

MULTIWAY STOP CONTROL AT INTERSECTIONS ENGINEERING AND TRAFFIC STUDY

PLEASE TYPE OR PRINT ALL INFORMATION IN BLUE OR BLACK INK



pennsylvania

DEPARTMENT OF TRANSPORTATION

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A - LOCATION INFORMATION

COUNTY		MUNICIPALITY
MAJOR STREET INFORMATION		
SR#	TR#	STREET NAME
STATION		LOCATION
MINOR STREET INFORMATION		
SR#	TR#	STREET NAME
STATION		LOCATION

B - REFERENCE INFORMATION

REFERENCE Chapter 212	SECTION(S) 212.106 (c)
REFERENCE MUTCD	SECTION(S) 2B.07, 3B.16
REFERENCE Vehicle Code Title 75 Pa. C.S.	SECTION(S) §3323, 6109(a)(6) and 6124

C - STUDY ELEMENTS

FROM PUB 212 APPENDIX:

- | | | |
|--|--|---|
| <input type="checkbox"/> Crash Analysis (1) | <input type="checkbox"/> Pedestrian Volumes (12) | <input type="checkbox"/> Traffic Volumes (20) |
| <input type="checkbox"/> Acceleration Lane (2) | <input type="checkbox"/> Sight Distance (16) | <input type="checkbox"/> Other _____ |
| <input type="checkbox"/> Geometric Review (8) | <input type="checkbox"/> Speed Data (17) | _____ |

D - ATTACHMENTS LISTING

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

- | | | |
|---|--|---|
| <input type="checkbox"/> 1. 10 Day Response Letter | <input type="checkbox"/> 7. Crash Extract | <input type="checkbox"/> 13. Traffic/Pedestrian Volumes |
| <input type="checkbox"/> 2. Letter or Memo Requesting Study | <input type="checkbox"/> 8. Crash Rate | <input type="checkbox"/> 14. STAMPP Identification Data |
| <input type="checkbox"/> 3. Location Map | <input type="checkbox"/> 9. Crash Plot | <input type="checkbox"/> 15. Speed Permit |
| <input type="checkbox"/> 4. Straight Line Diagram | <input type="checkbox"/> 10. Speed Study | <input type="checkbox"/> 16. Other _____ |
| <input type="checkbox"/> 5. Photographs | <input type="checkbox"/> 11. Warrant | _____ |
| <input type="checkbox"/> 6. Field View Drawing | <input type="checkbox"/> 12. Multi-Way Stop or Truck Restriction Worksheet | _____ |

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

Operational Checklist:

1. Do obstructions block the drivers' view of approaching vehicles? YES NO N/A
2. Do drivers respond correctly to signals, signs, or other traffic control devices? YES NO N/A
3. Is there evidence of crashes (*skid marks, property damage, tree/bush damage, broken glass/vehicle parts, etc.*)? YES NO N/A
4. Are there violations of parking regulations or other traffic movements? YES NO N/A
5. Do drivers appear confused about routes, street names, or other guidance information? YES NO N/A
6. Have you observed the location during peak hours for volume and crashes? YES NO N/A
7. Are there traffic flow deficiencies or traffic conflict patterns associated with turning movements? YES NO N/A
8. Is there significant delays and/or congestion? YES NO N/A
9. Do pedestrian movements through the location cause conflicts? YES NO N/A
10. Are there other traffic flow deficiencies or traffic conflict patterns? YES NO N/A

Physical Checklist:

1. Can sight obstructions be removed or lessened? YES NO N/A
2. Do the street alignments or widths adequately accommodate the type of traffic using the roadway? YES NO N/A
3. Are curb radii adequate for turning vehicles? YES NO N/A
4. Are pedestrian crosswalks properly located? YES NO N/A
5. Are signs adequate as to usefulness, message, size, conformity, and placement? YES NO N/A
6. Are traffic signals adequate as to placement, visibility, glare, conformity, number of signal heads, or timing? . YES NO N/A
7. Are pavement markings adequate as to their conformance to standards and location? YES NO N/A
8. Is channelization (islands or paint markings) adequate for reducing conflict areas, separating traffic flows, and defining movements? YES NO N/A
9. Does the existing legal parking layout affect sight distance for through or turning vehicles? YES NO N/A
10. Is the pavement condition free of potholes, washboard, slick surface, etc.? YES NO N/A

F - SITE DATA

DATE DATA COLLECTED	PERSON CONDUCTING STUDY	TITLE
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1. Is the multiway stop being installed as an interim measure until the signal approval and installation is completed? YES NO
2. List the number of crashed for the previous 12 month period by type and/or causation factor. ****This may include non-reportable crashes.****

3. 85th percentile speed of major approach is _____ MPH.
- 4a. Does the vehicular volume entering the intersection from the major street approaches average at least 300 vehicles/hour for any 8 hours? YES NO
- 4b. Does the combined vehicular, pedestrian and bicycle volume from the minor street approaches average at least 200/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? YES NO
- 4c. If #3 > 40 MPH, then the minimum vehicular volume warrants are 70% of 4a and 4b.

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F - SITE DATA (CONTINUED)

- 5. Where #2, #4a and #4b are satisfied to 80% of their minimum values. **Note: #4c is excluded from this condition.**
- 6a. Determine and list the minimum intersection sight distance for all approaches.
- 6b. List the posted, approach speeds on all intersection legs.
- 6c. Is there any practical method for improving the sight distance at these intersections? YES NO
- 7. List any other factors justifying a multiway stop.

- 8. Has the municipality agreed to purchase, erect and maintain the signs necessary to legalize the above stop intersection at no cost to the Department YES NO
- 9. Has the Through Highway permit been modified YES NO

G - REMARKS

H - ENGINEERING JUDGEMENT

I - APPROVALS

Comments

Reviewed and Approved by Signature	Name/Title	Date
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