```
list_set_type  THM

⊢  ∀T:Type, L:T List, P:(T→Prop).
   (∀x∈L.P(x)) ⇒ L ∈ {x:T| P(x) } List
  by InductionOnList THEN Auto THEN RWO "l_all_cons" (-1) THENA Auto

     THEN Try BackThruSomeHyp THEN Auto
END
```