

## ***ABSTRACT***

The following subject has been done to design apart of bridge simply supported with ( 2 lane) and five main steel girders of (80 ft) in length. Several subject determenate in this project which consists of (five) chapters.

The first chapter is an introduction and definition of bridges.

Chapter two is about load on highway bridges.

Chapter three is about materials of construction for bridges.

Chapter four is design of super structure including:

Selection of beam, deck slab, side walk and diaphragm.

The beam is without plate and the construction is without using shoring.

Chapter five is design of substructure including elastomeric pad and abutment.