

3rd Party Analysis of Roundabout Performance for Cypress / CA1

Report to the MCC

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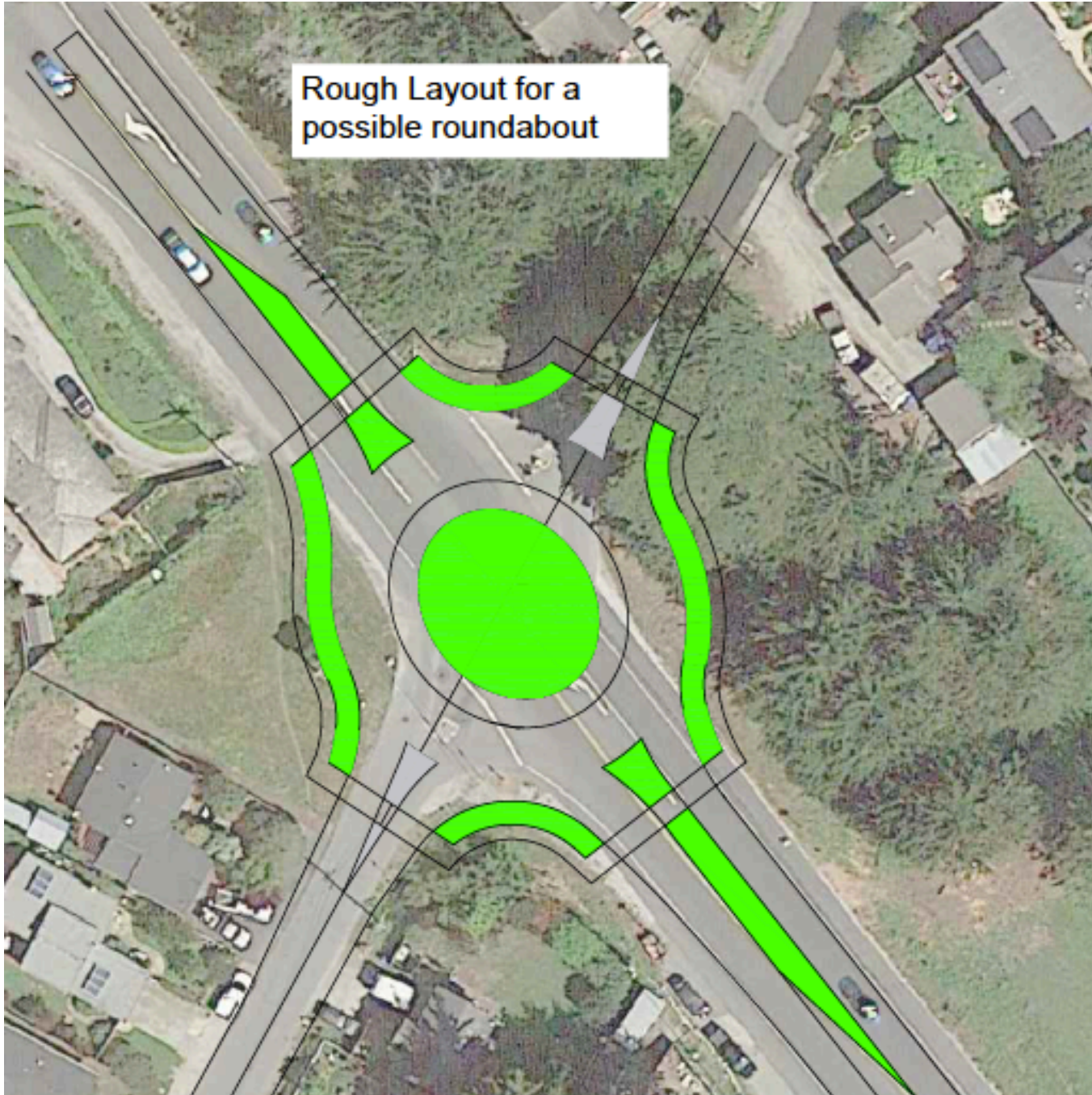
Preliminary Steps

- Review Cypress / CA 1 Intersection
 - Identify Specific Peak Hour Case
 - Cumulative Traffic + Project AM / PM Peak
- Work with an identified Roundabout Expert with working design and implementation experience.
- Review HCM2010 Analysis of this intersection case by Hexagon's August, 2014 report

Identify Roundabout Resource with Design, Analysis and Implementation Roundabout Experience

- Michael J. Wallwork, Roundabout Expert from
of Orange Park, Florida

Rough Layout for a possible roundabout



Report Summary

- Discussed layout considerations for a roundabout at this location.
- Discussed Model Comparisons of SIDRA (used by Mr. Wallwork) and HCM 2010 (used by Hexagon)
- Provided output for target intersection and traffic pattern that matched Hexagon report.
- For the AM and PM cases, analysis showed LOS A / B for Northbound / Southbound Traffic. Comparable Hexagon analysis showed LOS C / F.