

3. The crossing of gas or fuel lines through the bridges should be carefully monitored. The crossing of such lines should not be allowed without the specific approval of the SAUP.
4. The power lines are not permitted on bridges under any condition with the exception of low voltage distribution lines. It is important to note that bridge attachments should not be hanged from the bottom of beams. This decreases freeboard and increases the likelihood of damage.
5. Before proposing any utility bridge it is important to conduct adequate study to anticipate the need of such bridge for crossings and to determine if convergence of several crossings can be made to make it more feasible.
6. In a combined bridge, provision shall be made to isolate mutually hazardous transmittants such as fuels and electric energy by compartmentizing or by auxiliary encasement of incompatible carriers.

The utility bridge shall comply in appearance, location, cover, earthwork and markers with the standards as set in the current Road Structures Design Manual Manual published by DoT.

## 5.4 Light Rail, Metro and Regional Rail

The development of transit systems including light rail, metro and regional rail are in the planning stages. Presently, DoT is conducting feasibility studies for the transit systems; however, the ROW for the regional rail has been developed at conceptual level and the details are presented in the Figure 36 below:

**Figure 36: ROW for the Regional Rail**

