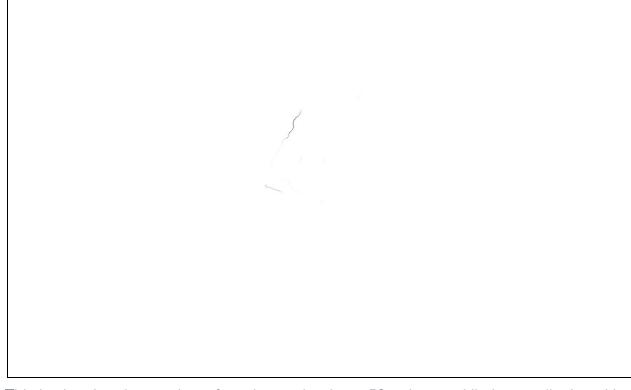
## Homework 5

A. Based on our discussion in class (12.7 Route networks), filter is set to maxspeed == "70 mph" change this to "50 mph," submit your igraph outputs; what differences you observe when comparing with "70 mph".



This is showing the number of roadways that have 50mph speed limits are displayed in the chart. The thicker the line means the higher the betweenness scores.

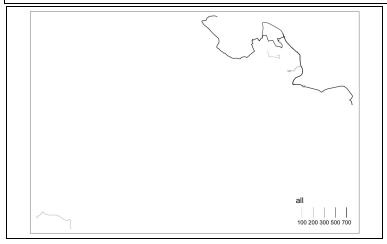
B. In 12.8 prioritizing new infrastructure, we set st\_set\_geometry("leg\_orig"). Set "leg\_dest" and generate your results using 'mapview'. Interpret your answer, is it reasonable to use leg\_dest? You may want to see FIGURE 12.4 for better interpretation.

```
route_rail = desire_rail %>%
   st_set_geometry("leg_dest") %>%
   route(1 = ., route_fun = osrmRoute, returnclass = "sf") %>%
   select(names(route_carshort))
route_rail
mapview::mapview(route_rail$all)

'``
{r}
route_cycleway = rbind(route_rail, route_carshort)
route_cycleway$all = c(desire_rail$all, desire_carshort$all)

'``
{r}
qtm(route_cycleway, lines.lwd = "all")

'``
```



This adds the little bit of lines to the bottom left of the bap. It shows lines based on the destination of everyone's trips around the city.