

**From:** Julie M. Kroll  
**To:** [DiLeo, Alexis](#)  
**Cc:** [Liu, Luke](#); [Redinger, Cynthia](#); [Ron Mucha \(rmucha@morningsideUSA.com\)](mailto:rmucha@morningsideUSA.com); [Brandon M. Hayes](#); [Mike J. Labadie](#)  
**Subject:** RE: Morningside Revised TIS-6/21/2017  
**Date:** Monday, July 17, 2017 3:57:22 PM  
**Attachments:** [Maiden Lane & Neilson Court Signal Warrant Analysis.xls](#)

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Alexis,

The signal warrant analysis spreadsheet is attached for Maiden Lane & Neilson Court. The analysis includes only Warrants 3 & 4 per the MMUTCD.

- We did not evaluate Warrant 1 (Eight-Hour Vehicular Volume) as we only collected four hours of turning movement counts at the study intersections per the project scoping meetings and discussions held with the City of Ann Arbor over the preceding months, and the evaluation of Warrant 1 requires a minimum eight hours of traffic volumes.
- We did not evaluate Warrant 2 (Four-Hour Vehicular Volume) as we only projected the AM peak hour and PM peak hour site-generated person trips (two hours in total). As you'll see in the attached Warrant 2 worksheet, neither of the peak hour vehicle volumes at this location meet the warrant thresholds. Therefore, it follows that the AM peak period and PM peak period shoulder hours (where volumes are lower) would not meet the thresholds, either. Therefore, it can be concluded that none of the four hours of traffic data meet the signal warrant threshold as outlined in Warrant 2. In order for a signal to be warranted under Warrant 2, all four analysis hours must meet the warrant threshold.

Therefore, only Warrants 3 and 4 were applicable for this site and were thus included in the study.

Please let us know if you have any further questions or need additional clarification regarding the traffic study.

Thanks,  
Julie

Julie M. Kroll, PE, PTOE

**FLEIS & VANDENBRINK**

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**From:** DiLeo, Alexis [mailto:ADiLeo@a2gov.org]  
**Sent:** Friday, July 14, 2017 10:20 AM  
**To:** Julie M. Kroll <jkroll@fveng.com>  
**Cc:** Liu, Luke <YLiu@a2gov.org>; Redinger, Cynthia <CRedinger@a2gov.org>

**Subject:** RE: Morningside Revised TIS-6/21/2017

Julie,

Preliminary feedback, see below (highlighted in yellow by me for easier digging).

**Alexis DiLeo, AICP | City Planner**

City of Ann Arbor Planning & Development

301 East Huron Street, P.O. Box 8647

Ann Arbor, MI 48107-8647

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**From:** Liu, Luke

**Sent:** Friday, July 14, 2017 10:18 AM

**To:** DiLeo, Alexis <[ADiLeo@a2gov.org](mailto:ADiLeo@a2gov.org)>; Redinger, Cynthia <[CRedinger@a2gov.org](mailto:CRedinger@a2gov.org)>

**Subject:** RE: Morningside Revised TIS-6/21/2017

Can you forward this to Julie? This is only about the intersection at Nielson Court. Cynthia may have other review comments. Thanks.

Luke

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**From:** DiLeo, Alexis

**Sent:** Friday, July 14, 2017 9:15 AM

**To:** Liu, Luke <[YLiu@a2gov.org](mailto:YLiu@a2gov.org)>; Redinger, Cynthia <[CRedinger@a2gov.org](mailto:CRedinger@a2gov.org)>

**Subject:** RE: Morningside Revised TIS-6/21/2017

Luke,

Sure thing. Should I forward this email to Julie Kroll or would you like to write up a memo?

**Alexis DiLeo, AICP | City Planner**

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**From:** Liu, Luke

**Sent:** Thursday, July 13, 2017 3:14 PM

**To:** DiLeo, Alexis <[ADiLeo@a2gov.org](mailto:ADiLeo@a2gov.org)>; Redinger, Cynthia <[CRedinger@a2gov.org](mailto:CRedinger@a2gov.org)>

**Subject:** RE: Morningside Revised TIS-6/21/2017

Hi, Alexis.

I'd like to request traffic signal warrant analysis spreadsheet from F&V for intersection Maiden &

Neilson. Only Warrant 3 and Warrant 4 are included in the PDF version of latest report. Thanks.

Luke

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**From:** DiLeo, Alexis

**Sent:** Wednesday, July 12, 2017 10:25 AM

**To:** Redinger, Cynthia <[CRedinger@a2gov.org](mailto:CRedinger@a2gov.org)>; Liu, Luke <[YLiu@a2gov.org](mailto:YLiu@a2gov.org)>

**Subject:** FW: Morningside Revised TIS-6/21/2017

Hi, Cynthia and Luke,

Any update that I can pass along to Julie? Perhaps you have already spoken to her directly yesterday?

**Alexis DiLeo, AICP | City Planner**

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**From:** Julie M. Kroll [<mailto:jkroll@fveng.com>]

**Sent:** Monday, July 10, 2017 5:38 PM

**To:** DiLeo, Alexis <[ADiLeo@a2gov.org](mailto:ADiLeo@a2gov.org)>

**Cc:** Liu, Luke <[YLiu@a2gov.org](mailto:YLiu@a2gov.org)>; Ron Mucha ([rmucha@morningsideUSA.com](mailto:rmucha@morningsideUSA.com)) <[rmucha@morningsideUSA.com](mailto:rmucha@morningsideUSA.com)>; Brandon M. Hayes <[bhayes@fveng.com](mailto:bhayes@fveng.com)>; Mike J. Labadie <[mlabadie@fveng.com](mailto:mlabadie@fveng.com)>; Redinger, Cynthia <[CRedinger@a2gov.org](mailto:CRedinger@a2gov.org)>

**Subject:** RE: Morningside Revised TIS-6/21/2017

Hi Alexis,

I wanted to check if there are any review comments on the most recent traffic submittal from June 21<sup>st</sup>, I checked etrakit and didn't see it listed. Do you have an ETA?

Thanks,

Julie

Julie M. Kroll, PE, PTOE

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**From:** Julie M. Kroll  
**Sent:** Wednesday, June 21, 2017 1:58 PM  
**To:** Cynthia Redinger ([credinger@a2gov.org](mailto:credinger@a2gov.org)) <[credinger@a2gov.org](mailto:credinger@a2gov.org)>  
**Cc:** ADiLeo ([ADiLeo@a2gov.org](mailto:ADiLeo@a2gov.org)) <[ADiLeo@a2gov.org](mailto:ADiLeo@a2gov.org)>; 'Liu, Luke' <[YLiu@a2gov.org](mailto:YLiu@a2gov.org)>; Ron Mucha ([rmucha@morningsideUSA.com](mailto:rmucha@morningsideUSA.com)) <[rmucha@morningsideUSA.com](mailto:rmucha@morningsideUSA.com)>; Brandon M. Hayes <[bhayes@fveng.com](mailto:bhayes@fveng.com)>; Mike Labadie <[mlabadie@fveng.com](mailto:mlabadie@fveng.com)>; Lia Michaels ([lmichaels@hrc-engr.com](mailto:lmichaels@hrc-engr.com)) <[lmichaels@hrc-engr.com](mailto:lmichaels@hrc-engr.com)>  
**Subject:** Morningside Revised TIS-6/21/2017

Cynthia,

Attached is the response letter to comments from June 2<sup>nd</sup>, 2017. The updated report and appendices (Synchro models) are available for download here:

<https://fveng.sharefile.com/d-s8711a2526074ca0b>

**Alexis**-Can you please upload the report into the etrakit system for this project?

Please let me know if you have any questions or need any additional information.

Thanks,  
Julie

**Julie M. Kroll, PE, PTOE**  
**Sr. Project Manager**

**FLEIS & VANDENBRINK**

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