



User Manual

A complete guide to marking up, saving, and exporting irrigation as-built drawings
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What is IrriBilt?

IrriBilt is a browser-based tool for creating irrigation as-built drawings. Upload your original site plan as a PDF or image, mark up the valves, sprinklers, mainline, zone piping, and coverage areas directly on top of it, and export a clean, professional as-built as a PNG or a correctly-scaled PDF.

It runs entirely in your browser — no installation, and no software to buy. It works the same way on a desktop computer, a tablet, or a phone, and can even be installed like a native app for offline use.

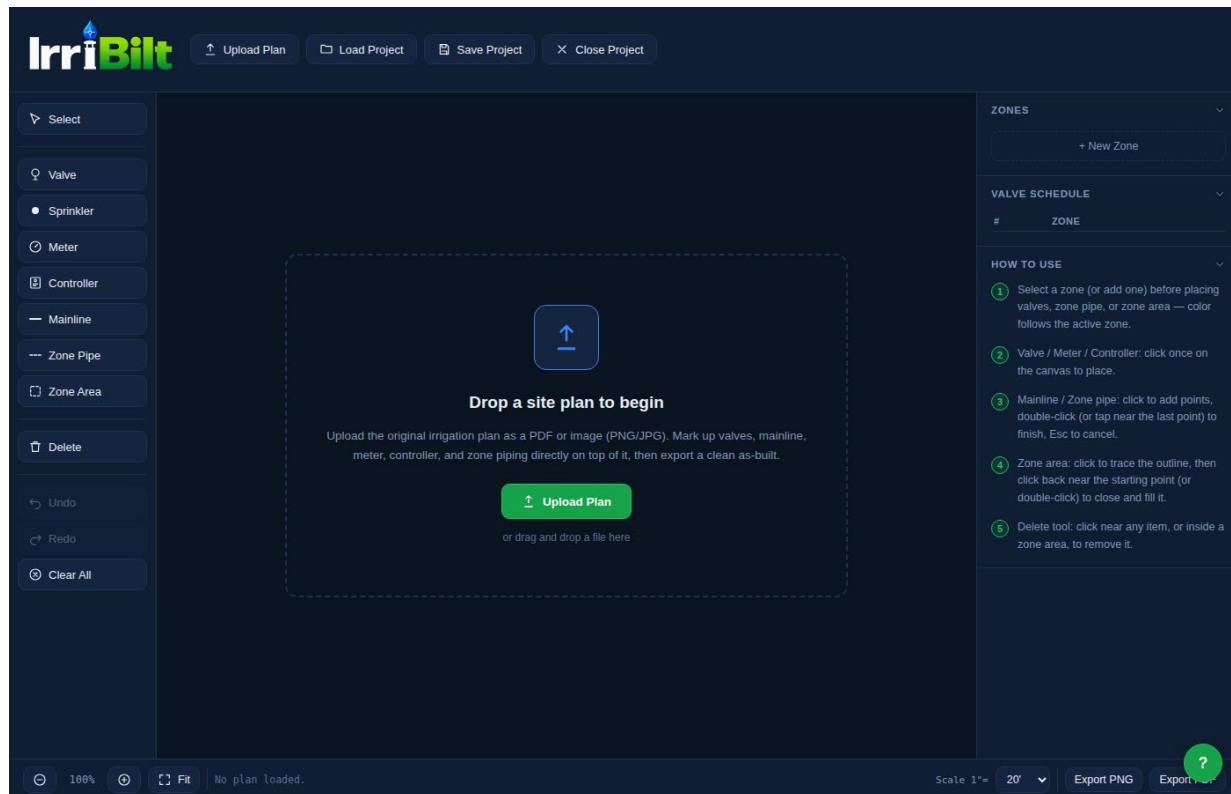
Everything stays on your device

IrriBilt processes your plans locally in your browser. Uploaded site plans and finished project files are never sent to a server — they only leave your device if you choose to save or export them yourself.

Getting Started

1. Upload a site plan

Click Upload Plan, or drag and drop a file directly onto the drop zone. IrriBilt accepts PDF files (recommended — renders sharpest) and PNG/JPG images.



The upload screen, shown before any plan is loaded.

2. Create your zones

IrriBilt creates a default zone automatically when you upload a plan. Rename it to match your first irrigation zone, and use + New Zone to add more. Each zone gets its own color, which is used automatically for every valve, sprinkler, and zone pipe you place while that zone is active.

Select a zone before placing markup

Valves, sprinklers, and zone piping are always tied to whichever zone is currently selected in the right-hand panel. Select the right zone first — this is what keeps your valve schedule and legend accurate.

3. Mark up the plan

With a zone selected, use the tools on the left to start marking up the plan. The screenshot below shows a plan partway through being marked up — valves numbered in sequence, sprinklers as plain dots, and the meter and controller placed near the point of connection.

The screenshot displays the IrriBilt software interface. On the left is a toolbar with tools like Select, Valve, Sprinkler, Meter, Controller, Mainline, Zone Pipe, Zone Area, Delete, Undo, Redo, and Clear All. The central canvas shows a site plan with a house and lawn areas. Six irrigation zones are defined: Zone 1 (5 heads), Zone 2 (6 heads), Zone 3 (6 heads), Zone 4 (6 heads), Zone 5 (6 heads), and Zone 6 (5 heads). Valves are numbered 1 through 6, and sprinklers are represented by dots. A meter and controller are placed near the point of connection. The right-hand panel shows the ZONES list with Zone 1 selected, and the VALVE SCHEDULE table. The bottom of the interface shows a status bar with a scale of 1" = 20' and a zoom level of 100%.

IRRIGATION LEGEND

SYMBOL	DESCRIPTION
○	POP-UP SPRAY HEAD
---	MAINLINE (PVC SCH 40)
---	LATERAL LINE (PVC SCH 40)
V	ELECTRIC VALVE
⋈	BACKFLOW PREVENTER
◇	PRESSURE REGULATOR
M	MASTER VALVE
▲	POINT OF CONNECTION

ZONE SCHEDULE

ZONE	VALVE	DESCRIPTION	HEADS
1	V1	Front Left Lawn	5
2	V2	Left Side Lawn	6
3	V3	Back Lawn	6
4	V4	Right Side Lawn	6
5	V5	Right Front Lawn	6
6	V6	Front Center Lawn	5

SYSTEM INFORMATION

STATIC PRESSURE:	60 PSI
BACKFLOW PREVENTER:	YES
PRESSURE REGULATOR:	30 PSI
CONTROLLER:	RAIN BIRD ESP-TMG
RAIN SENSOR:	RAIN BIRD RSD-BEH

SYMBOL KEY (EQUIPMENT LAYOUT)

M	MASTER VALVE
⋈	BACKFLOW PREVENTER
◇	PRESSURE REGULATOR
▲	POINT OF CONNECTION

IRRIGATION NOTES

- All work to comply with local codes and ordinances.
- All pipe is PVC Schedule 40 unless otherwise noted.
- All existing pipe under landscape areas.
- Contractor to field verify all existing conditions.
- Flush and pressure test all zones upon completion.
- Adjust all heads for proper coverage and efficiency.

MATERIALS SCHEDULE

QTY	DESCRIPTION
6	ELECTRIC VALVE, 1"
1	MASTER VALVE, 1"
1	BACKFLOW PREVENTER
1	PRESSURE REGULATOR (30 PSI)
1	CONTROLLER (ESP-TMG)
1	RAIN SENSOR (RSD-BEH)
32	POP-UP SPRAY HEAD (AS SCHEDULED)
XXX	PVC PIPE, SCH 40
XXX	FITTINGS & ACCESSORIES

PIPE SCHEDULE

TYPE	SIZE	DESCRIPTION
---	1 1/2"	MAINLINE (PVC SCH 40)
---	1"	LATERAL LINE (PVC SCH 40)

HOW TO USE

- Select a zone (or add one) before placing valves, zone pipe, or zone area — color follows the active zone.
- Valve / Meter / Controller: click once on the canvas to place.
- Mainline / Zone pipe: click to add points, double-click (or tap near the last point) to finish, Esc to cancel.
- Zone area: click to trace the outline, then click back near the starting point (or double-click) to close and fill it.
- Delete tool: click near any item, or inside a zone area, to remove it.

A site plan with valves, sprinklers, meter, and controller placed.

The Toolbar

Every drawing tool lives in the left-hand sidebar (or the horizontal tool strip on mobile). Here's what each one does:

Select	Click an existing valve, sprinkler, line point, or the legend to select and drag it to a new position. Also used to pan the view by dragging on empty space.
Valve	Click once on the canvas to place a numbered valve, colored to match the active zone. Valves number themselves automatically in the order placed.
Sprinkler	Click once to place a plain colored dot marking a sprinkler head, matching the active zone's color.
Meter	Click once to place the water meter marker (labeled "M"). Only one meter can exist per plan — placing a new one moves it.
Controller	Click once to place the irrigation controller marker (labeled "C"). Like the meter, only one exists per plan.
Mainline	Click to place each point along the mainline pipe route, then double-click (or tap near the last point) to finish the line. Press Esc to cancel a line in progress.
Zone Pipe	Same click-to-add-points behavior as Mainline, but for lateral zone piping — colored to match the active zone.
Zone Area	Click to trace the outline of a coverage area, then click back near your starting point (or double-click) to close and fill the shape with the active zone's color.
Delete	Click near any valve, sprinkler, line, or area to remove it. Click inside a filled zone area to remove that area.
Undo / Redo	Step backward or forward through your recent edits. Redo is available until you make a new edit, which clears it — standard behavior for most editing tools.
Clear All	Removes all markup from the current plan (valves, sprinklers, lines, meter, controller) while keeping the uploaded plan itself. Asks for confirmation first.

Setting the Drawing Scale

The Scale 1"= dropdown, in the bottom toolbar, tells IrriBilt what drawing scale your uploaded plan is at (for example, 1"=20'). This keeps valve, sprinkler, meter, controller, and line-weight sizing visually consistent and legible, and — for PDF exports — ensures the exported page prints at your plan's true physical size.

Match it to your plan's stated scale

Check the scale noted on your original site plan and select the closest match. If you're not sure, or your plan is unscaled, the default (1"=20') is a reasonable starting point.

The Legend

IrriBilt automatically builds a legend showing every zone, plus the meter, controller, and mainline if they're present on the plan. The legend appears in the bottom-left of the drawing by default — switch to the Select tool and drag it anywhere you like; its position is remembered when you save your project.

Zoom, Pan, and Navigation

1. Use the + / – buttons in the bottom-left, your mouse wheel, or a two-finger pinch on a touch device to zoom in and out.
2. Drag on any empty area of the canvas to pan the view — this works with any tool active, not just Select.
3. Click Fit at any time to reset the view back to the whole plan.

Saving and Loading Projects

Saving

Click Save Project to save your work as an .ibp project file, which includes your uploaded plan, every valve/sprinkler/line/zone you've placed, your drawing scale, and legend position — everything needed to pick up exactly where you left off.

On Chrome or Edge, this opens your browser's native save dialog, so you choose exactly where the file goes. On browsers that don't support this (Firefox, Safari), the file downloads automatically to your usual downloads folder instead.

Loading

Click Load Project and select a previously saved .ibp file to restore that project exactly as you left it.

Exporting Your As-Built

Export PNG	A high-resolution image of the finished as-built. Good for quickly sharing over email or text, where exact print scale doesn't matter.
Export PDF	Sized to your plan's true physical sheet dimensions (e.g. 24"×36"), so it prints at the correct scale. This is the right choice for anything you'll print or submit officially.

Printing a large-format PDF on standard paper

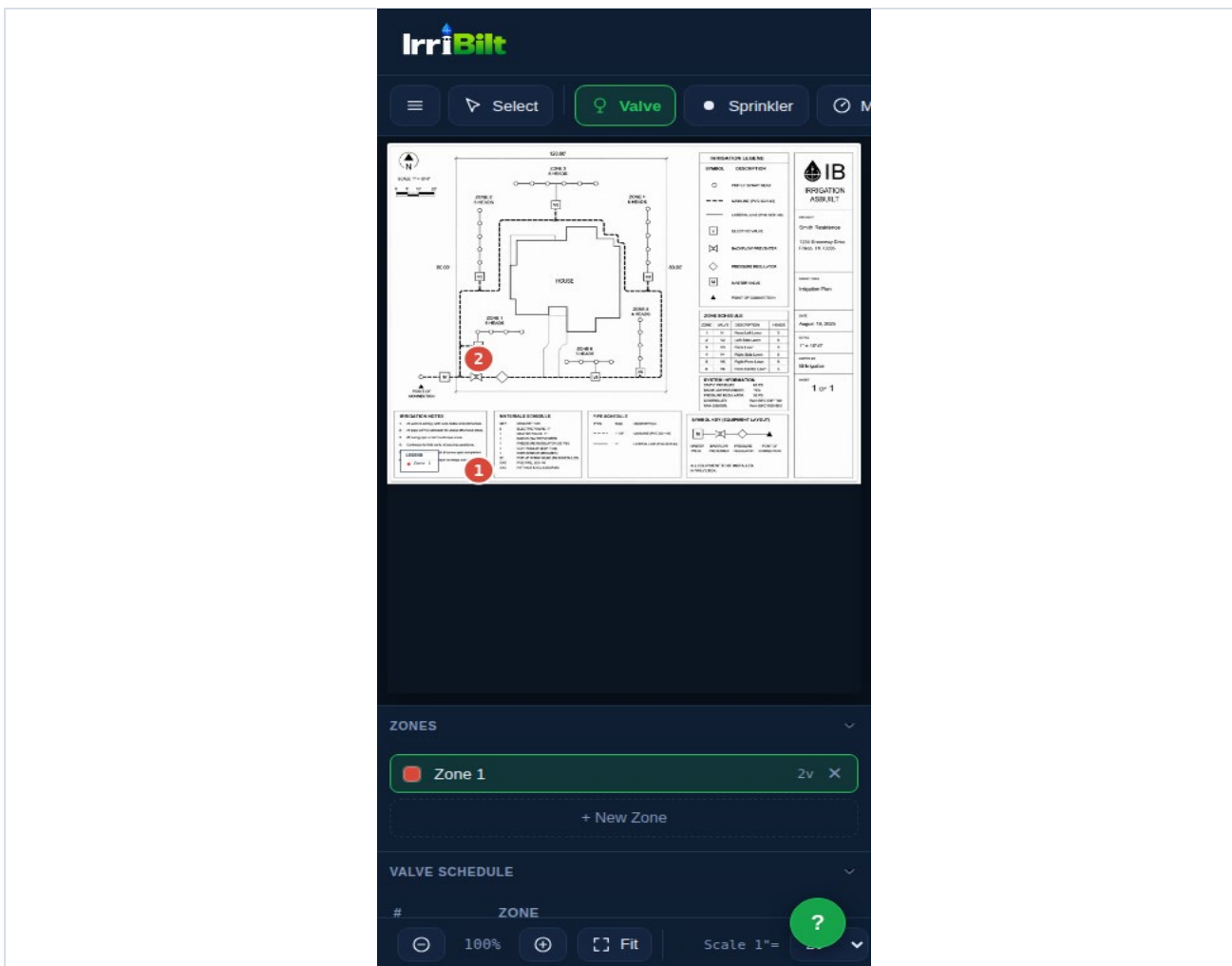
If your exported PDF looks small when printed, it's almost always because your printer's paper is smaller than the plan's actual sheet size, and your printer is automatically shrinking the page to fit. For a true full-scale printout, use a large-format printer/plotter, or look for a tiling/poster-print option in your print dialog.

Multi-Page Plans

When you upload a multi-page PDF, page navigation controls appear in the header. Markup, drawing scale, and the legend position are all tracked separately per page — switching pages and coming back preserves everything exactly as you left it.

Using IrriBilt on Mobile and Tablet

The layout automatically adapts on touch devices: the toolbar becomes a horizontal scrolling strip, side panels move below the canvas, and a compact menu () holds Upload/Load/Save/Close. Pan with one finger, pinch to zoom.



The mobile layout, shown on a phone-sized screen.

IrriBilt is a Progressive Web App — most mobile browsers offer an "Add to Home Screen" or "Install" option, giving you a full-screen app experience without an app store.

Tips & Troubleshooting

- If a recent update or fix doesn't seem to be showing up, close the browser tab completely and reopen the app — a normal refresh isn't always enough.
- If symbols or lines look too big or small, double-check the Scale 1"= dropdown matches your plan's actual stated scale — this is the most common cause.
- To move a misplaced valve or sprinkler, switch to Select and drag it; to remove it, use Delete.
- Undo and Redo cover most recent actions, including placement, deletion, and dragging.

Need more help? Visit the Support page in the app, or email support@irribilt.com