**Sets**

*T* – Transport starting location actions

*D –* Commodity dropoff actions

*P* – Commodity pickup or dropoff actions

*R* – All route actions: *T* union *P*

*C* – Capacity maps from *T* union *D* to *Z*

**Variables**

– Duration of the path for transport or commodity (by dropoff) *i*

– Distance of the path for transport or commodity (by dropoff) *i*

– True if transport *i* has an edge from *k1* to *k2*

– True if transport *i* has a subpath from *k1* to *k2*

– True if the commodity dropped off at *c* has a preceding subpath from *k1* to *k2*

**Constraints**