

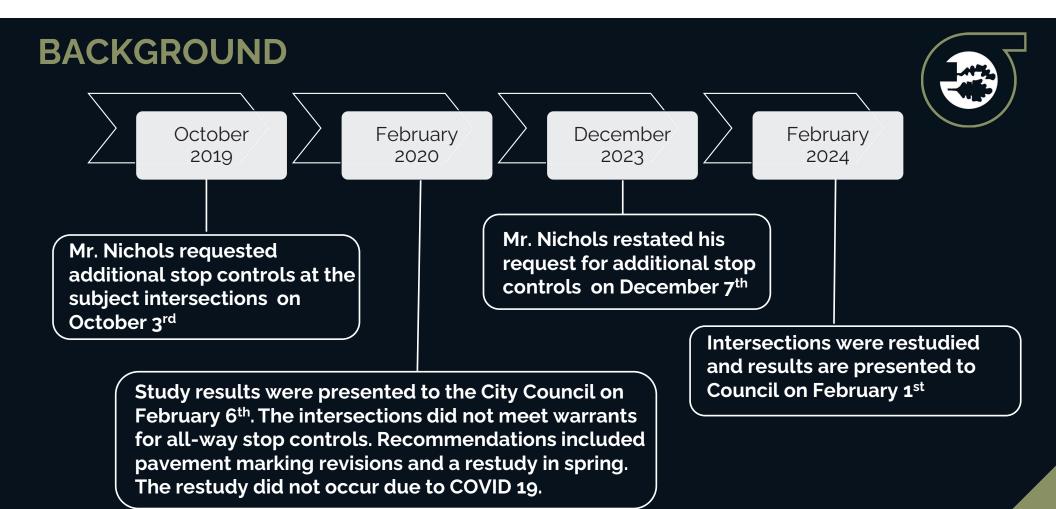
Intersection Analysis



Battle Intense at Hansel Dr/High Eschelon

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BACKGROUND



TMUTCD (2B.07) Multi-Way Stop Control:

- Can be used as a safety measure at intersections if certain traffic conditions exist.
- Should be used where traffic volumes on the intersecting roads is approximately equal.
- Shall be based on a traffic engineering study for justification.

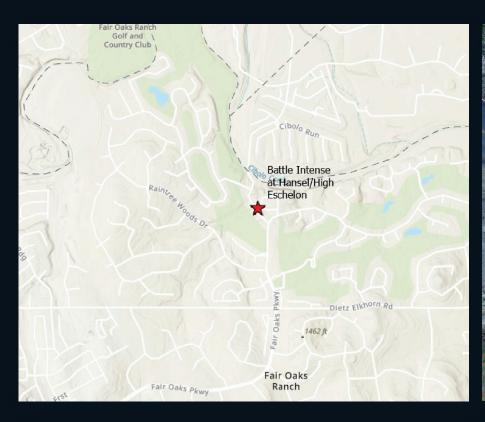


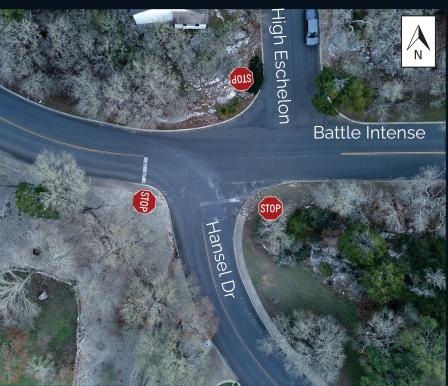
BACKGROUND

TMUTCD (2B.07) Multi-Way Stop Warrants:

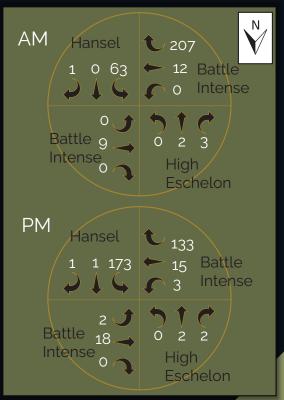
- A. As an interim measure where traffic control signals are justified.
- B. Where five or more reported crashes in a 12-month period might have been preventable with a multi-way stop installation.
- C. Where minimum traffic volumes are met as follows:
 - Major street approaches average at least 300 vehicles per hour for any 8 hours of an average day; and
 - 2. Minor street approaches (total of both approaches) average at least 200 units per hour for the same 8 hours, with an average delay to minor-street vehicular traffic of at least 30 seconds per vehicle during the highest hour; but
 - 3. If the 85th-percentile approach speed of the major-street traffic exceeds 40 mph, the minimum vehicular volume warrants are 70 percent of the values provided in Items 1 and 2.
- D. Where no single criterion is satisfied, but where Criteria B, C.1, and C.2 are all satisfied to 80 percent of the minimum values.













Results of All-Way-Stop Warrant Analysis

- A. Does Not Meet Warrant A
 - Traffic signal not warranted so cannot be an interim measure
- B. Does Not Meet Warrant B
 - Only 1 non-intersection crash reported (2017)
- C. Does Not Meet Warrant C
 - Traffic volumes are very low
- D. Does Not Meet Warrant D
 - Full reduction factors were considered





Special Considerations

- ✓ Non-Aligned Streets
- ✓ Sight Distance Limitations (City has trimmed back vegetation)
- √ 3-Way Stop Condition
- ✓ Driver Expectation
- ✓ Pedestrian Movements
- ✓ Grades of Approaches



Traffic Engineering Study Results



- Does not warrant based on observed left-turn conflicts
- Does not warrant based on observed pedestrian activity
- Does not warrant based on comparison of cross-street operating characteristics
- Does not warrant based on traffic volumes
- Does warrant based on limited sight distance

Proposed Mitigation Measures

- Install Stop Sign on Westbound Approach
- Enhance Existing
 Pavement Markings and
 Install Stop Bars on SB
 and WB Approaches
- Continue to Trim Existing Vegetation to Improve Visibility

