

Determining whether a project is worth the overall investment is something that is always up for debate. With this project, there are so many things that are going to go into the project. Some of these things are going to be expensive and time consuming, while others are simple changes that can be done in a short amount of time, and less expensive. While we determined what was all going to be recommended for infrastructure changes throughout Iowa State’s campus, we examined all of our previous material and research to see exactly what was working with the current infrastructure, what was priority of change, and what we needed to make things better for biking on campus. After we had our prioritizing done and our phases were set for the future, determining what type of money will need to go into this project over the phases was one of the last steps.

### Phase 1

Adding more signs to campus is something that will be an inexpensive step, but help educate the public about where they are supposed to ride their bicycles. Iowa State University orders their signs through the Iowa Prison Industry, these signs range from \$14 to \$24 depending on the grade of sign that is ordered. Signs such as the three signs below are typical signs that are put up for designated bike lanes, shared roads, or designated bike routes.



With the addition of signs around campus, another thing that will be added in these phases will be repainting the current bike paths and making them more identifiable. One way to do this is to simply add stripes and identifying them as a bike lane only. Bike lane striping cost roughly \$0.62 per linear foot. Another thing that is being recommended is that the shared roads currently around campus need to have painted sharrow markings on them. The price to put sharrow markings on roads cost roughly between \$50 to \$100 per unit. These sharrow markings would look similar to the image below. Painting maintenance is usually done twice per year on all stripes, signals, or lines, depending on the usage amount.



The breakdown of the total cost of phase 1 is shown in the spreadsheet below.

Category	Specifications	Cost per unit	Unit	Total Units	Total Cost
Bike Lane Striping	6" white stripe	\$3,275	Mile	0.52	\$1,705
Sign	Share the road	\$14-\$24	Sign	60	\$840-\$1,440
Sign	Bike route	\$14-\$24	Sign	6	\$84-\$144
Symbol	Sharrow	\$53	Symbol	400	\$21,200
Symbol	Bike Lane Indicator	\$50-\$100	Symbol	5	\$250-\$500
				<b>Total Cost:</b>	<b>\$25,000</b>