

202.02.02 Growth Projections

The Abu Dhabi Municipality's roadways are designed to serve the traffic volume anticipated during the next 20 years. Presently, historical records of past growth trends do not exist. Therefore, it is important that a reasonable growth projection is used to "size" the project.

The growth can be categorized as an increase, decrease or no change. It is anticipated that an increase will be the most probable scenario in the foreseeable future. The rate of growth can be expected to increase linearly each year or exponentially (i.e., an order of growth magnitude each year).

The growth projection can dramatically affect project "sizing". Therefore, the Consultant is expected to develop a realistic growth projection which takes into consideration variables such as:

- increases in vehicle ownership
- land use
- population growth rate, i.e. linear or exponential

In urban areas, growth projections are dependent upon the rate at which the Town Planning Master Plan is implemented, as well as the proposed types of land use. The Consultant is expected to confer with the Town Planning Department to ascertain the rate at which the Town Planning Master Plan is to be implemented.

In the rural areas, information regarding growth is less defined. In these cases, it is necessary that the Consultant make growth projections. These projections should take into account any data concerning growth, including changes in land use adjacent to the roadway. As a starting point, it can be assumed that the use of land is primarily agricultural, with an average growth of 1% to 2% per year for a period of 20 years.

The resulting growth projection, along with supporting data and the rationale used to substantiate the project, shall be approved by the Town Planning Section.

202.02.03 Public Services

The development of all road and bridge projects typically affects many public services. This can result from encroachment of the improvement project beyond the existing roadway, sidewalk, and bridge. As such, pre-design coordination with public services is required to incorporate design approaches and construction phasing that minimize the project impact.

The Consultant is responsible for identifying all public services which may be affected by the roadway/bridge project. In addition, the Consultant is also responsible to compile all relevant design requirements from the affected public services and incorporate these parameters into the project design. It is the Consultant's responsibility to assure the Abu Dhabi Municipality that the design and construction phasing meets the approval of the affected public service.

Table 200.03 identifies the various Public Services and the responsible agency/authority for each.

Table 200.03
Public Services

<i>Service</i>	<i>Agency/Authority</i>
Road/Bridge	
Construction	ADM-Road Section
Agriculture/Parks	ADM-Agriculture
Police	Police Directorate/ Traffic Police Dept.
Fire	Civil Defense Dept.
Security	Defense Dept./CID
Schools	Town Planning/ Ministry of Education
Sanitation	ADM - Health Section
Parking	ADM - Road Section
Recreational	Town Planning/ Agriculture
Navigable Waters	Coast Guard
Mail Service	Postal Directorate
Public Transportation	ADM - Public Transport Section

202.02.04 Schools

Schools are an important national resource. The design shall accommodate and preserve sufficient access to all facilities that are affected by project design. Therefore, the Consultant is expected to