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Sample

Introduction

This manual builds on the Vectorworks Essential manual. The Essential manual is designed to show you basic concepts of Vectorworks such as 2D drafting, simple 3D modeling and basic file organization. If you are unfamiliar with these concepts then you should get the Essential manual and complete it before you go any further.

In this manual we will be working through a series of projects:

- The first project will work through a quick domestic project where we have a sketch plan and we want to add some plants and hard landscaping to the plan;
- The second project is similar to the first project but we will start with a blank file and work right though the process from importing the scanned image to putting the title block on the drawing;
- The third project is a small commercial project that needs planting added quickly to the developer's site plan;
- The fourth project is a small park that needs planting;
- The final project is a full domestic project for a client, the Smith Family, in which we will plan a garden that will include planting, irrigation, hardscaping and an outdoor structure. This project will be in 2D and 3D.

In Project 1 we will open a file that has a sketch already in it. Then we will draw a landscape plan on top of the sketch, add some hard landscaping and some notes to finish the drawing. The aim of this exercise is to show you how quick and easy it is to create your landscape plans and then count the plants and quantify the hard landscaping.

Project 2 is similar to Project 1, but we will go into more detail. We will start with a blank file and then we will import the scanned image of the site and add the trees and hard landscaping. Along the way we will edit the plants to suit us, and we will add a title block to the drawing so you can start to use this method to create your own drawings.

Project 3 is a commercial project. We will import the developer's plan, add the planting to suit the council requirements, tag the plants.

Project 4 is a small park that we will import from a survey file. It needs paths, planting, a fountain and carparking, all in 2D for a concept plan.

Project 5 is a domestic project that we will model in 3D. We will design a landscape for a young family that lives in a 1970's 3–bedroom timber frame house. We will draw the house from our site measurements, create the 3D terrain and modify it, create and place our own plants and create some landscape structures.

Sample

How to Use this Manual

Here are some things that will help you to use this manual better:

- Spend the time to work through the manual. The information in this manual will not find its way into your head if you don't complete the exercises. Reading the manual is good, reading the manual and watching the movies is better, reading the manual, watching the movies and completing the exercises has the best results. Watch the movies, try the exercise and then play the movie again.
- Instructions for you to complete are shown like this.

Tips: Useful tips are shown like this

Sample

Measurements for you to use are shown in both metric and imperial. Metric measurements are shown first, imperial measurements are shown in brackets. If you are using metric, don't type in the imperial measurements; if you are using imperial, don't type in the metric measurements. Instead, just type in the measurements inside the brackets.

This manual comes as a hard copy with one CD. There are two exercise folders on the CD. One is called "Imperial Landmark Exercises," and the other is called "Metric Landmark Exercises." Copy the exercise folder that you want to use to your computer. Place the exercise folder in a location to make it easy to open the files.

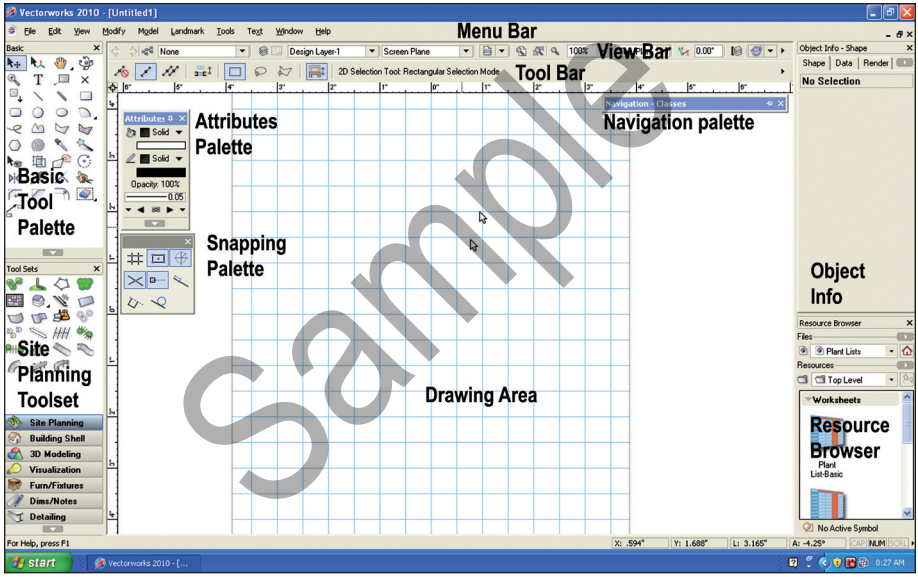
Save any training files that you work on to your exercise folder with a new name so you do not loose the original exercise files.

When you want to play a movie that is shown in the printed manual, insert the CD into your computer CD and double click on the file on the CD called "Landscape Tutorial Manual.pdf." This is your electronic copy of the manual, and it contains links to all the movies. To play a movie from the electronic copy of the manual, move your cursor over the movie icon (the cursor changes shape) and click once. When the movie is finished it will automatically close. Use Adobe Acrobat Reader to read the manual and play the movies; use Vectorworks to do the exercises.

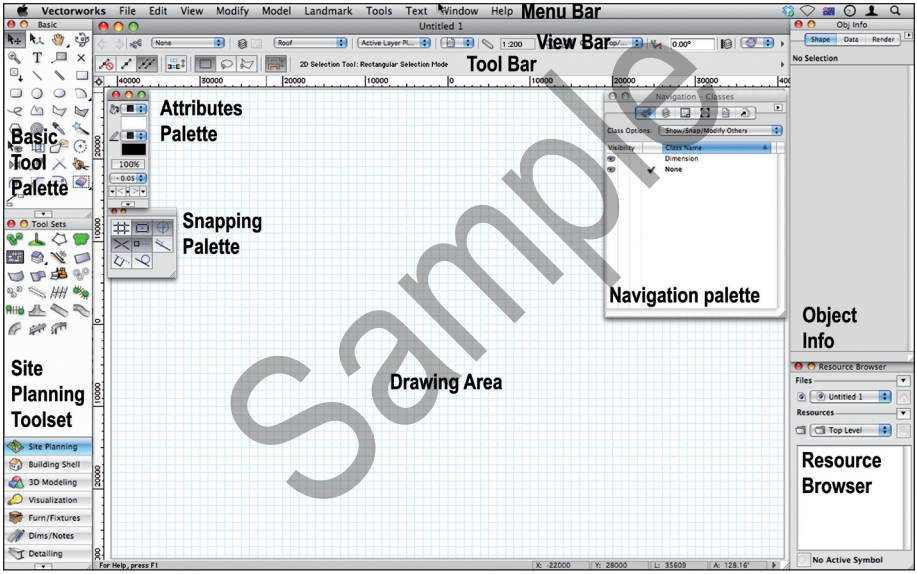
Movie

movie001.mov

When you start Vectorworks 2010 Landmark, it looks like this on a Windows machine.



When you start Vectorworks 2010 Landmark it looks like this on a Macintosh:



Sample

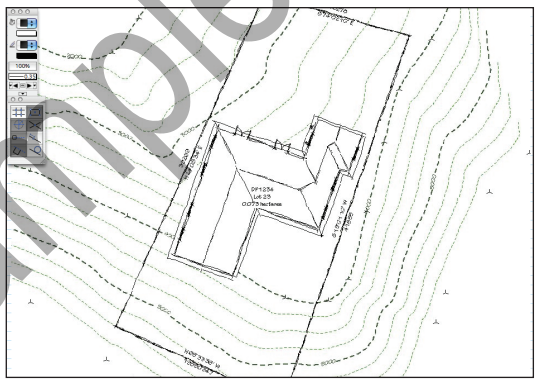
Movie
movie002.mov

Project 1 Quick Domestic Project

This project is designed to show you how quick it can be to draw plants and hard landscaping once you have all the information you need.

Sample

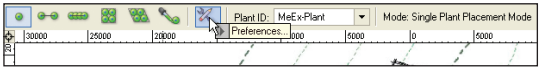
- Open the file **Project_1.sta** from the exercise folder. This file is a Vectorworks template file. It has a scanned image of our house plan and the plants already imported into it. All we have to do is to add the plants and hardscape to the plan.



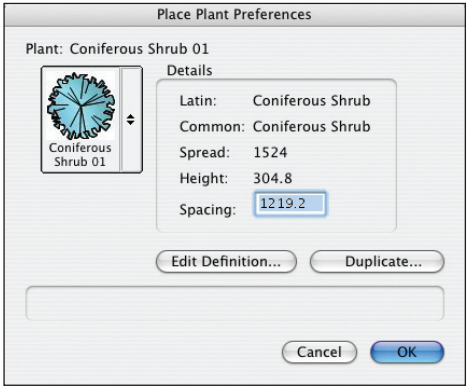
- Go to the **Site Planning** Tool set.

- Choose the **Place Plant** tool.

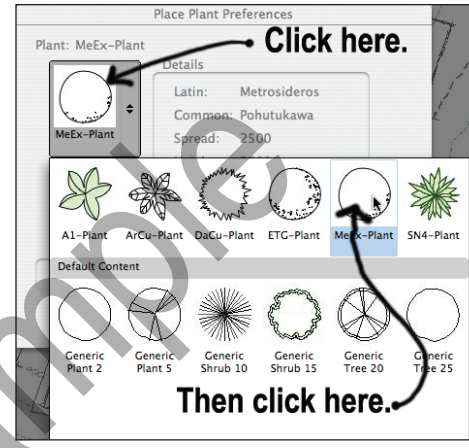
- Go to the **Tool** Bar.
- Click on the **Plant Tool Preferences...** button.



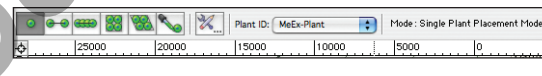
- This opens the dialog box where we choose the plant we want to place. You can set the size of the plant, the type of plant, spacing and height.



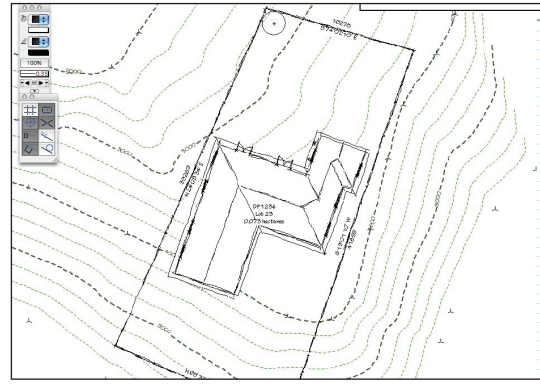
- Click on the plant, and a series of plants will appear. Choose **MeEx**.
- Click on the **OK** Button.



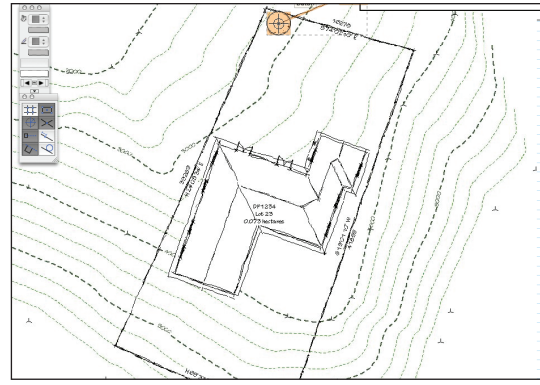
- Go to the **Tool Bar**.
- Choose the first mode. This allows you to place one tree at a time.



- Click once to place a tree.

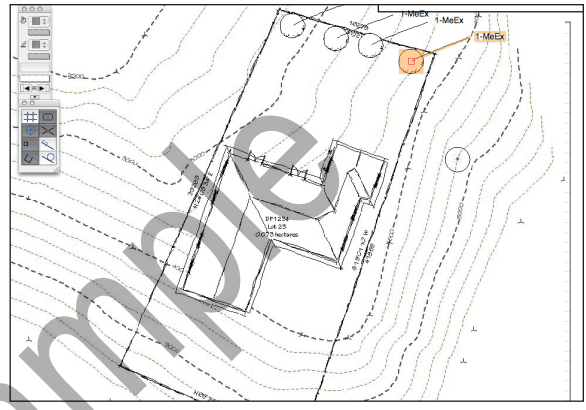


- Your tree is placed where you clicked.



Sample

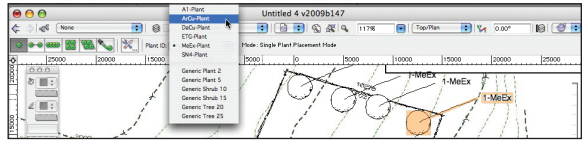
- Place four plants along the top of the site.



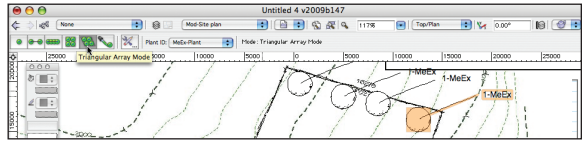
Sample

Movie
movie003.mov

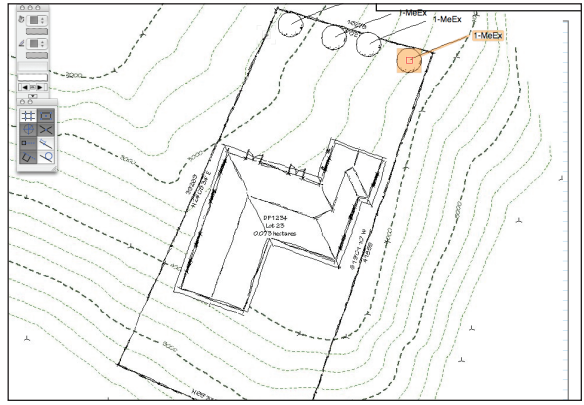
- Go to the **Tool Bar**.
- Click on the **Plant** pop-up menu.
- Choose a different plant, it doesn't matter which one.



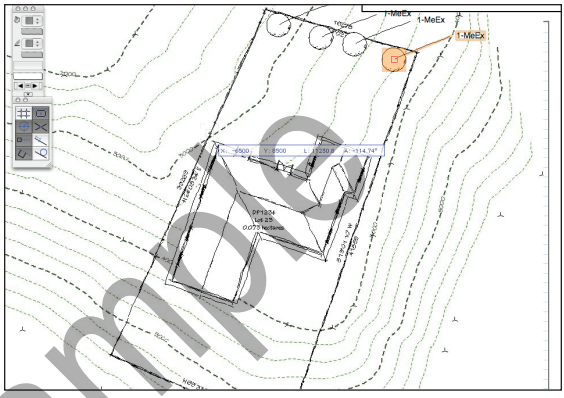
- Go to the **Tool Bar**.
- Click on the mode for placing plants in a triangular array.



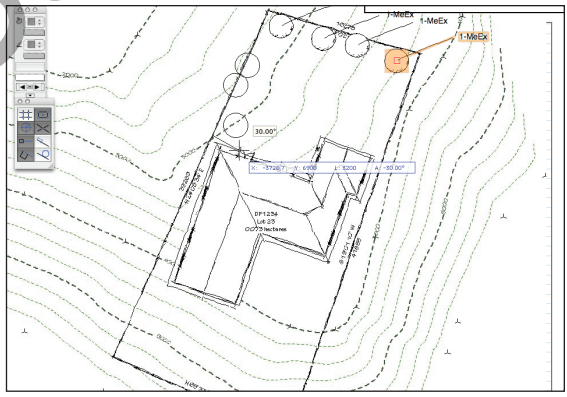
- Click once at the corner of the first plant that we have already placed.



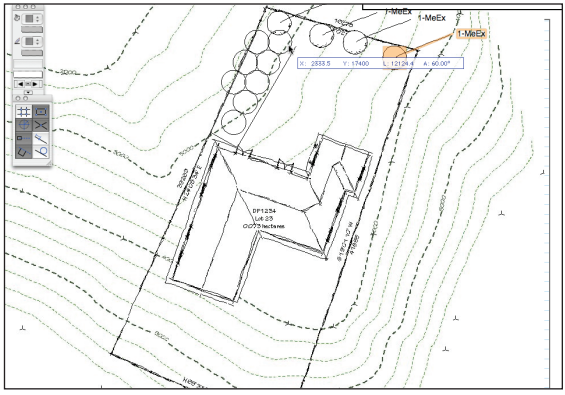
- Come down the boundary.
- Click once.



- Move across the front of the house.
- Click once.

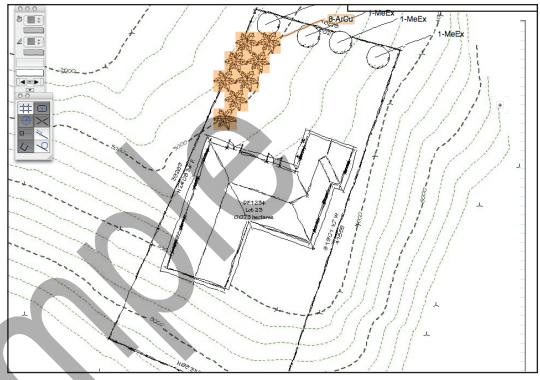


- Move up the Site.
- Double click.



Sample

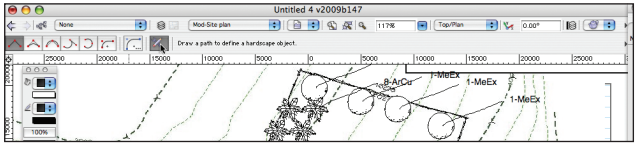
- Vectorworks draws all the trees.



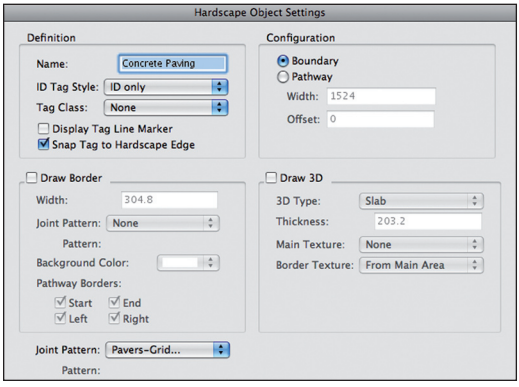
movie004.mov

- Go to the Site Planning Tool set.
- Choose the **Hardscape** tool.

- Go to the **Tool Bar**.
- Click on the **Preferences...** button.

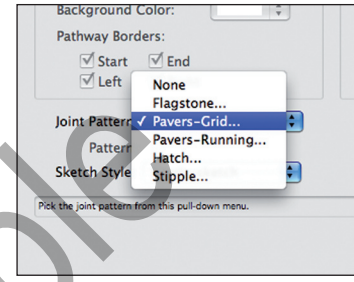


- Name the hardscape.

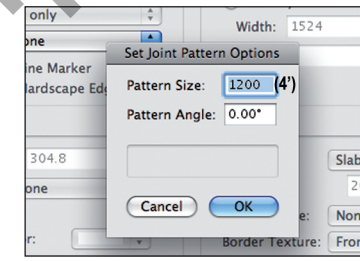


Sample

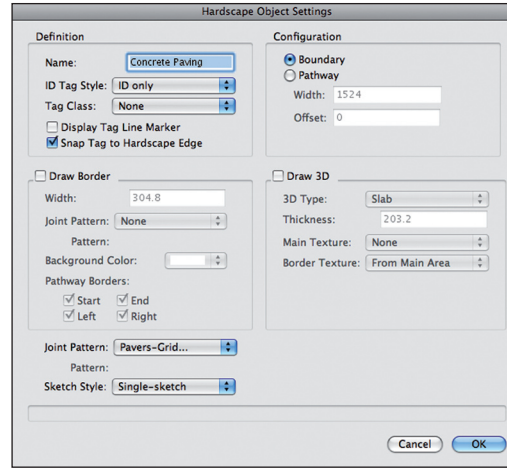
- Click on the **Joint Pattern** pop-up menu.
- Choose **Pavers-Grid...**



- Type in the size of the tiles.
- Type in the angle for the tile grid.
- Click on the **OK** button to leave the Set Joint Pattern Options dialog..

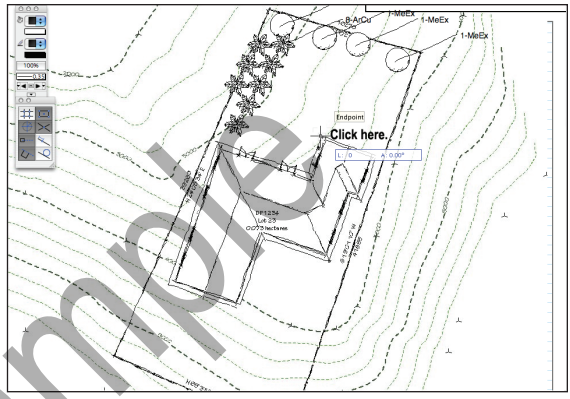


- The dialog box should look like this image.
- Click on the **OK** button to leave the Hardscape Object Settings dialog.

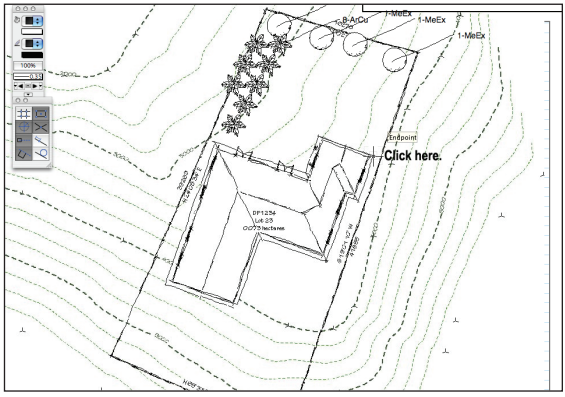


Sample

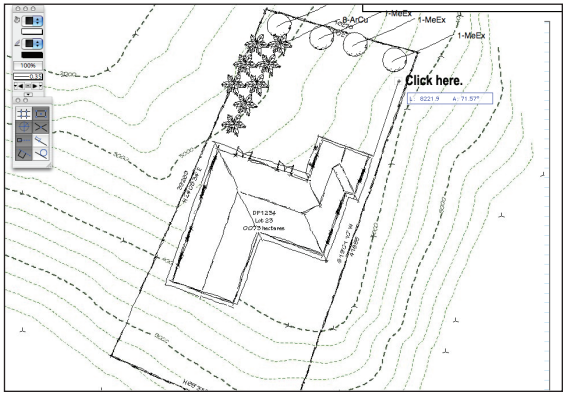
- Click once to start the Hardscape.



- Move along the face of the building.
- Click once.

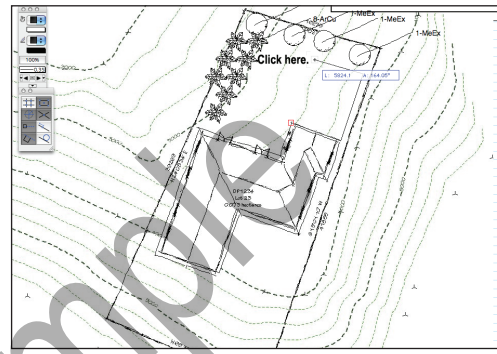


- Move up the site.
- Click once.

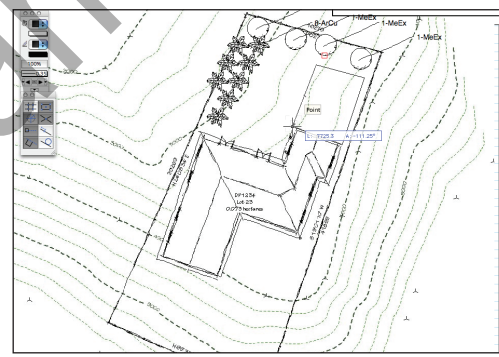


Sample

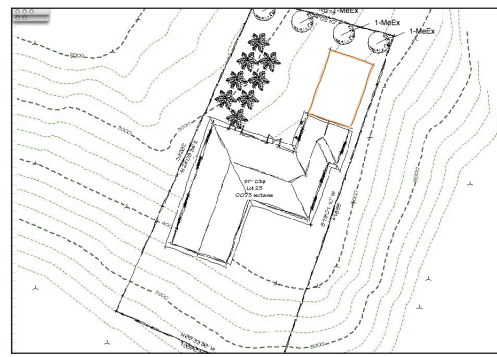
- Move across the site.
- Click once.



- Move back to where you started. You will get a screen hint that says **Point**.
- Click once.

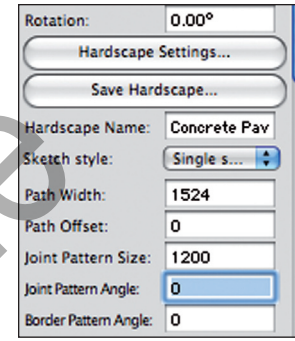


- Vectorworks makes the Hardscape. You can edit the hardscape (or any object) with the Object Info Palette.
- Sketch rendering has been turned on so that the drawing has a hand-drawn look.

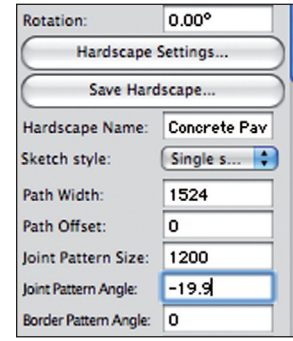


Sample

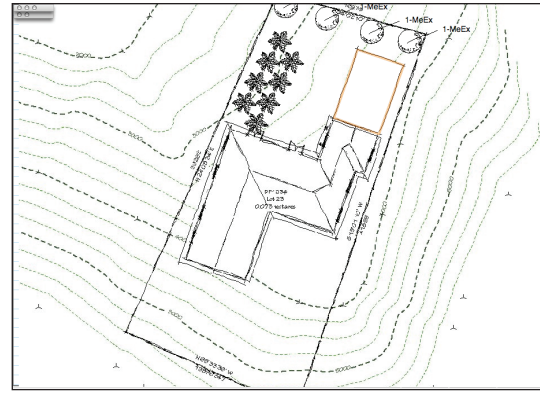
- Go to the **Object Info** palette.
- Locate the **Joint Pattern Angle**.



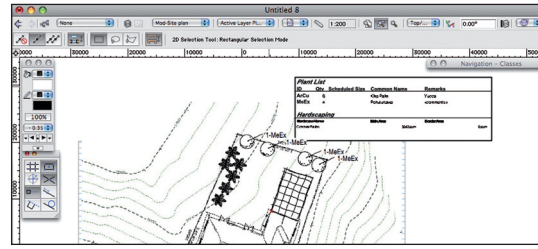
- Change the angle to -19.9º. You may have noticed that as we drew the hardscape a floating display told you the angle you were drawing.
- Hit the **Tab** or **Enter** key to apply the change.



- Now you see the new settings applied to the hardscape.
- Go to the Basic tool palette.
- Double click on the **2D Selection** tool. This wil de-select everything.

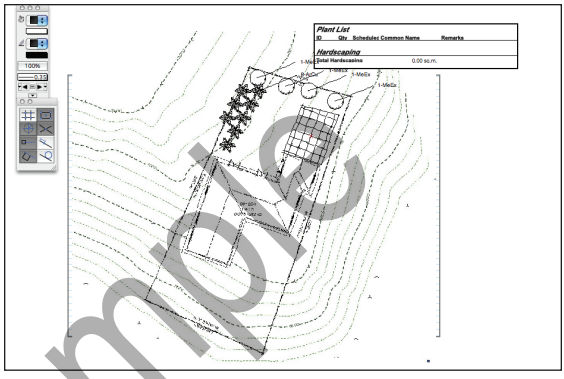


- Go to the **View Bar**.
- Click on the **Fit to Objects** button.

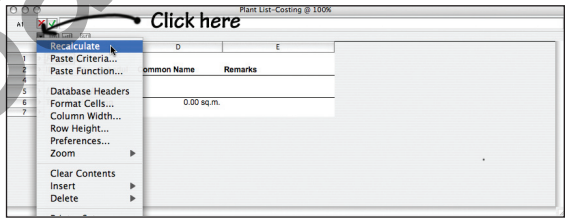


Sample

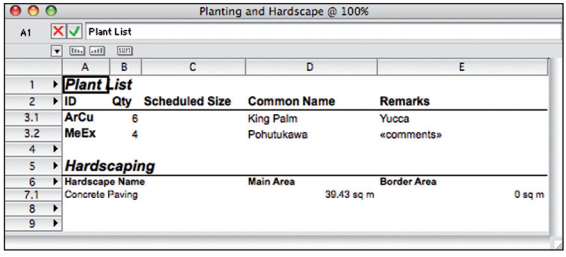
- You should see a worksheet at the top right of the screen.
- Double click on it.



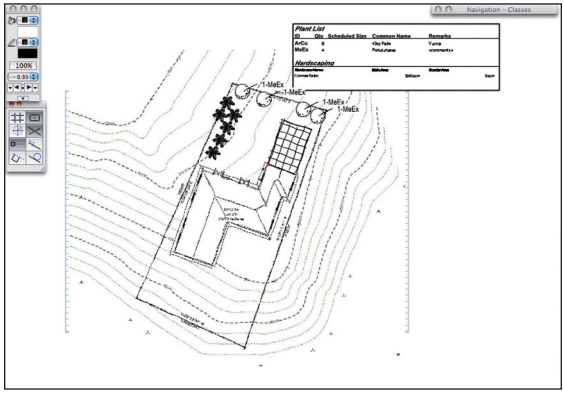
- This opens the worksheet in a floating window.
- Click on the down-turned arrow at the top left of the worksheet window.
- Choose **Recalculate...** from the worksheet menu.



- The worksheet counts up the trees, and hardscape.



- Close the worksheet by clicking on the close button (the red dot on a Macintosh, the red cross on Windows) on the top of the worksheet window.
- The worksheet shows on the drawing.



Sample