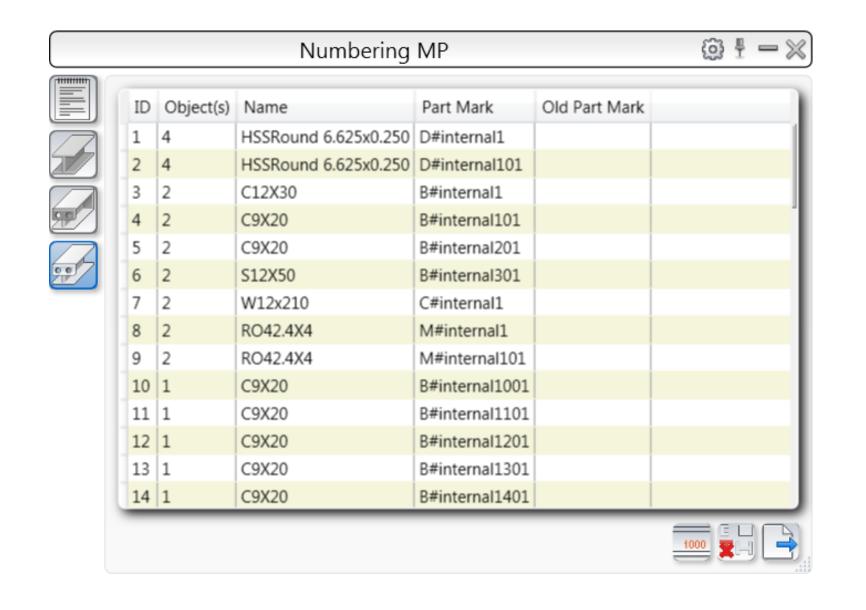
Section 5: Numbering Single Parts and Assemblies

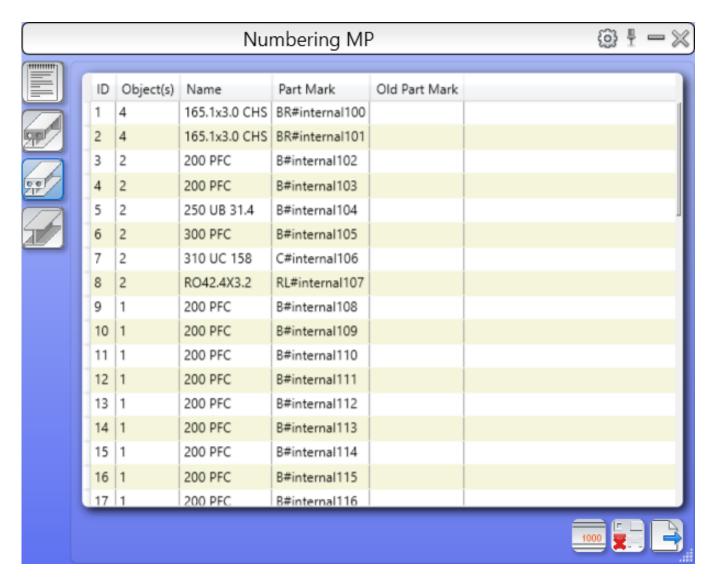
Configure the settings in the dialog box, as shown below:

A Numbering - Identical part detection	
General Special Standard Part Template	
Post number metho	d None ▼
Preliminary mark	
Process Preliminary mark	
Start	1
Increment	1
Single part	
✓ Process single parts	
Start	1000
Increment	1
Method	With Drawing Number ▼
Counter	Small letter ▼ Start with first counter
Format	%Prefix%Counter%MethodNumber
Assembly	
✓ Process assemblies	
Start	100
Increment	1
Method	With Drawing Number ▼
Counter	Small letter ▼ Start with first counter
Format	%Prefix%Counter%MethodNumber
	OK Cancel Apply Help

Section 5: Numbering Single Parts and Assemblies

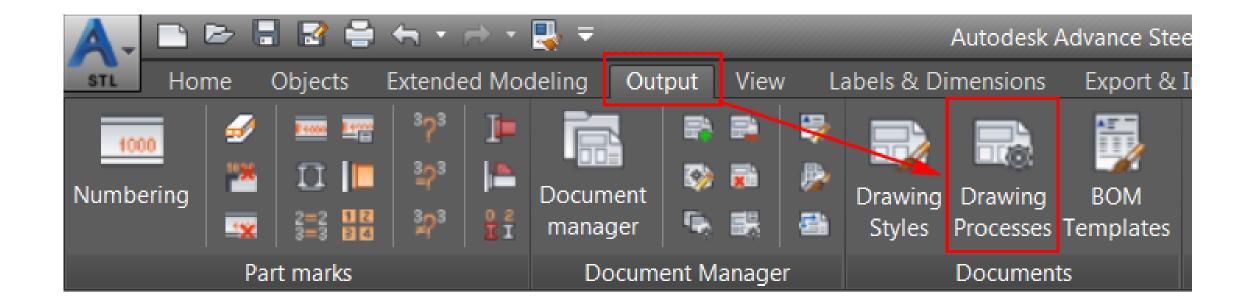
Click OK in the dialog box





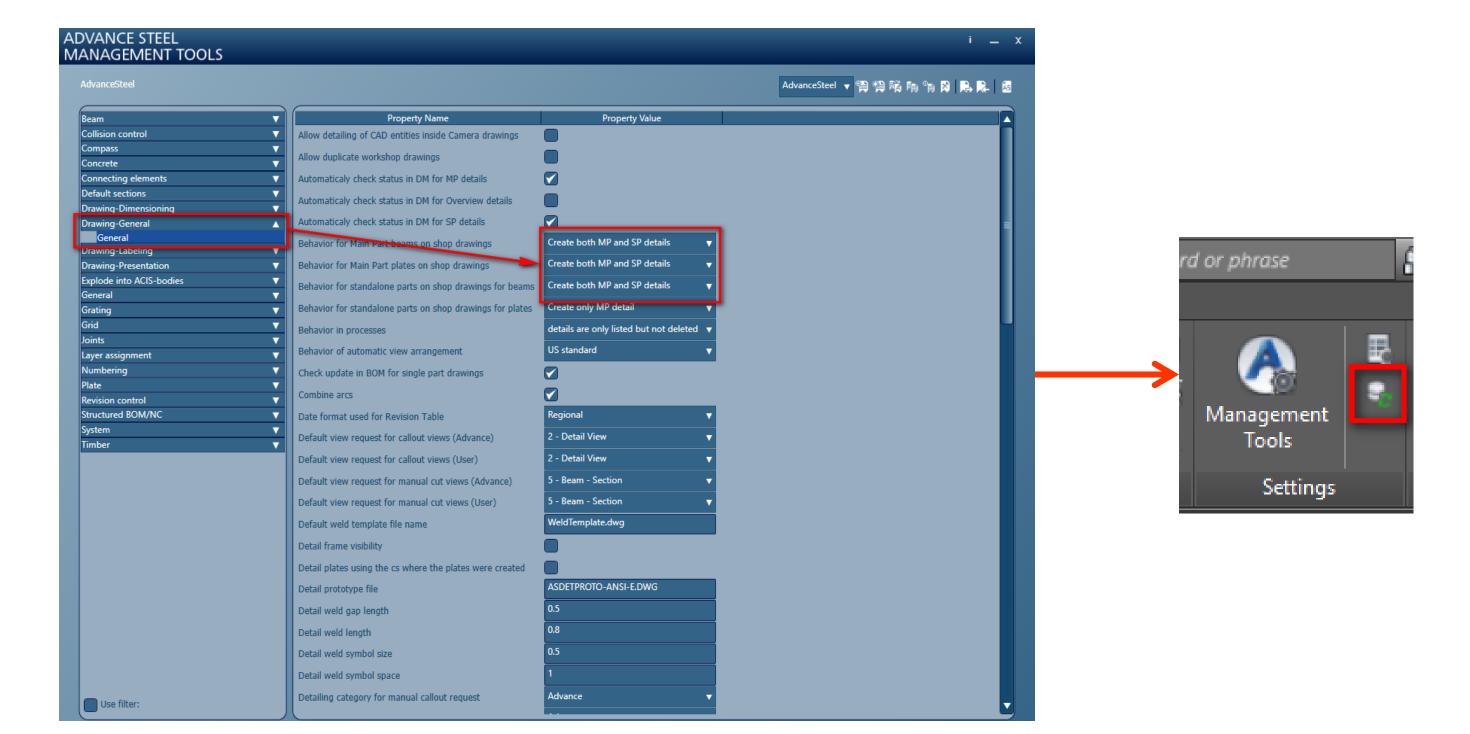
Section 6: Generating Single Part Drawings Using the Default Drawing Processes (Do with me)

Invoke the Drawing Processes tool



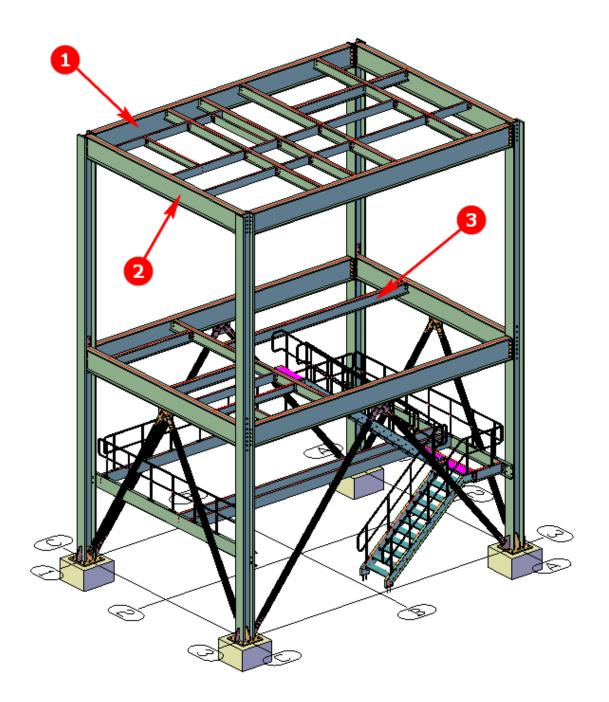
Section 6: Generating Single Part Drawings Using the Default Drawing Processes (Stop here)

For IMPERIAL ONLY



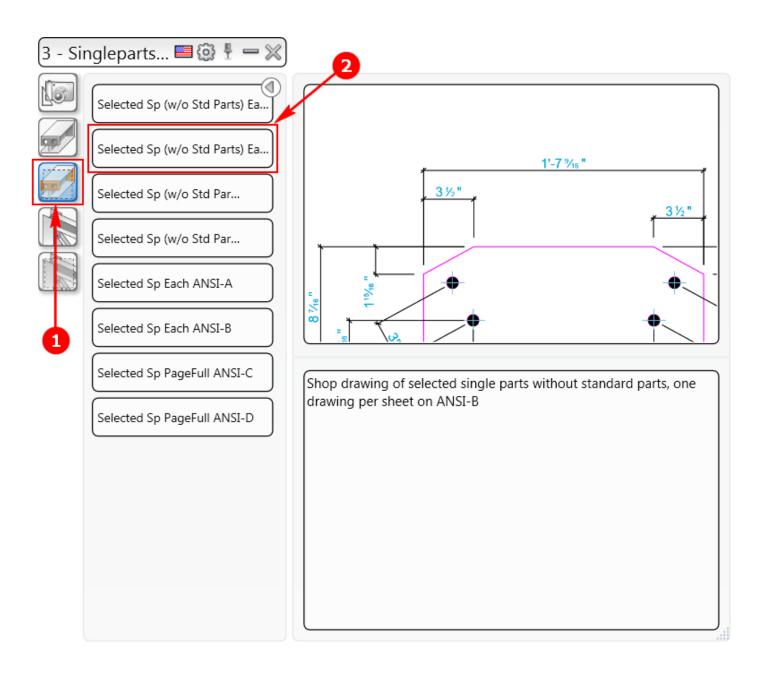
Section 6: Generating Single Part Drawings Using the Default Drawing Processes

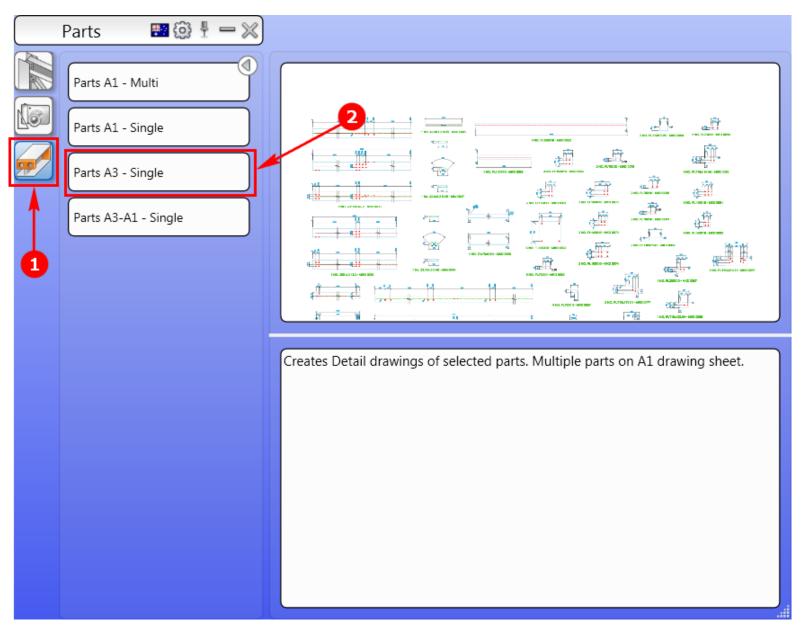
Select the sections labeled as 1, 2, and 3 in the figure below



Section 6: Generating Single Part Drawings Using the Default Drawing Processes (Steps 7-10 Imperial or 2-5 Metric)

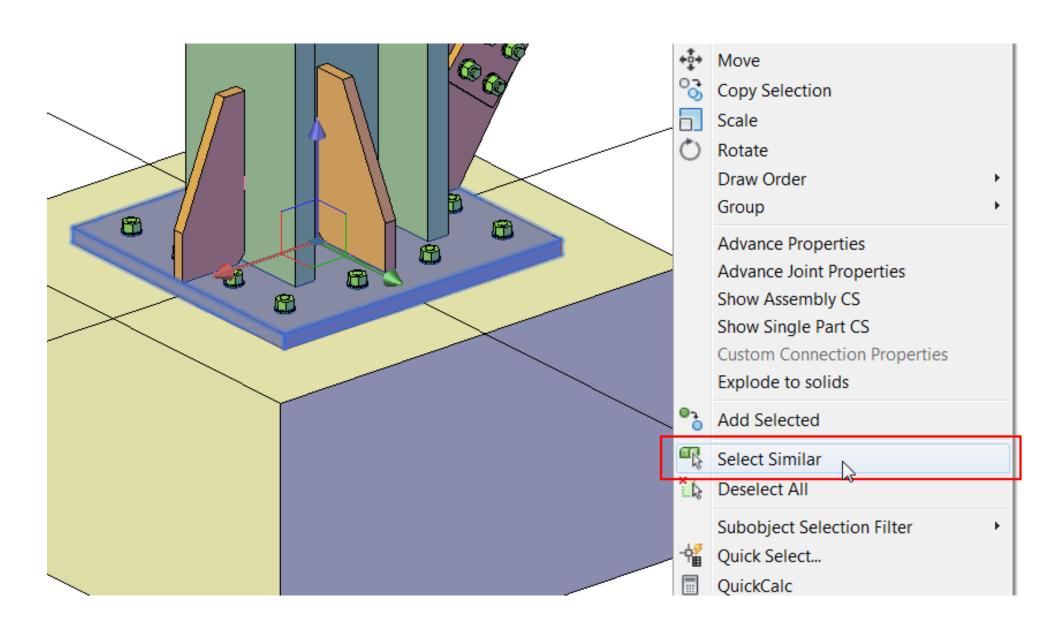
Select the tool to generate single part drawings





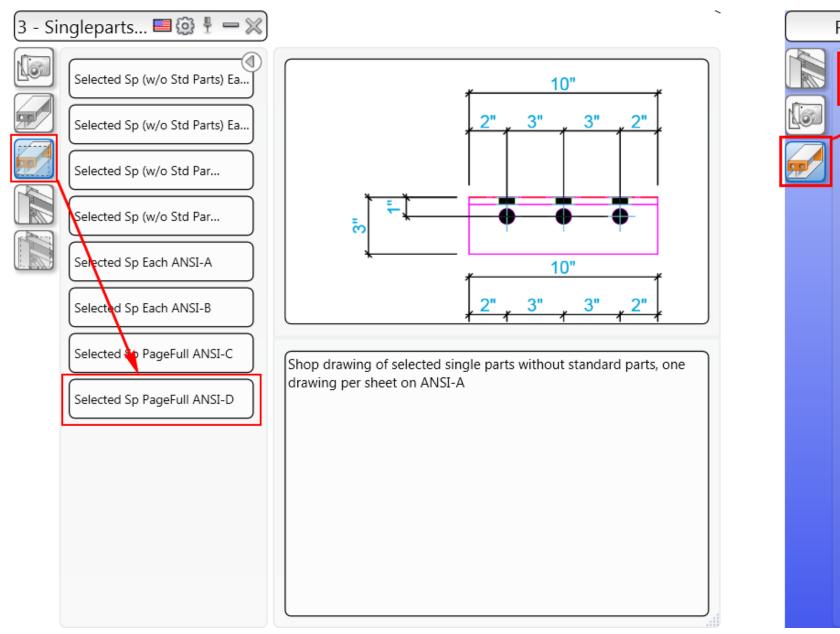
Section 6: Generating Single Part Drawings Using the Default Drawing Processes

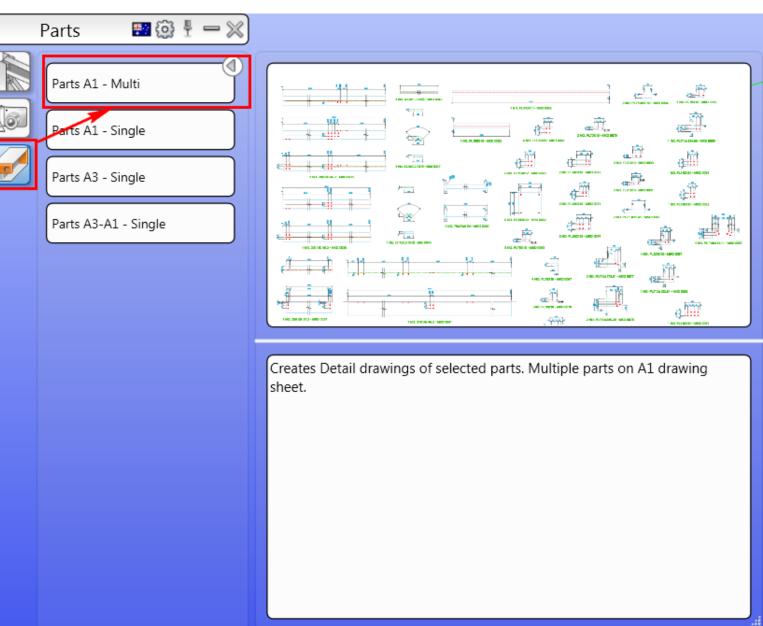
Select one of the plates of the base plate joint and then select similar



Section 6: Generating Single Part Drawings Using the Default Drawing Processes (Remaining Steps)

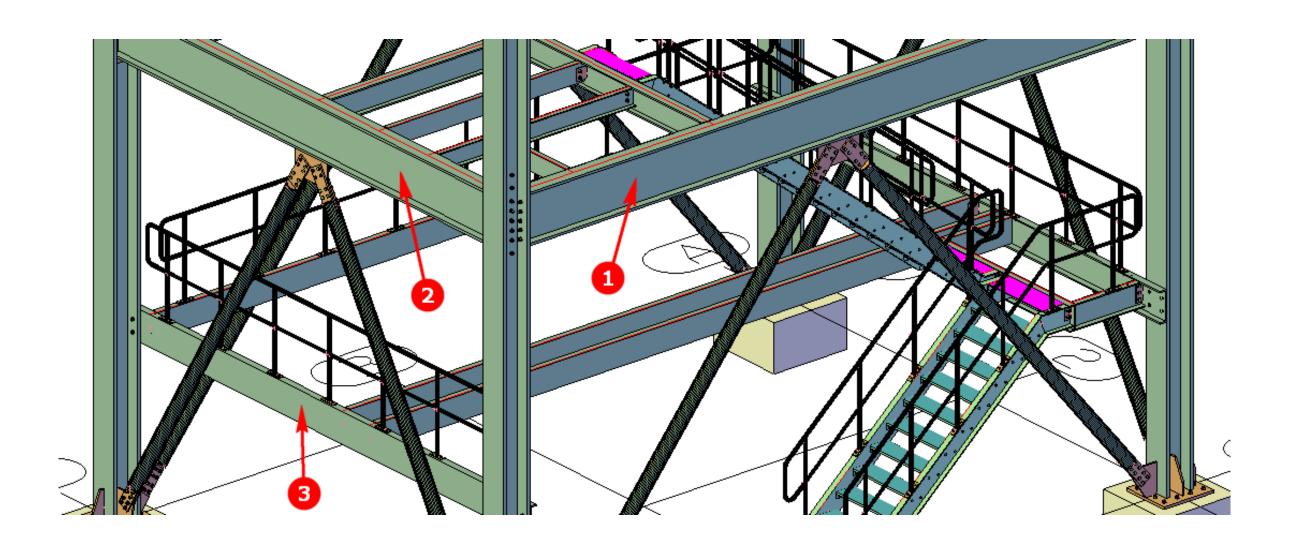
Select the tool to generate Plate drawings on a single sheet





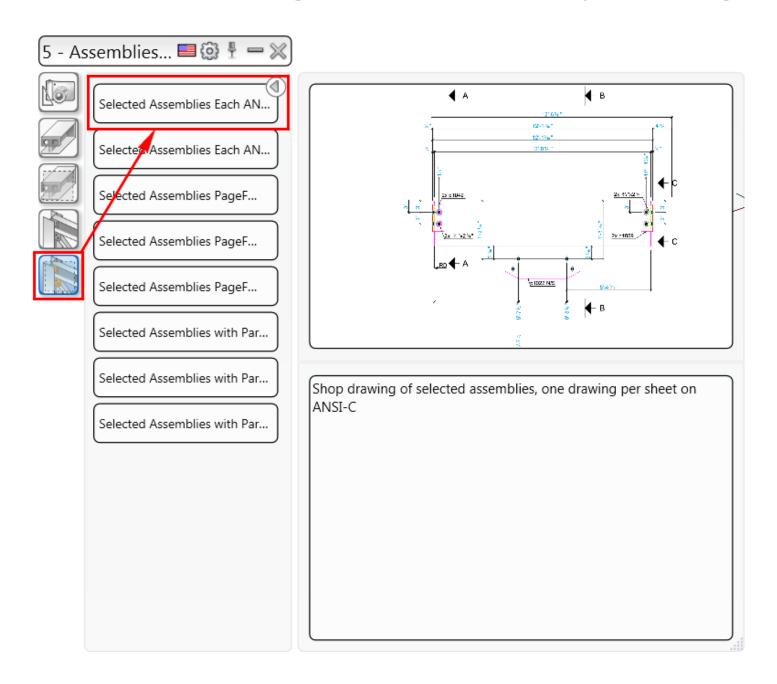
Section 7: Generating Assembly Drawings Using the Default Drawing Processes

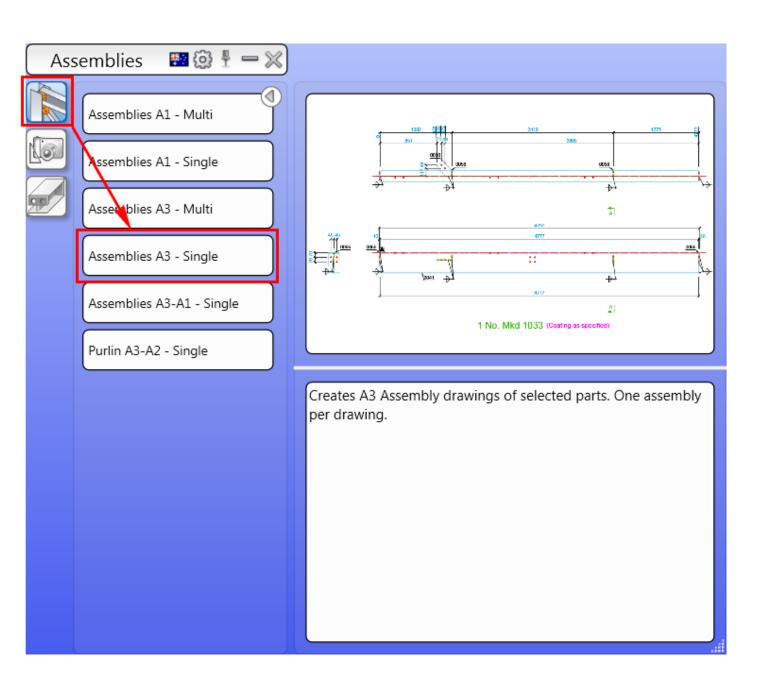
Select the sections labelled as 1, 2, and 3



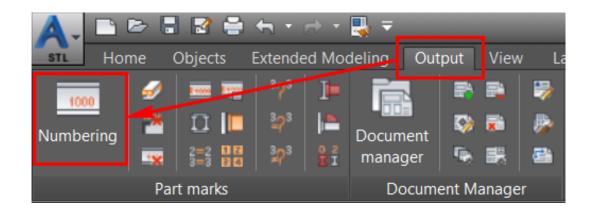
Section 7: Generating Assembly Drawings Using the Default Drawing Processes (All Steps)

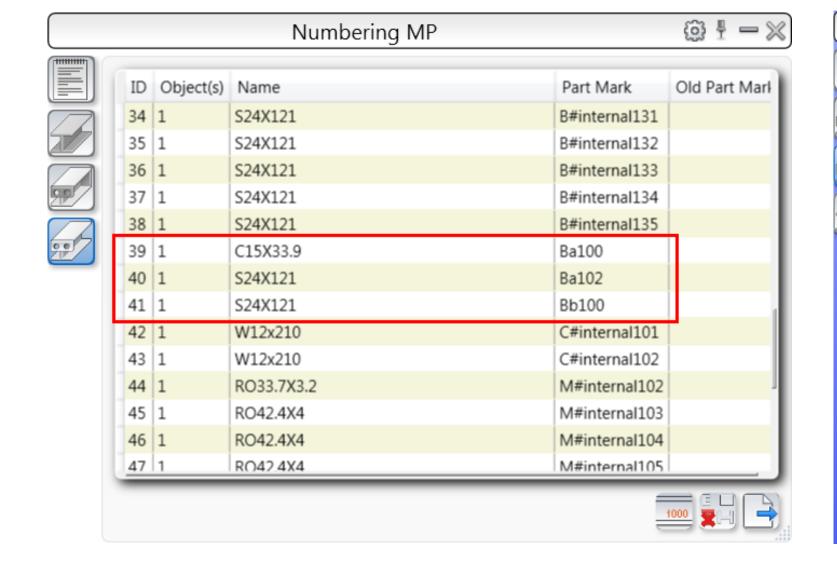
Select the tool to generate Assembly drawings

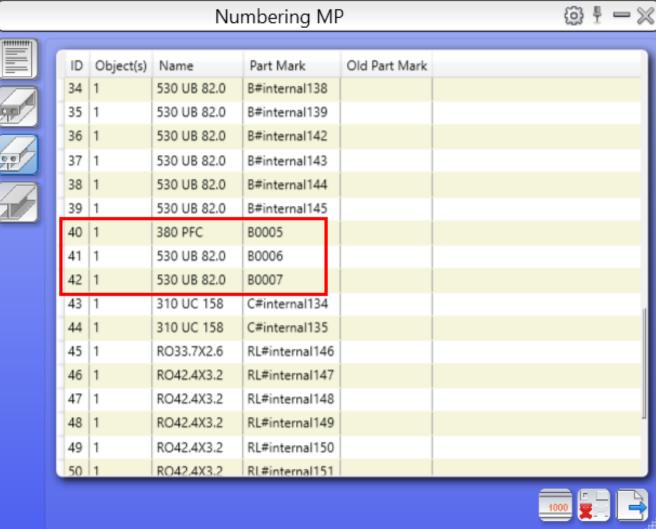




Section 8: Running the Numbering Again

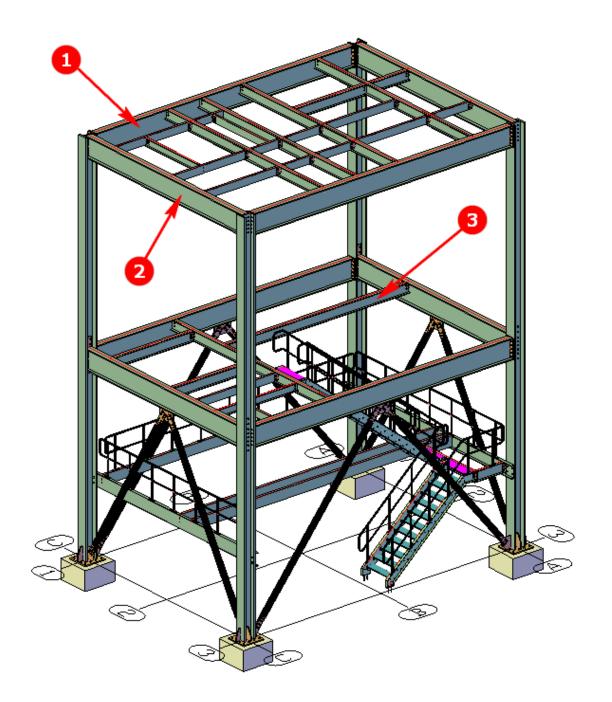






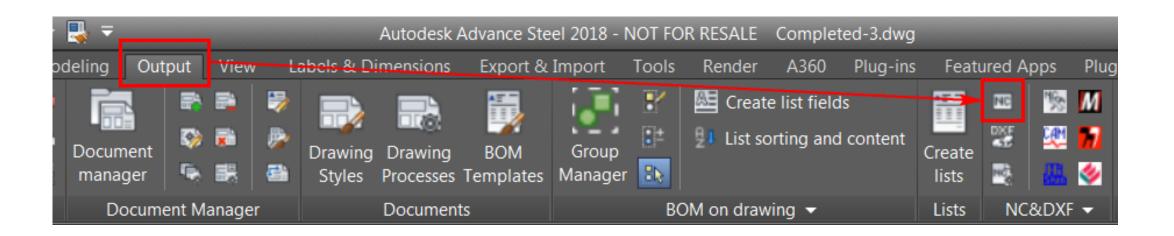
Section 9: Generating NC Files for Beams and DXF Files for Plates

Select the sections labeled as 1, 2, and 3 in the figure below



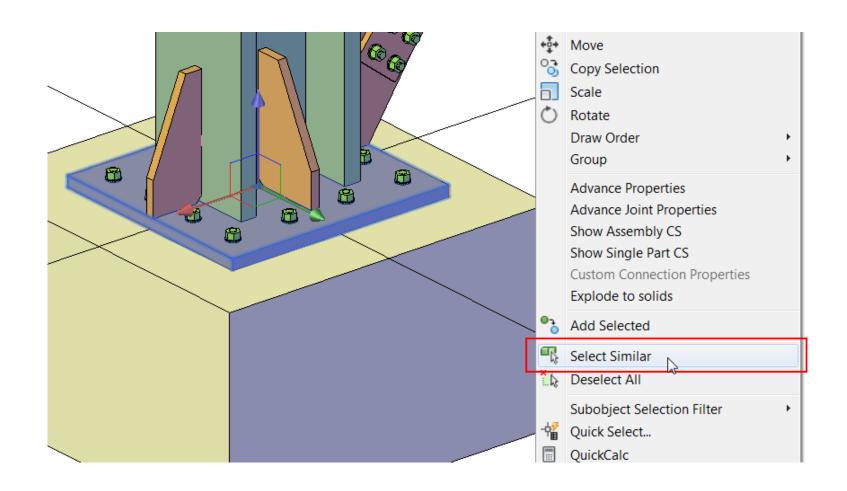
Section 9: Generating NC Files for Beams and DXF Files for Plates (*Up to Step 3*)

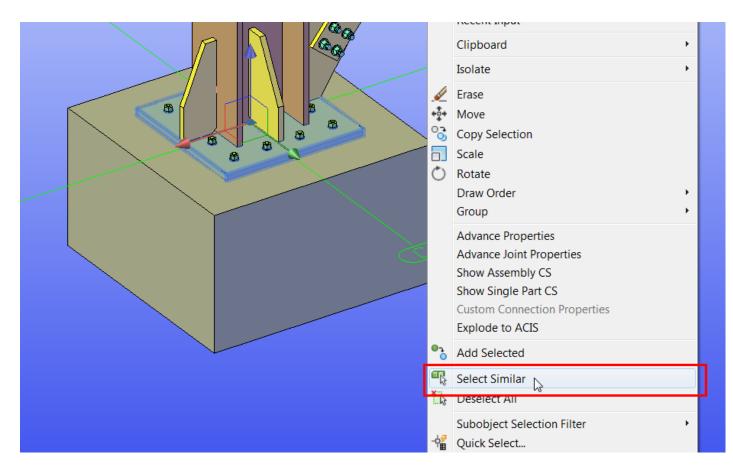
Select the NC tool



Section 9: Generating NC Files for Beams and DXF Files for Plates

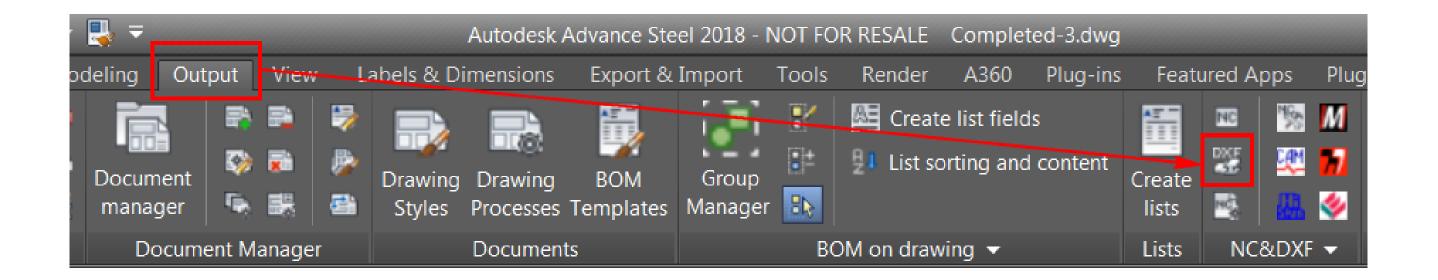
- Press ESC to deselect everything
- Right-click on the base plate of one of the base plate joints and click Select Similar from the shortcut menu





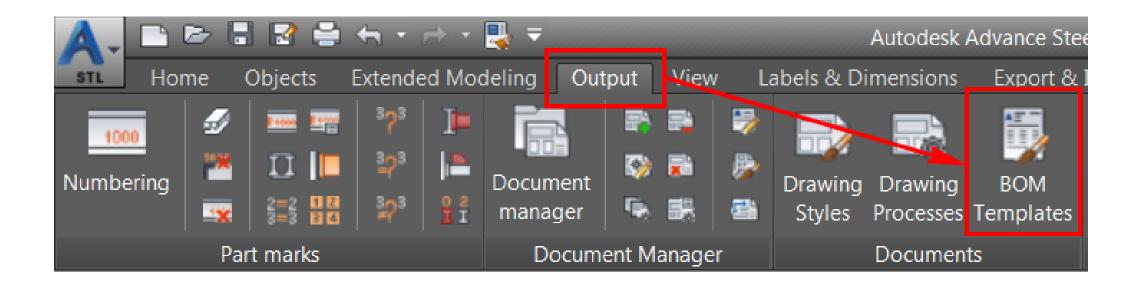
Section 9: Generating NC Files for Beams and DXF Files for Plates (Remaining Steps)

Invoke the DXF tool



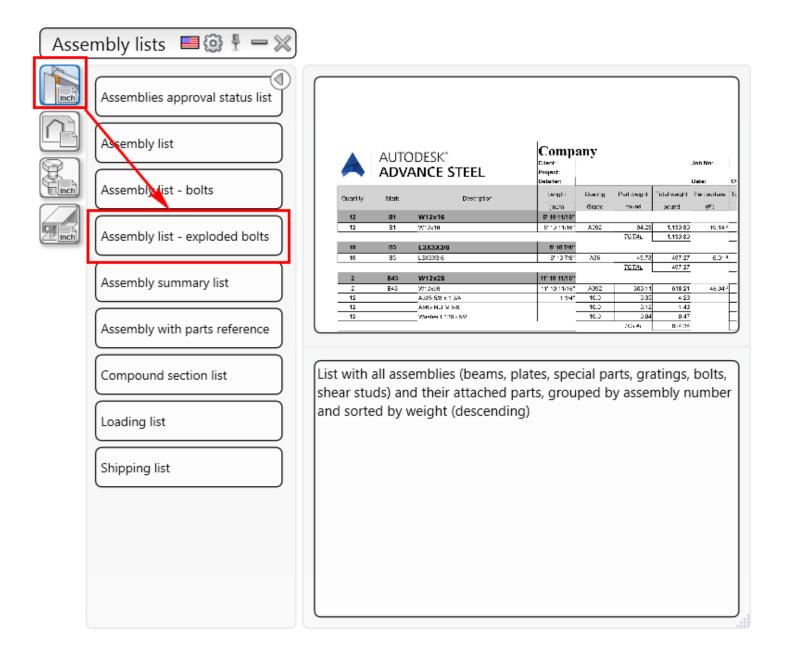
Section 10: Generating Bill of Materials (BOMs)

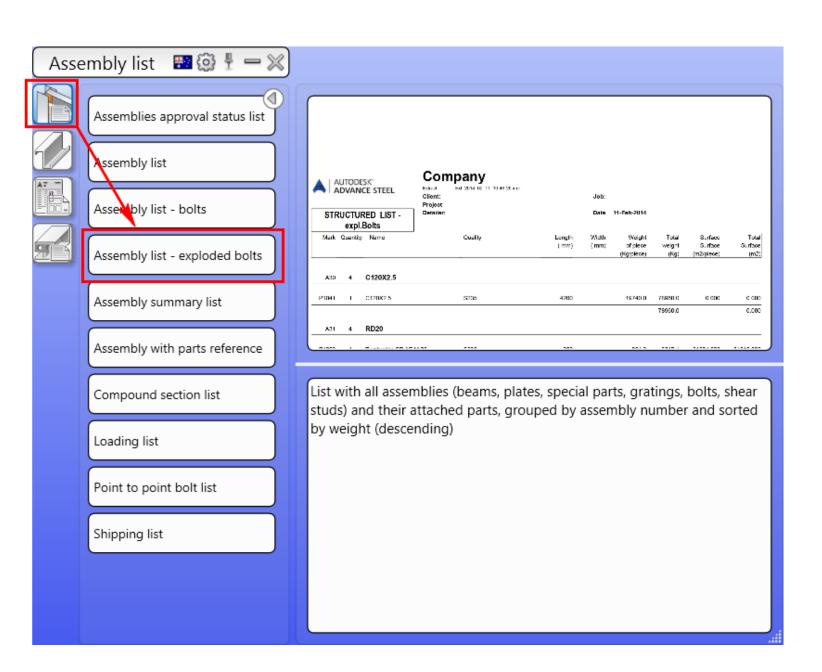
Invoke the BOM Templates tool



Section 10: Generating Bill of Materials (BOMs)

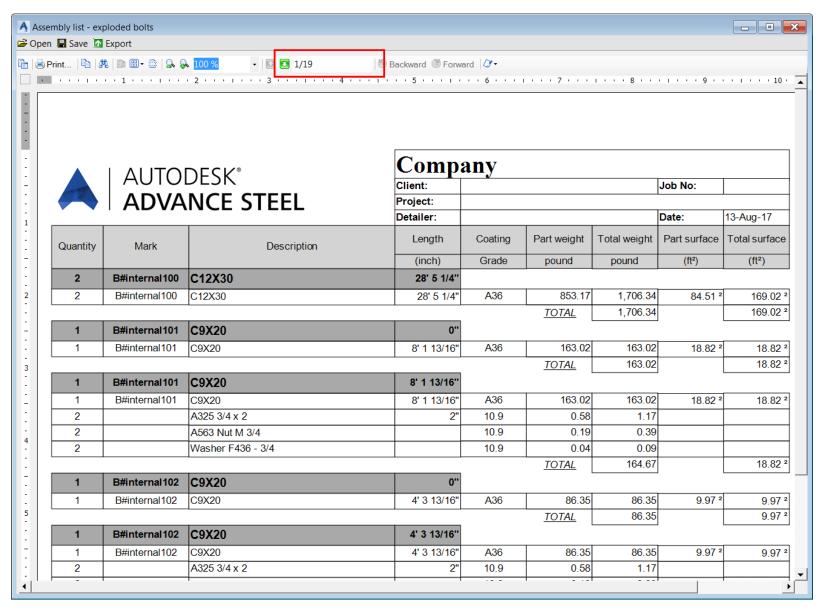
- Press ESC to deselect everything
- Select Assembly list exploded bolts

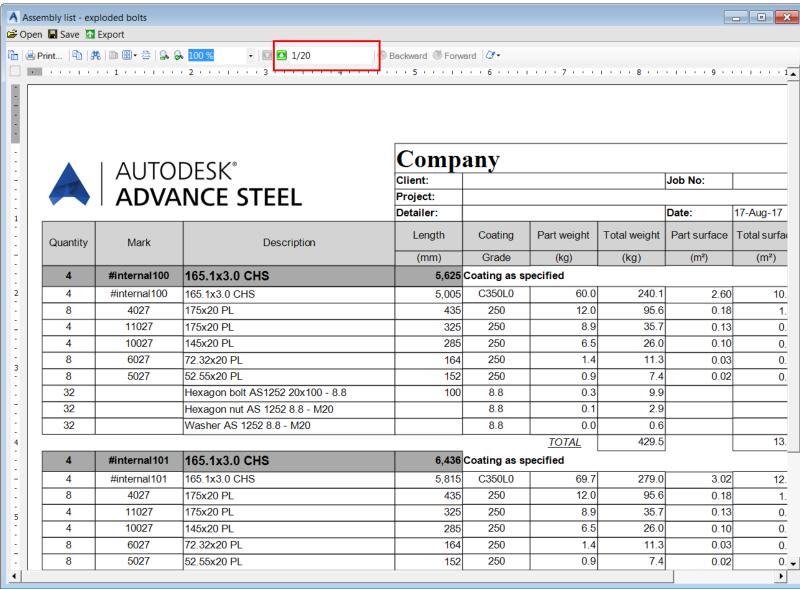




Section 10: Generating Bill of Materials (BOMs)

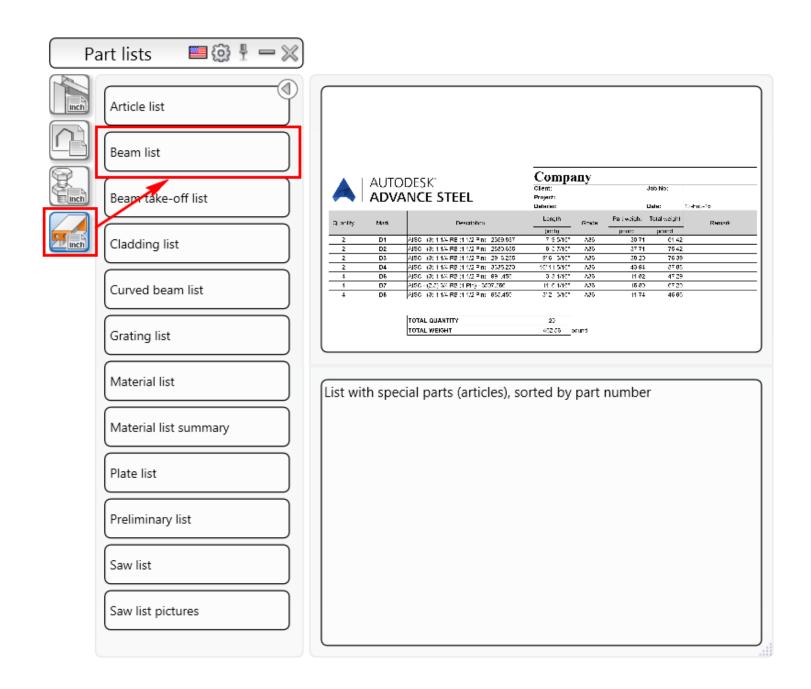
Save the BOM

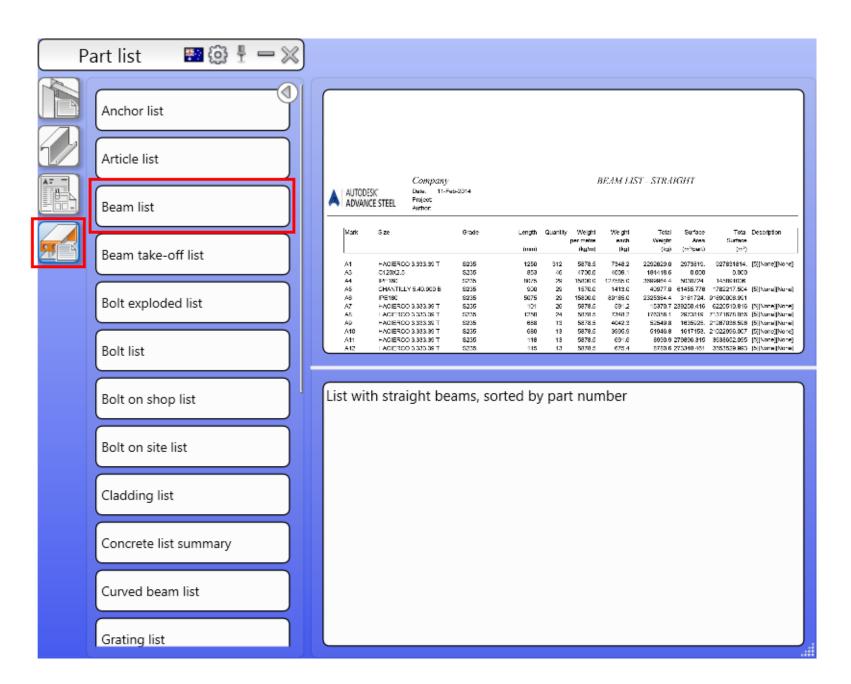




Section 10: Generating Bill of Materials (BOMs) (All Steps)

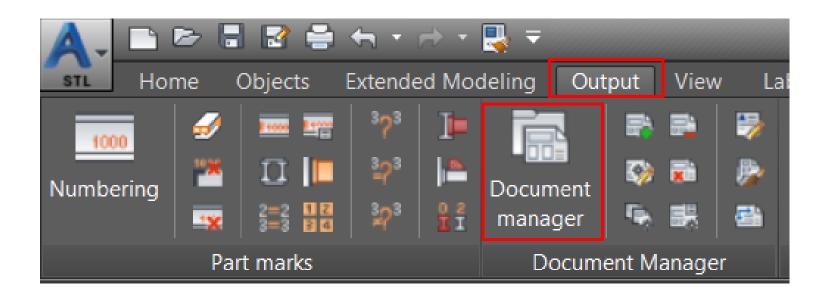
Select Parts list > Beam list and then save the BOM





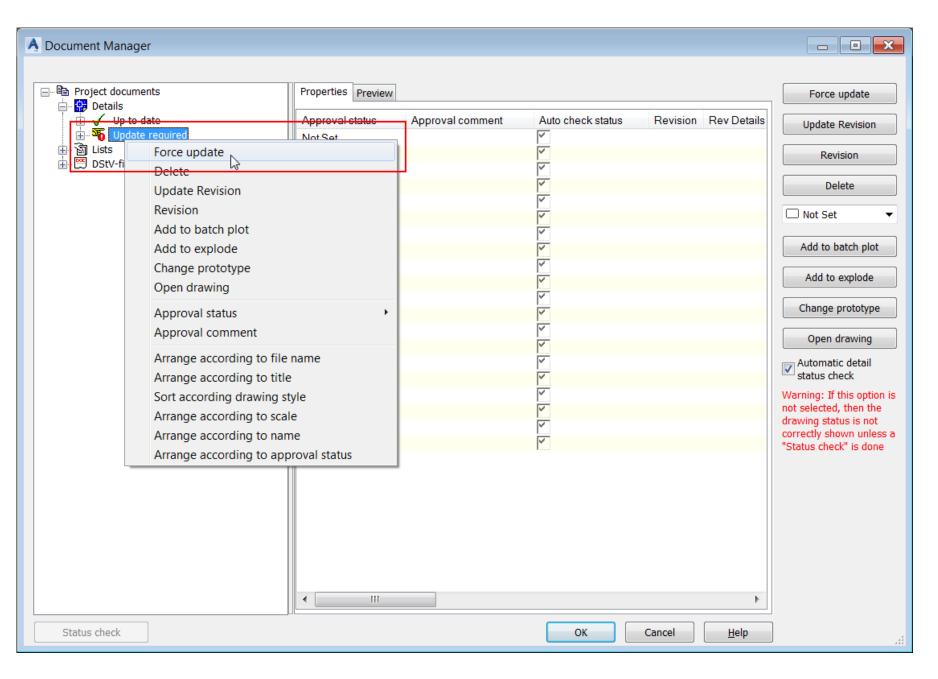
Section 11: Reviewing the Generated Documentation (Do with me)

Invoke the Document manager tool



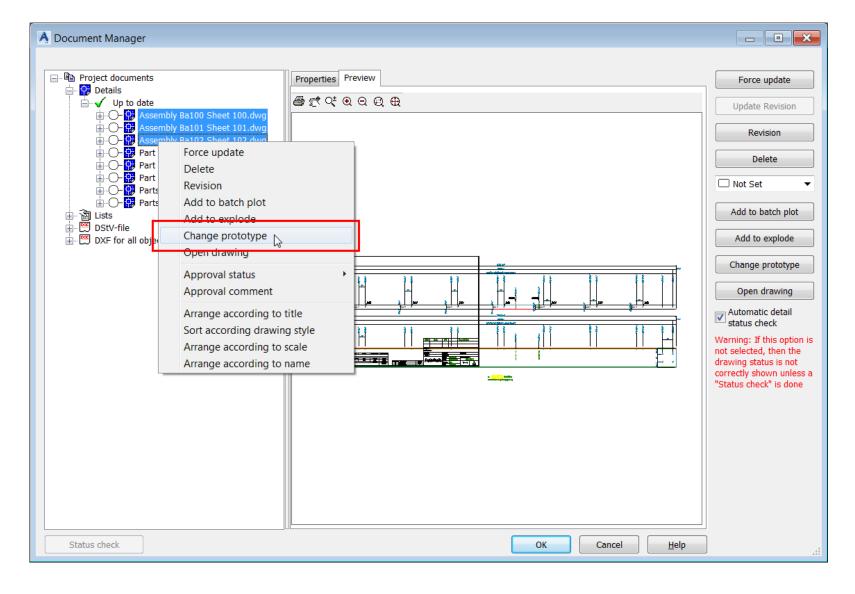
Section 11: Reviewing the Generated Documentation (Do with me)

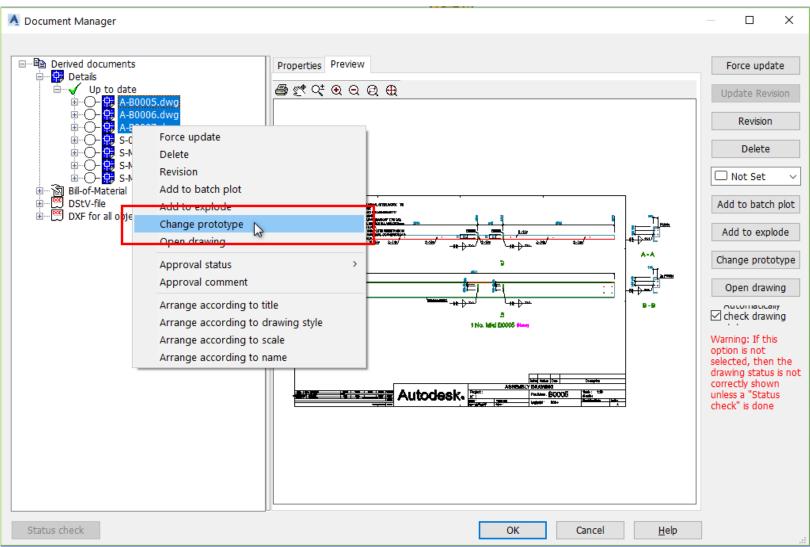
Right-click on the Update required category and select Force update from the shortcut menu, as shown below:



Section 11: Reviewing the Generated Documentation

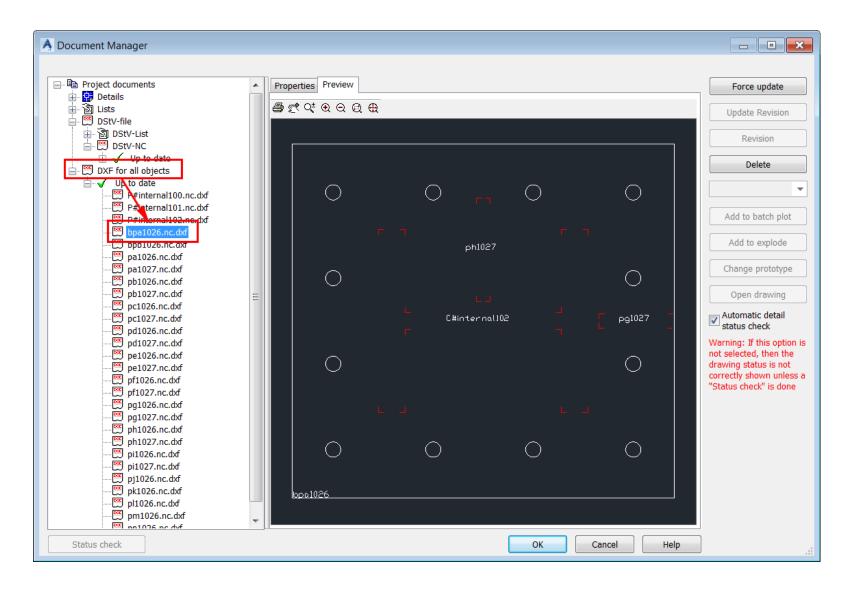
 Change the prototype of the assembly drawings to ASDETPROTO-Assembly-ANSI-E.dwg or ASDETPROTO-ASSEMBLY-A1.dwg

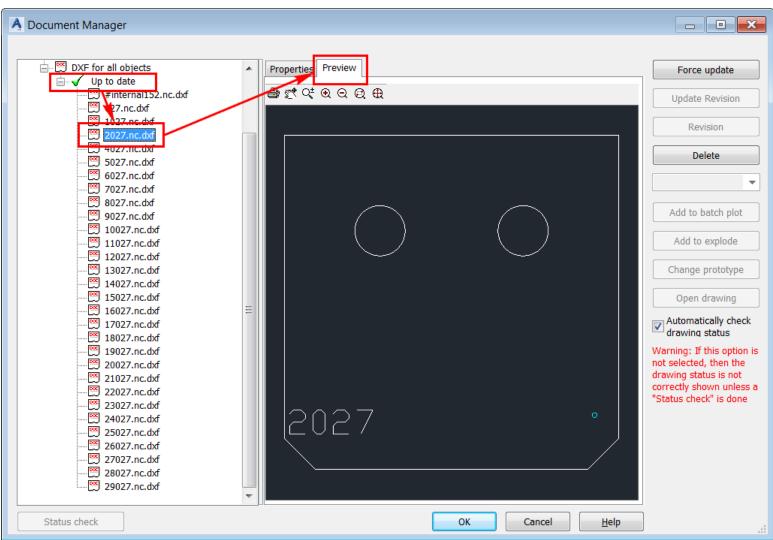




Section 11: Reviewing the Generated Documentation (Step 4 to the end)

Review other drawings, BOMs, NC files, and DXF files







Make anything.

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