```
|\hspace{.06cm}
ightarrow | cons\left( |\hspace{.06cm} \mathit{first}\hspace{.06cm}|,\hspace{.08cm} \texttt{lazy-seq}\!\left( |\hspace{.06cm}\!\mathit{rest}\hspace{.06cm}| \right) \right)
     first kw rest
\texttt{expr} \leftarrow \texttt{match-cons} \left\{ \textit{expr:expr, first':bind, rest':bind, body:expr, else:expr} \right\}
                    expr with kw first rest rest

ightarrowsym body else ^{\mathsf{kw}} else
                                                                                                                                |\mathbf{let} \ x = |expr|
                                                                                                                                    in if seq(x) then body
                                                                                                                                                                                                        else else
                                                                                                                                                                      where
                                                                                                                                                                          |first'| = first(x)
                                                                                                                                                                          rest' = rest(x)
expr \leftarrow for \{x':bind, seq:expr, expr':expr\}
     expr' x' \leftarrow sym
                                        |seq|
                                                                where
```

 $f = ext{ fn } s 
ightarrow \left( ext{ match } s ext{ with } \middle| x' \middle| : xs 
ightarrow \left| ext{ expr'} \middle| : f'(xs) ext{ else nil } 
ight)$ 

 $expr \leftarrow cons \{first: expr, rest: expr\}$