

LifeMark[®]-75 Automated Layout System Operation

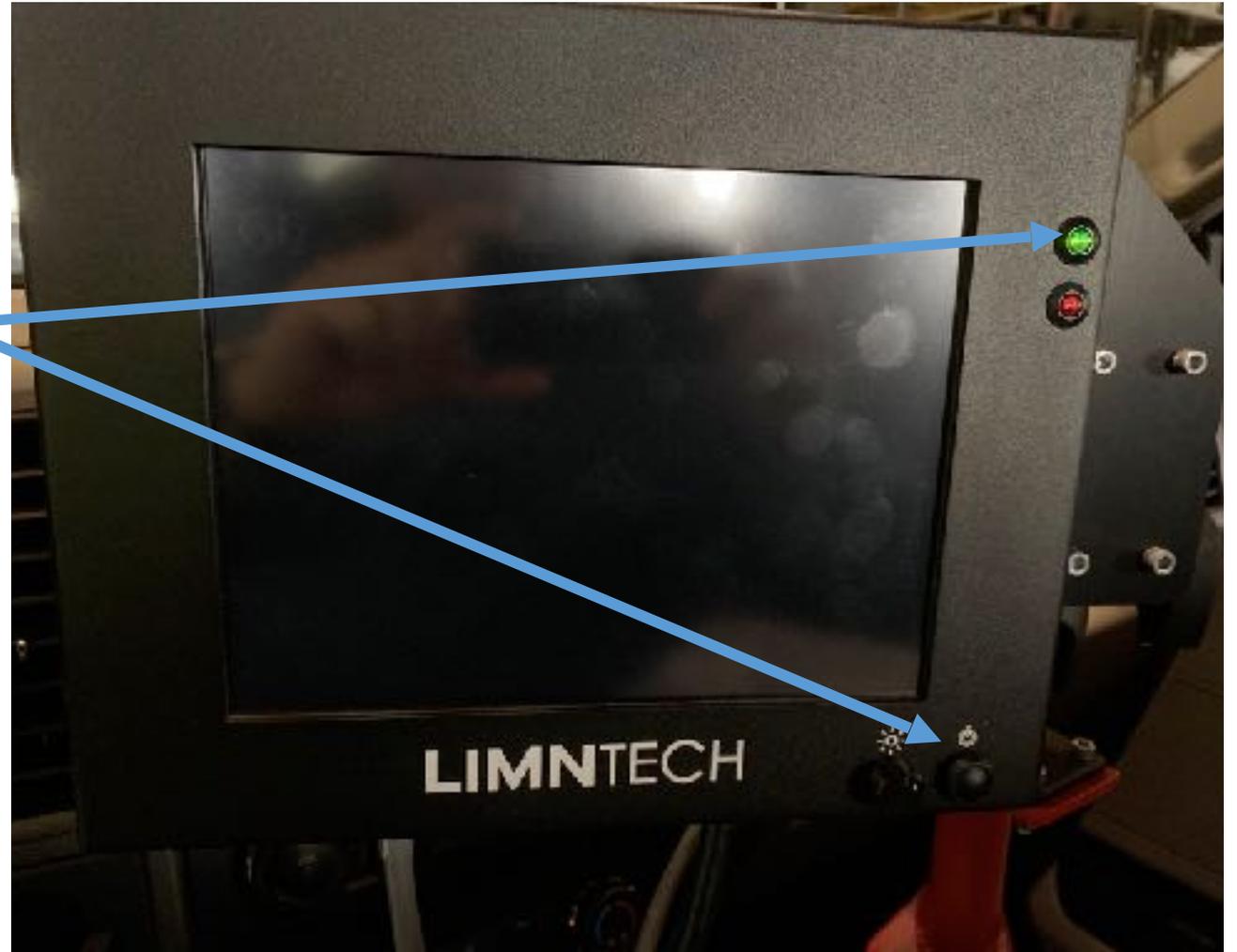
Service call: 215-703-5510

Or email: support@limntech.com

Chris Davies cell: 215-240-2223

Start Screen

- Push bottom right button.
- Green light in upper right will flash.
- Truck must be running to provide enough power to system, battery is not enough.
- Turn on laser now if you plan on recording to give them time to warm up.



System Loading Screen

- Waiting for software to load up.
- This may take a few minutes.



Main Screen After Startup

- System has started up successfully.
- Simply select the word of the action you want to perform.
- Push **Record** to enter the recording screens.



First Record Screen

You can choose to type in the Path name
push **Enter Path Info**
or

Select a Path entered by the Office.
Simply touch the screen to select the
action you want to perform.

Select Path



Select Path

- If your office is pre-typing the road names, choose them here.
- Simply touch the screen to chose the pre-typed name then push

Select Job

- If your File is not here try synchronizing

0 West Bound mile marker YEL
64 mm 15 to 21 walmart to dennys
110 West bound mile marker 14 to 22 skip
e St West bound from US 1 to Us 65 Yellow
. Bucks Route 234
ckwell Northbound from Jones Road Yellow center

Back

Select Job

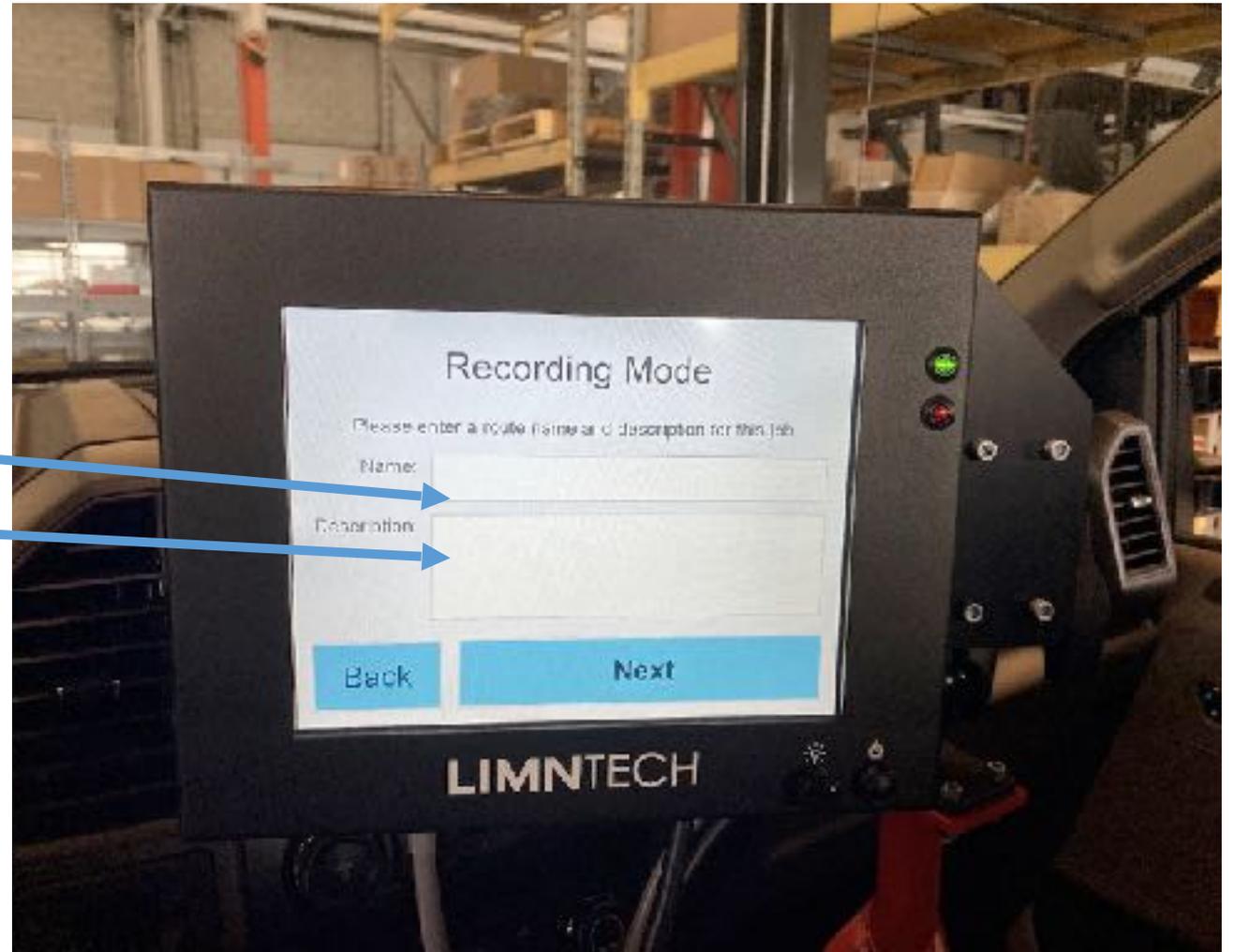
Screen after “Enter Path Info”

- Type in the Path Name here. Simply touch the area to enter text.

Here for Path Name

Here for Description

- A keyboard will pop up on the next screen.



Record Mode

- Type in the Approved Road Name.
- Touch the cursor to bring up the touch screen keyboard in the next screen.
- Push the letter to write on the screen.
- Push **Next** when done.



Recording Mode

Please enter a route name and description for this job

Name: PA Bucks SR 0412 Durham Rd NBYCL

Description: Easton Rd SR 611 to Durham Rd SR212

Back **Next**

Record Mode, cont.

- After typing in Road Name, type information into the Description Area by touching that box.
- Push  to move to the next screen.



Record Mode, cont.

- After typing YCL in description, push to move **Next** screen.



Choose which Laser Pointer to use

- Simply push the button to choose laser.
- **L Front** = Left FIXED Laser Pointer for YCL or Skip lines. Look for it in front of the truck.
- **Rear** if you have rear pointer.
- Make sure you turned on the lasers. They take time to warm up.



Ready To Record Screen

- Push **Start** to begin.
-  Red dot means no GPS available.
-  Green dot good to go.
-  Yellow dot can record but accuracy is lower.



Ready To Record Screen, cont.

- Red dot means no GPS available.
- We record but do not use data for layout.
- Carriage is locked with Red dot during layout.



Screen While Recording

- Push **Stop** to Pause or Stop.
- If you push **Stop**, the File stays open to record more.



Resume or Done

- **Resume** restarts the same path file you were working on.
- **Done** ends the file and brings up Save or Delete screen.



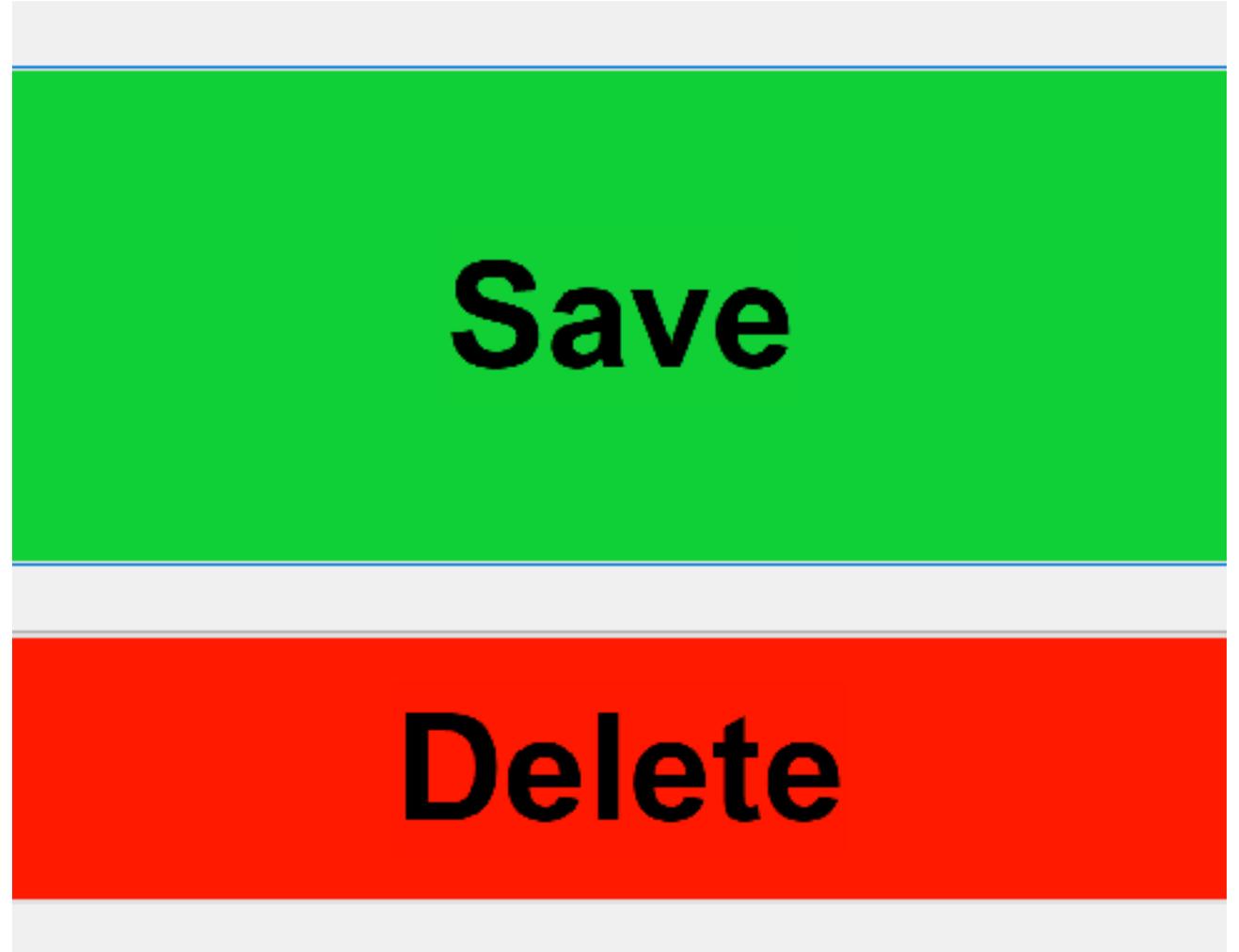
View in the Cab Recording

- Keep the laser pointed at the line you want to record.
- Driving slower is usually more accurate.



Save or Delete

- Push the **Save** button after recording to keep the file.
- **Delete** really saves nothing!





Screen after Delete

- If you choose to **Delete** you will be asked to confirm.
- Push **Yes** to delete the recording.



Main Screen After Recording

- System is ready to Synchronize.
- Simply select the word of the action you want to perform.
- Push **Sync** to enter the Synchronize screens.



Synchronize Data

- Push **Synchronize** to log the collected data with the Cloud servers and process.



Choose **Layout**

- Make sure PTO is on before engaging carriage.
- Push **Layout** button to start laying paint



Select Path

- Choose the Road to layout.
- Touch the road name to select the desired file.

West Bound mile marker YEL
64 mm 15 to 21 walmart to dennys
110 West bound mile marker 14 to 22 skip
St West bound from US 1 to Us 65 Yellow
Bucks Route 234
ckwell Northbound from Jones Road Yellow center

Back Select Job

- Use the arrow buttons to choose the file name then push

Select Job

I 90 West Bound mile marker YEL
LA 64 mm 15 to 21 walmart to dennys
LA I10 West bound mile marker 14 to 22 skip
Lake St West bound from US 1 to Us 65 Yellow
PA Bucks Route 234
Rockwell Northbound from Jones Road Yellow center

Back Select Job

I 90 West Bound mile marker YEL
LA 64 mm 15 to 21 walmart to dennys
LA I10 West bound mile marker 14 to 22 skip
Lake St West bound from US 1 to Us 65 Yellow
PA Bucks Route 234
Rockwell Northbound from Jones Road Yellow center

Name: LA I10 West bound mile marker 14 to 22 skip
Descriptor: Farm dennys to walmart
Date Created: 2018-Feb-01 16:02:18

Back Select Job

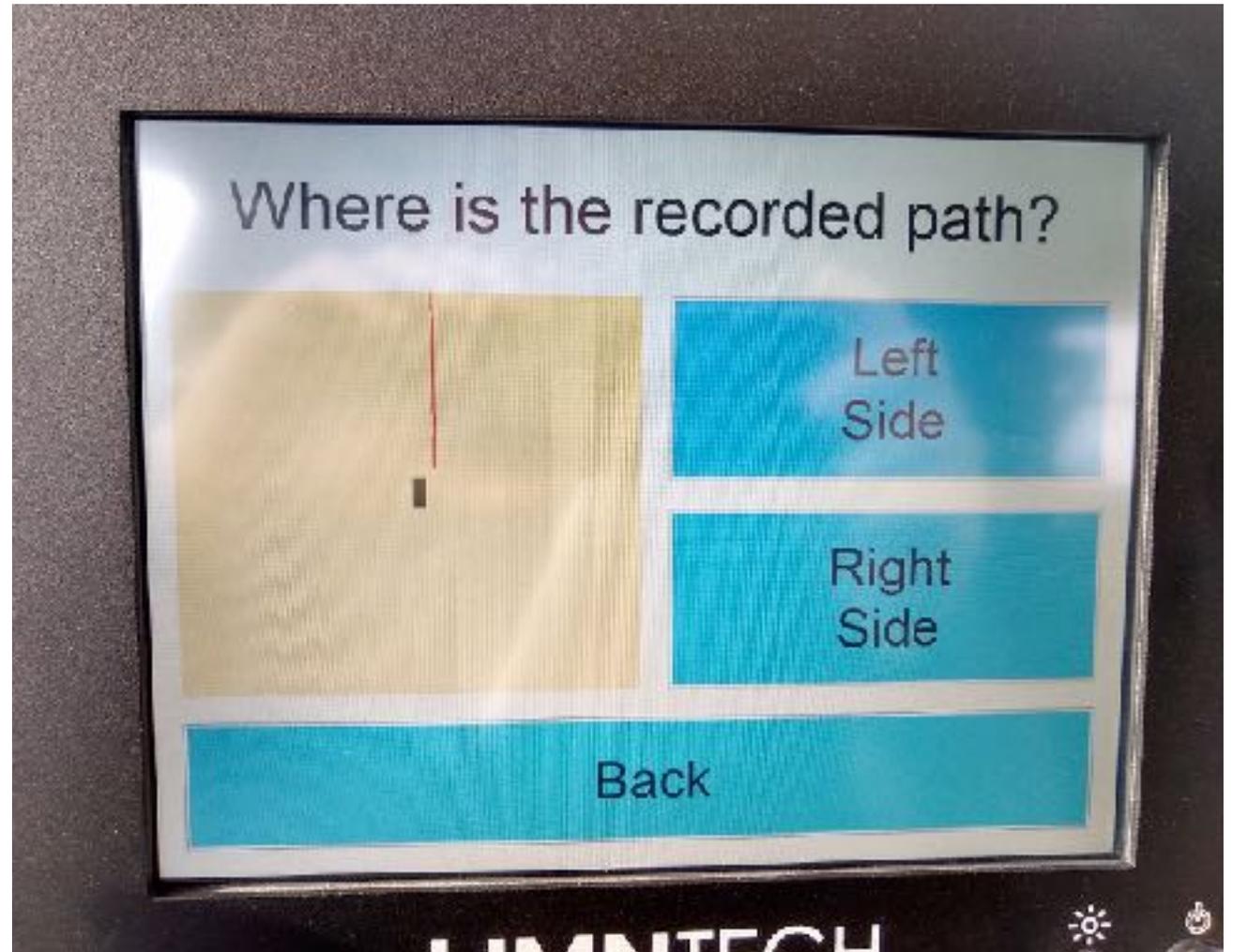
Choose Layout, cont.

- Touch the road name to select the desired file.



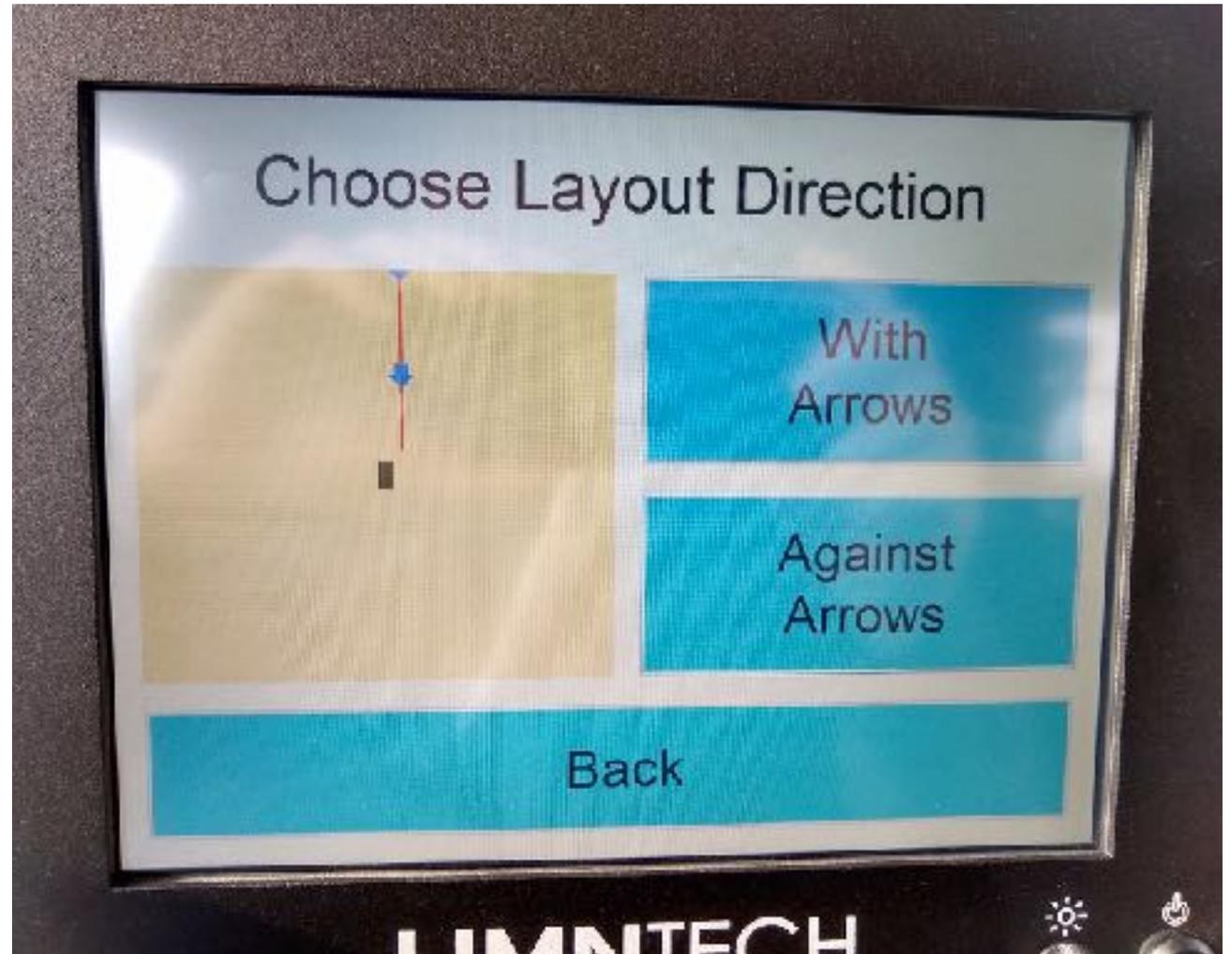
Performing Layout Overview

- The system needs to be told what you are doing.
- The recorded path is the visible red line. The green box represents the truck you are in.
- Tell the system where the path is by pushing the corresponding word.
- Is the Red line on the Right side of the Truck?



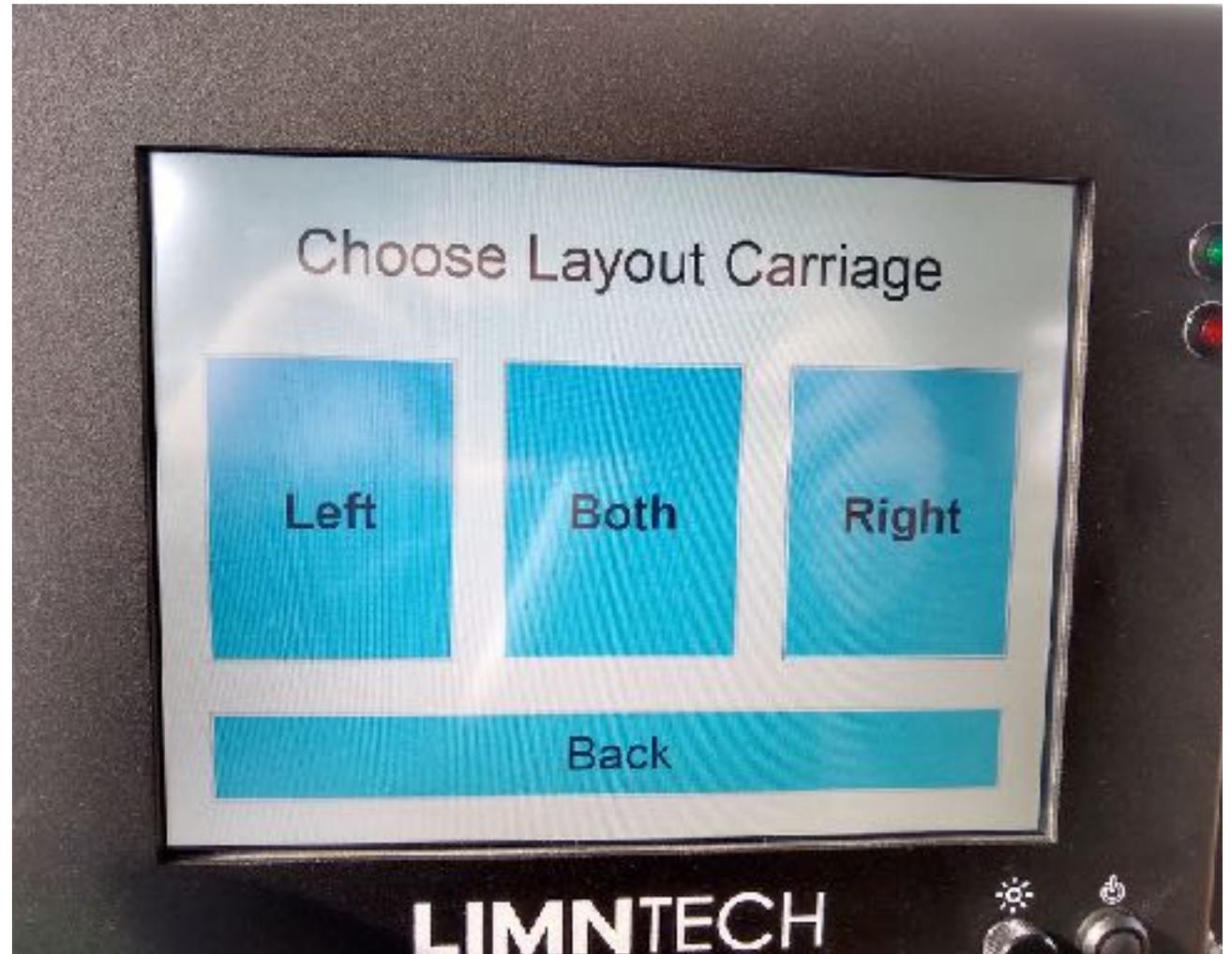
Performing Layout Overview

- Now tell the truck which direction you are going:
- The blue arrows indicate the direction the path was recorded in.
- Are you driving With Arrows or Against?



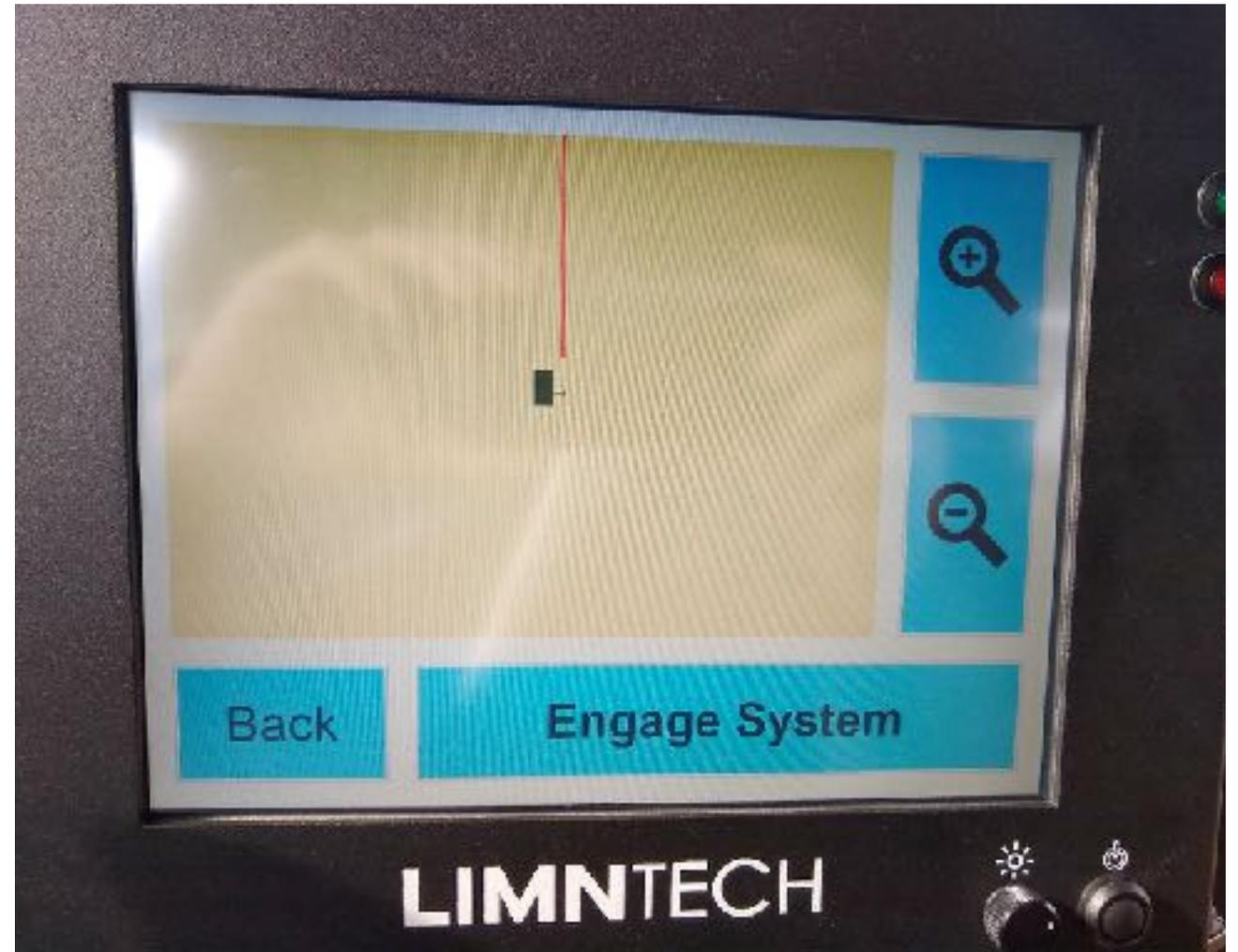
Performing Layout Overview

- Push the button to choose the layout carriage.
- You can layout with one carriage or both. You will enter the lane width and the second carriage will maintain the lane width you choose.
- First test use only one carriage



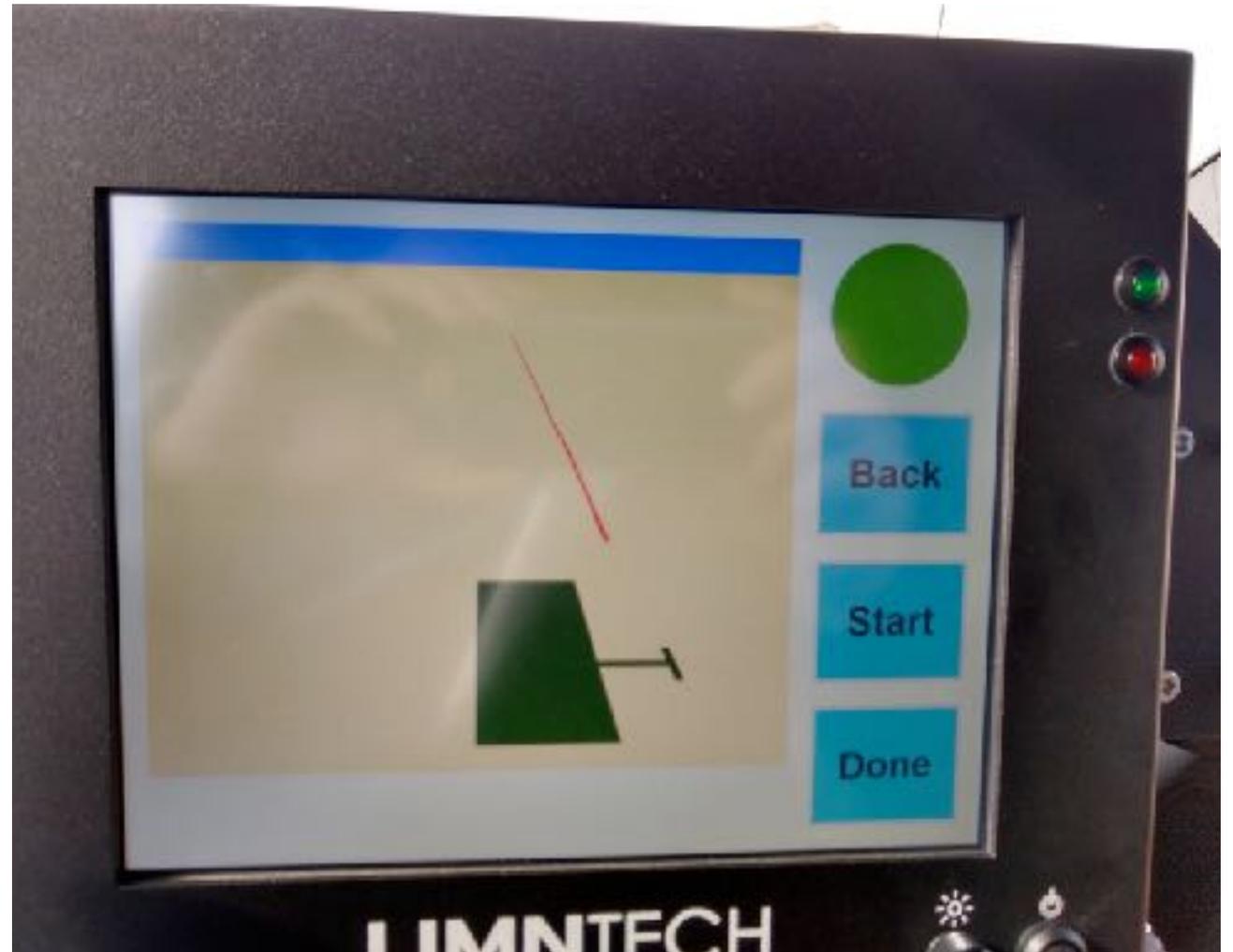
Almost Ready to Layout

- Push **Engage System** to start.
- Make sure that the PTO Hydraulic is on and fully engaged.



Almost Ready to Layout

- Drive closer to the red line, when close hit start and the carriage will pop out to start.
- Turn on paint system.
- Push **Start**



Performing Layout Overview

- The Green Box is the Truck.
- The Green T is the Carriage.
- Keep the Red line between the end of the T and the Green box.

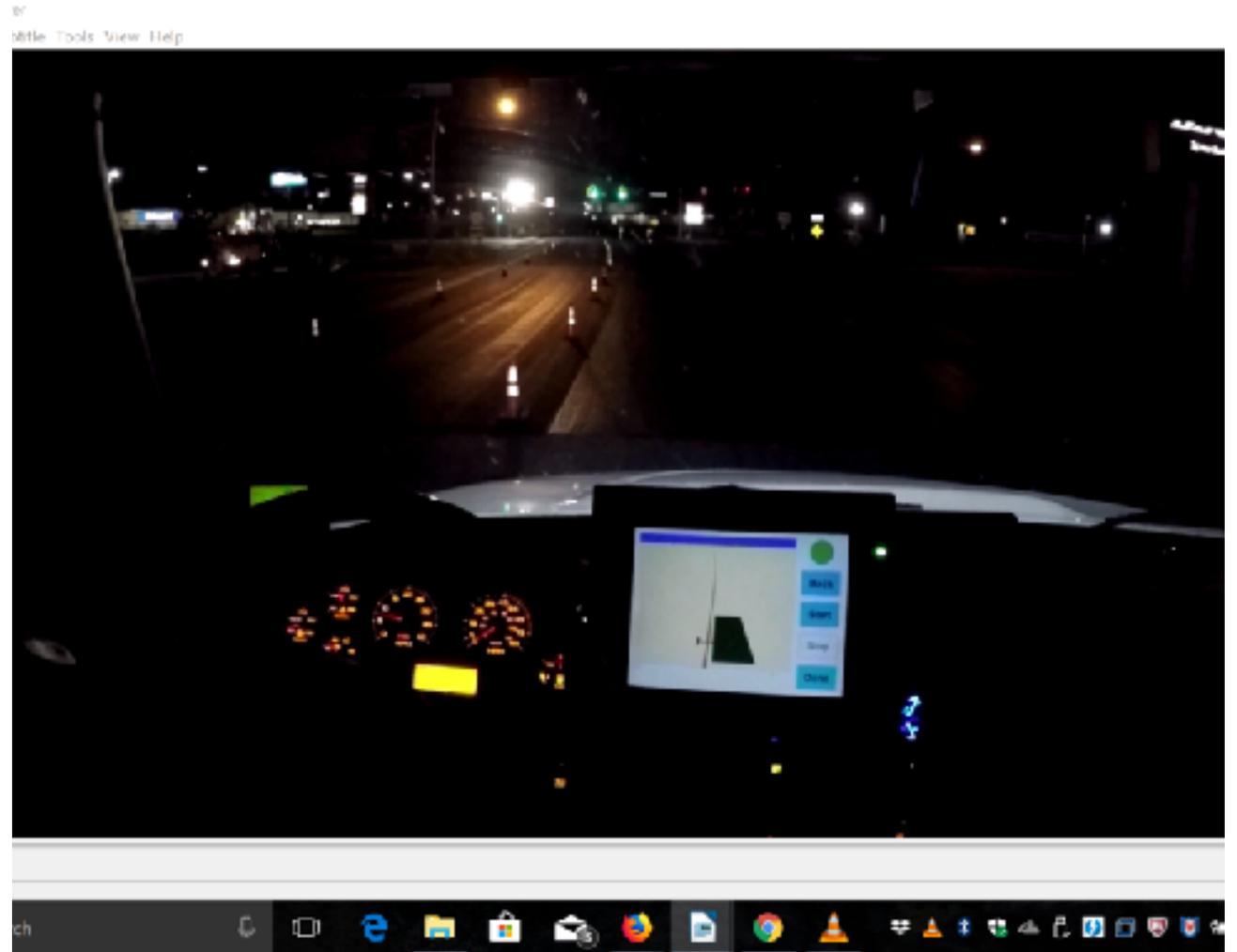


Path Out of Reach

- If you are not close enough you will get this message. The carriage will not move until you get closer.



Night View of Layout



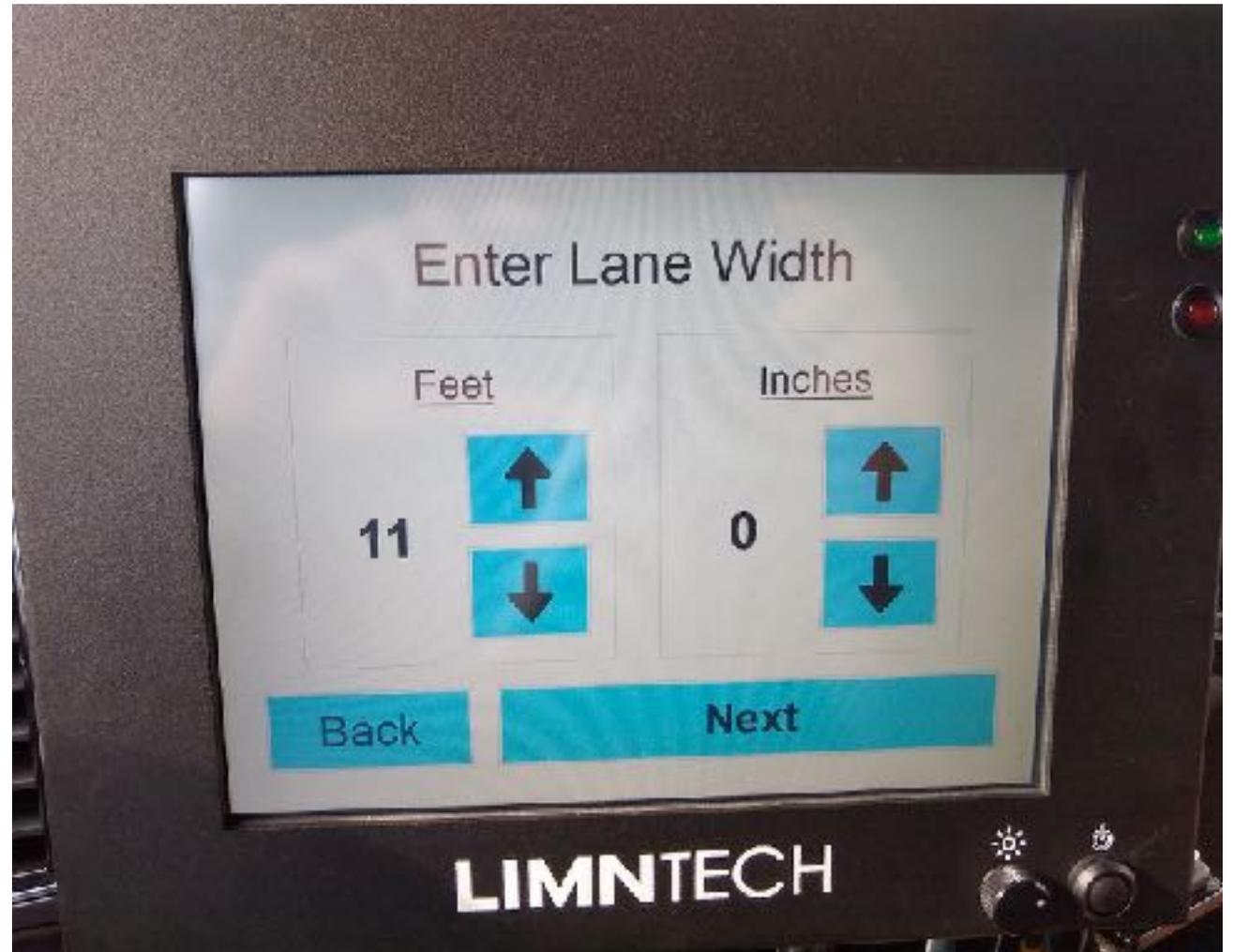
Layout Both Option

- Choose **Both** to layout both carriages at the same time.



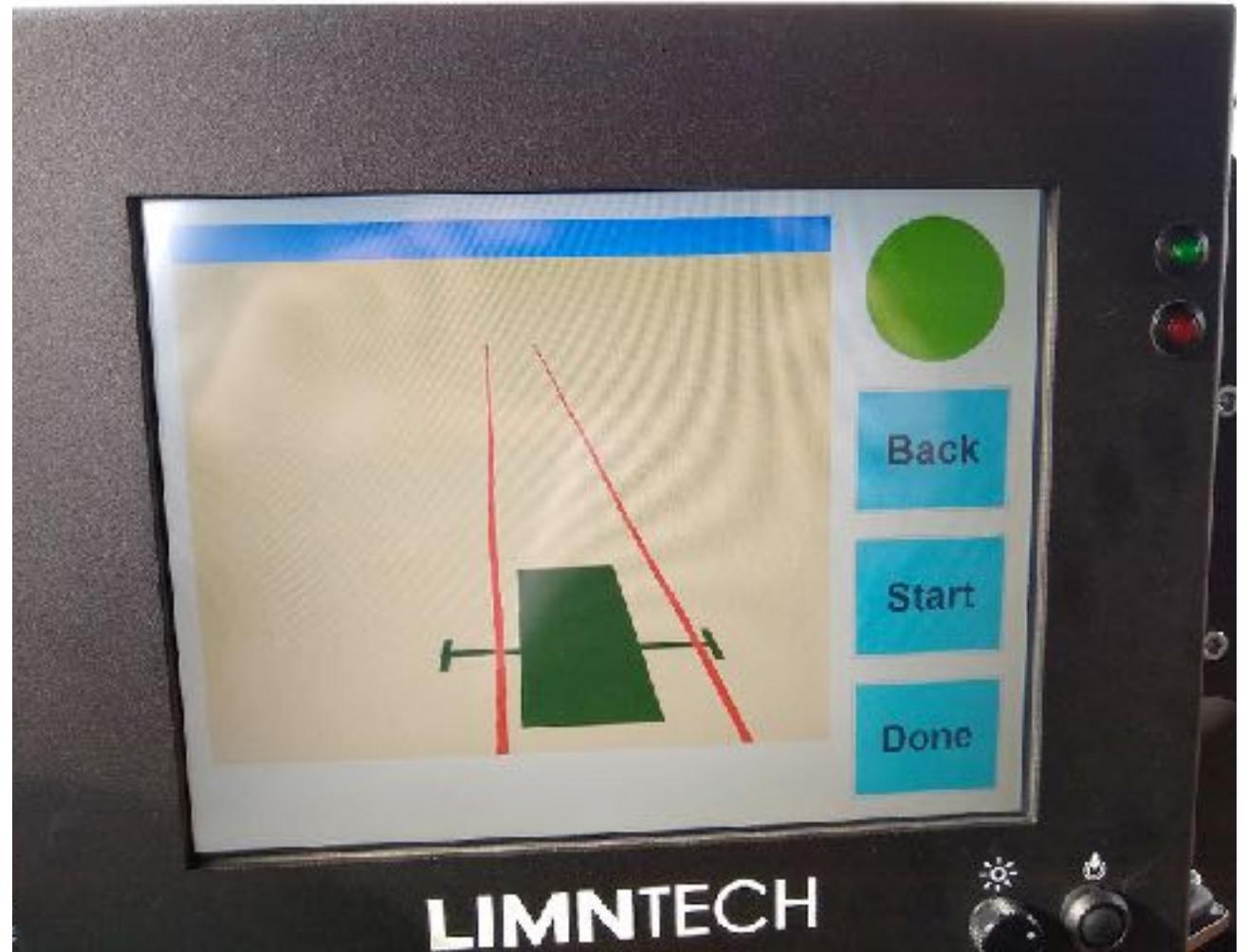
Choose your Lane Width

- Push the up or down arrow keys to change the lane width you will spray.
- When the correct lane width is chosen hit **Next**



Dual Carriage Layout Operation

- You will see two red guidance lines.
- Hit **Start** when ready.
- Carriages will engage.



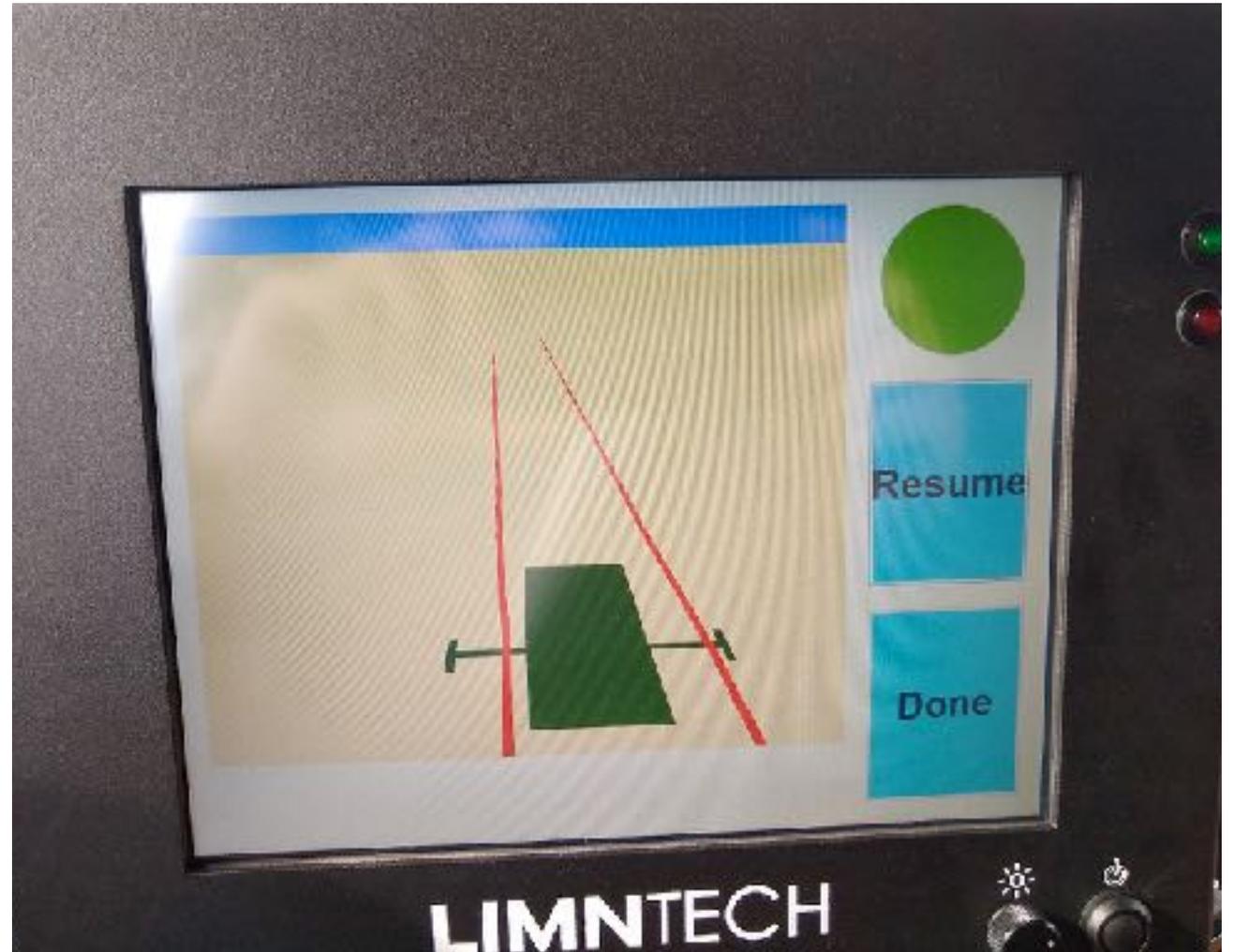
Screen during Layout

- Keep the truck in between the red lines.
- Hitting **Stop** will pause the layout.
- Carriages will pop in.



After hitting Stop during Layout

- Hit **Resume** to continue laying out.
- Carriages will pop back out.
- Hit **Done** if completed and you want to exit.



- Push **Recover System** when told to by system after errors.
- Push **Extend Carriage** to hydraulically move the carriage out for maintenance – PTO hydraulic power must be on.



Troubleshooting

- If a problem occurs the system will try to restart on its own. You may be told to go to Recover System in Setup Menu.
- If the system hangs, the red light might blink, and the system will try to restart multiple times.
- If the system will not start up after numerous attempts, call LimnTech.
- Make sure that the truck ignition is on and the truck engine is running to provide enough power.

A Problem has Occured

Recovery was Successful

Finish