

2.2 ENTORNO BIM



1. CREAR NUEVO PROYECTO

Sign in



New...

Browse...

Teamwork...

Recent Projects:



Filter by Name or Keywords



Sort by: Last used



Quit ARCHICAD

2. PARA SALIR DEL PROGRAMA



Open Selected

The screenshot displays the ARCHICAD software interface. At the top, the menu bar includes 'ARCHICAD', 'File', 'Edit', 'View', 'Design', 'Document', 'Options', 'Teamwork', 'Window', and 'Help'. Below the menu bar is a toolbar with various icons for drawing and editing. The main workspace is divided into several panels: 'Main' (Default Settings), 'Layer' (Structural - Bearing), 'Geometry Method' (Core Outside), 'Reference Line Location', 'Structure' (Generic Wall/S...), 'Floor Plan and Section' (Floor Plan and Section...), 'Linked Stories' (1. Story (Home + 1), 0. Ground Floor (C...)), and 'Bottom and Top' (3000, 0). The central workspace shows a drawing of a wall with a horizontal line and two vertical lines. The text '1. BARRA DE MENUS' is overlaid on the workspace. The right side of the interface features a 'Tree by Subset' panel with a hierarchical structure of project elements, including 'Untitled', 'Sheet Index', 'A.01 Floor Plans', 'A.02 Elevations', and 'Masters'. The bottom status bar shows 'Enter First Node of Wall.' and 'GRAPHISOFT ID'.

The screenshot displays the ARCHICAD software interface. At the top, the menu bar includes 'ARCHICAD', 'File', 'Edit', 'View', 'Design', 'Document', 'Options', 'Teamwork', 'Window', and 'Help'. The toolbar below contains various drawing and editing tools. The settings panel at the top right includes sections for 'Main', 'Layer' (set to 'Structural - Bearing'), 'Geometry Method', 'Reference Line Location' (set to 'Core Outside'), 'Structure' (set to 'Generic Wall/S...'), 'Floor Plan and Section' (set to 'Floor Plan and Section...'), 'Linked Stories' (showing '1. Story (Home + 1)' and '0. Ground Floor (C...)'), and 'Bottom and Top' (set to '3000' and '0'). The main drawing area shows a 2D wall with a horizontal line and two vertical lines, with a small 'x' mark indicating a node. The tree view on the right shows a hierarchy of elements: 'Untitled' (Sheet Index), 'A.01 Floor Plans' (A.01.1 Ground Floor, A.01.2 1. Story, A.01.3 2. Story), 'A.02 Elevations' (A.02.1 E-01 North Ele, A.02.2 E-02 East Elev, A.02.3 E-03 South Ele, A.02.4 E-04 West Ele), and 'Masters' (A4 Portrait, A3 Landscape, A2 Landscape, A1 Landscape). The status bar at the bottom shows '22%', '0°', '1:100', '02 Drafting', 'Entire Model', '03 Architect...', '03 Building...', 'No Overrides', and '00 Show All...'. The text '2. VENTANA DE ARCHICAD' is overlaid in blue on the drawing area.

The screenshot displays the ARCHICAD software interface. At the top, the menu bar includes 'ARCHICAD', 'File', 'Edit', 'View', 'Design', 'Document', 'Options', 'Teamwork', 'Window', and 'Help'. The status bar shows system information like 'MEM 53%', '65%' battery, and the date 'Dom 10:19 p.m.'. The main toolbar contains various drawing and editing tools. Below the toolbar, the 'Main' and 'Layer' settings are visible, with 'Structural - Bearing' selected. The 'Geometry Method' is set to 'Core Outside', and the 'Structure' is 'Generic Wall/S...'. The 'Floor Plan and Section' settings are also visible. The 'View' area shows a 3D perspective view of a wall with a title bar being drawn. The 'Properties' panel on the right shows 'No Selection'. The bottom status bar indicates the current view is '03 Architect...' and the scale is '1:100'. The text '3. BARRA DE TITULO' is overlaid on the 3D view in large blue font.

The image shows the ARCHICAD software interface. At the top, there is a menu bar with options: ARCHICAD, File, Edit, View, Design, Document, Options, Teamwork, Window, Help. Below the menu bar is a toolbar with various icons for drawing and editing. The main workspace is divided into several panels: Main, Layer, Geometry Method, Reference Line Location, Structure, Floor Plan and Section, Linked Stories, and Bottom and Top. The main workspace is currently showing a 3D view of a wall structure. On the left side, there is a vertical toolbar with icons for different design tools. On the right side, there is a tree view showing the project structure, including folders for A.01 Floor Plans and A.02 Elevations. At the bottom, there is a status bar with various settings and a command line.

4. PALETA DE HERRAMIENTAS: ESTÁNDAR

The screenshot displays the ARCHICAD software interface. At the top, the menu bar includes 'ARCHICAD', 'File', 'Edit', 'View', 'Design', 'Document', 'Options', 'Teamwork', 'Window', and 'Help'. The status bar shows system information like 'MEM 53%', '65%' battery, and the date 'Dom 10:19 p.m.'. The main toolbar contains various drawing and editing tools. Below the toolbar, a series of panels provide settings for 'Main', 'Layer' (set to 'Structural - Bearing'), 'Geometry Method', 'Reference Line Location' (set to 'Core Outside'), 'Structure' (set to 'Generic Wall/S...'), 'Floor Plan and Section' (set to 'Floor Plan and Section...'), 'Linked Stories' (showing '1. Story (Home + 1)' and '0. Ground Floor (C...)'), and 'Bottom and Top' (set to '3000' and '0'). The central workspace shows a drawing of a wall with a horizontal line and two vertical lines, with a small 'x' mark. The left sidebar contains a 'Design' palette with various wall and window symbols. The right sidebar features a 'Tree by Subset' panel showing a project hierarchy: 'Untitled' > 'Sheet Index' > 'A.01 Floor Plans' > 'A.01.1 Ground Floor' > 'A.01.2 1. Story' > 'A.01.3 2. Story' > 'A.02 Elevations' > 'A.02.1 E-01 North Ele', 'A.02.2 E-02 East Elev', 'A.02.3 E-03 South El', 'A.02.4 E-04 West Ele' > 'Masters' > 'A4 Portrait', 'A3 Landscape', 'A2 Landscape', 'A1 Landscape'. Below the tree is a 'Properties' panel with the text 'No Selection.'. The bottom status bar shows 'Enter First Node of Wall.' and a 'GRAPHISOFT ID' field.

5. CUADRO / PALETA DE INFORMACIÓN

ARCHICAD File Edit View Design Document Options Teamwork Window Help

Untitled

Main: Layer: Structural - Bearing Geometry Method: Reference Line Location: Core Outside Structure: Generic Wall/S... Floor Plan and Section: Floor Plan and Section... Linked Stories: 1. Story (Home + 1) 0. Ground Floor (C... Bottom and Top: 3000 0

[0. Ground Floor] [3D / All] [South Elevation]

6. PALETA DE HERRAMIENTAS

Design

Viewpoi

Docume 22% 0° 1:100 02 Drafting Entire Model 03 Architect... 03 Building... No Overrides 00 Show All...

Enter First Node of Wall.

GRAPHISOFT ID

ARCHICAD File Edit View Design Document Options Teamwork Window Help

MEM 53% 65% Dom 10:19 p. m.

Untitled

Main: Layer: Geometry Method: Reference Line Location: Structure: Floor Plan and Section: Linked Stories: Bottom and Top:

Default Settings Structural - Bearing Core Outside Generic Wall/S... Floor Plan and Section... 1. Story (Home + 1) 0. Ground Floor (C... 3000 0

[0. Ground Floor] [3D / All] [South Elevation]

7. ÁREA DE DIBUJO / MODELADO / VISTAS

Design

Viewpoi

Docume 22% 0° 1:100 02 Drafting Entire Model 03 Architect... 03 Building... No Overrides 00 Show All...

Enter First Node of Wall.

GRAPHISOFT ID

Tree by Subset

- Untitled
 - Sheet Index
 - A.01 Floor Plans
 - A.01.1 Ground Floor
 - A.01.2 1. Story
 - A.01.3 2. Story
 - A.02 Elevations
 - A.02.1 E-01 North Ele
 - A.02.2 E-02 East Elev
 - A.02.3 E-03 South El
 - A.02.4 E-04 West Ele
 - Masters
 - A4 Portrait
 - A3 Landscape
 - A2 Landscape
 - A1 Landscape

Properties

No Selection.

The screenshot displays the ARCHICAD software interface. At the top, the menu bar includes 'ARCHICAD', 'File', 'Edit', 'View', 'Design', 'Document', 'Options', 'Teamwork', 'Window', and 'Help'. The system tray shows the date and time as 'Dom 10:19 p. m.' and a battery level of 65%. The main toolbar contains various drawing and editing tools. Below the toolbar, the ribbon bar is highlighted with a red box and contains several panels: 'Main: Default Settings', 'Layer: Structural - Bearing', 'Geometry Method: Core Outside', 'Reference Line Location: Core Outside', 'Structure: Generic Wall/S...', 'Floor Plan and Section: Floor Plan and Section...', 'Linked Stories: 1. Story (Home + 1), 0. Ground Floor (C...)', and 'Bottom and Top: 3000, 0'. The ribbon bar is labeled '7.1. Barra de pestañas' in red text. The main workspace shows a 3D view of a wall with a red 'x' indicating the start of a new wall. The right sidebar contains a 'Tree by Subset' panel with a hierarchical list of project elements: 'Untitled', 'Sheet Index', 'A.01 Floor Plans' (including Ground Floor, 1. Story, and 2. Story), 'A.02 Elevations' (including North, East, South, and West elevations), and 'Masters' (including A4 Portrait, A3 Landscape, A2 Landscape, and A1 Landscape). The 'Properties' panel at the bottom right shows 'No Selection.' The status bar at the bottom indicates the current view is '02 Drafting' at a scale of '1:100'.

The image shows the ARCHICAD software interface. The main window displays a 3D view of a wall structure. The interface includes a menu bar at the top with options like File, Edit, View, Design, Document, Options, Teamwork, Window, and Help. Below the menu bar is a toolbar with various drawing and editing tools. The main workspace is divided into several panels: Main, Layer, Geometry Method, Reference Line Location, Structure, Floor Plan and Section, Linked Stories, and Bottom and Top. The main workspace shows a 3D view of a wall structure. The right side of the interface features a project tree (Navigator) and a Properties panel. The project tree is expanded to show the following structure:

- Untitled
 - Sheet Index
 - A.01 Floor Plans
 - A.01.1 Ground Floor
 - A.01.2 1. Story
 - A.01.3 2. Story
 - A.02 Elevations
 - A.02.1 E-01 North Ele
 - A.02.2 E-02 East Elev
 - A.02.3 E-03 South El
 - A.02.4 E-04 West Ele
 - Masters
 - A4 Portrait
 - A3 Landscape
 - A2 Landscape
 - A1 Landscape

The Properties panel at the bottom right shows "No Selection." The status bar at the bottom indicates the current view is "03 Architect..." and the scale is "1:100".

8. NAVEGADOR DESPLEGABLE

ARCHICAD File Edit View Design Document Options Teamwork Window Help

MEM 53% 65% Dom 10:19 p. m.

Untitled

Main: Layer: Structural - Bearing Geometry Method: Reference Line Location: Core Outside Structure: Generic Wall/S... Floor Plan and Section: Floor Plan and Section... Linked Stories: 1. Story (Home + 1) 0. Ground Floor (C... Bottom and Top: 3000 0

[0. Ground Floor] [3D / All] [South Elevation]

10. BARRA DE ESTADO

Design

Tree by Subset

- Untitled
 - Sheet Index
 - A.01 Floor Plans
 - A.01.1 Ground Floor
 - A.01.2 1. Story
 - A.01.3 2. Story
 - A.02 Elevations
 - A.02.1 E-01 North Ele
 - A.02.2 E-02 East Elev
 - A.02.3 E-03 South El
 - A.02.4 E-04 West Ele
 - Masters
 - A4 Portrait
 - A3 Landscape
 - A2 Landscape
 - A1 Landscape

Properties

No Selection.

Docume 22% 0° 1:100 02 Drafting Entire Model 03 Architect... 03 Building... No Overrides 00 Show All...

Enter First Node of Wall.

GRAPHISOFT ID

The screenshot shows the ARCHICAD software interface. The 'Options' menu is open, and 'Working Units...' is selected. The interface includes a top menu bar (ARCHICAD, File, Edit, View, Design, Document, Options, Teamwork, Window, Help), a toolbar, a main workspace with a 3D model of a wall, and a right-hand panel with a tree view and properties section. The status bar at the bottom shows the current view and zoom level.

Options menu items:

- Element Attributes
- Property Manager...
- Classification Manager...
- Complex Profiles
- Auto Intersection
- Add-On Manager...
- Project Preferences
- Work Environment

Working Units... submenu items:

- Dimensions...
- Calculation Units & Rules...
- Zones...
- Reference Levels...
- Legacy...
- Stair Rules and Standards...
- Structural Analytical Model Units...
- Structural Analytical Model Representation...
- MEP Preferences...
- Project Location...
- Set Project North
- Open BIMcloud Manager...

ELABORACIÓN DE PLANOS CON HERRAMIENTAS BIM



TRAZADO DE PLANOS CON ARCHICAD

APRENDIZAJE GUIADO: PABELLÓN DE DORMITORIOS

El presente ejercicio busca desarrollar paso a paso una edificación pequeña, que permita el empleo de las principales herramientas del ARCHICAD, desde su cimentación hasta la cubierta, estableciendo parámetros de calibración de materiales en su representación bidimensional y tridimensional

DIBUJO DIGITAL

CONSIDERACIONES GENERALES PARA LA REPRESENTACIÓN DIGITAL

Para el desarrollo de este ejercicio es fundamental tener una claridad de la secuencia del proceso constructivo y de los elementos estructurales que conforma una estructura de hormigón armado, bajo la cual se desarrolla el presente ejercicio.

El autor M. Saleh Uddin (2000) cita una serie de pautas que se deben seguir para la adecuada estructuración de una presentación arquitectónica; estas son:

- Composición basada en relaciones entre los dibujos.
- Atención a los dibujos primarios y secundarios.
- Determinación de la jerarquía para fortalecer el énfasis y la claridad.
- Confirmación de la secuencia del contenido del diseño.
- Creación del grado de abstracción.
- Selección de la técnica gráfica.
- Revisión de la normativa municipal para la aprobación de los planos a efectuarse

A su vez es fundamental establecer los siguientes criterios para la expresión gráfica del trazado de planos:

- Dibujos claros y limpios
- Manejo de color (escala de grises)
- Mobiliario simple, comprensible y de menor valor de línea con respecto a la información principal
- Incorporación de texturas en grises con la finalidad de que no resalte con la información principal.

FUNDAMENTOS DE LA REPRESENTACIÓN ARQUITECTÓNICA SE PUEDE CONSULTAR EL SIGUIENTE RECURSO:



DIMENSIONES DE LOS ELEMENTOS CONSTRUCTIVOS

- Cimentación con zapatas aisladas de hormigón armado de 1.00x1.00x0.30m.
- Columnetas de hormigón armado 0.4x0.4m.
- Cadenas de hormigón armado de 0.4x0.4m
- Columnas de hormigón Armado de 0.3x0.3m
- Vigas de confinamiento de hormigón armado de 0.3x0.5m.
- Losa de contrapiso de hormigón armado con recubrimiento cerámico, espesor total 8cm (6cm hormigón armado y 2cm recubrimiento)
- Losa de cubierta de hormigón armado con recubrimiento cerámico, espesor total 30cm (28cm hormigón armado y 2cm recubrimiento) Viga pre-tensada de hormigón armado Doble "T" de 2,40x0.45m
- Mampostería de ladrillo visto e=30cm
- Mampostería de ladrillo visto con recubrimiento de madera e= 20cm (14cm ladrillo y 3cm de recubrimiento por lado)
- Puertas principales 1.00x2.40m
- Puertas para baños 0.70x2.40m
- Ventana de baño 0.50x1.95m
- Muro Cortina con carpinterías trazadas de 1,00 para puerta y otra a 2,10 de altura como tarjetero.

ELABORACIÓN DE PLANOS CON HERRAMIENTAS BIM



DIBUJO DIGITAL

01

NIVELES DE LA EDIFICACIÓN

The screenshot shows the software interface with the 'Story Settings' dialog box open. The dialog box contains a table with the following data:

No.	Name	Elevation	Height to Next	
2	CUBIERTA	3,82	3,00	<input checked="" type="checkbox"/>
1	ESTRUCTURA	3,30	0,52	<input checked="" type="checkbox"/>
0	PLANTA BAJA	0,00	3,30	<input checked="" type="checkbox"/>
-1	CIMENTACIÓN	-1,50	1,50	<input checked="" type="checkbox"/>

Below the table are buttons for 'Insert Above', 'Insert Below', and 'Delete Story'. At the bottom of the dialog are 'Cancel' and 'OK' buttons.

On the right side of the interface, the Navigator palette is visible, showing a tree structure of the project. The 'Stories' folder is expanded, showing the following items: 2. CUBIERTA, 1. ESTRUCTURA, 0. PLANTA BAJA, and -1. CIMENTACIÓN. The '0. PLANTA BAJA' item is selected. A red dashed box highlights the Navigator palette and the 'Story Settings' dialog box.

1. PALETA DEL NAVEGADOR

2. UBICARSE EN PISOS

Click derecho en propiedades

3. PROPIEDADES DE PISO O NIVELES

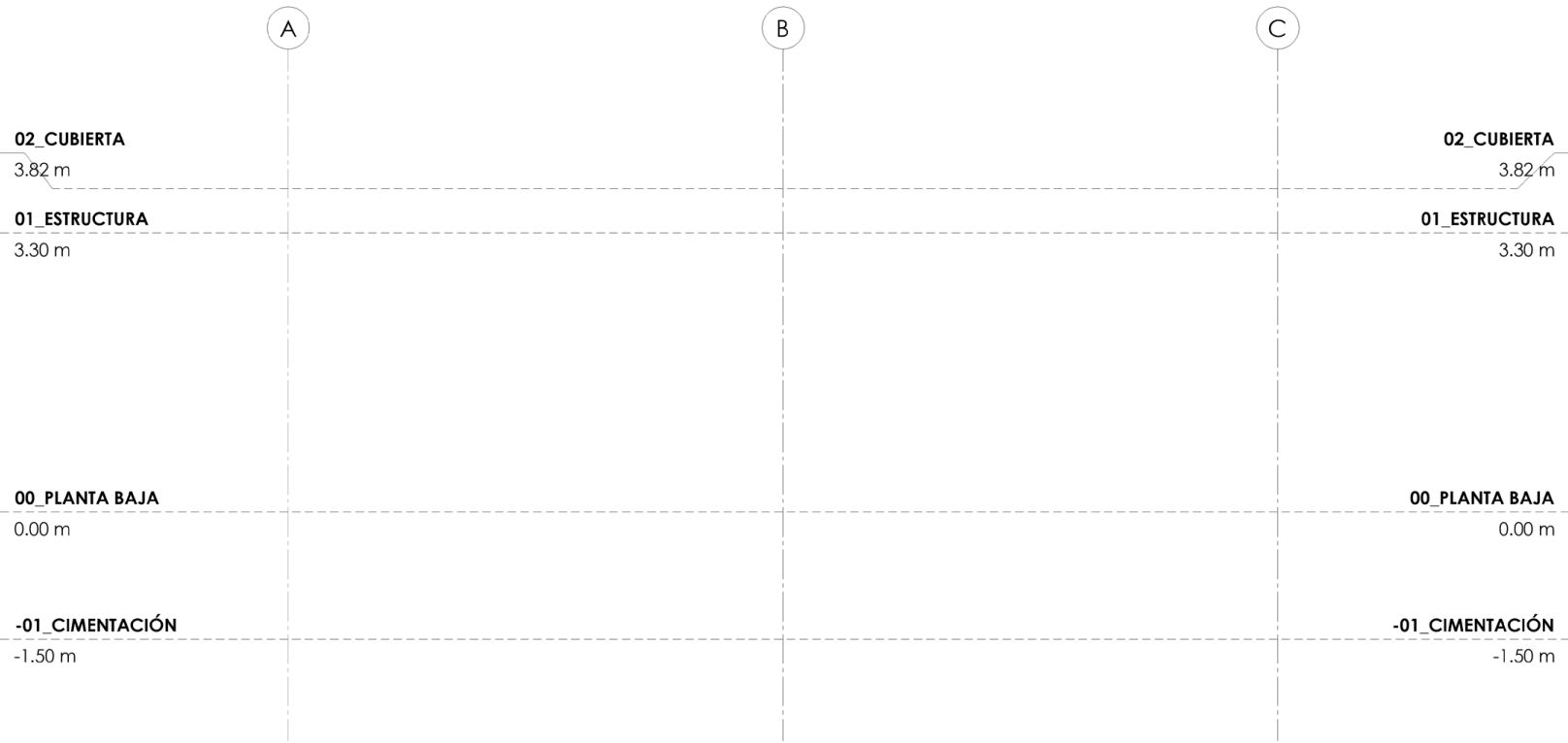
Editar los niveles

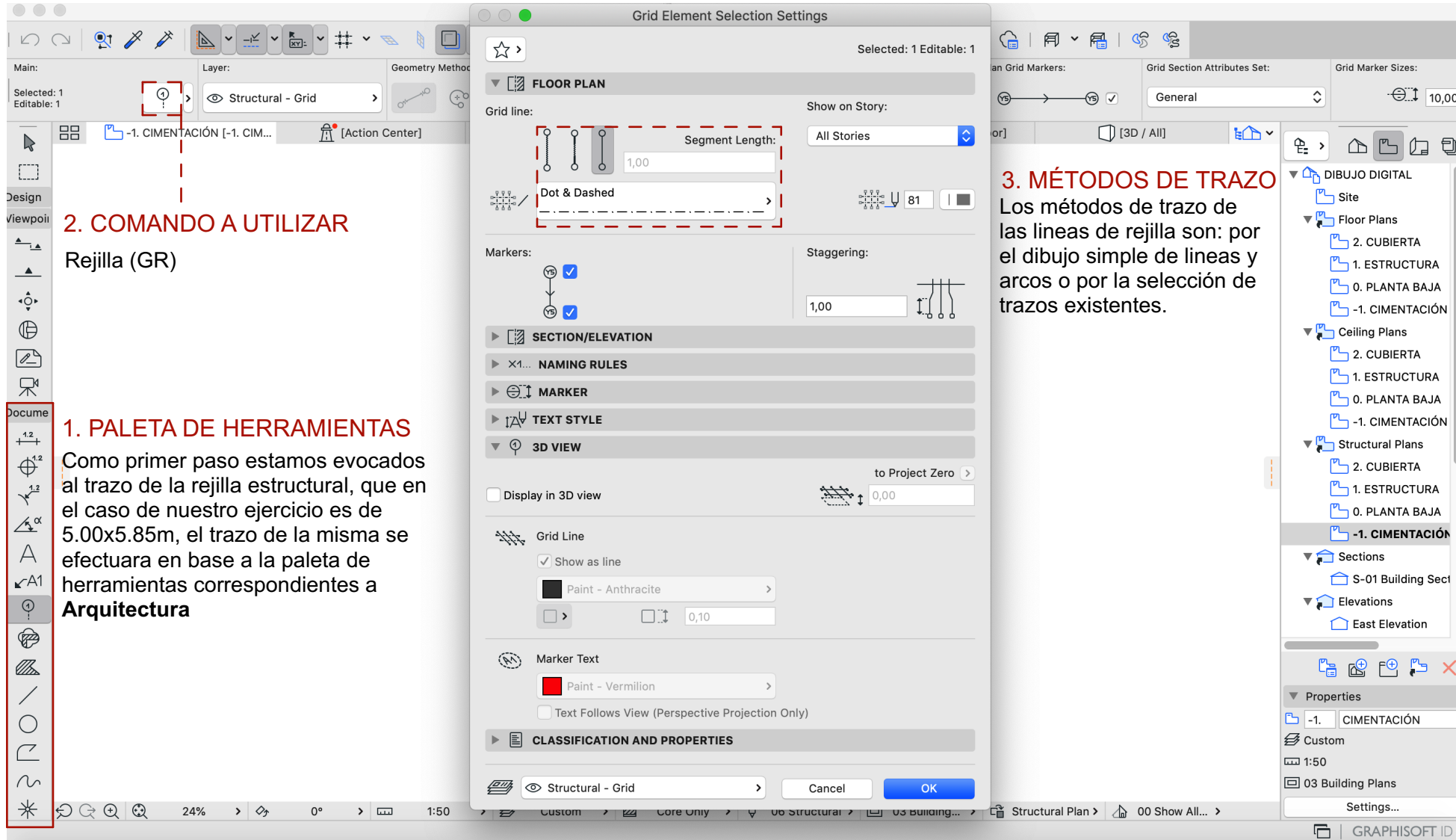
ELABORACIÓN DE PLANOS CON HERRAMIENTAS BIM

The screenshot shows a BIM software interface. On the left is a project tree with the following structure:

- DIBUJO DIGITAL
 - Stories
 - 2. CUBIERTA
 - 1. ESTRUCTURA
 - 0. PLANTA BAJA**
 - 1. CIMENTACIÓN
 - Sections
 - S-01 Building Sect
 - Elevations** (highlighted with a red dashed box)
 - East Elevation (Au** (highlighted with a blue bar)
 - North Elevation (A
 - South Elevation (A
 - West Elevation (A
 - Interior Elevations
 - Worksheets
 - Details
 - 3D Documents
 - 3D
 - Generic Perspectiv
 - Generic Axonomet
 - Schedules
 - Project Indexes
 - Lists
 - Info

At the bottom of the interface, there is a Properties panel with a dropdown menu set to "East Elevation" and a "Settings..." button.





2. COMANDO A UTILIZAR

Rejilla (GR)

1. PALETA DE HERRAMIENTAS

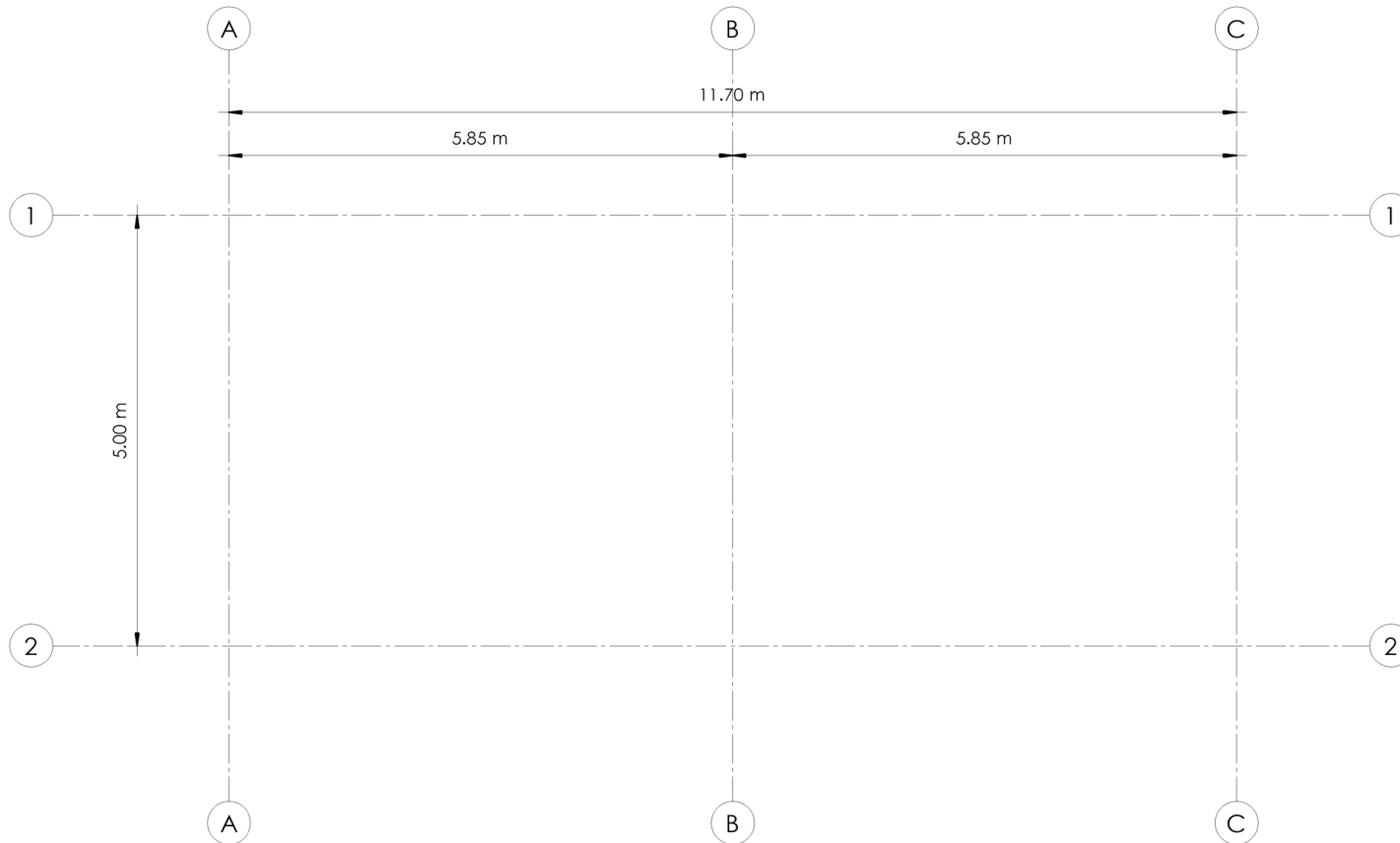
Como primer paso estamos evocados al trazo de la rejilla estructural, que en el caso de nuestro ejercicio es de 5.00x5.85m, el trazo de la misma se efectuara en base a la paleta de herramientas correspondientes a **Arquitectura**

3. MÉTODOS DE TRAZO

Los métodos de trazo de las líneas de rejilla son: por el dibujo simple de líneas y arcos o por la selección de trazos existentes.

- Home
- Folder icon
- File icon
- Print icon
- ▼ DIBUJO DIGITAL
 - Site
 - ▼ Floor Plans
 - 2. CUBIERTA
 - 1. ESTRUCTURA
 - 0. PLANTA BAJA**
 - 1. CIMENTACIÓN
 - ▼ Ceiling Plans
 - 2. CUBIERTA
 - 1. ESTRUCTURA
 - 0. PLANTA BAJA
 - 1. CIMENTACIÓN
 - ▼ Structural Plans
 - 2. CUBIERTA
 - 1. ESTRUCTURA
 - 0. PLANTA BAJA
 - 1. CIMENTACIÓN
 - ▼ Sections
 - S-01 Building Sect
 - ▼ Elevations
 - East Elevation

ELABORACIÓN DE PLANOS CON HERRAMIENTAS BIM



DIBUJO DIGITAL

03

2. COMANDO A UTILIZAR

Objeto

CIMENTACIÓN. ZAPATAS

1. PALETA DE HERRAMIENTAS

2. COMANDO A UTILIZAR
Objeto

3. OBJETO A UTILIZAR DE LA LIBRERÍA
Aislada (Cimentación)

4. CAMBIAR PROPIEDADES
Editar tipo de elemento

5. CAMBIAR DIMENSIONES
1.00x1.00x0.30

Object Selection Settings
Precast Sleeve Found 24
Selected: 1 Editable: 1

PREVIEW AND POSITIONING
0,40
Home Story: -1. CIMENTACIÓN (Current)
-1,10 to Project Zero
1,00
1,00
1,50
Relative
0,00°

FOUNDATION SETTINGS
Style and Dimensions...
Column Shape: Rectangular
1,10
0,00
0,30
0,00
1,50
0,00
0,20
1,00

Properties
-1. CIMENTACIÓN
Custom
1:50
03 Building Plans
Settings...

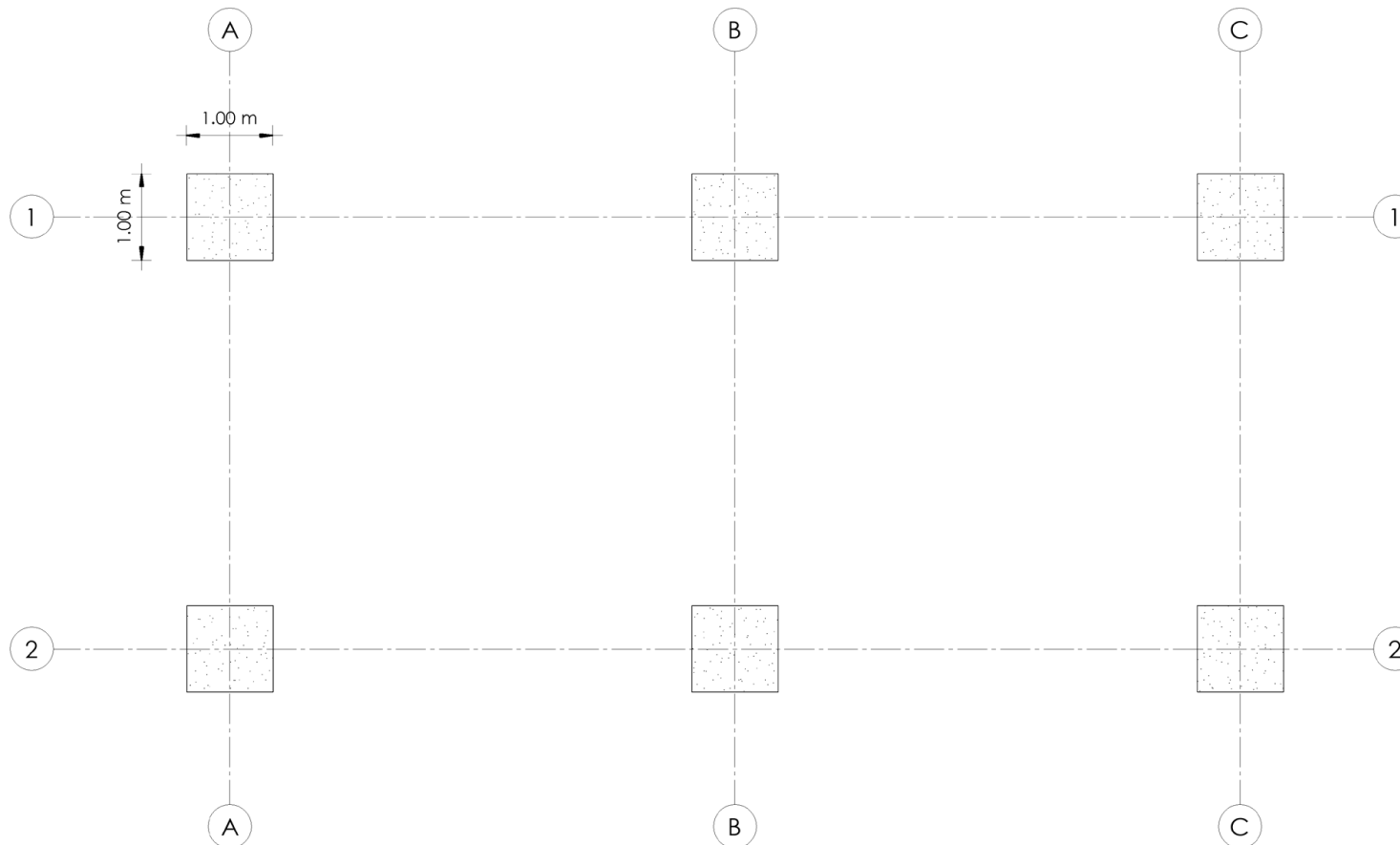
ELABORACIÓN DE PLANOS CON HERRAMIENTAS BIM

The screenshot shows a BIM software interface. On the left is a project tree with the following structure:

- DIBUJO DIGITAL
 - Site
 - Floor Plans
 - 2. CUBIERTA
 - 1. ESTRUCTURA
 - 0. PLANTA BAJA
 - 1. CIMENTACIÓN
 - Ceiling Plans
 - 2. CUBIERTA
 - 1. ESTRUCTURA
 - 0. PLANTA BAJA
 - 1. CIMENTACIÓN
 - Structural Plans
 - 2. CUBIERTA
 - 1. ESTRUCTURA
 - 0. PLANTA BAJA
 - 1. CIMENTACIÓN**
 - Sections
 - S-01 Building Sect
 - Elevations
 - East Elevation

Below the tree is a Properties panel with the following settings:

- Properties
 - 1. CIMENTACIÓN
 - Custom
 - 1:50
 - 03 Building Plans
 - Settings...



DIBUJO DIGITAL

04

2. COMANDO A UTILIZAR

Pilar estructural

3. CAMBIAR PROPIEDADES

Editar tipo de elemento

CIMENTACIÓN. COLUMNETAS

4. CAMBIAR DIMENSIONES

Columneta cuadrada 0.4m

1. PALETA DE HERRAMIENTAS

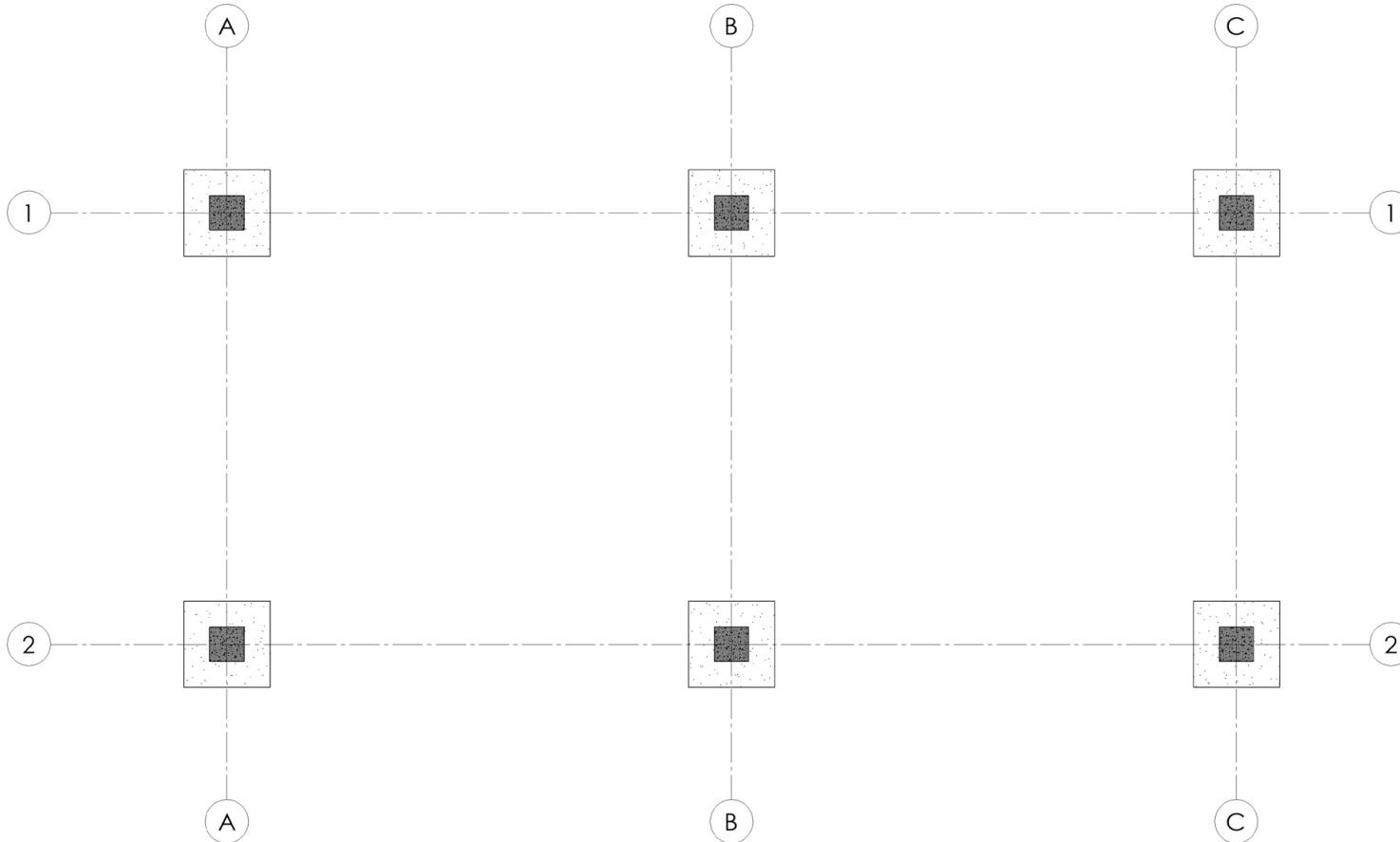
ELABORACIÓN DE PLANOS CON HERRAMIENTAS BIM

The screenshot shows a BIM software interface. On the left is a project tree with the following structure:

- DIBUJO DIGITAL
 - Site
 - Floor Plans
 - 2. CUBIERTA
 - 1. ESTRUCTURA
 - 0. PLANTA BAJA
 - 1. CIMENTACIÓN
 - Ceiling Plans
 - 2. CUBIERTA
 - 1. ESTRUCTURA
 - 0. PLANTA BAJA
 - 1. CIMENTACIÓN
 - Structural Plans
 - 2. CUBIERTA
 - 1. ESTRUCTURA
 - 0. PLANTA BAJA
 - 1. CIMENTACIÓN
 - Sections
 - S-01 Building Sect
 - Elevations
 - East Elevation

At the bottom of the tree are icons for adding, deleting, and refreshing elements. Below the tree is a Properties panel with the following settings:

- Folder: -1. CIMENTACIÓN
- Custom: Custom
- Scale: 1:50
- View: 03 Building Plans
- Settings... button



DIBUJO DIGITAL

05

2. COMANDO A UTILIZAR

Viga

3. CAMBIAR PROPIEDADES

Editar tipo de elemento

CIMENTACIÓN. CADENAS

4. CAMBIAR DIMENSIONES

Cadena cuadrada 0.4x0.4m

1. PALETA DE HERRAMIENTAS



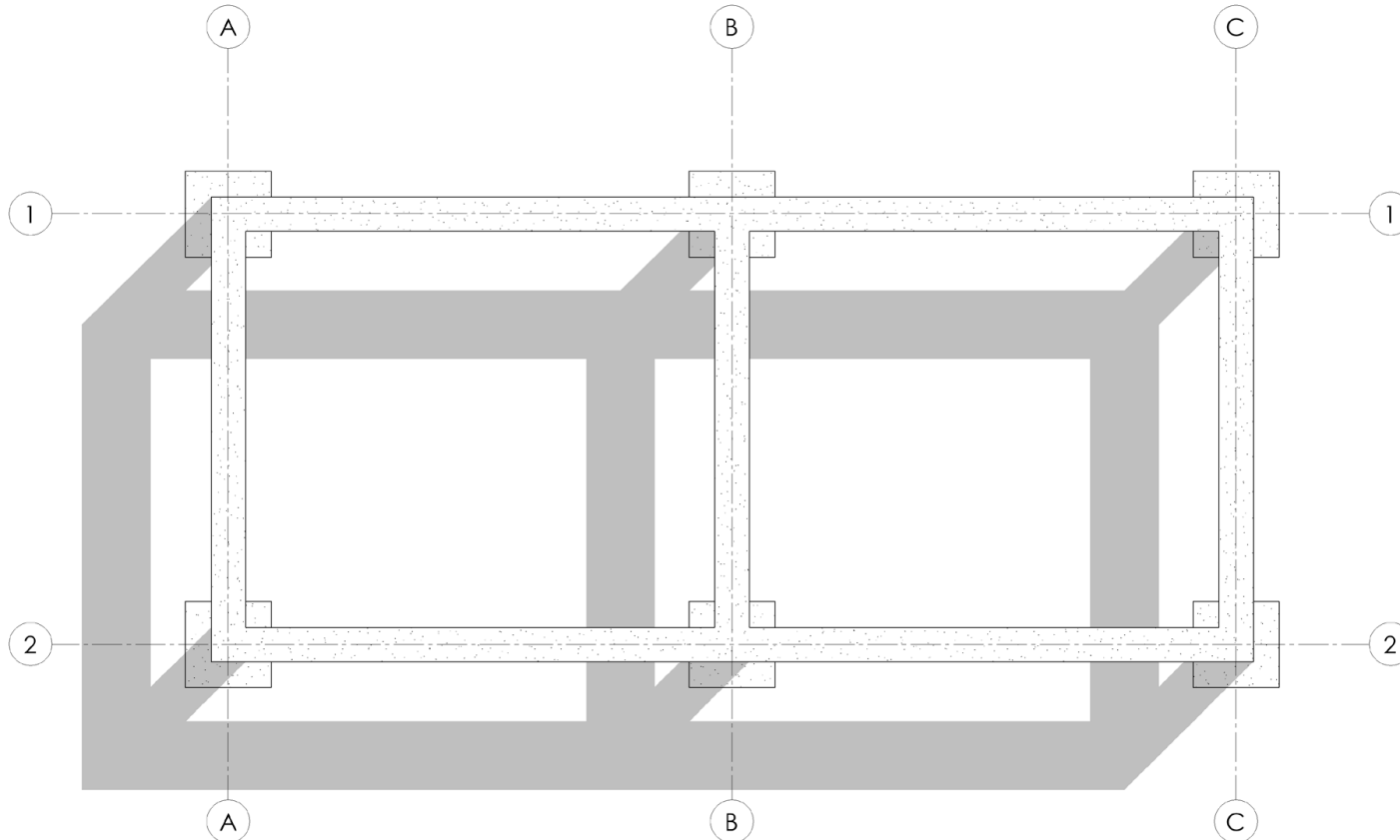
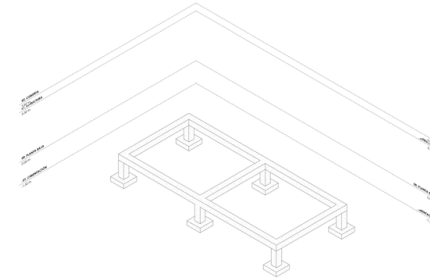
ELABORACIÓN DE PLANOS CON HERRAMIENTAS BIM

The screenshot shows a BIM software interface. On the left is a project tree with the following structure:

- DIBUJO DIGITAL
 - Site
 - Floor Plans
 - 2. CUBIERTA
 - 1. ESTRUCTURA
 - 0. PLANTA BAJA
 - 1. CIMENTACIÓN
 - Ceiling Plans
 - 2. CUBIERTA
 - 1. ESTRUCTURA
 - 0. PLANTA BAJA
 - 1. CIMENTACIÓN
 - Structural Plans** (highlighted with a red dashed box)
 - 2. CUBIERTA
 - 1. ESTRUCTURA
 - 0. PLANTA BAJA** (highlighted with a red dashed box)
 - 1. CIMENTACIÓN
 - Sections
 - S-01 Building Sect
 - Elevations
 - East Elevation

At the bottom, there is a Properties panel with the following information:

- 0. PLANTA BAJA
- Custom
- 1:50
- 03 Building Plans
- Settings...



06

2. COMANDO A UTILIZAR

Pilar estructural

3. CAMBIAR PROPIEDADES

Editar tipo de elemento

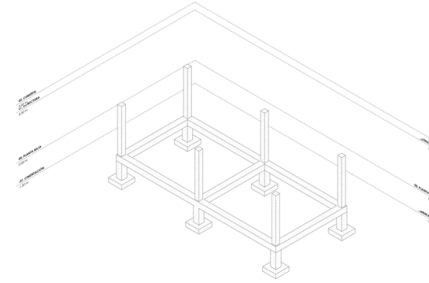
ESTRUCTURA. COLUMNAS

1. PALETA DE HERRAMIENTAS

4. CAMBIAR DIMENSIONES

Columna cuadrada 0.3m

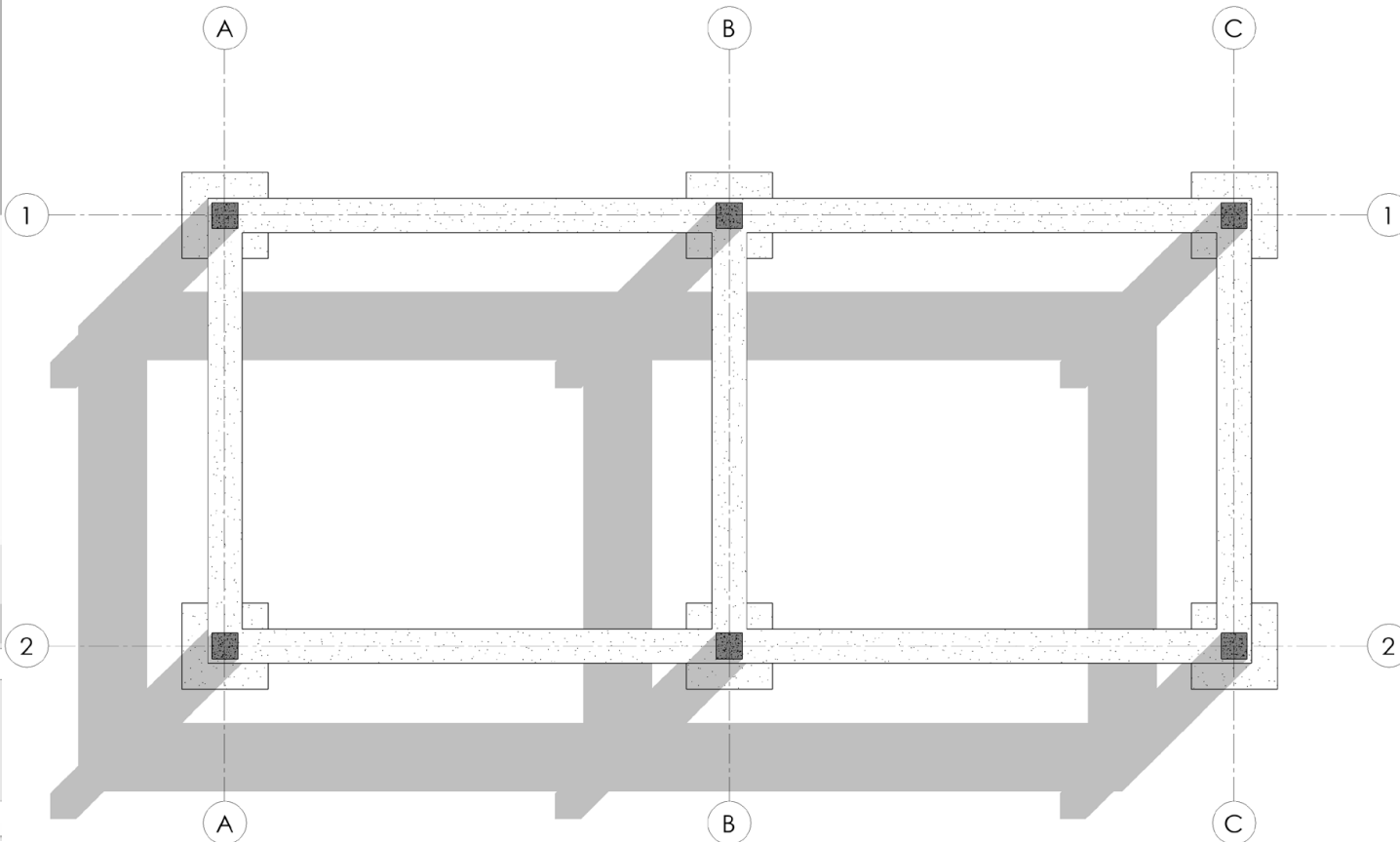
ELABORACIÓN DE PLANOS CON HERRAMIENTAS BIM



Navigation icons: Home, Back, Forward, Print, Copy

- ▼ DIBUJO DIGITAL
 - Site
 - ▼ Floor Plans
 - 2. CUBIERTA
 - 1. ESTRUCTURA
 - 0. PLANTA BAJA
 - 1. CIMENTACIÓN
 - ▼ Ceiling Plans
 - 2. CUBIERTA
 - 1. ESTRUCTURA
 - 0. PLANTA BAJA
 - 1. CIMENTACIÓN
 - ▼ Structural Plans
 - 2. CUBIERTA
 - 1. ESTRUCTURA
 - 0. PLANTA BAJA**
 - 1. CIMENTACIÓN
 - ▼ Sections
 - S-01 Building Sect
 - ▼ Elevations
 - East Elevation

Properties panel:
0. PLANTA BAJA
Custom
1:50
03 Building Plans
Settings...



DIBUJO DIGITAL

07

2. COMANDO A UTILIZAR

Viga

3. CAMBIAR PROPIEDADES

Editar tipo de elemento

ESTRUCTURA. VIGAS SUPERIORES

4. CAMBIAR DIMENSIONES

Viga Superior 0.3x0.5m

1. PALETA DE HERRAMIENTAS

2. COMANDO A UTILIZAR

3. CAMBIAR PROPIEDADES

4. CAMBIAR DIMENSIONES

Beam Selection Settings

Selected: 1 Editable: 1

Beam

Segment

Hole

Floor Plan and Section

Structural Analytical Param...

Classification and Properties

POSITIONING

Elevation: 0,00

Home Story: 2. CUBIERTA (Current +1)

to Project Zero: 3,82

END CUTS AND REFERENCE AXIS

Start: 90,00°

End: 90,00°

Reference Axis:

Offset: 0,00

Axis Rotation: 0,00°

Properties

1. ESTRUCTURA

Custom

1:50

03 Building Plans

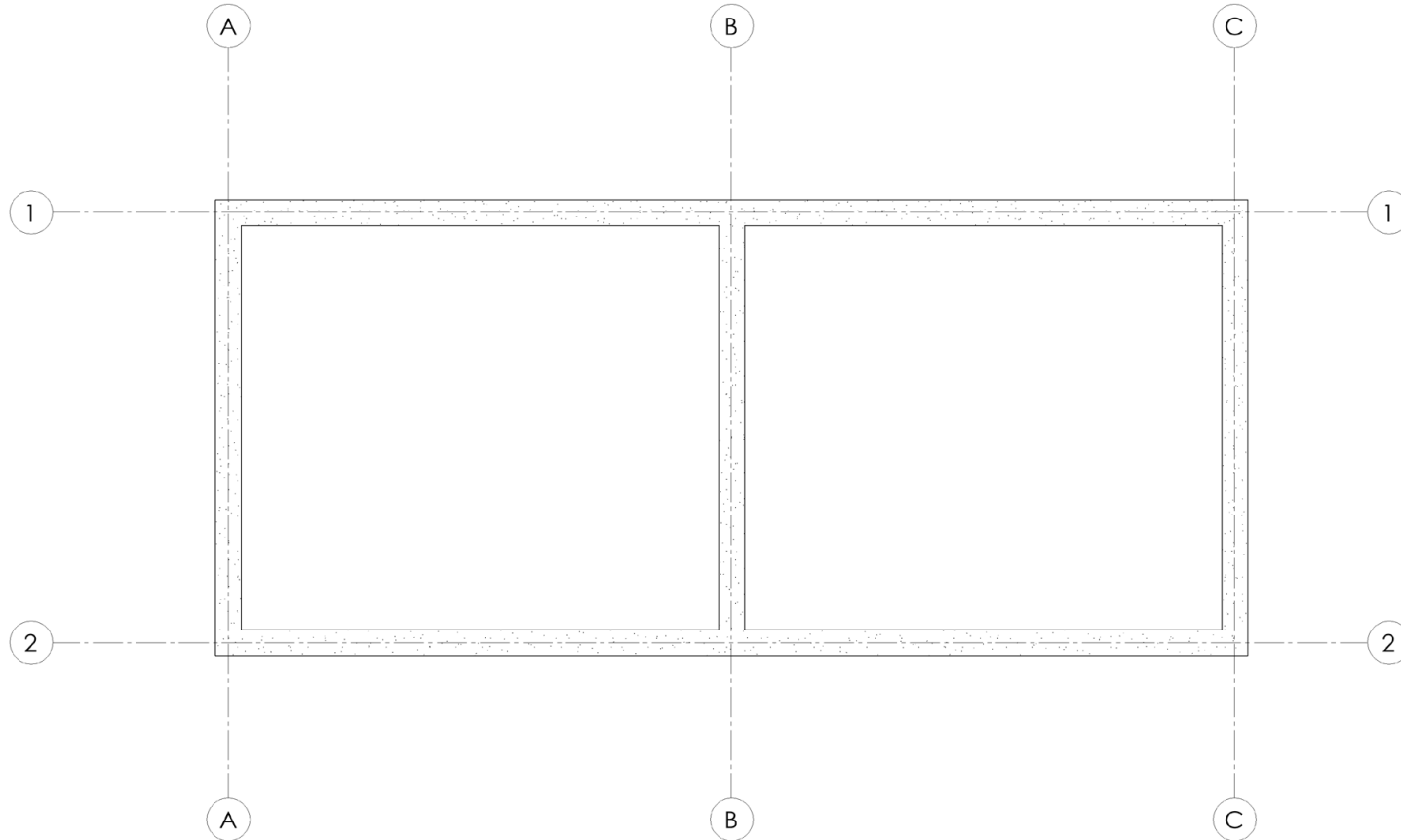
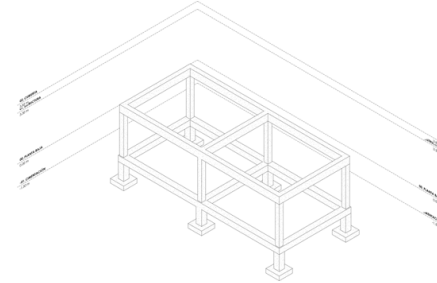
Settings...

GRAPHISOFT ID

ELABORACIÓN DE PLANOS CON HERRAMIENTAS BIM

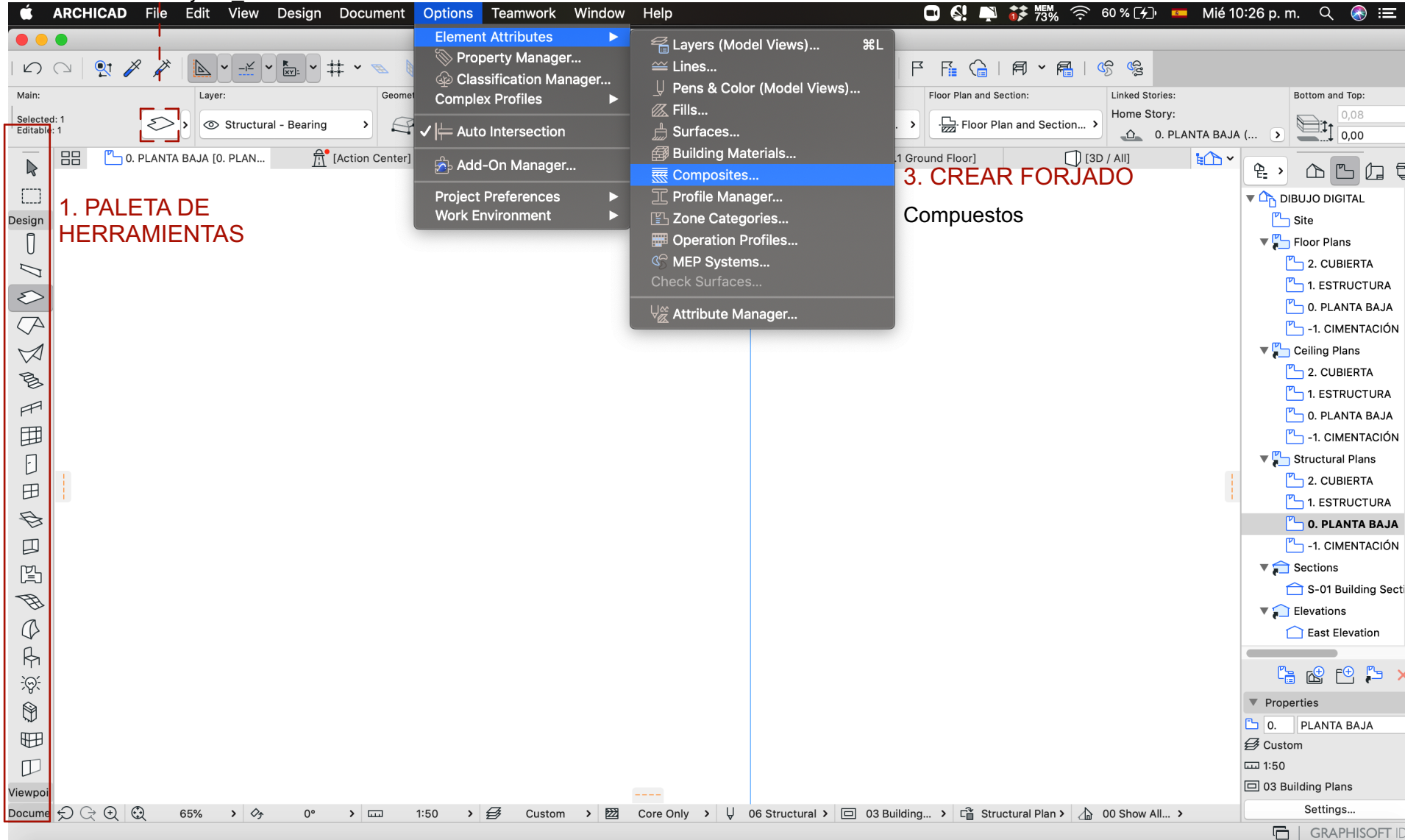
The screenshot shows the left-hand navigation pane of a BIM software application. The project tree is expanded to show 'Structural Plans' > '1. ESTRUCTURA', which is highlighted with a red dashed box. Below the tree is a 'Properties' panel with the following details:

- 1. ESTRUCTURA
- Custom
- 1:50
- 03 Building Plans
- Settings...
- GRAPHISOFT ID



2. COMANDO A UTILIZAR

Forjado Losa



1. PALETA DE HERRAMIENTAS

3. CREAR FORJADO

Compuestos

5. EDITAR ESTRUCTURA
8cm hormigón armado
2cm recubrimiento cerámico

ELABORACIÓN DE PLANOS CON HERRAMIENTAS BIM

Navigation and Properties Panel

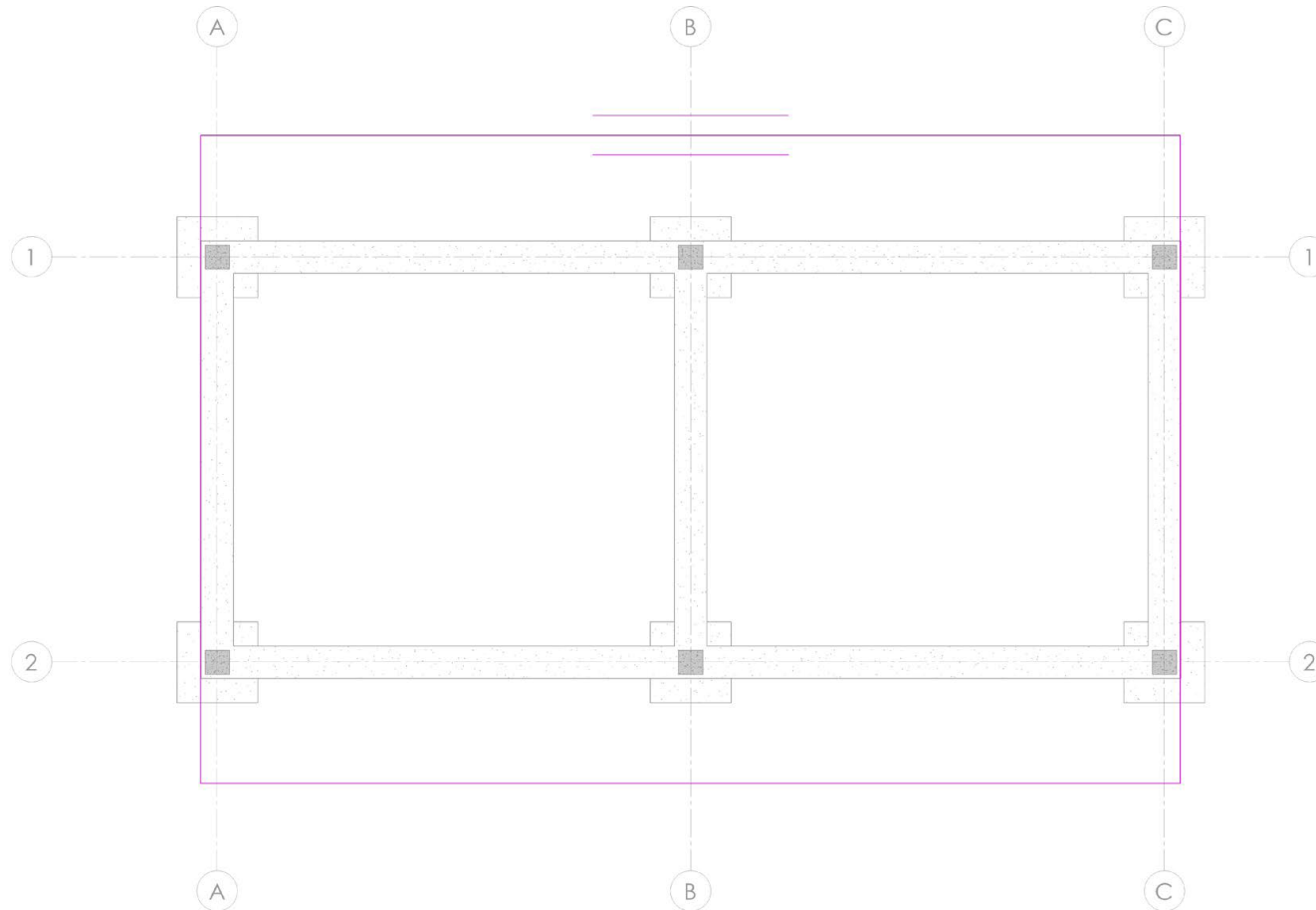
- DIBUJO DIGITAL
 - Site
 - Floor Plans
 - 2. CUBIERTA
 - 1. ESTRUCTURA
 - 0. PLANTA BAJA
 - 1. CIMENTACIÓN
 - Ceiling Plans
 - 2. CUBIERTA
 - 1. ESTRUCTURA
 - 0. PLANTA BAJA
 - 1. CIMENTACIÓN
 - Structural Plans
 - 2. CUBIERTA
 - 1. ESTRUCTURA
 - 0. PLANTA BAJA**
 - 1. CIMENTACIÓN
 - Sections
 - S-01 Building Sect
 - Elevations
 - East Elevation

Properties

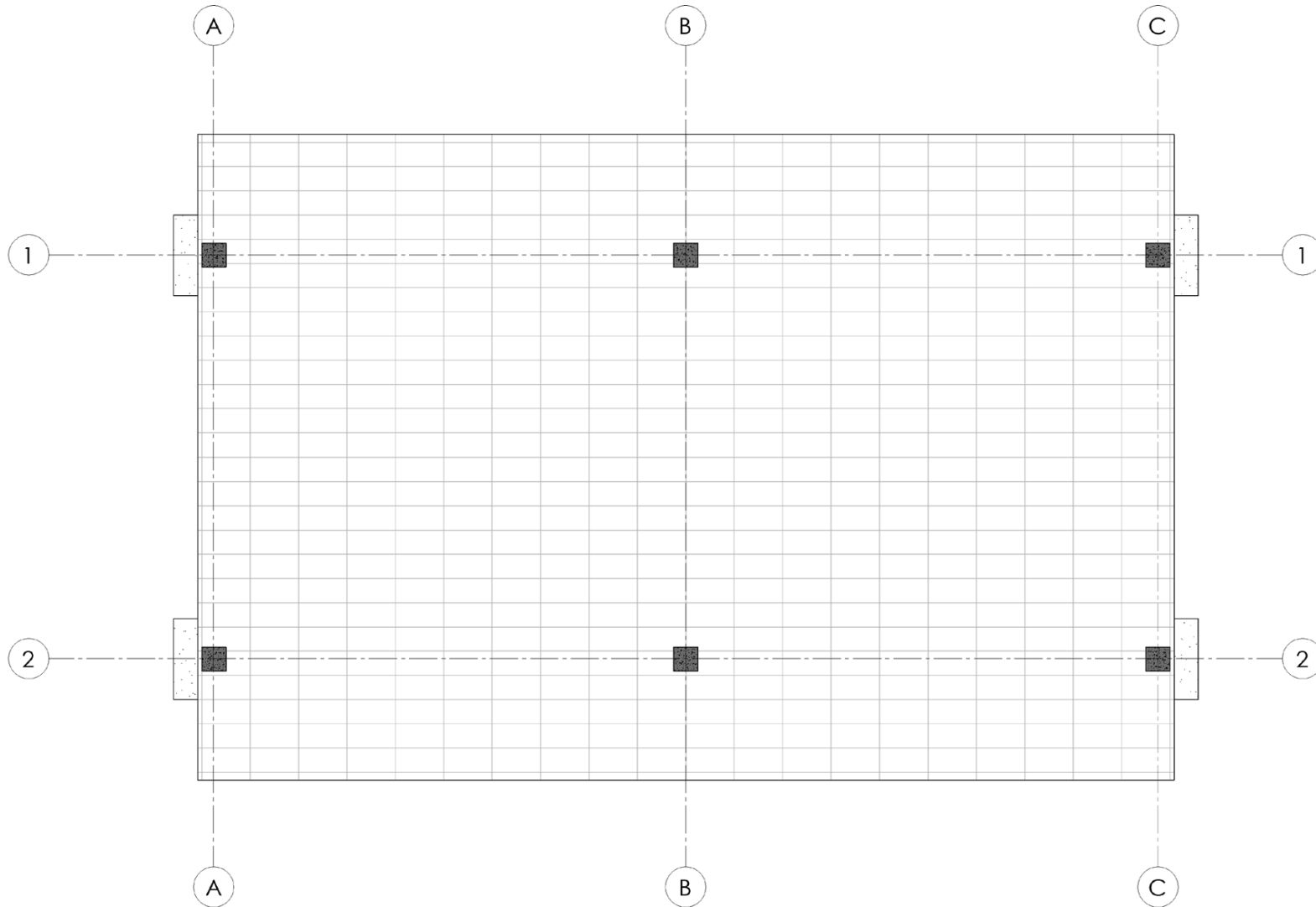
- 0. PLANTA BAJA
- Custom
- 1:50
- 03 Building Plans
- Settings...

Property Bar

- Main: Default Settings
- Layer: Structural - Bearing
- Geometry Method: 2
- Reference Plane Location: [Hatched Area Icon]



ESTRUCTURA. LOSA DE CONTRAPISO



DIBUJO DIGITAL

09

2. COMANDO A UTILIZAR

Objeto

ESTRUCTURA. VIGAS PRETENSADAS

1. PALETA DE HERRAMIENTAS

2. COMANDO A UTILIZAR

Objeto

ESTRUCTURA. VIGAS PRETENSADAS

4. CAMBIAR DIMENSIONES

0.45 m

4. CAMBIAR DIMENSIONES

0.45 m

3. COMPONENTE A UTILIZAR

Viga doble T prefabricada

DIBUJO DIGITAL

- Site
- Floor Plans
 - 2. CUBIERTA
 - 1. ESTRUCTURA
 - 0. PLANTA BAJA
 - 1. CIMENTACIÓN
- Ceiling Plans
 - 2. CUBIERTA
 - 1. ESTRUCTURA
 - 0. PLANTA BAJA
 - 1. CIMENTACIÓN
- Structural Plans
 - 2. CUBIERTA**
 - 1. ESTRUCTURA
 - 0. PLANTA BAJA
 - 1. CIMENTACIÓN
- Sections
 - S-01 Building Section
- Elevations
 - East Elevation

Properties

2. CUBIERTA

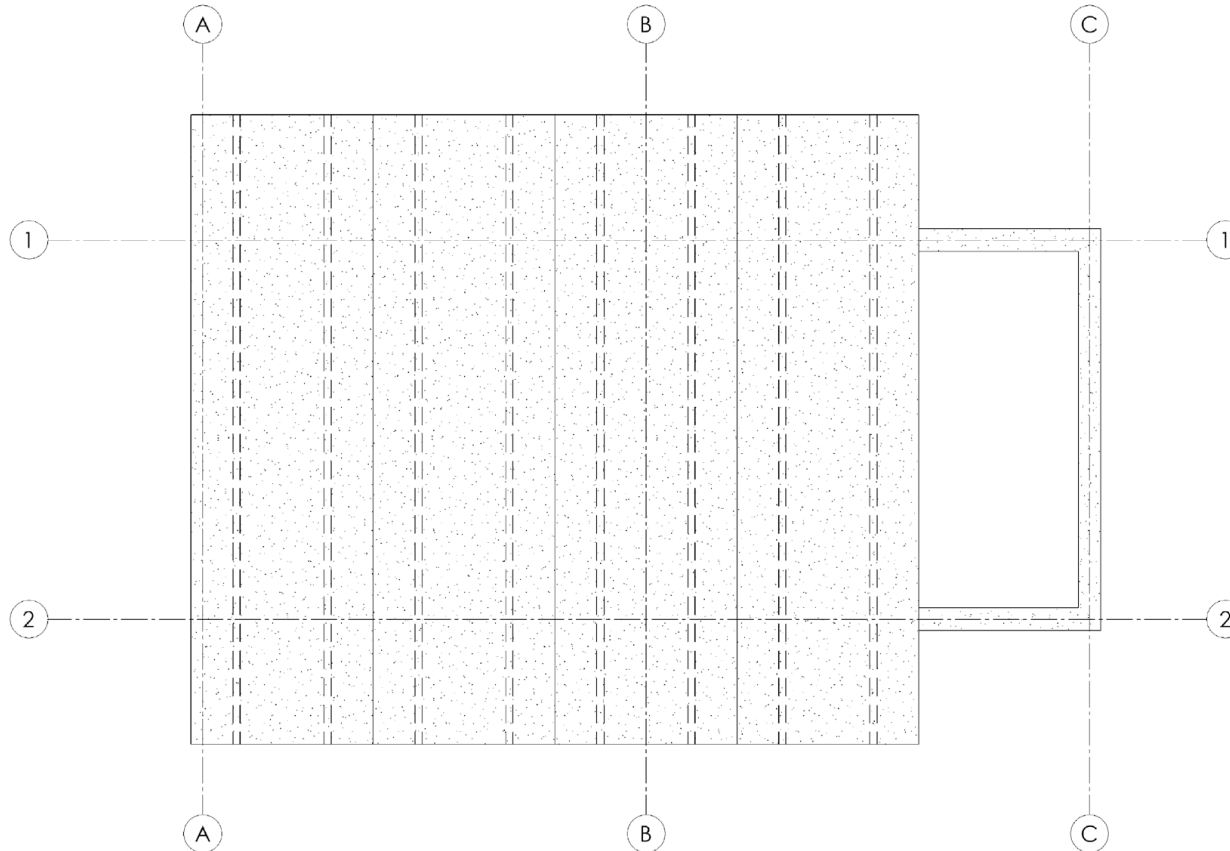
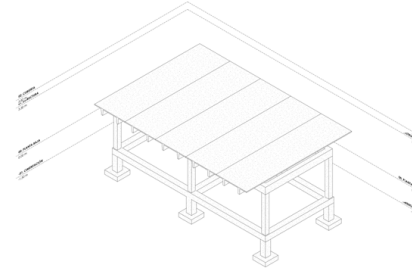
Custom

1:50

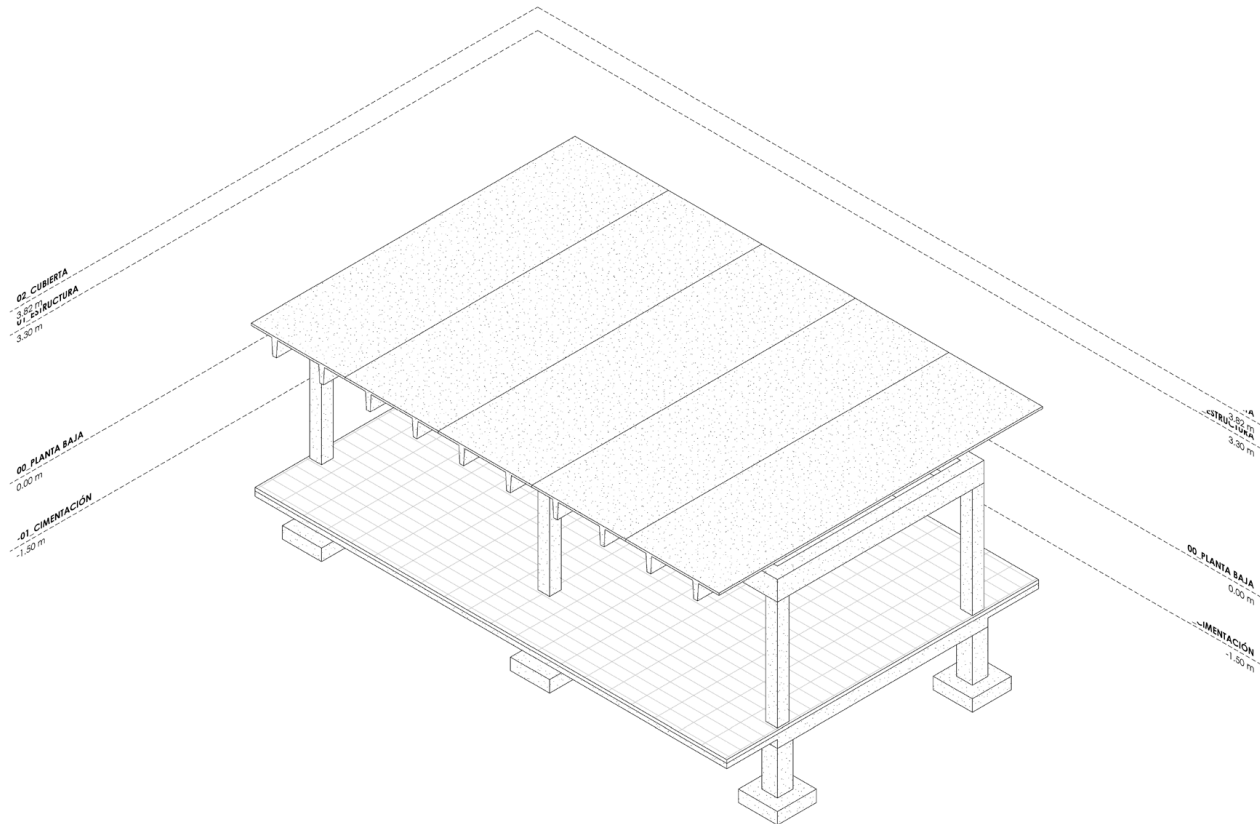
03 Building Plans

Settings...

ELABORACIÓN DE PLANOS CON HERRAMIENTAS BIM



ELABORACIÓN DE PLANOS CON HERRAMIENTAS BIM



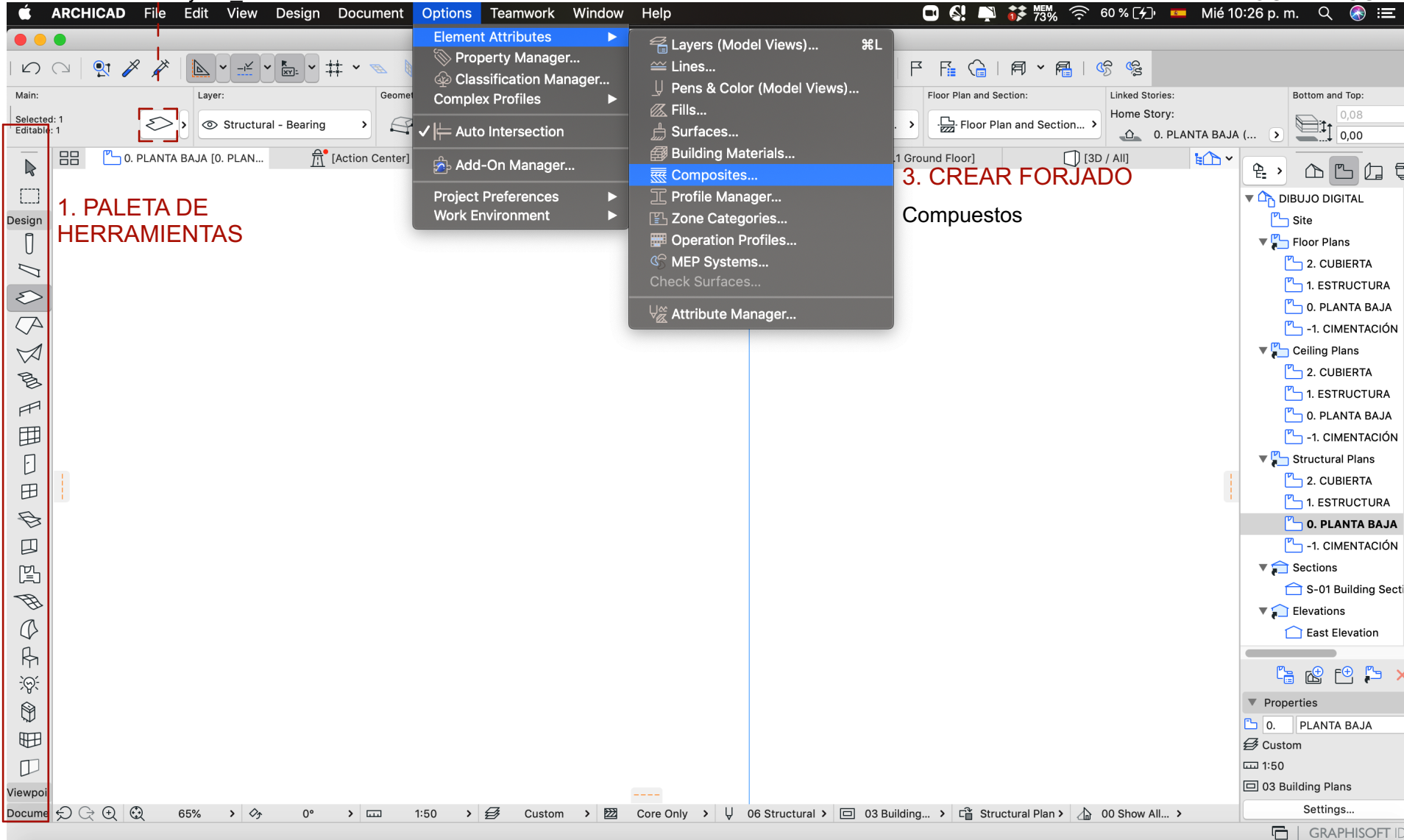
DIBUJO DIGITAL

10

2. COMANDO A UTILIZAR

Forjado Losa

LOSA DE CUBIERTA



1. PALETA DE HERRAMIENTAS

3. CREAR FORJADO

Compuestos

DIBUJO DIGITAL.pln

Main: Selected: 1 Editable: 1

Layer: Structural - Bearing

Geometry Method:

Reference Plane Location:

Structure: LOSA DE CON...

Floor Plan and Section: Floor Plan and Section...

Linked Stories: Home Story: 0. PLANTA BAJA (...)

Bottom and Top: 0,08 0,00

Composites

Generic Slab/Roof

New...

New Composite Structure

Name: LOSA FUNDICIÓN CUBIERTA 7CM

New

Duplicate: Generic Slab /Roof

Cancel OK

EDIT SKIN AND LINE STRUCTURE

Skin and Separator

Outside/Top: Solid Line

Inside/Bottom: Solid Line

Total thickness: [m] 0,30

Insert Skin Remove Skin

Use with:

Cancel OK

-4. DUPLICAR

DIBUJO DIGITAL

- Site
- Floor Plans
 - 2. CUBIERTA
 - 1. ESTRUCTURA
 - 0. PLANTA BAJA
 - 1. CIMENTACIÓN
- Ceiling Plans
 - 2. CUBIERTA
 - 1. ESTRUCTURA
 - 0. PLANTA BAJA
 - 1. CIMENTACIÓN
- Structural Plans
 - 2. CUBIERTA
 - 1. ESTRUCTURA
 - 0. PLANTA BAJA
 - 1. CIMENTACIÓN
- Sections
 - S-01 Building Secti
- Elevations
 - East Elevation

Properties

0. PLANTA BAJA

Custom

1:50

03 Building Plans

Settings...

GRAPHISOFT ID

DIBUJO DIGITAL.pln

Main: Selected: 1 Editable: 1

Layer: Structural - Bearing

Geometry Method:

Reference Plane Location:

Structure: LOSA FUNDICION...

Floor Plan and Section: Floor Plan and Section...

Linked Stories: Home Story: 2. CUBIERTA (Curr...)

Bottom and Top: 0,07 0,00

Composites

LOSA FUNDICION CUBIERTA 7CM

New... Rename... Delete...

EDIT SKIN AND LINE STRUCTURE

Skin and Separator	Line Pen	Type
<input checked="" type="checkbox"/> Outside/Top: Solid Line	141	
<input checked="" type="checkbox"/> Tile - Roof	141	0,02
<input checked="" type="checkbox"/> Solid Line	141	
<input checked="" type="checkbox"/> Concrete	161	0,05
<input checked="" type="checkbox"/> Inside/Bottom: Solid Line	161	

Total thickness: [m] 0,07

Insert Skin Remove Skin

Use with:

Cancel OK

2. CUBIERTA [2. CUBIERTA] [S-01 Building Section] [North Elevation [North Ele...]] [A.01.1 Ground Floor] [3D / All] [Action Center]

DIBUJO DIGITAL

- Site
- Floor Plans
 - 2. CUBIERTA
 - 1. ESTRUCTURA
 - 0. PLANTA BAJA
 - 1. CIMENTACIÓN
- Ceiling Plans
 - 2. CUBIERTA
 - 1. ESTRUCTURA
 - 0. PLANTA BAJA
 - 1. CIMENTACIÓN
- Structural Plans
 - 2. CUBIERTA**
 - 1. ESTRUCTURA
 - 0. PLANTA BAJA
 - 1. CIMENTACIÓN
- Sections
 - S-01 Building Section
- Elevations
 - East Elevation

Properties

2. CUBIERTA

Custom

1:50

03 Building Plans

Settings...

GRAPHISOFT ID

5. EDITAR ESTRUCTURA
5 cm hormigón
2cm recubrimiento cerámico

1. CREAR NUEVO COMPUESTO

1. Opciones
2. Atributos del elemento
3. Nuevo_Duplicar

Generic Wall/Shell

New...

EDIT SKIN AND LINE STRUCTURE

- Skin and Separator
 - Outside/Top: Solid Line
 - Inside/Bottom: Solid Line
- GENERIC - EXTERIOR
- GENERIC - STRUCTURAL

Name: MURO DE LADRILLO VISTO 30cm

New

Duplicate: Generic Wall/Shell

Total thickness: [m] 0,30

Use with:

Cancel **OK**

0. PLANTA BAJA [0. PLANTA BAJA]

Composites

Generic Wall/Shell

1. Opciones

2. Atributos del elemento

3. Nuevo_Duplicar

0. PLANTA BAJA

- Site
- Floor Plans
 - 2. CUBIERTA
 - 1. ESTRUCTURA
 - 0. PLANTA BAJA**
 - 1. CIMENTACIÓN
- Ceiling Plans
 - 2. CUBIERTA
 - 1. ESTRUCTURA
 - 0. PLANTA BAJA
 - 1. CIMENTACIÓN
- Structural Plans
 - 2. CUBIERTA
 - 1. ESTRUCTURA
 - 0. PLANTA BAJA
 - 1. CIMENTACIÓN
- Sections
 - S-01 Building Section
- Elevations
 - East Elevation

Properties

0. PLANTA BAJA

02 Drafting

1:50

03 Building Plans

EDICIÓN DE ESTRUCTURA DE MURO

DIBUJO DIGITAL.pln

Main: Default Settings Layer: Structural - Bearing Geometry Method: Core Outside Reference Line Location: Structure: Generic Wall/S... Floor Plan and Section: Floor Plan and Section... Linked Stories: 1. ESTRUCTURA (H... 0. PLANTA BAJA (... Bottom and Top: 3,30 0,00

0. PLANTA BAJA [0. PLANTA BAJA] [S-01 Building Section] North Elevation [North Elevation] [A-01 Ground Floor] [3D / All]

Composites

MURO DE LADRILLO VISTO 30cm

New... Rename... Delete...

EDIT SKIN AND LINE STRUCTURE

✓ Skin and Separator	Line Pen	Type	
✓ — Outside/Top: Solid Line	161		
⇅ [Pattern] GENERIC - EXTERNAL CLA...	✓ 161		0,00
✓ — Solid Line	141		
⇅ [Pattern] Brick - Structural	✓ 141		0,30
✓ — Inside/Bottom: Solid Line	141		

Total thickness: [m] 0,30

Insert Skin Remove Skin

Use with: [Icons]

Cancel OK

1

2

A B C

S-01

2. EDITAR ESTRUCTURA
Muro exterior 30 cm, ladrillo visto

- DIBUJO DIGITAL
 - Site
 - Floor Plans
 - 2. CUBIERTA
 - 1. ESTRUCTURA
 - 0. PLANTA BAJA
 - 1. CIMENTACIÓN
 - Ceiling Plans
 - 2. CUBIERTA
 - 1. ESTRUCTURA
 - 0. PLANTA BAJA
 - 1. CIMENTACIÓN
 - Structural Plans
 - 2. CUBIERTA
 - 1. ESTRUCTURA
 - 0. PLANTA BAJA
 - 1. CIMENTACIÓN
 - Sections
 - S-01 Building Secti
 - Elevations
 - East Elevation

Properties

0. PLANTA BAJA

02 Drafting

1:50

03 Building Plans

Settings...

Docume 47% 0° 1:50 02 Drafting Entire Model 03 Architect... 03 Building... No Overrides 00 Show All...

DIBUJO DIGITAL

11

4. COMANDO A UTILIZAR

Herramienta muro

MAMPOSTERÍAS. MURO PERIMETRAL

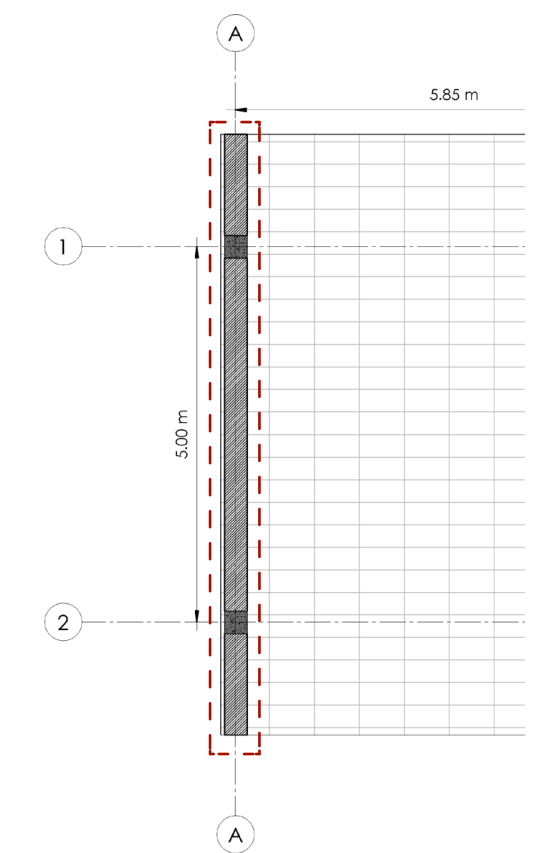
3. PALETA DEL NAVEGADOR

Mapa de vista

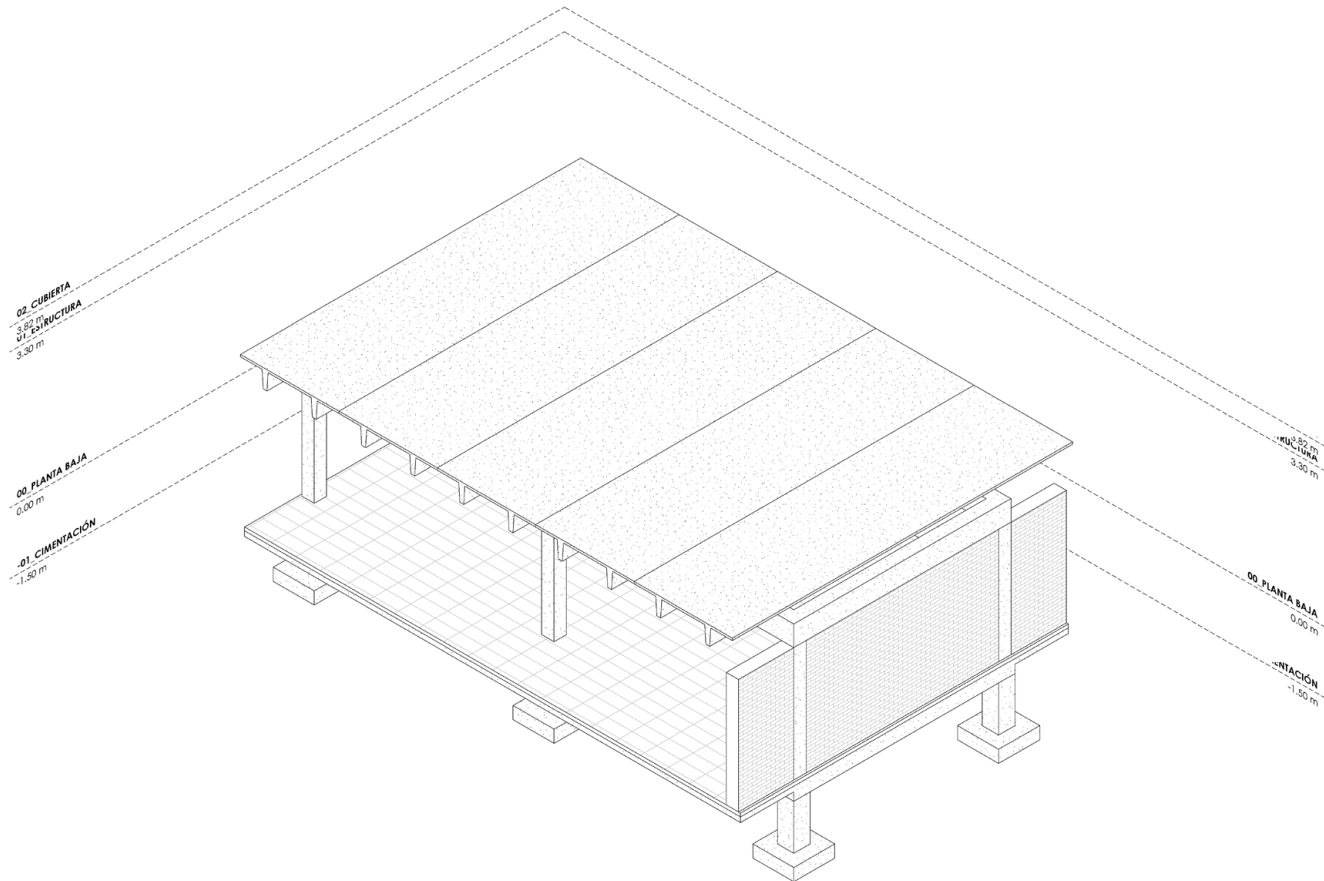
5. CONFIGURAR MURO CREADO Y NIVELES

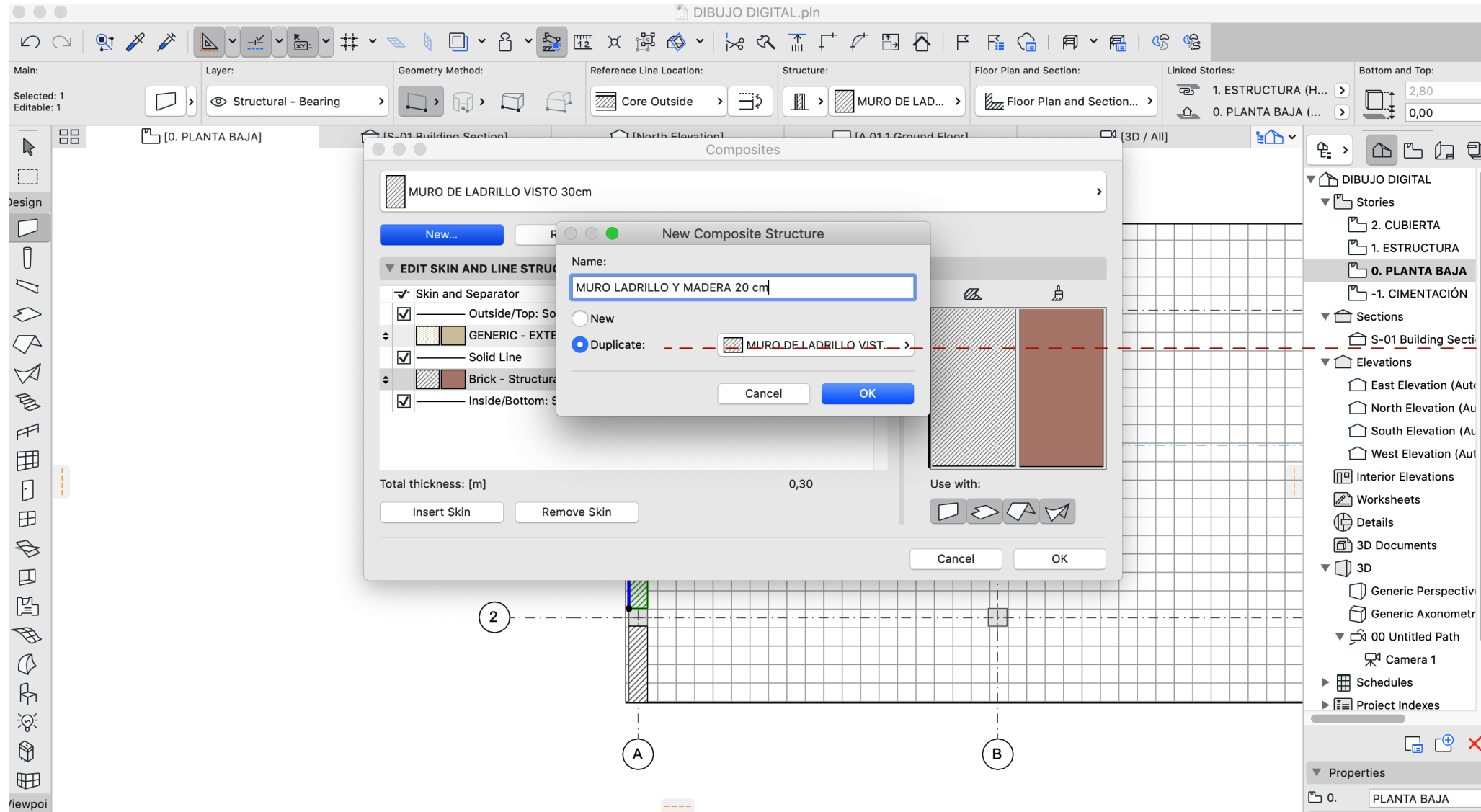
The screenshot displays the software interface for creating a wall. The 'Geometry Method' panel is open, showing the 'Muro de ladrillo visto 30cm' selected. The 'FLOOR PLAN AND SECTION' section is expanded, showing 'FLOOR PLAN DISPLAY' and 'CUT SURFACES' options. The 'Navigator' palette on the right shows the '0. PLANTA BAJA' view selected. The 'Properties' panel at the bottom right shows the current view and settings.

Property	Value
Top Link	1. ESTRUCTURA (Home + 1)
Home Story	0. PLANTA BAJA (Current)
Material	MURO DE LADRILLO VISTO 30cm
Height	2,80
Thickness	0,30
Angle	90,00°
Reference Line	0,00



ELABORACIÓN DE PLANOS CON HERRAMIENTAS BIM





1. DUPLICAR COMPUESTO
COMPUESTO
DUPLICAR
MURO INTERIOR 20CM

EDICIÓN DE ESTRUCTURA DE MURO

DIBUJO DIGITAL.pln

Main: Default Settings Layer: Structural - Bearing Geometry Method: Core Outside Reference Line Location: MURO LADRILLO Y MADERA 20 cm Structure: MURO LADRILLO Y MADERA 20 cm Floor Plan and Section: Floor Plan and Section... Linked Stories: 1. ESTRUCTURA (H... 0. PLANTA BAJA (... Bottom and Top: 3,30 0,00

Design

Composites

MURO LADRILLO Y MADERA 20 cm

New... Rename... Delete...

EDIT SKIN AND LINE STRUCTURE

Skin and Separator	Line Pen	Type
<input checked="" type="checkbox"/> Outside/Top: Solid Line	141	1
<input checked="" type="checkbox"/> Timber - Structural	141	1 > 0,03
<input checked="" type="checkbox"/> Solid Line	141	1
<input checked="" type="checkbox"/> Brick - Structural	141	1 0,14
<input checked="" type="checkbox"/> Solid Line	141	1
<input checked="" type="checkbox"/> Timber - Structural	141	1 0,03
<input checked="" type="checkbox"/> Inside/Bottom: Solid Line	141	1

Total thickness: [m] 0,20

Insert Skin Remove Skin

Use with:

Cancel OK

1

S-01

2

A B C

2. EDITAR ESTRUCTURA
14 cm ladrillo
3cm de madera por cara

DIBUJO DIGITAL

- Stories
 - 2. CUBIERTA
 - 1. ESTRUCTURA
 - 0. PLANTA BAJA
 - 1. CIMENTACIÓN
- Sections
 - S-01 Building Section
- Elevations
 - East Elevation (Auto)
 - North Elevation (Aut)
 - South Elevation (Aut)
 - West Elevation (Aut)
- Interior Elevations
- Worksheets
- Details
- 3D Documents
- 3D
 - Generic Perspective
 - Generic Axonometry
- 00 Untitled Path
 - Camera 1
- Schedules
- Project Indexes

Properties

0. PLANTA BAJA

Settings...

58% 0° 1:50 02 Drafting Entire Model 03 Architect... 03 Building... No Overrides 00 Show All...

DIBUJO DIGITAL

12

4. COMANDO A UTILIZAR

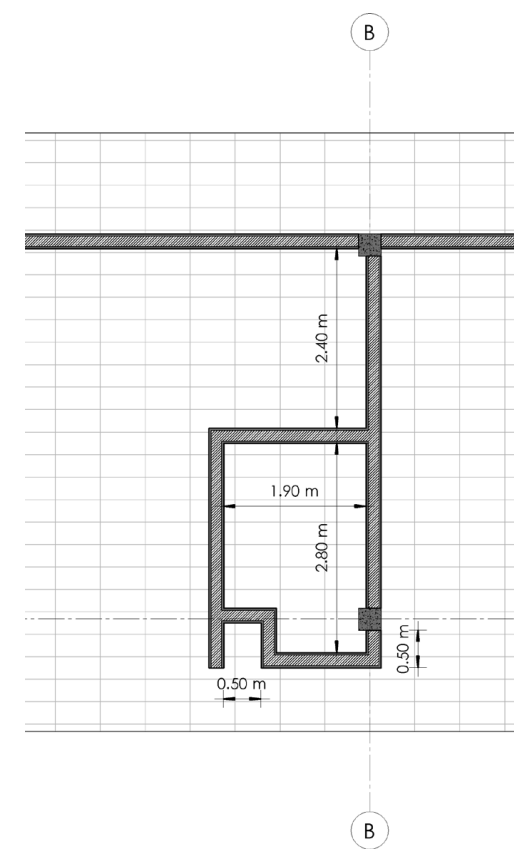
Herramienta muro

MAMPOSTERÍAS. MUROS INTERIORES

3. PALETA DEL NAVEGADOR

Mapa de vista

5. CONFIGURAR MURO CREADO Y NIVELES



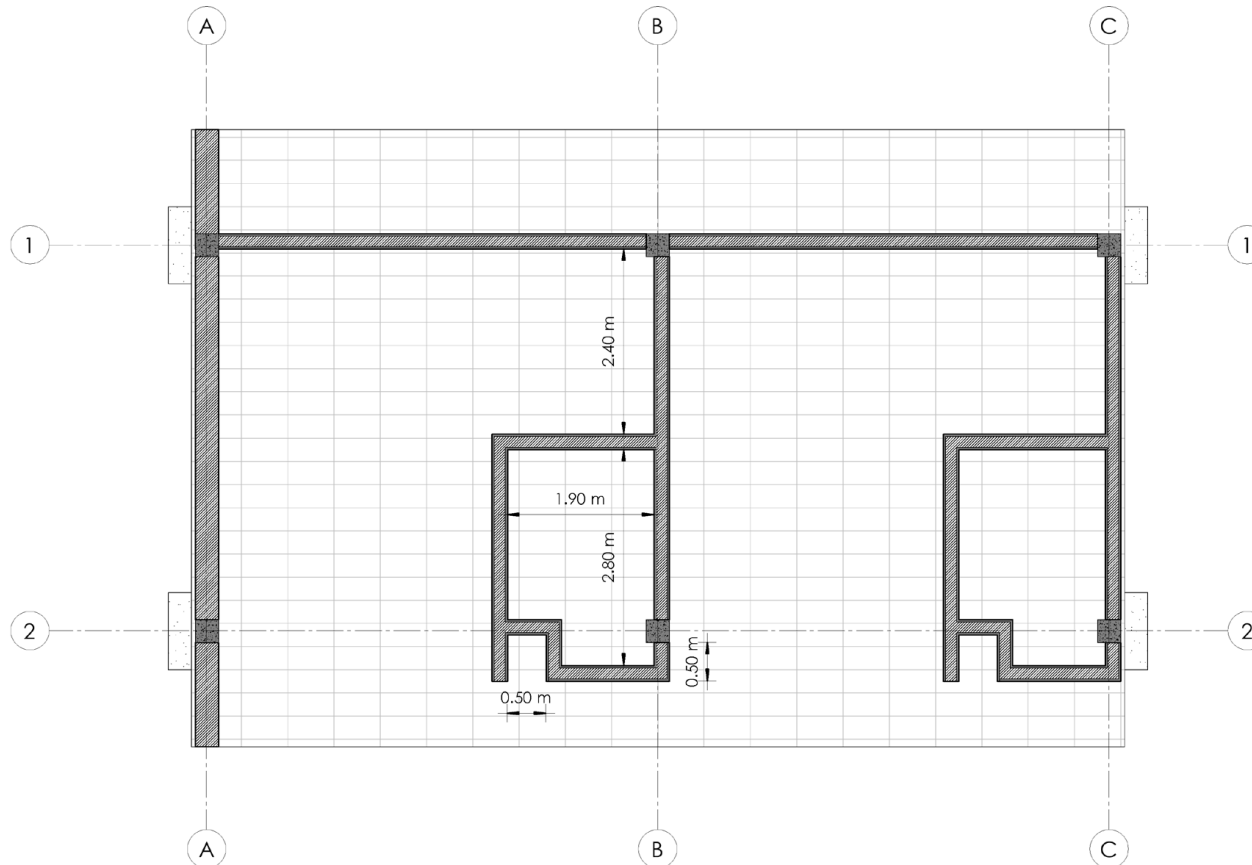
ELABORACIÓN DE PLANOS CON HERRAMIENTAS BIM

The screenshot shows a BIM software interface. On the left is a project tree with the following structure:

- DIBUJO DIGITAL
 - Stories
 - 2. CUBIERTA
 - 1. ESTRUCTURA
 - 0. PLANTA BAJA** (highlighted with a red box)
 - 1. CIMENTACIÓN
 - Sections
 - S-01 Building Section
 - Elevations
 - East Elevation (Auto)
 - North Elevation (Aut)
 - South Elevation (Aut)
 - West Elevation (Aut)
 - Interior Elevations
 - Worksheets
 - Details
 - 3D Documents
 - 3D
 - Generic Perspective
 - Generic Axonometry
 - 00 Untitled Path
 - Camera 1
 - Schedules
 - Project Indexes

At the bottom, the Properties panel shows:

- 0. PLANTA BAJA
- Settings...



2. COMANDO A UTILIZAR

Puerta

4. EDITAR DIMENSIONES

Puerta 1,00x2,40m

CARPINTERÍAS. PUERTAS

1. PALETA DE HERRAMIENTAS

2

3. CAMBIAR PROPIEDADES
Seleccionar las propiedades

A B C

2

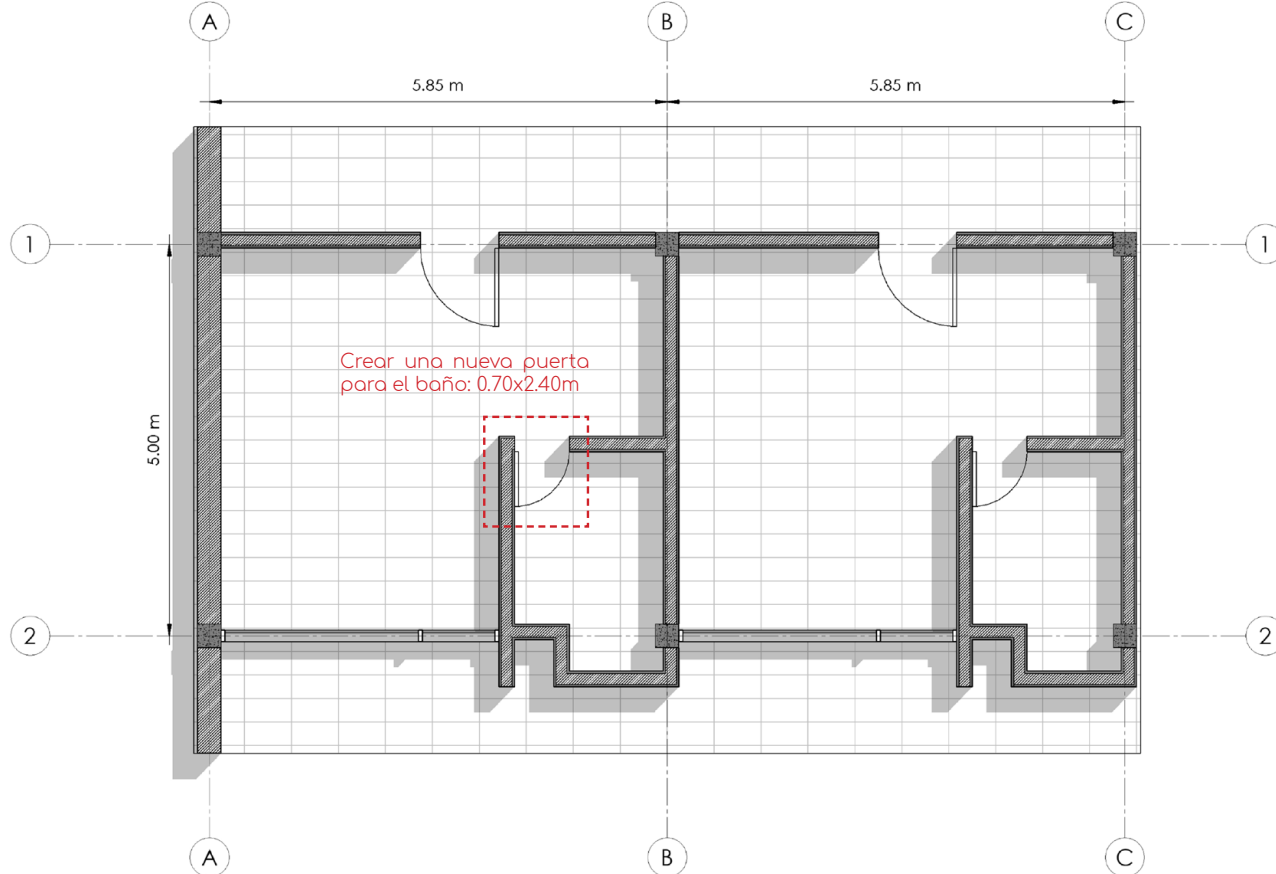
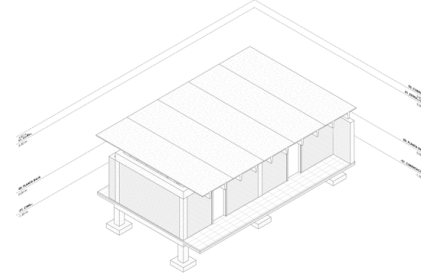
ELABORACIÓN DE PLANOS CON HERRAMIENTAS BIM

The screenshot shows a BIM software interface. On the left is a project tree with the following structure:

- DIBUJO DIGITAL
 - Stories
 - 2. CUBIERTA
 - 1. ESTRUCTURA
 - 0. PLANTA BAJA** (highlighted with a red box)
 - 1. CIMENTACIÓN
 - Sections
 - S-01 Building Sectio
 - Elevations
 - East Elevation (Auto
 - North Elevation (Aut
 - South Elevation (Aut
 - West Elevation (Autc
 - Interior Elevations
 - Worksheets
 - Details
 - 3D Documents
 - 3D
 - Generic Perspective
 - Generic Axonometry
 - 00 Untitled Path
 - Camera 1
 - Schedules
 - Project Indexes

At the bottom, the Properties panel shows:

- 0. PLANTA BAJA
- Settings...



2. COMANDO A UTILIZAR

Ventana

4. EDITAR DIMENSIONES

Ventana 0,50x1,95m

CARPINTERÍAS. VENTANAS

The screenshot displays the ArchiCAD interface with several key elements highlighted:

- 1. PALETA DE HERRAMIENTAS:** A red box on the left side of the interface highlights the 'Window' tool in the 'Design' palette.
- 2. COMANDO A UTILIZAR:** A red dashed box highlights the 'Window' tool icon in the top toolbar.
- 3. CAMBIAR PROPIEDADES:** A red dashed box highlights the 'Window 24' window in the 'Window Default Settings' dialog, with the text 'Seleccionar las propiedades' below it.
- 4. EDITAR DIMENSIONES:** A red dashed box highlights the dimension input fields in the 'Window Default Settings' dialog, showing values of 0,50 and 1,95.

The 'Window Default Settings' dialog for 'Window 24' includes the following sections:

- PREVIEW AND POSITIONING:** Contains preview icons, dimension input fields (0,50 and 1,95), and a preview window.
- BASIC WINDOW SETTINGS:** Includes 'Anchors' (Sill to Story 0, 0,15), 'Reveal to Wall Core' (0,00), and window style icons.
- FLOOR PLAN AND SECTION:** Includes icons for floor plan and section views.
- DIMENSION MARKER:** Includes 'MARKER TEXT STYLE' and 'MARKER CUSTOM SETTINGS'.
- CLASSIFICATION AND PROPERTIES:** Includes 'Classification' and 'Properties' sections.

The background shows a floor plan with a window being placed on a wall. The 'Properties' panel on the right shows the current window type as 'Window 24'.

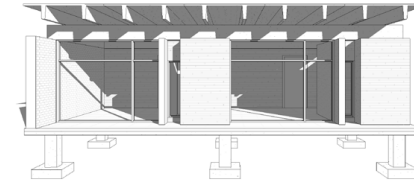
ELABORACIÓN DE PLANOS CON HERRAMIENTAS BIM

The screenshot shows a BIM software interface. On the left is a project tree with the following structure:

- DIBUJO DIGITAL
 - Stories
 - 2. CUBIERTA
 - 1. ESTRUCTURA
 - 0. PLANTA BAJA** (highlighted with a red box)
 - 1. CIMENTACIÓN
 - Sections
 - S-01 Building Sectio
 - Elevations
 - East Elevation (Auto
 - North Elevation (Aut
 - South Elevation (Aut
 - West Elevation (Autc
 - Interior Elevations
 - Worksheets
 - Details
 - 3D Documents
 - 3D
 - Generic Perspective
 - Generic Axonometry
 - 00 Untitled Path
 - Camera 1
 - Schedules
 - Project Indexes

At the bottom, the Properties panel shows:

- 0. PLANTA BAJA
- Settings...



15 2. COMANDO A UTILIZAR Muro cortina

3. MÉTODO DE DIBUJAR LOS MUROS

Considerar que los muros deben recortarse en el encuentro con la estructura.

1. PALETA DE HERRAMIENTAS

2. COMANDO A UTILIZAR

3. MÉTODO DE DIBUJAR LOS MUROS

4. CONFIGURAR LAS PROPIEDADES Y DIMENSIONES DEL MURO CORTINA

GRID PATTERN AND PREVIEW

Columns:

#	Width
A	0,90
B	1,75
C	0,90

Rows:

#	Height
1	0,40
2	2,00
3	0,40

PATTERN ORIGIN

Start with Pattern: 0,00

Start from Bottom: 0,00

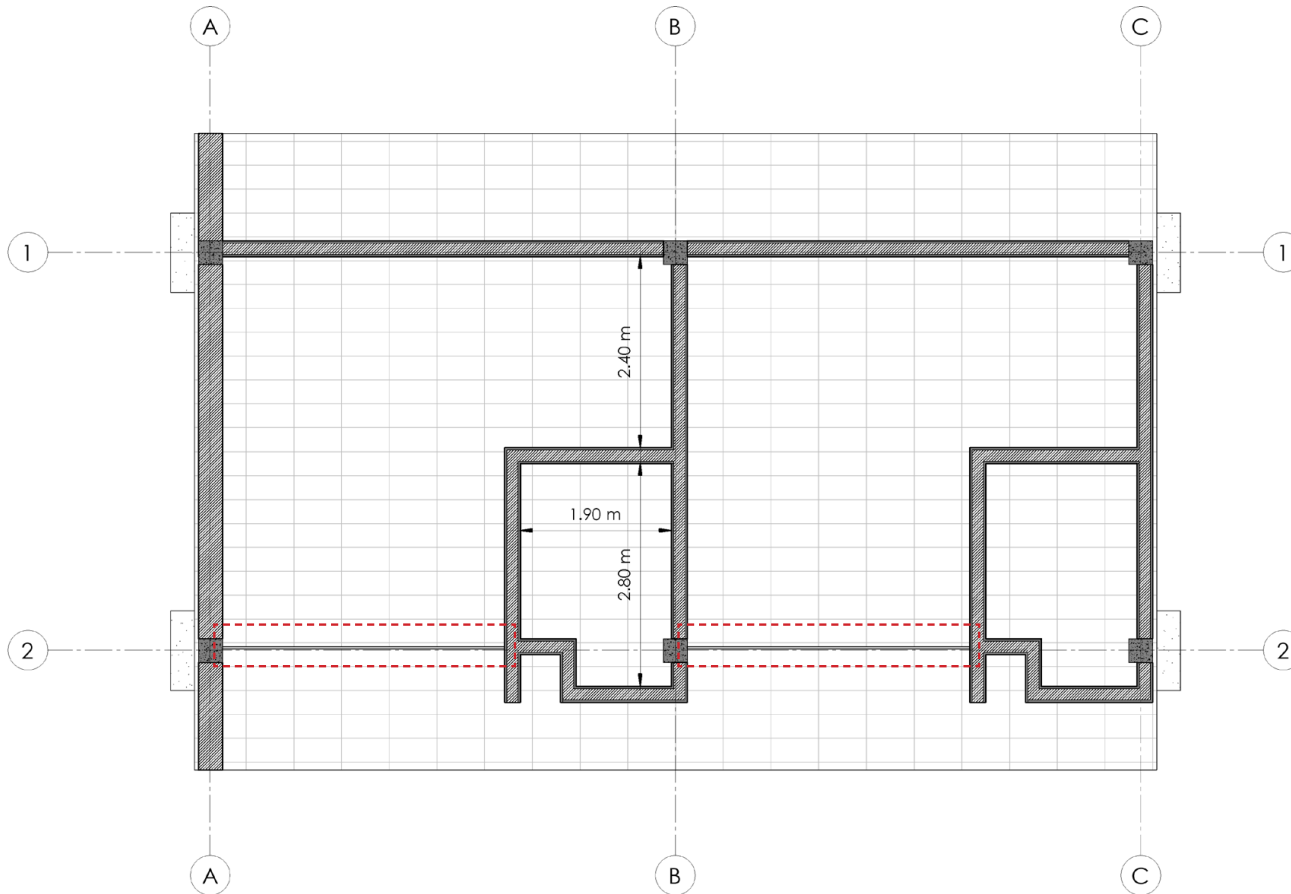
ELABORACIÓN DE PLANOS CON HERRAMIENTAS BIM

The screenshot shows a BIM software interface. On the left is a project tree with the following structure:

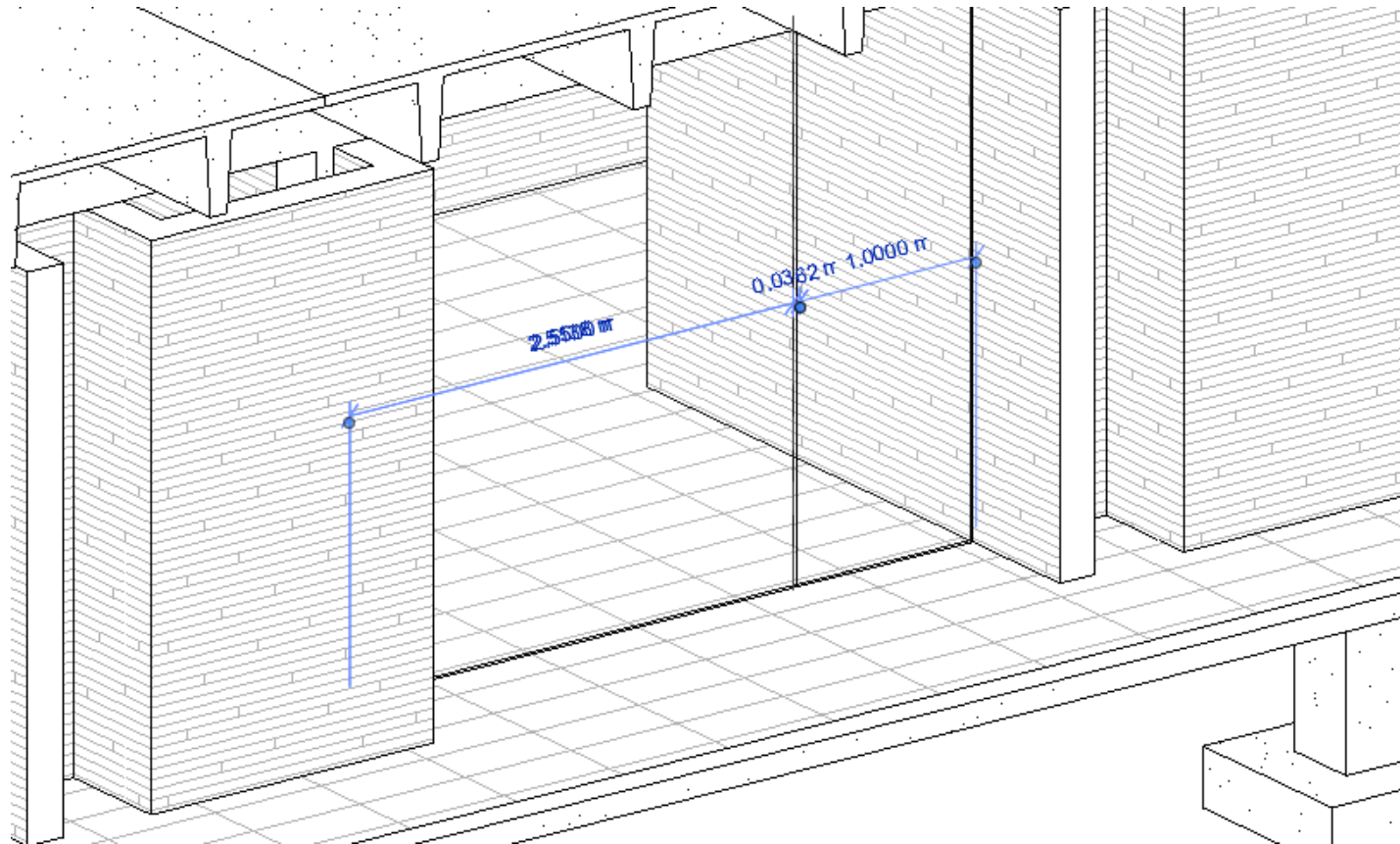
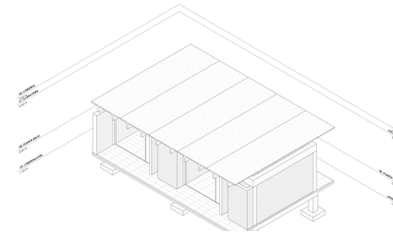
- DIBUJO DIGITAL
 - Stories
 - 2. CUBIERTA
 - 1. ESTRUCTURA
 - 0. PLANTA BAJA** (highlighted with a red box)
 - 1. CIMENTACIÓN
 - Sections
 - S-01 Building Sectio
 - Elevations
 - East Elevation (Auto
 - North Elevation (Aut
 - South Elevation (Aut
 - West Elevation (Aut
 - Interior Elevations
 - Worksheets
 - Details
 - 3D Documents
 - 3D
 - Generic Perspective
 - Generic Axonometry
 - 00 Untitled Path
 - Camera 1
 - Schedules
 - Project Indexes

At the bottom, the Properties panel shows:

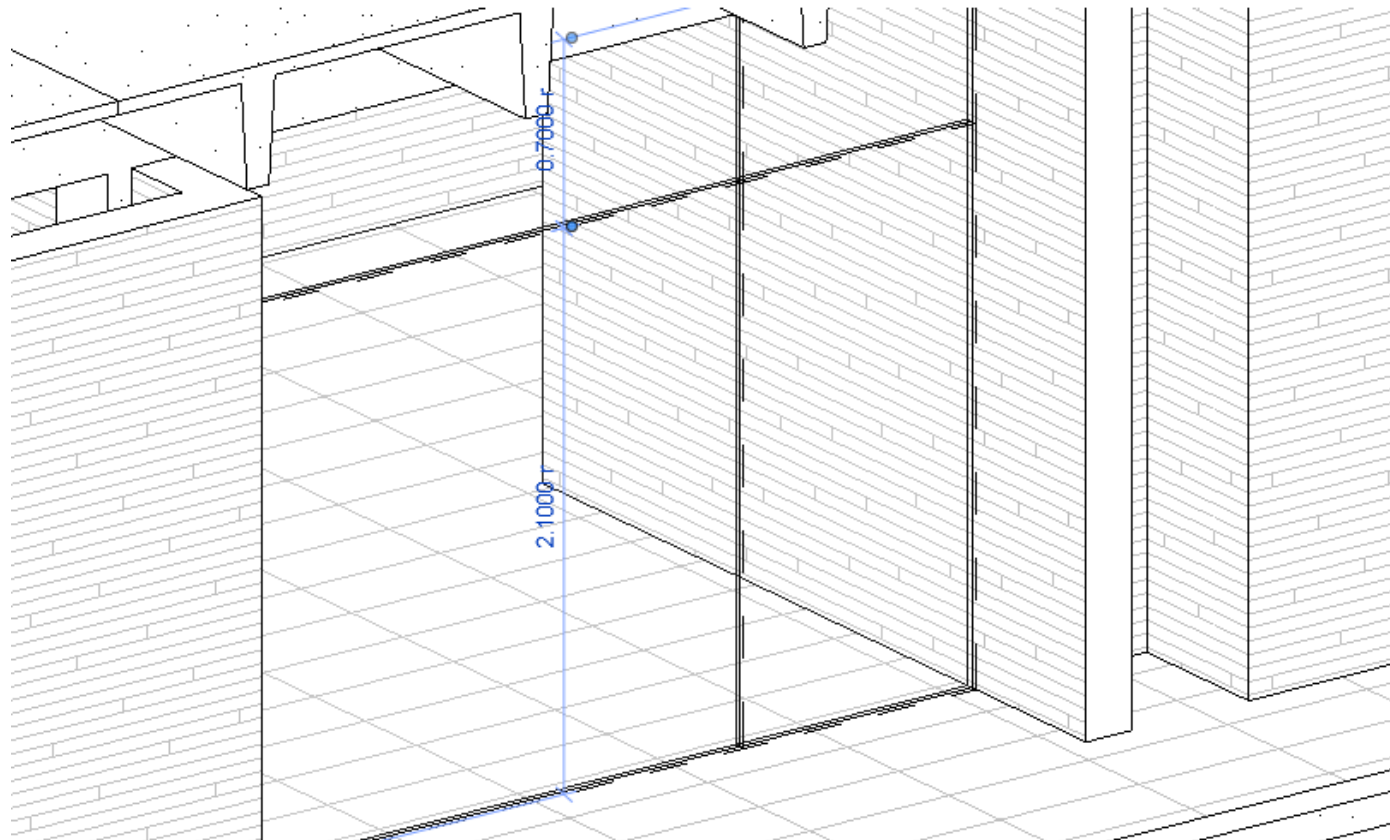
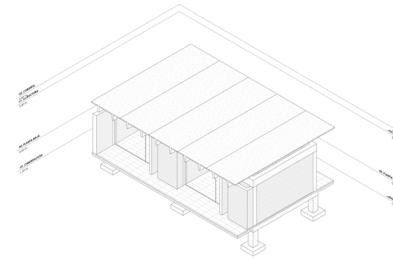
- 0. PLANTA BAJA
- Settings...



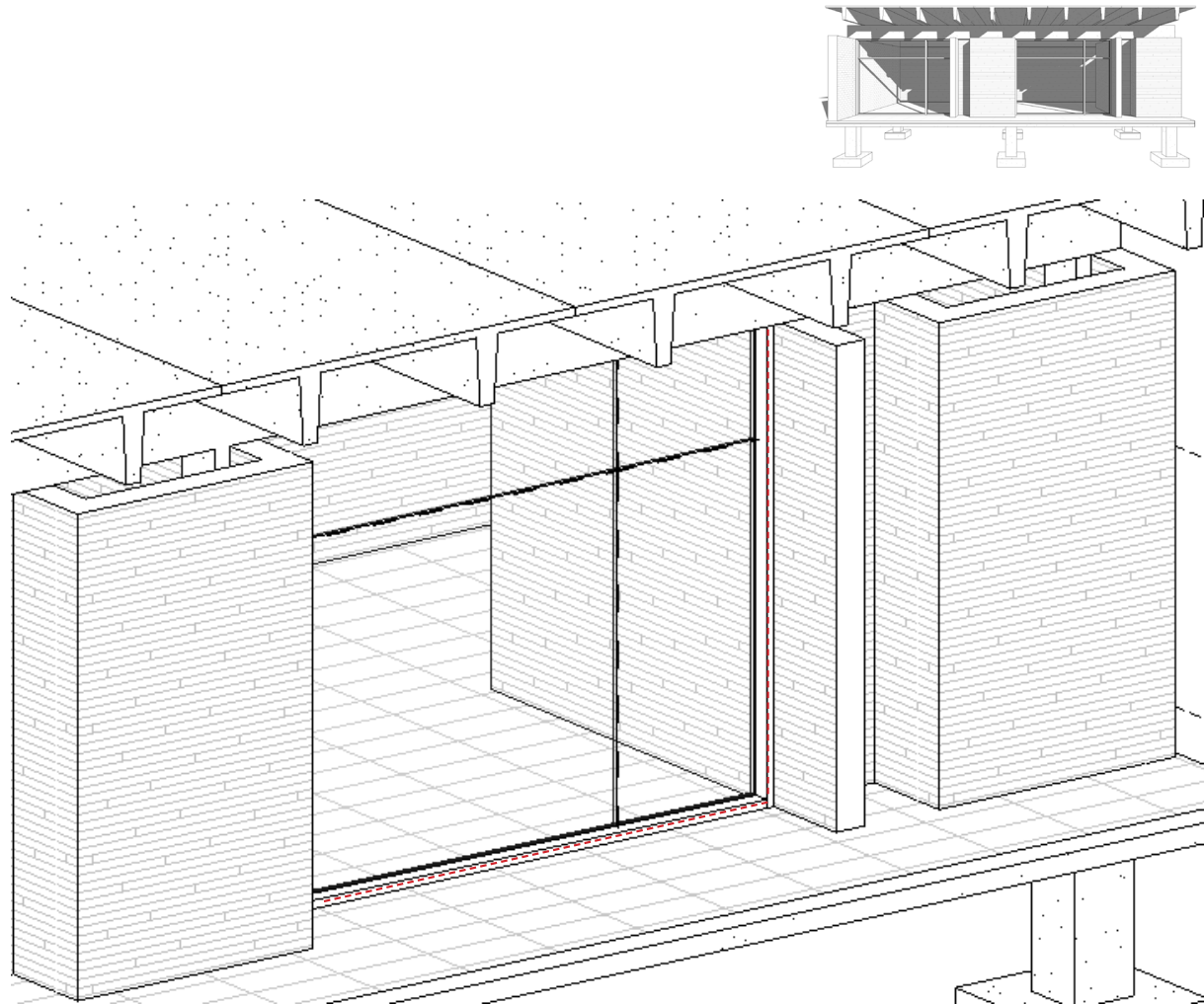
ELABORACIÓN DE PLANOS CON HERRAMIENTAS BIM



ELABORACIÓN DE PLANOS CON HERRAMIENTAS BIM



ELABORACIÓN DE PLANOS CON HERRAMIENTAS BIM



DIBUJO DIGITAL

16

2. COMANDO A UTILIZAR Objeto

4. CAMBIAR PROPIEDADES Revisar dimensiones

MOBILIARIO

1. PALETA DE HERRAMIENTAS

2. COMANDO A UTILIZAR Objeto

3. SELLECCIONAR Tipo de cama

4. CAMBIAR PROPIEDADES Revisar dimensiones

Object Default Settings

Bed Double 04 24 Default

PREVIEW AND POSITIONING

0,10

Home Story: 0. PLANTA BAJA (Current)

to Project Zero

0,10

1,90

2,20

0,90

1,90 x 2,20

Relative 45,00°

BED SETTINGS

Dimensions...

Mattress Foot board

Pillow Legs Drawers

0,70 0,90 0,20 0,30

FLOOR PLAN AND SECTION

MODEL

CLASSIFICATION AND PROPERTIES

Interior - Furniture

Cancel OK

MOBILIARIO

Size: 7,60 2,40

DIBUJO DIGITAL

- Site
- Floor Plans
 - 2. CUBIERTA
 - 1. ESTRUCTURA
 - 0. PLANTA BAJA
 - 1. CIMENTACIÓN
- Ceiling Plans
 - 2. CUBIERTA
 - 1. ESTRUCTURA
 - 0. PLANTA BAJA
 - 1. CIMENTACIÓN
- Structural Plans
 - 2. CUBIERTA
 - 1. ESTRUCTURA
 - 0. PLANTA BAJA
 - 1. CIMENTACIÓN
- Sections
- Elevations
 - East Elevation
 - North Elevation

Properties

- 0. PLANTA BAJA
- 02 Drafting
- 1:50
- 03 Building Plans

Settings...

GRAPHISOFT ID

ELABORACIÓN DE PLANOS CON HERRAMIENTAS BIM

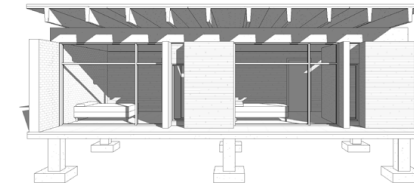
DIBUJO DIGITAL

- Stories
 - 2. CUBIERTA
 - 1. ESTRUCTURA
 - 0. PLANTA BAJA**
 - 1. CIMENTACIÓN
- Sections
 - S-01 Building Sectio
- Elevations
 - East Elevation (Auto
 - North Elevation (Aut
 - South Elevation (Aut
 - West Elevation (Aut
- Interior Elevations
- Worksheets
- Details
- 3D Documents
- 3D
 - Generic Perspective
 - Generic Axonometry
- 00 Untitled Path
 - Camera 1
- Schedules
- Project Indexes

Properties

0. PLANTA BAJA

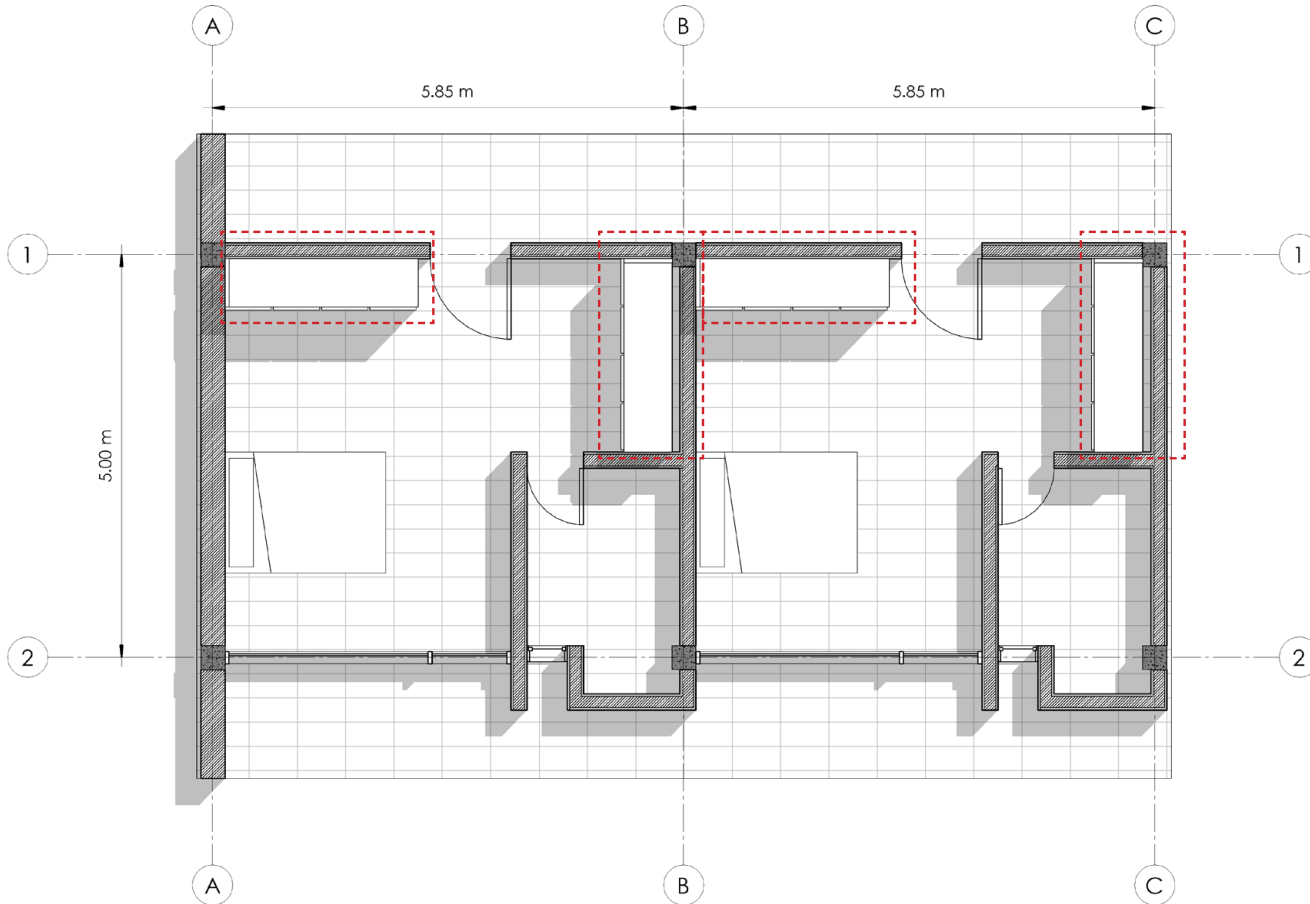
Settings...



DIBUJO DIGITAL

16

MOBILIARIO



ELABORACIÓN DE PLANOS CON HERRAMIENTAS BIM

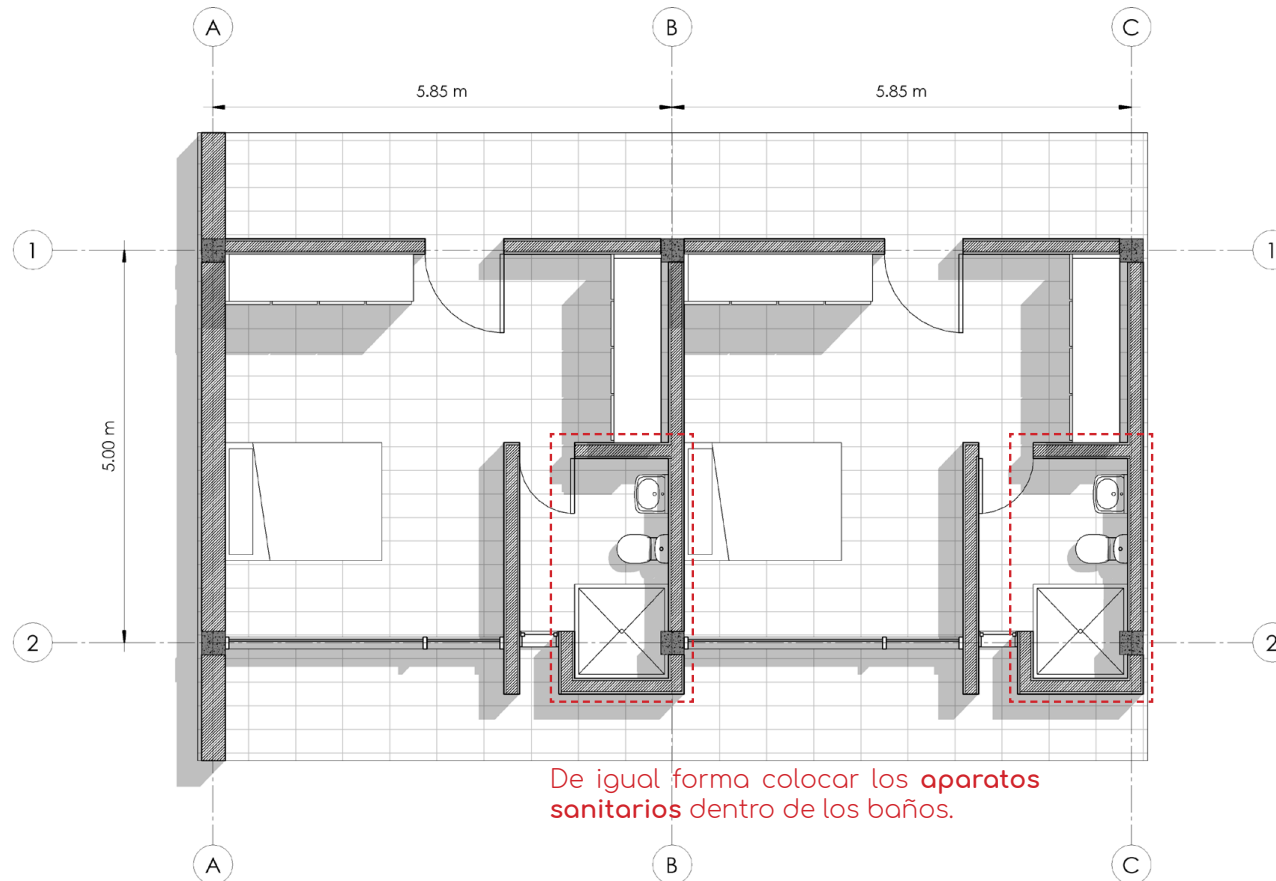
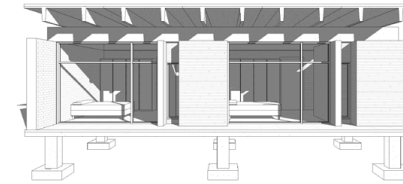
DIBUJO DIGITAL

- Stories
 - 2. CUBIERTA
 - 1. ESTRUCTURA
 - 0. PLANTA BAJA**
 - 1. CIMENTACIÓN
- Sections
 - S-01 Building Sectio
- Elevations
 - East Elevation (Auto
 - North Elevation (Aut
 - South Elevation (Aut
 - West Elevation (Aut
- Interior Elevations
- Worksheets
- Details
- 3D Documents
- 3D
 - Generic Perspective
 - Generic Axonometry
- 00 Untitled Path
 - Camera 1
- Schedules
- Project Indexes

Properties

0. PLANTA BAJA

Settings...

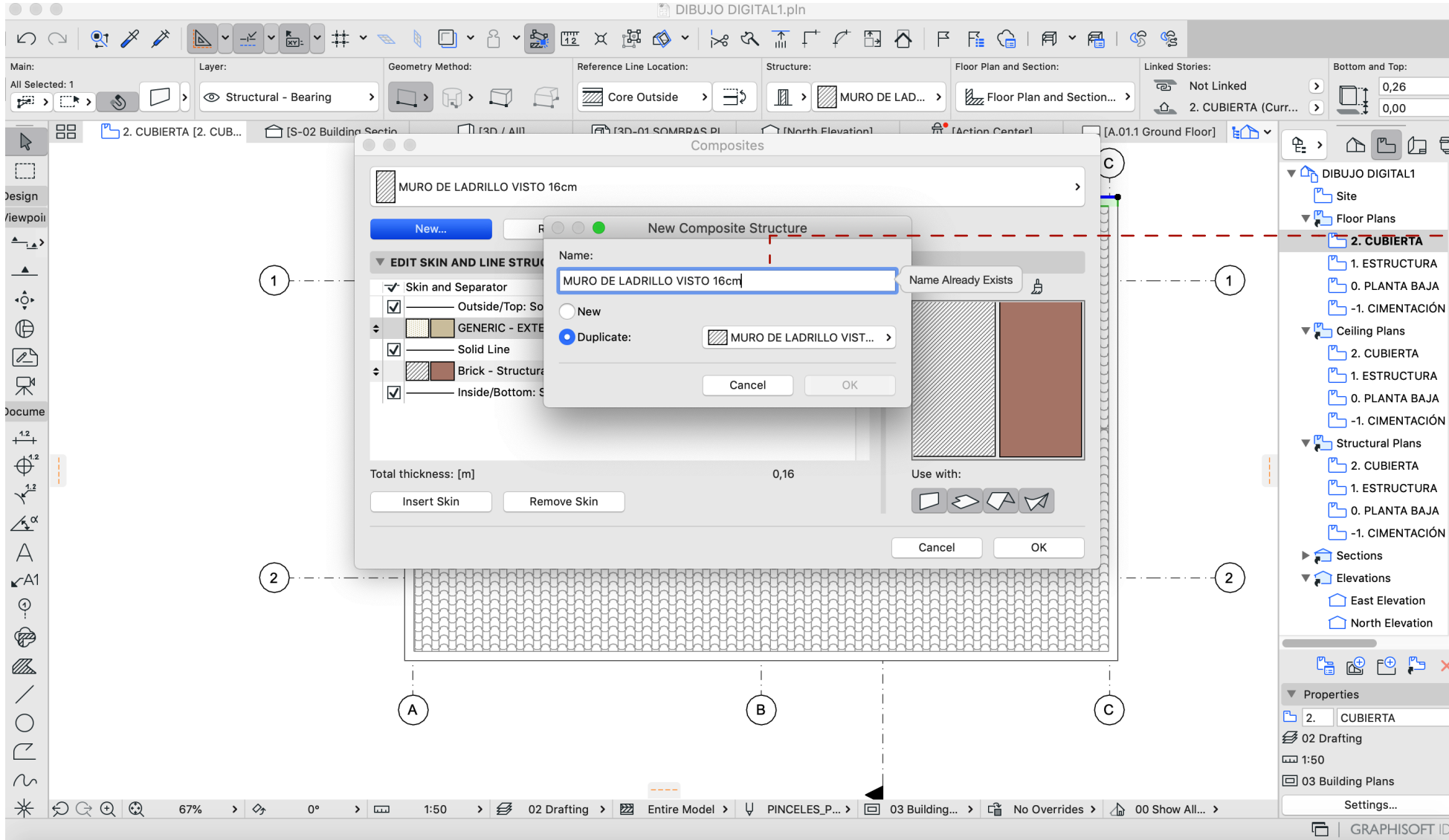


De igual forma colocar los **aparatos sanitarios** dentro de los baños.

DIBUJO DIGITAL

17

CUBIERTA



1. CONFIGURAR UN NUEVO MURO DE LADRILLO VISTO

Considerar que este muros debe tener un espesor de 16cm

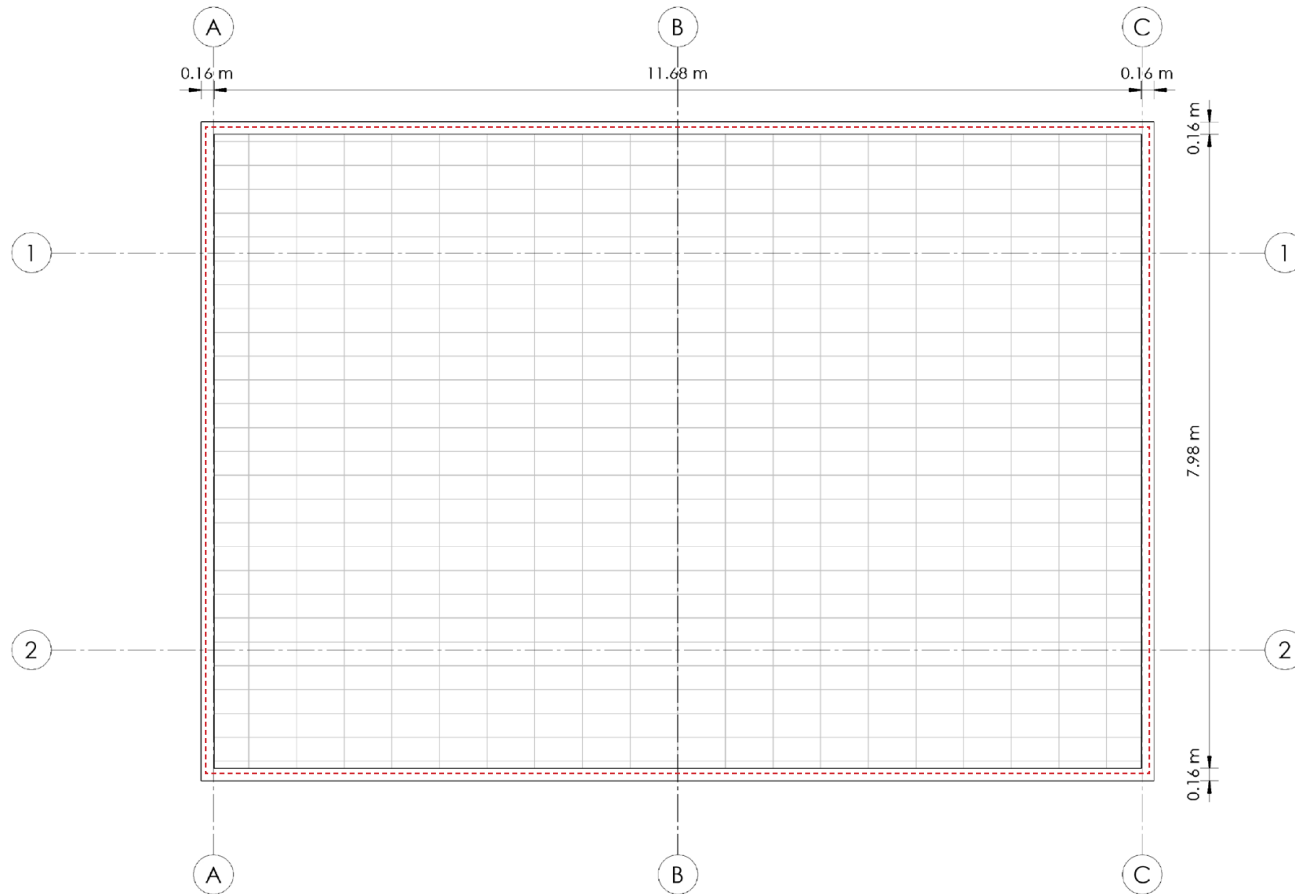
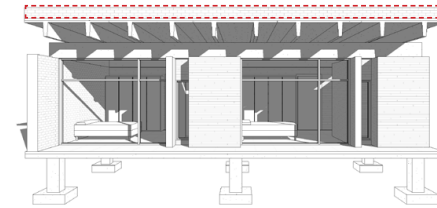
ELABORACIÓN DE PLANOS CON HERRAMIENTAS BIM

The screenshot shows a BIM software interface. On the left is a project tree with the following structure:

- DIBUJO DIGITAL1
 - Site
 - Floor Plans
 - 2. CUBIERTA** (highlighted)
 - 1. ESTRUCTURA
 - 0. PLANTA BAJA
 - 1. CIMENTACIÓN
 - Ceiling Plans
 - 2. CUBIERTA
 - 1. ESTRUCTURA
 - 0. PLANTA BAJA
 - 1. CIMENTACIÓN
 - Structural Plans
 - 2. CUBIERTA
 - 1. ESTRUCTURA
 - 0. PLANTA BAJA
 - 1. CIMENTACIÓN
 - Sections
 - Elevations
 - East Elevation
 - North Elevation

At the bottom, there is a Properties panel with the following information:

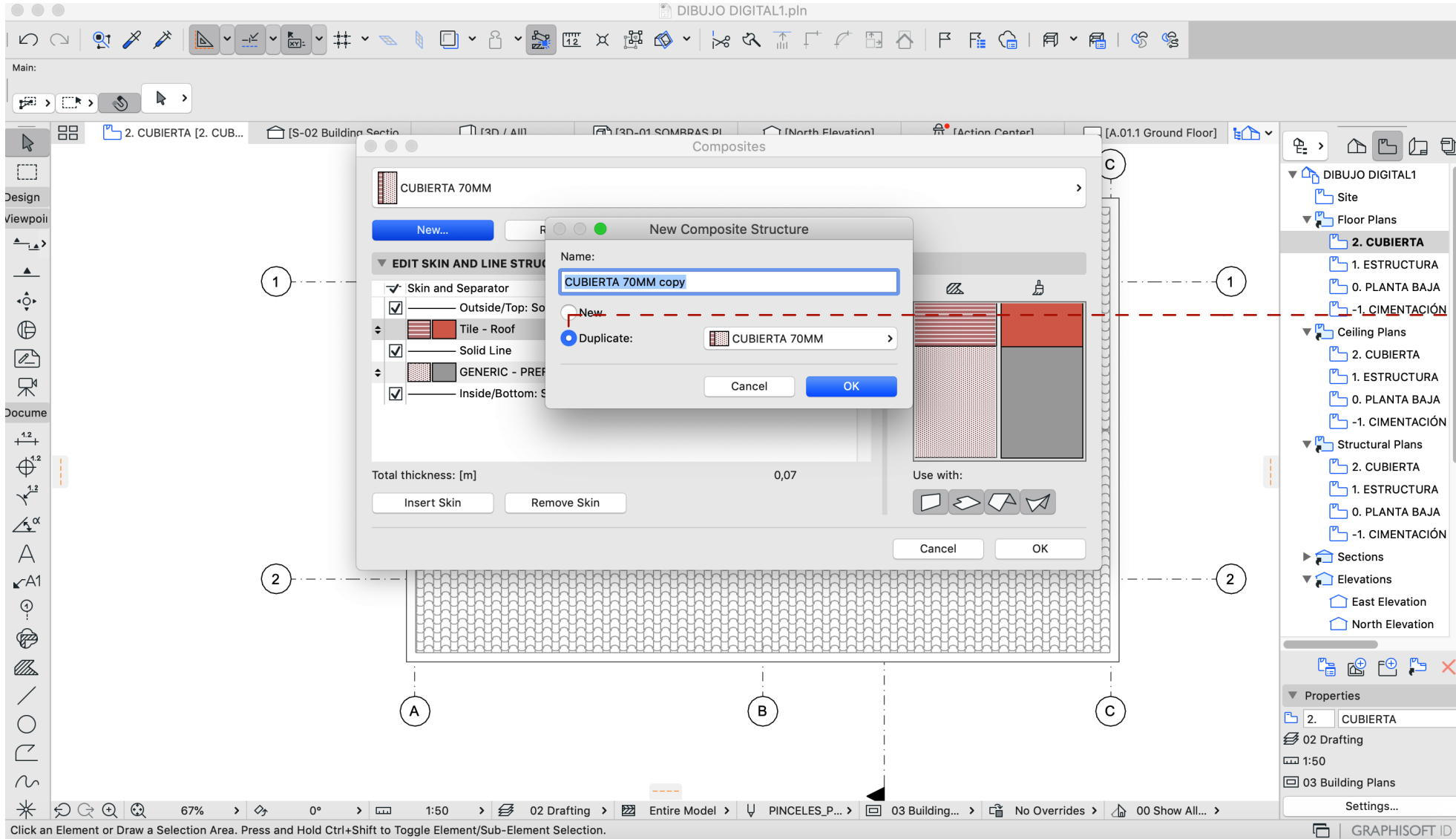
- 2. CUBIERTA
- 02 Drafting
- 1:50
- 03 Building Plans
- Settings...



DIBUJO DIGITAL

17

CUBIERTA. PENDIENTE



- 1. DUPLICAR COMPUESTO
- COMPUESTO
- DUPLICAR
- CUBIERTA 70mm

EDICIÓN DE ESTRUCTURA DE CUBIERTA

DIBUJO DIGITAL1.pln

Main: All Selected: 1

Layer: Structural - Bearing

Geometry Method: Core Outside

Reference Line Location: MURO DE LAD...

Structure: Floor Plan and Section...

Floor Plan and Section: Not Linked

Linked Stories: 2. CUBIERTA (Curr...)

Bottom and Top: 0,26, 0,00

Composites

CUBIERTA 70MM

New... Rename... Delete...

EDIT SKIN AND LINE STRUCTURE

Skin and Separator	Line Pen	Type
<input checked="" type="checkbox"/> Outside/Top: Solid Line	141	
<input checked="" type="checkbox"/> Tile - Roof	141	0,02
<input checked="" type="checkbox"/> Solid Line	141	
<input checked="" type="checkbox"/> GENERIC - PREFABRICATED	161	0,05
<input checked="" type="checkbox"/> Inside/Bottom: Solid Line	161	

Total thickness: [m] 0,07

Insert Skin Remove Skin

Use with:

Cancel OK

1 2 A B C

DIBUJO DIGITAL1

- Site
- Floor Plans
 - 2. CUBIERTA
 - 1. ESTRUCTURA
 - 0. PLANTA BAJA
 - 1. CIMENTACIÓN
 - Ceiling Plans
 - 2. CUBIERTA
 - 1. ESTRUCTURA
 - 0. PLANTA BAJA
 - 1. CIMENTACIÓN
 - Structural Plans
 - 2. CUBIERTA
 - 1. ESTRUCTURA
 - 0. PLANTA BAJA
 - 1. CIMENTACIÓN
 - Sections
 - Elevations
 - East Elevation
 - North Elevation

Properties

2. CUBIERTA

02 Drafting

1:50

03 Building Plans

Settings...

GRAPHISOFT ID

2. EDITAR ESTRUCTURA

5 cm chapa de hormigón
2cm recubrimiento cerámico

DIBUJO DIGITAL

17

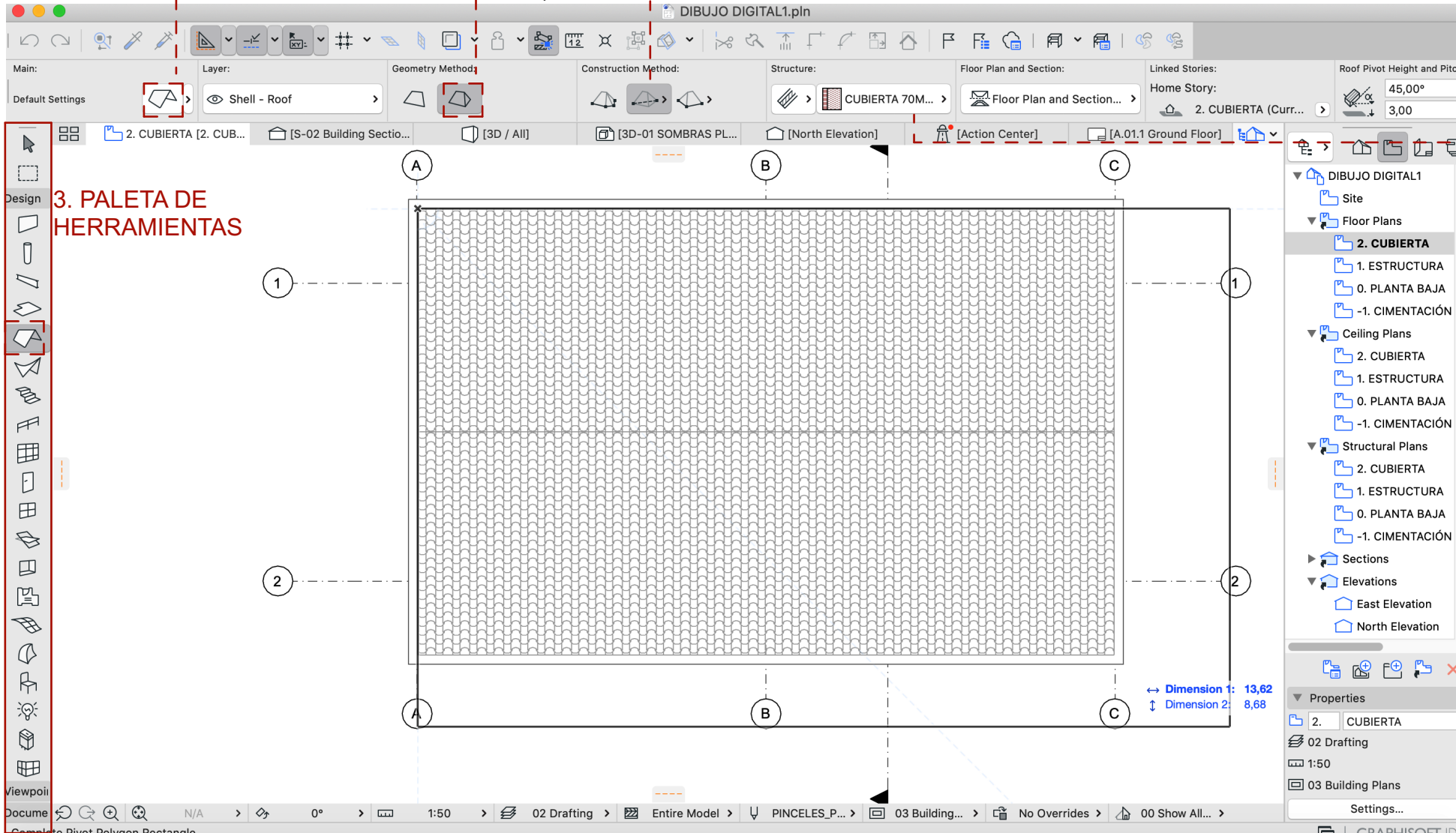
4. COMANDO A UTILIZAR

Cubierta

5. MÉTODO DE DIBUJAR LAS CUBIERTAS EN PENDIENTE

Considerar las líneas que definen pendiente dentro de la cubierta

CUBIERTA. PENDIENTE



3. PALETA DE HERRAMIENTAS

6. CUBIERTA EDITADA

5 cm chapa de hormigón
2cm recubrimiento cerámico

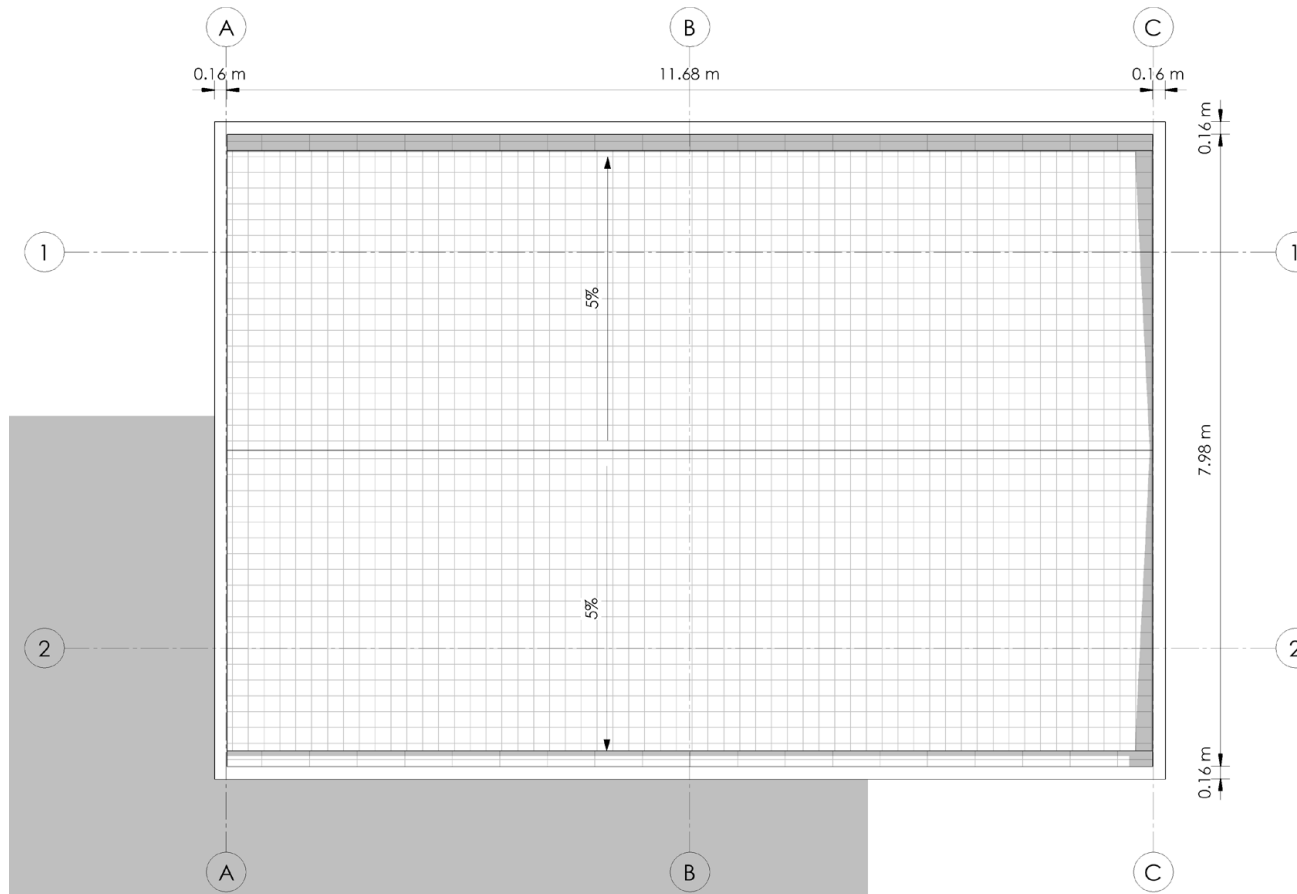
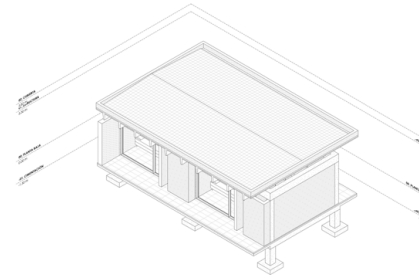
ELABORACIÓN DE PLANOS CON HERRAMIENTAS BIM

The screenshot shows a BIM software interface. On the left is a project tree with the following structure:

- DIBUJO DIGITAL1
 - Site
 - Floor Plans
 - 2. CUBIERTA** (highlighted with a red box)
 - 1. ESTRUCTURA
 - 0. PLANTA BAJA
 - 1. CIMENTACIÓN
 - Ceiling Plans
 - 2. CUBIERTA
 - 1. ESTRUCTURA
 - 0. PLANTA BAJA
 - 1. CIMENTACIÓN
 - Structural Plans
 - 2. CUBIERTA
 - 1. ESTRUCTURA
 - 0. PLANTA BAJA
 - 1. CIMENTACIÓN
 - Sections
 - Elevations
 - East Elevation
 - North Elevation

At the bottom, there is a Properties panel with the following information:

- 2. CUBIERTA
- 02 Drafting
- 1:50
- 03 Building Plans
- Settings...



DIBUJO DIGITAL

18

2. COMANDO A UTILIZAR
Acotación

ACOTACIONES

The screenshot displays the ARCHICAD interface with a technical drawing of a building section. A red box highlights the dimensioning tool in the top toolbar, labeled '1. PALETA DE HERRAMIENTAS'. Another red box highlights the dimensioning tool in the left toolbar, labeled '2. COMANDO A UTILIZAR Acotación'. A 'Dimension Default Settings' dialog box is open, showing various configuration options for dimensioning, such as 'DIMENSION TYPE', 'TEXT STYLE', and 'MARKER AND WITNESS LINE OPTIONS'. The dialog box is set to 'Default' and includes fields for 'Marker Type' (set to 45), 'Witness Line' (set to 85), 'Text Style' (Arial), 'Font Size' (2,00 mm), and 'Marker Size' (1,25 mm). The background drawing shows a section with grid lines A, B, and C, and dimensions 1 and 2. The bottom status bar shows 'Enter First Dimension Node Point.'

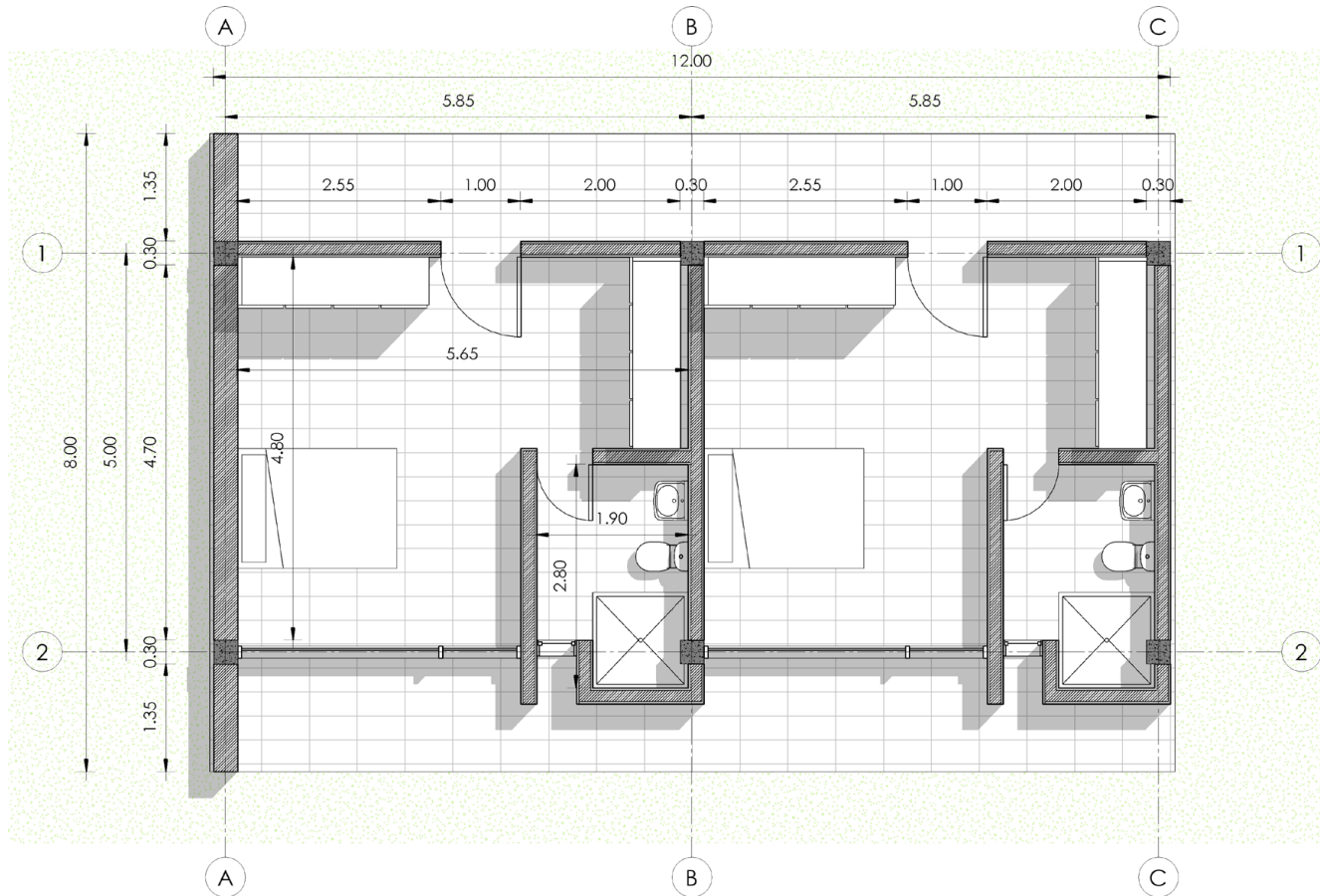
En esta paleta de herramientas encontramos todas las funciones de acotaciones para plantas y elevaciones dentro del ARCHICAD. Considerar el orden de las cotas desde las totales, las de la rejilla estructural y finalmente las de los elementos arquitectónicos como muros, puertas y ventanas

ELABORACIÓN DE PLANOS CON HERRAMIENTAS BIM

The screenshot shows the left-hand navigation pane of a BIM software application. The tree structure is as follows:

- DIBUJO DIGITAL
 - Stories
 - 2. CUBIERTA
 - 1. ESTRUCTURA
 - 0. PLANTA BAJA** (highlighted with a red box)
 - 1. CIMENTACIÓN
 - Sections
 - S-01 Building Sectio
 - Elevations
 - East Elevation (Auto
 - North Elevation (Aut
 - South Elevation (Aut
 - West Elevation (Autc
 - Interior Elevations
 - Worksheets
 - Details
 - 3D Documents
 - 3D
 - Generic Perspective
 - Generic Axonometry
 - 00 Untitled Path
 - Camera 1
 - Schedules
 - Project Indexes

At the bottom, the Properties panel shows the current selection as '0. PLANTA BAJA'.



DIBUJO DIGITAL

19

CONFIGURAR ELEVACIONES

Modos de visualización de los modelos en ARCHICAD

SOMBRAS

Elevation Selection Settings

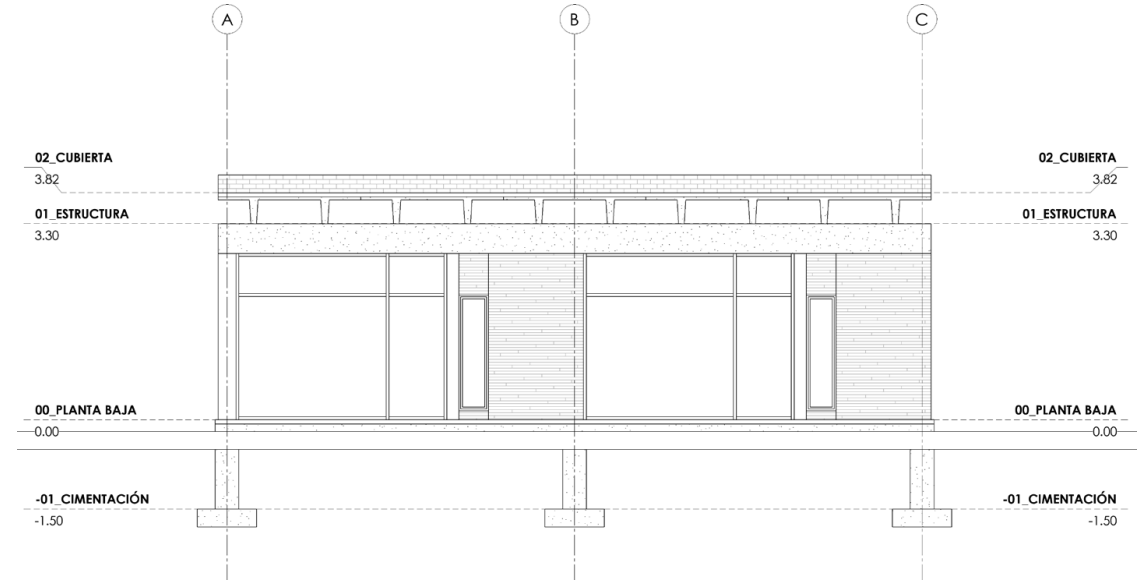
Selected: 4 Editable: 4



- ▶ GENERAL
- ▶ MARKER
- ▶ MARKER TEXT STYLE
- ▶ MARKER SYMBOL AND TEXT
- ▼ MODEL DISPLAY
 - Uncut Elements Pen 0.15 mm 2
 - Vectorial 3D Hatching
 - Transparency
 - ▼ SUN AND SHADOWS
 - Viewpoint Sun Settings Custom
 - Sun Azimuth 45,00°
 - Sun Altitude 45,00°
 - Sun Shadow
 - Shadow Polygons 25 %
 - Fill Pen 0.15 mm 2
 - Fill Background Pen Transparent 0
 - ▼ MARKED DISTANT AREA
 - Fill Uncut Surfaces with: Uniform Pen Color
 - Uncut Surfaces Pen Window Background -1
 - Uniform Pen for Uncut Elements
 - Uncut Elements Pen 0.05 mm 120
 - Vectorial 3D Hatching
 - Sun Shadow
 - Shadow Polygons 25 %
 - Fill Pen Fill Type: 25 % 81
 - Fill Background Pen Transparent 0
 - ▼ ELEMENT CONTOURS AT ELEVATION BOUNDARY
 - Add Element Contours: None
 - ▶ STORY LEVELS
 - ▶ STORY LEVELS TEXT STYLE
 - ▶ STORY LEVELS SYMBOL AND TEXT
 - ▶ GRID TOOL

ACTIVAR AREA DISTANTE MARCADA
Poner una pluma mas fina que las anteriores y con un gris mas bajo

ACTIVAR AREA SOLAR PARA EL AREA DISTANTE MARCADA



1. PALETA DE HERRAMIENTAS



CONFIGURAR SECCIONES

2. COMANDO A UTILIZAR Sección

Section Selection Settings

Selected: 1 Editable: 1

GENERAL

Reference ID: S-01

Name: Building Section

Source marker

with Marker Reference to: The viewpoint

Reference to: \Sections\S-01 Building Section (Auto-rebuild Model)

Status: Auto-rebuild Model

Show on Stories: All

Horizontal Range: Infinite Limited Zero Depth

Vertical Range: Infinite Limited

to Project Zero

6,00

0,00

MARKER

MARKER TEXT STYLE

MARKER SYMBOL AND TEXT

MODEL DISPLAY

STORY LEVELS

STORY LEVELS TEXT STYLE

STORY LEVELS SYMBOL AND TEXT

GRID TOOL

Marker - Section

Cancel

OK

Name and ID: S-01

Marker Type: Source marker

With Marker reference to: The viewpoint

Building Section

[A.02.1 E-01 North El...

DIBUJO DIGITAL2m

- Stories
 - 2. CUBIERTA
 - 1. ESTRUCTURA
 - 0. PLANTA BAJA
 - 1. CIMENTACIÓN
- Sections
 - S-01 Building Section (A
- Elevations
 - East Elevation (Auto-reb
 - North Elevation (Auto-re
 - South Elevation (Auto-re
 - West Elevation (Auto-ret
- Interior Elevations
- Worksheets
- Details
- 3D Documents
 - 3D-01 SOMBRAS PLANT
- 3D
 - Generic Perspective
 - Generic Axonometry
- 00 Untitled Path
 - Camera 1
- Schedules

Properties








0. PLANTA BAJA

Settings...

GRAPHISOFT ID

Section Selection Settings

Selected: 1 Editable: 1

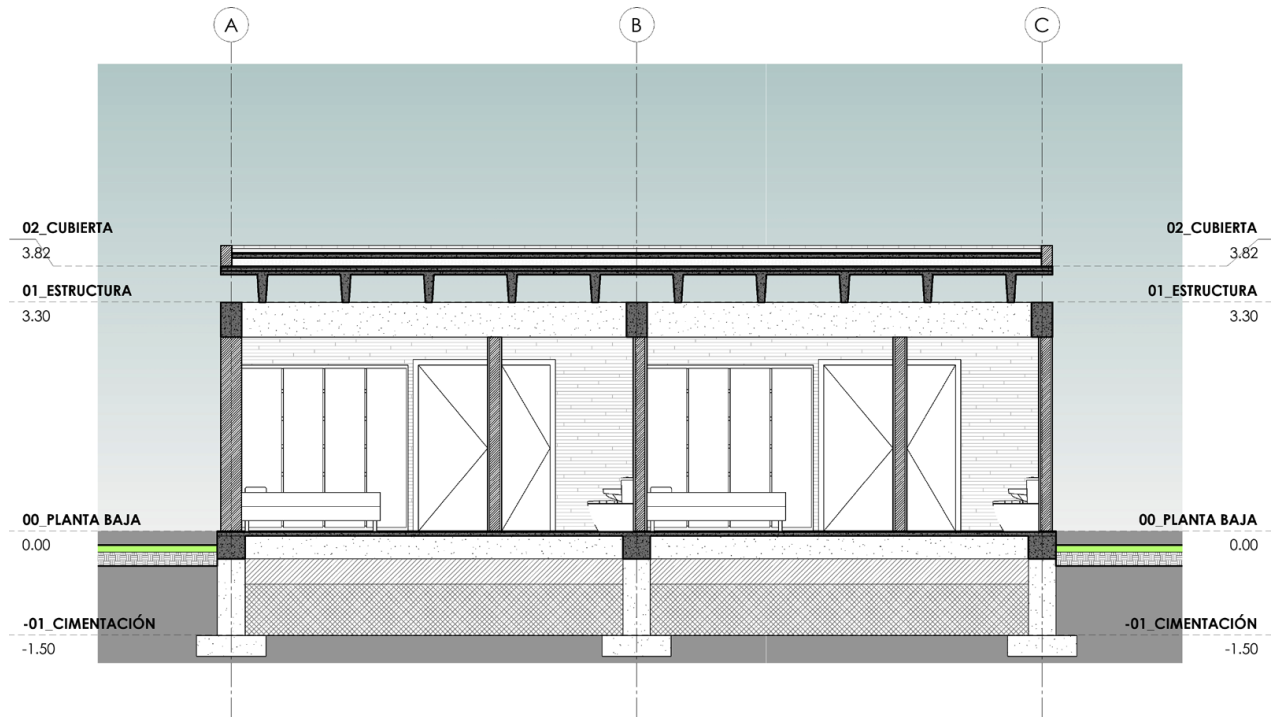
- GENERAL
- MARKER
- MARKER TEXT STYLE
- MARKER SYMBOL AND TEXT
- MODEL DISPLAY
 - Fill Cut Surfaces with: Cut Fills - as in Settings
 - Uniform Pen for Cut Elemen...
 - Cut Line Pen 0.35 mm 21 
 - Cut Fill Pen 0.13 mm 1 
 - Cut Fill Background Pen Transparent 0 
 - UNCUT ELEMENTS
 - Fill Uncut Surfaces with: Uniform Pen Color
 - Uncut Surfaces Pen Window Background -1 
 - Uniform Pen for Uncut Elem...
 - Uncut Elements Pen 0.13 mm 1 
 - Vectorial 3D Hatching
 - Transparency
 - SUN AND SHADOWS
 - Viewpoint Sun Settings Custom
 - Sun Azimuth 45,00°
 - Sun Altitude 45,00°
 - Sun Shadow
 - MARKED DISTANT AREA
 - Fill Uncut Surfaces with: Uniform Pen Color
 - Uncut Surfaces Pen Window Background -1 
 - Uniform Pen for Uncut Elem...
 - Uncut Elements Pen 0.05 mm 120 
 - Vectorial 3D Hatching
 - ELEMENT CONTOURS AT SECTION BOUNDARY
- STORY LEVELS
- STORY LEVELS TEXT STYLE
- STORY LEVELS SYMBOL AND TEXT
- GRID TOOL

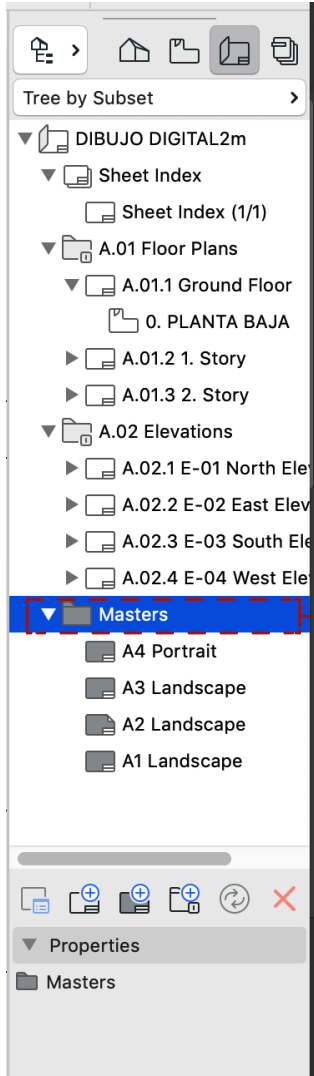
Marker - Section

ELEMENTOS CORTADOS

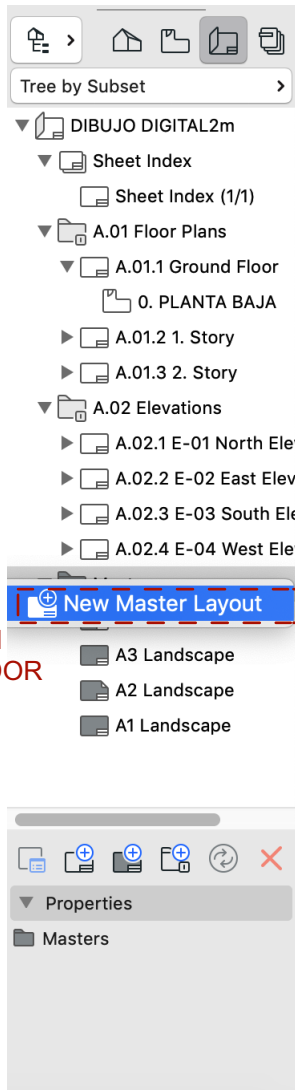
ELEMENTOS NO CORTADOS

AREA DISTANTE MARCADA

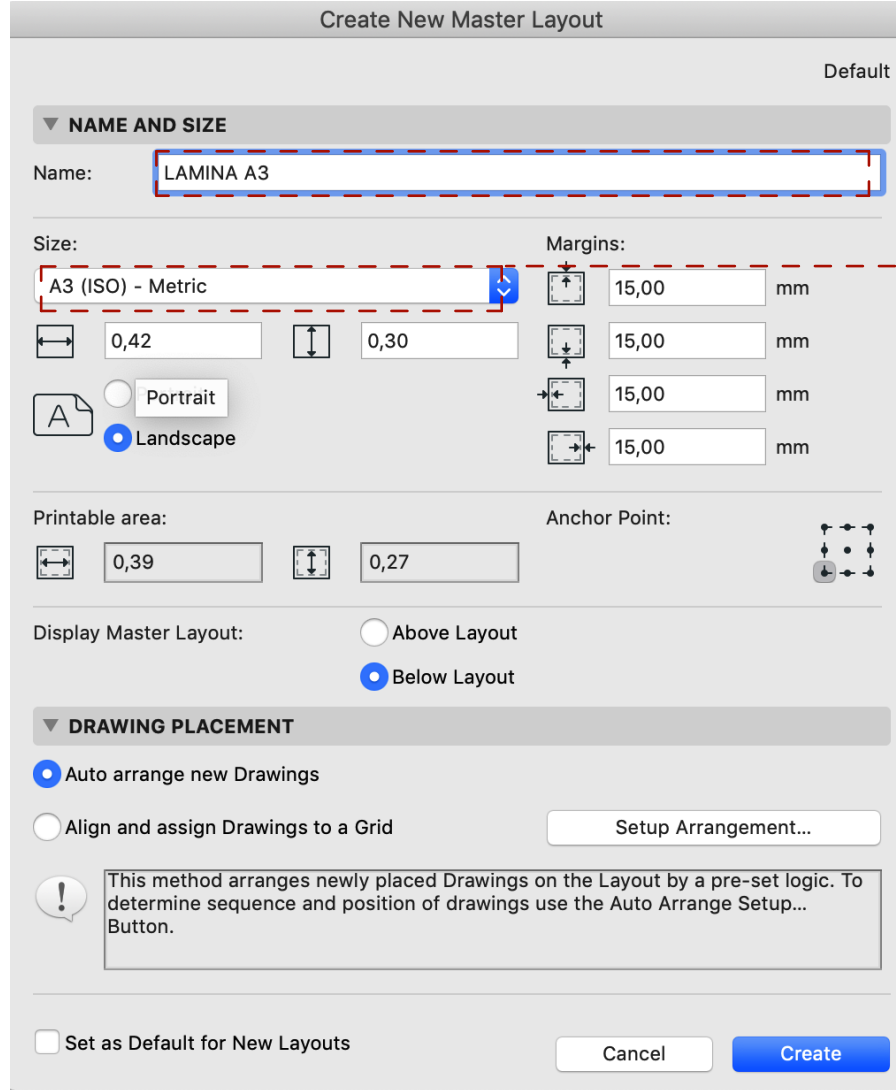




1. UBICAR EN EL NAVEGADOR

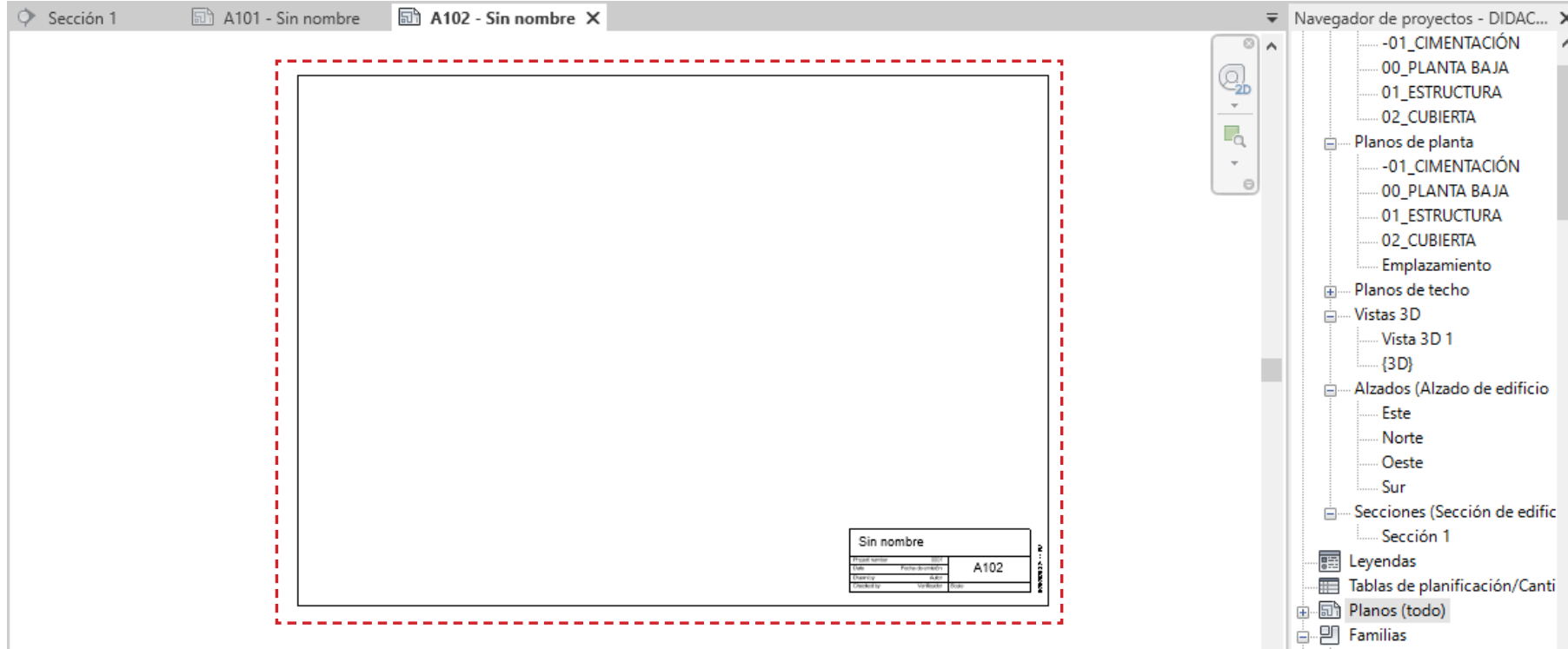


2. NUEVO PLANO



3. CREAR UN NUEVA LAMINA EN A3

ELABORACIÓN DE PLANOS CON HERRAMIENTAS BIM



3. ESPACIO A3 LISTO PARA EL ARMADO DE LÁMINAS

ARMADO DE LÁMINAS

Sección 1 A101 - Sin nombre A102 - Sin nombre X

Navegador de proyectos - DIDAC...

- Vistas (todo)
- Planos estructurales
 - 01_CIMENTACIÓN
 - 00_PLANTA BAJA
 - 01_ESTRUCTURA
 - 02_CUBIERTA
- Planos de planta
 - 01_CIMENTACIÓN
 - 00_PLANTA BAJA
 - 01_ESTRUCTURA
 - 02_CUBIERTA
 - Emplazamiento
- Planos de techo
- Vistas 3D
 - Vista 3D 1
 - {3D}
- Alzados (Alzado de edificio)
 - Este
 - Norte
 - Oeste
 - Sur
- Secciones (Sección de edificio)
 - Sección 1
- Leyendas
- Tablas de planificación/Canti

Sin nombre	
Proyecto	A102
Plan	
Plantilla	
Plantado por	

4. ARRASTRAR EL PLANO CONFIGURADO HACIA LA LÁMINA

ELABORACIÓN DE PLANOS CON HERRAMIENTAS BIM

Sección 1 A101 - Sin nombre A102 - Planta Baja X

00_PLANTA BAJA
1 : 50

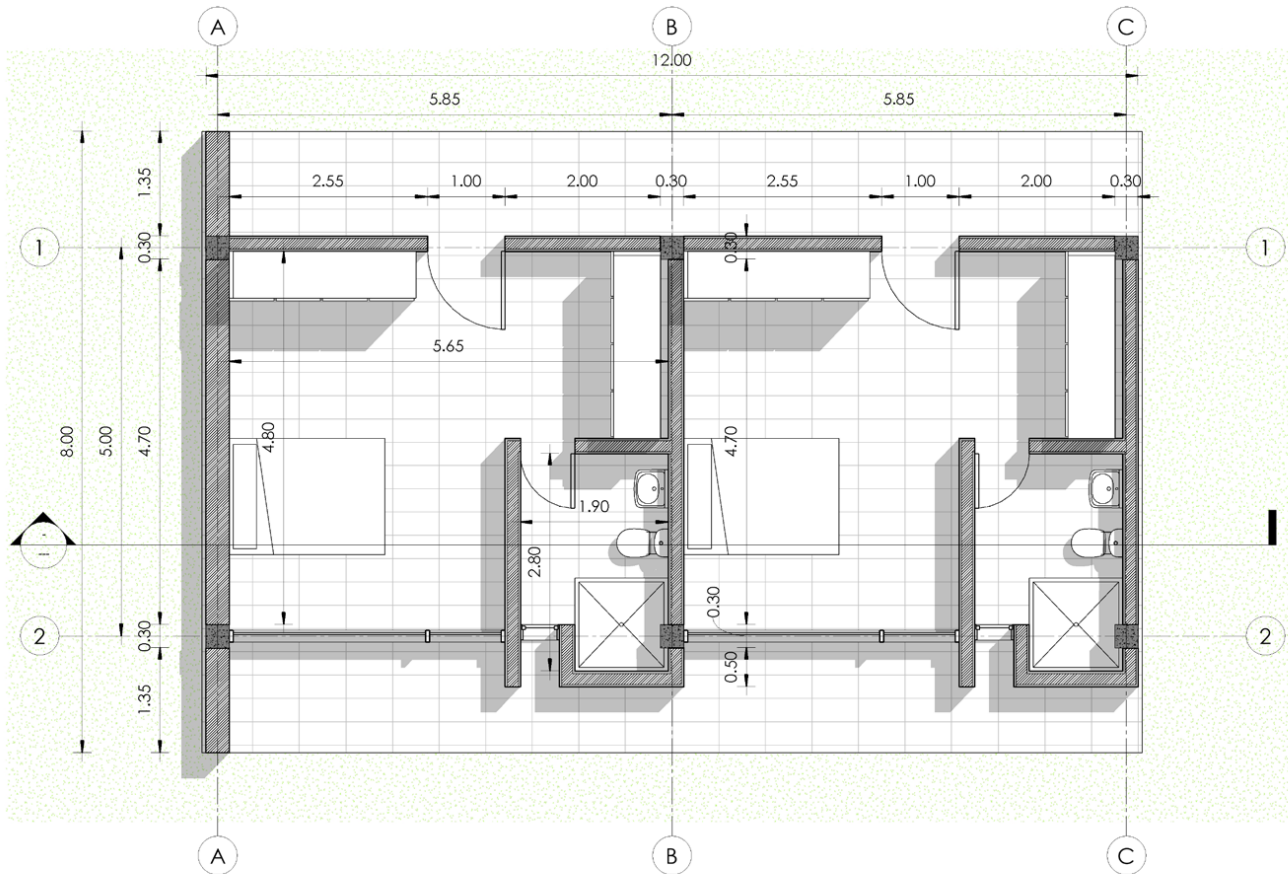
Planta Baja	
Modelo	3D
Nombre	A102
Estado	100%
Clasificación	ASB

Navegador de proyectos - DIDAC... X

- M_Extremo de llamada
- M_Extremo final de secc
- M_Extremo final de secc
- M_Extremo inicial de niv
- M_Extremo inicial de niv
- M_Extremo inicial de rej
- M_Extremo inicial de rej
- M_Extremo inicial de sec
- M_Extremo inicial de sec
- M_Extremo inicial de sec
- M_Flecha de norte-2
- M_Grid Head - Circle
- M_Línea central
- M_Puntero de marca de
- M_Puntero de marca de
- M_Puntero de marca de
- M_Puntero de marca de
- M_Referencia a vista
- M_Título de vista
- Techos
- Tuberías
- Tuberías flexibles
- Tubos
- Vegetación
- Ventanas

5. ENCAJAR EL ELEMENTO BIDIMENSIONAL DENTRO DEL ESPACIO DE IMPRESIÓN

ARMADO DE LÁMINAS



1 00_PLANTA BAJA
1 : 50

Planta Baja		A101
Project number	0001	
Date	29-05-2020	
Drawn by	DGC	
Checked by	AGS	
Scale	1 : 50	

5/29/2020 8:41:47 PM

ELABORACIÓN DE PLANOS CON HERRAMIENTAS BIM

