

# TRAFFIC SIGNAL WARRANT ANALYSIS ENGINEERING AND TRAFFIC STUDY

PLEASE TYPE OR PRINT ALL INFORMATION IN BLUE OR BLACK INK



## A - LOCATION INFORMATION

COUNTY	MUNICIPALITY(S)
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### MAJOR STREET INFORMATION

SR#/LOCAL HIGHWAY	SEGMENT	OFFSET
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STREET NAME
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### MINOR STREET INFORMATION

SR#/LOCAL HIGHWAY	SEGMENT	OFFSET
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STREET NAME
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## B - REFERENCE INFORMATION

REFERENCE Chapter 212	SECTION(S) 212.302
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REFERENCE MUTCD	SECTION(S) 4C.01 THROUGH 4C.09
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REFERENCE Vehicle Code Title 75 Pa. C.S.	SECTION(S) §3111
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## C - STUDY ELEMENTS

### FROM MUTCD AND PENNDOT PUBLICATION 212:

- |                                                               |                                                                              |                                                                     |
|---------------------------------------------------------------|------------------------------------------------------------------------------|---------------------------------------------------------------------|
| <input type="checkbox"/> WARRANT 1-Eight-Hour (Section 4C.02) | <input type="checkbox"/> WARRANT 4-Pedestrian Volume (Section 4C.05)         | <input type="checkbox"/> WARRANT 7-Crash Experience (Section 4C.08) |
| <input type="checkbox"/> WARRANT 2-Four-Hour (Section 4C.03)  | <input type="checkbox"/> WARRANT 5-School Crossing (Section 4C.06)           | <input type="checkbox"/> WARRANT 8-Roadway Network (Section 4C.09)  |
| <input type="checkbox"/> WARRANT 3-Peak-Hour (Section 4C.04)  | <input type="checkbox"/> WARRANT 6-Coordinated Signal System (Section 4C.07) | <input type="checkbox"/> WARRANT 9-ADT Volume (§212.302 (b)(3))     |

### FROM PENNDOT PUBLICATION 212 APPENDIX:

- |                                                |                                                  |                                               |
|------------------------------------------------|--------------------------------------------------|-----------------------------------------------|
| <input type="checkbox"/> Crash Analysis (1)    | <input type="checkbox"/> Pedestrian Volumes (12) | <input type="checkbox"/> Traffic Signals (19) |
| <input type="checkbox"/> Capacity Analysis (6) | <input type="checkbox"/> Sight Distance (16)     | <input type="checkbox"/> Traffic Volumes (20) |
| <input type="checkbox"/> Geometric Review (8)  | <input type="checkbox"/> Speed Data (17)         | <input type="checkbox"/> Other _____          |

## D - ATTACHMENTS LISTING

### Check those that apply and attach to this form in the order listed below:

- |                                                                       |                                                                      |                                                             |
|-----------------------------------------------------------------------|----------------------------------------------------------------------|-------------------------------------------------------------|
| <input type="checkbox"/> 1. Municipal Letter or Memo Requesting Study | <input type="checkbox"/> 7. Fieldview Drawing or Condition Diagram   | <input type="checkbox"/> 13. Capacity Analysis              |
| <input type="checkbox"/> 2. Completed Application (TE-952)            | <input type="checkbox"/> 8. Crash Extract                            | <input type="checkbox"/> 14. RMS/STAMPP Identification Data |
| <input type="checkbox"/> 3. Financial Commitment Letter               | <input type="checkbox"/> 9. Crash Rate                               | <input type="checkbox"/> 15. Traffic/Pedestrian Volumes     |
| <input type="checkbox"/> 4. Location Map                              | <input type="checkbox"/> 10. Collision Diagram Plot                  | <input type="checkbox"/> 16. Traffic Signal Permit Plan     |
| <input type="checkbox"/> 5. Photographs                               | <input type="checkbox"/> 11. Speed Study and Speed Limit Information | <input type="checkbox"/> 17. Other _____                    |
| <input type="checkbox"/> 6. Straight Line Diagram                     | <input type="checkbox"/> 12. Warrant Analysis                        |                                                             |

### Confidential - Traffic Engineering and Safety Study

This document is the property of the Commonwealth of Pennsylvania, Department of Transportation. The data and information contained herein are part of a traffic engineering and safety study. This safety study is only provided to those official agencies or persons who have responsibility in the highway transportation system and may only be used by such agencies or persons for traffic safety related planning or research. The document and information are confidential pursuant to 75 Pa. C.S.3754 and 23 U.S.C. 409 and may not be published, reproduced, released or discussed without the written permission of the Pennsylvania Department of Transportation.

**E - SITE OBSERVATION CHECKLIST**

1. Study Information:

Study performed by: \_\_\_\_\_ Date Study was performed: \_\_\_\_\_

Company Name: \_\_\_\_\_ Phone Number: \_\_\_\_\_

2. Were other alternatives considered as indicated in the Manual on Uniform Traffic Control

Devices (MUTCD) Section 4B.04 "Alternatives to Traffic Control Signals" and the Transportation Impact

Study (TIS) Guidelines? (Explain) .....  YES  No

3. Was this intersection previously signalized? .....  YES  No

If yes, please indicate last date intersection was studied or Signal Permit Date: \_\_\_\_\_

4. Was the intersection visited before the Traffic Signal Warrant Analysis was completed? .....  YES  No

5. Traffic Signal Warrant Analysis is based on the \_\_\_\_\_  
(Project/Development) that is expected to be completed on \_\_\_\_\_ (date).

6. Automated Traffic Recorder (ATR) Counts:

Type of Count Device: \_\_\_\_\_ Date: \_\_\_\_\_

Company Performing Count: \_\_\_\_\_

7. Manual Vehicular Turning Movement Counts:

Individual Performing Count: \_\_\_\_\_ Date: \_\_\_\_\_

Company Performing Count: \_\_\_\_\_

Count Parameters: \_\_\_\_\_

8. Pedestrian Counts (if applicable):

Individual Performing Count: \_\_\_\_\_ Date: \_\_\_\_\_

Company Performing Count: \_\_\_\_\_

- 9. Warrant 1 (MUTCD Section 4C.02)       Satisfied       Unsatisfied       Not Evaluated
- 10. Warrant 2 (MUTCD Section 4C.03)       Satisfied       Unsatisfied       Not Evaluated
- 11. Warrant 3 (MUTCD Section 4C.04)       Satisfied       Unsatisfied       Not Evaluated
- 12. Warrant 4 (MUTCD Section 4C.05)       Satisfied       Unsatisfied       Not Evaluated
- 13. Warrant 5 (MUTCD Section 4C.06)       Satisfied       Unsatisfied       Not Evaluated
- 14. Warrant 6 (MUTCD Section 4C.07)       Satisfied       Unsatisfied       Not Evaluated
- 15. Warrant 7 (MUTCD Section 4C.08)       Satisfied       Unsatisfied       Not Evaluated
- 16. Warrant 8 (MUTCD Section 4C.09)       Satisfied       Unsatisfied       Not Evaluated
- 17. Warrant 9 (§212.302 (b)(3))       Satisfied       Unsatisfied       Not Evaluated

This traffic engineering and safety study is confidential pursuant to 75 Pa. C.S. 3754 and 23 U.S.C. 409 and may not be disclosed or used in litigation without written permission from PennDOT.

**F - SITE DATA**

Blank area for site data.

**G - REMARKS**

Blank area for remarks.

**H - ENGINEERING JUDGMENT**

Blank area for engineering judgment.

**I - APPROVALS**

**Comments:**

Blank area for comments.

Reviewed and Approved by Signature (Signals Supervisor or Manager)	Name/Title	Date
Reviewed and Approved by Signature (District Executive)	Name/Title	Date

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