Highway 407 Eastern Extension
Phase One – Brock Rd to Harmony Rd

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Phase One Description

- A total of 21.2 km mainline (Hwy 407) and 10 km N-S connector (Hwy 412)
  - 6 lanes from Brock Rd to Hwy 412 (10.2 km)
  - 4 lanes from Hwy 412 to Harmony Rd (11.0 km)
  - 4 lanes for Hwy 412 (10 km)
- Over 10 million m$^3$ of earthworks
- Over 3 million tonnes of granular
- Approximately 700,000 tonnes of Hot Mix
  - SP 12.5 mm wearing course of SP 19.0 and SP 25.0 mm binder
- 17 interchanges (some partial or deferred)
- 64 structures
Hwy 407 and Hwy 412 Interchange
Hwy 401 and Hwy 412 Interchange
Planning for Hwy 407 started over 25 years ago with the route selection and the EA.

The individual EA started in 2005 and was completed in 2010.

Construction began in May 2012.

Paving started in the fall of 2014.

Phase One opened to traffic in June 2016.
Paving on the Coco Section (4 lane section)
## Pavement Design

<table>
<thead>
<tr>
<th>Section</th>
<th>Hwy 407 (W to E)</th>
<th>Hwy 412 (N to S)</th>
<th>Hwy 401</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>A-1</td>
<td>A-2</td>
<td>A-3</td>
</tr>
<tr>
<td>ESALs (M)</td>
<td>23.6</td>
<td>19.5</td>
<td>16.7</td>
</tr>
<tr>
<td>HMA (mm)</td>
<td>215</td>
<td>210</td>
<td>205</td>
</tr>
<tr>
<td>Granular A (mm)</td>
<td>550</td>
<td>475</td>
<td>475</td>
</tr>
<tr>
<td>Total Pavement Thickness (mm)</td>
<td>765</td>
<td>685</td>
<td>680</td>
</tr>
</tbody>
</table>
Phase Two

- Second Phase split into two sections
  - Construction started in 2015
  - Phase 2A will continue mainline for 9.27 km from Harmony Rd to Taunton Rd / Hwy 418 (opens in 2017)
  - Phase 2B will extend the mainline to connect to Hwy 35/115 near Kirby and include Hwy 418, a new N-S connector to Hwy 401 (opens in 2020)
- Pavement design is not yet finalized but it will also be asphalt throughout
Thank you

Questions?