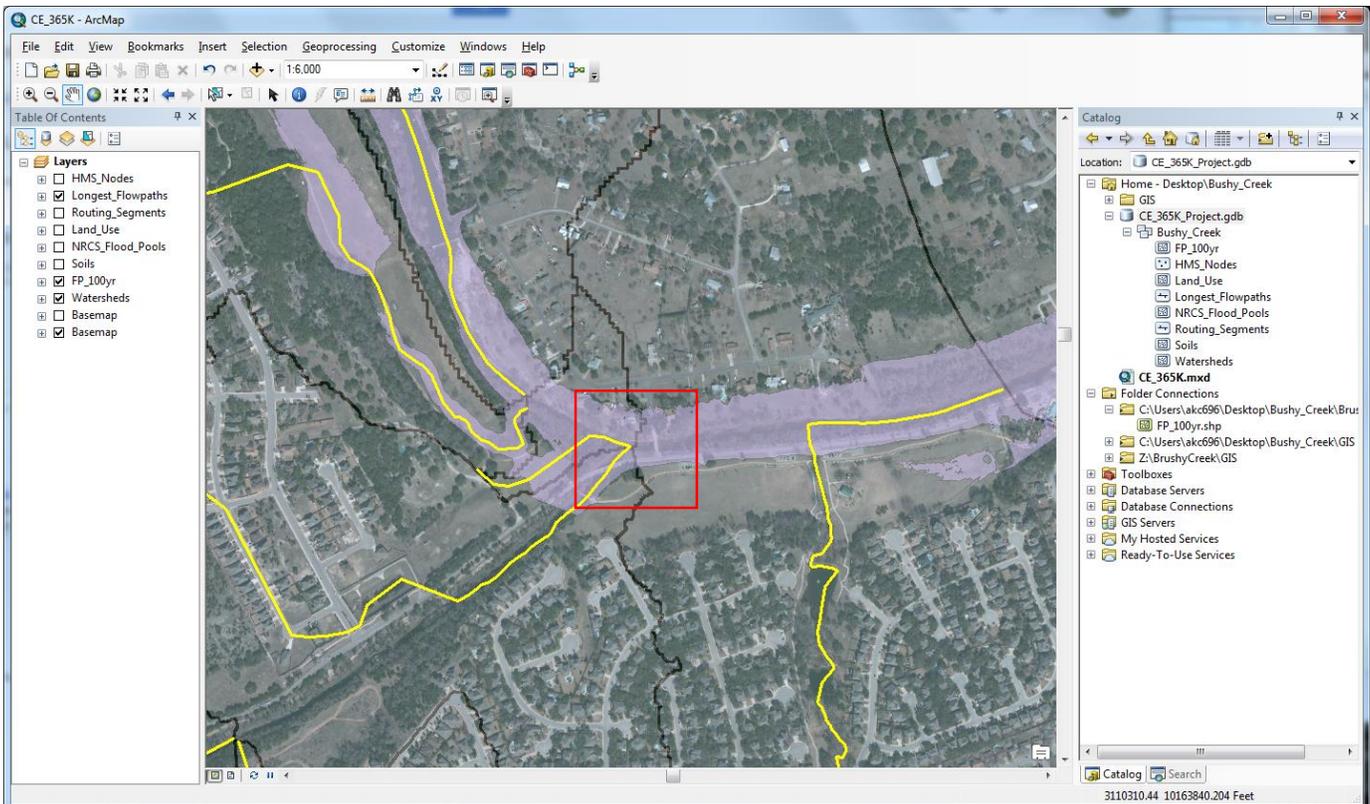


Brushy Creek Progress Report #1

The goal for our project is to provide alternate solutions for a low water cross area which once a serious flood has happened and damage the properties of the community after a heavy rainfall. The Walter Drive which is a bridge connected a major high way to that community.

The base map of the interest area is shown in figure one. As shown in figure 1, the community is under the flood zone for a 100 year flood plain. We are proposing three main alternate solutions for the issue of this area.



After our meeting with our mentor, Ruth Haberman, last Friday, April 4th. We learned that the City of Round Rock is planning to purchase that piece of land and restricted from access; we would like to continue research on this idea and propose it as one of our three alternate solution. We would like to do a more detail research and cost estimation regarding this option. The second solution we would like to propose is to build a new bridge or to modify the current

bridge. We would like to determine how is it going to effect the flow of the study area with different number of years of the rainfall by replacing a new bridge with a new cross section or modify the current bridge with different culvert size. Our third solution is to take away the bridge which will lead to another problem regarding the transportation and the accessibility of the study area. Since the bridge is the only access from the community to the major high way; it would be really inconvenience for the people form that community to commute to the major high way. However, the bridge is not qualified as a major access road because the intersection is really dangerous for cars to get on to the major high way; but further research are needed for us to do regarding the traffic design and transportation design aspect of the bridge in related with the major highway.