

**Application for
Traffic Signal Approval**

Please Type or Print all information in Blue or Black Ink

County: DELAWAREEngineering District: 6-0

Department Tracking #: _____

Initial Submission Date: _____

A - Applicant's (Municipal) Contact InformationMunicipal Contact's Name : Anthony HamadayTitle : ManagerMunicipal Name : TOWNSHIP OF MARPLEMunicipal Address : 227 South Sproul Road, Broomall, Pennsylvania 19008-2397Municipal Phone Number : 610-356-4040

Alternative Phone Number : _____

E-mail Address : ahamaday@marpletwp.comMunicipal Hours of Operation : Mon - Fri, 8:30 AM - 5:00 PM**B - Application Description**Location (*intersection*) : WEST CHESTER PIKE (SR 003) & NEW ARDMORE AVENUETraffic Control Device is : NEW Traffic Signal EXISTING Traffic Signal (Permit Number) : 63-0002Type of Device (*select one*) Traffic Control Signal (MUTCD Section 4D, 4E, 4G) Flashing Beacon (MUTCD Section 4L) School Warning System (MUTCD Section 7B) Other : _____Is Traffic Signal part of a system? : YES NOSystem Number (*if applicable*) : I-0097

If YES, provide locations of all signalized intersections in system.

Malin Road, Sproul Road (SR 0320), Church Rd/Berkley Rd, I-476 SB Ramps, I-476 NB Ramps, South Lawrence Road

Explain the proposed improvements :

Signalize existing unsignalized intersection at Langford Run Road, provide median opening, provide traffic adaptive system along corridorAssociated with Highway Occupancy Permit (HOP)? : YES NO If YES, HOP Application # : 42543**C - Maintenance and Operation Information**

Maintenance and Operations are typically performed by? :

 Municipal Personnel Municipal Contractor Municipal Personnel & Contractor Other : _____Maintenance and Operations Contact Name : Andrew LynchCompany/Organization : Twp Public WorksPhone # : 610.356.4040

Alternative Phone # : _____

E-mail : _____

D - Attachments Listing

- | | | |
|--|---|---|
| <input checked="" type="checkbox"/> Municipal Resolution (<i>required</i>) | <input type="checkbox"/> Location Map | <input type="checkbox"/> Traffic Volumes / Pedestrian Volumes |
| <input type="checkbox"/> Letter of Financial Commitment | <input type="checkbox"/> Photographs | <input type="checkbox"/> Turn Lane Analysis |
| <input checked="" type="checkbox"/> Traffic Signal Permit | <input type="checkbox"/> Straight Line Diagram | <input type="checkbox"/> Turn Restriction Studies |
| <input type="checkbox"/> Warrant Analysis | <input type="checkbox"/> Capacity Analysis | <input type="checkbox"/> Other : _____ |
| <input type="checkbox"/> Crash Analysis | <input type="checkbox"/> Traffic Impact Study (TIS) | |
| <input type="checkbox"/> Traffic Signal Study | <input type="checkbox"/> Condition Diagram | |

Application for Traffic Signal Approval



County : DELAWARE
Engineering District : 6-0
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E - Applicant (Municipal) Certification

The applicant desires to own, operate, and maintain the traffic control device in the location indicated above; and the Vehicle Code requires the approval of the Department of Transportation ("Department") before any traffic signals may be legally erected or modified. A signed Application for Traffic Signal Approval (TE-160) must be submitted in conformance with the instructions provided by the Department, and a Traffic Signal Permit must be issued, before any work can begin.

If the Department approves a traffic signal after a traffic engineering study and engineering judgment indicates the need, the traffic signal shall be installed, owned, operated, and maintained within the parameters indicated in the Vehicle Code and the Department's regulations relating to traffic signs, signals, and markings. The Department may direct appropriate alterations to the design or operation (including, but not limited to, hours of operation) of the traffic signal, or require removal of the traffic signal, if traffic conditions or other considerations necessitate alteration or removal.

All items associated with the traffic control device (geometric features, signs, signals, pavement markings, pedestrian accommodations, and other traffic control device associated items) are the applicant's responsibility. The Traffic Signal Permit will then document all of the items associated with operation of each traffic control device. The applicant, at its sole expense, shall provide the necessary inspection, maintenance, and operation activities in conformance with the Department's Publication 191 or as otherwise agreed to by the Department. The applicant shall perform the preventative and responsive maintenance requirements and recordkeeping in accordance with the exhibits specified below. If the applicant fails to provide the required inspection, maintenance, or operation services within thirty (30) days of receipt of written notice from the Department, the Department shall have the right to perform the required inspection, maintenance, or operation services in the applicant's stead and the applicant shall reimburse the Department for all costs incurred. Federal- and/or state-aid participation may be withheld on all future projects if the applicant fails to demonstrate to the Department the ability to provide all required maintenance and operation services. The applicant certifies that it has funds available and committed for the operation and maintenance of the traffic control device and that it will make available sufficient funds for all required future inspection, maintenance, and operation activities.

The applicant shall indemnify, save harmless and, defend (if requested) the Commonwealth of Pennsylvania, its agents, representatives, and employees from and against any damages recoverable under the Sovereign Immunity Act, 42 Pa. C.S. §§ 8521-8528, up to the limitations on damages under said law, arising out of any personal injury or damage to property which is finally determined by a court to be caused by or result from acts or omissions of the applicant and for which a court has held applicant, its officials, or employees to be liable. This provision shall not be construed to limit the applicant in asserting any rights or defenses. Additionally, the applicant shall include in any contracts into which it enters for maintenance, operation, or inspection of the traffic control device this same obligation to indemnify the Commonwealth and its officers, agents, and employees; and it shall require its contractor(s) to provide public liability insurance coverage, naming the Commonwealth and the applicant as additional insureds for bodily injury, including death and property damage, in the minimum amounts of \$500,000 per person, \$1,000,000 per occurrence, it being the intention of parties to have the contractor fully insure and indemnify the Commonwealth and the applicant.

The applicant shall comply with the study and ordinance requirements of 75 Pa. C.S. § 6109. The applicant submits this application with the intention of being legally bound.

Neither this application nor any Traffic Signal Permit creates any rights or obligations with respect to parties other than the applicant and the Department. Third parties may not rely upon any representations made by either the applicant or the Department in connection with the submission or approval of this application or any work permitted or approved that is related to this application, as regards either payment of funds or performance of any particular item of maintenance precisely as specified.

The applicant agrees to comply with the attached Exhibits:

- Exhibit "A": Preventative and Response Maintenance Requirements (Sheet 3 of 5)
- Exhibit "B": Recordkeeping (Sheet 4 of 5)
- Exhibit "C": Signal Maintenance Organization (Sheet 5 of 5)

Printed Municipal Contact Name : _____ Date : _____
 Signed By : _____ Witness or Attest : _____
 Title of Signatory : _____ Title of Witness or Attester: _____

**Exhibit "A":
Preventative and Response Maintenance
Requirements**



County : _____
 Engineering District : _____
 Department Tracking # : _____
 Initial Submission Date : _____

Preventive Maintenance

The APPLICANT or its contractor will provide preventive maintenance for each individual component of the traffic signal installation covered by this application at intervals not less than those indicated in the Preventive Maintenance Summary, PA DOT Publication 191, current version. This is the recommended level of maintenance to keep the intersection control equipment and signals in mechanically, structurally and aesthetically good condition.

Response Maintenance

The APPLICANT or its contractor will provide response maintenance in accordance with the provisions of the Response Maintenance Schedule. It encompasses the work necessary to restore a traffic signal system to proper and safe operation. Includes Emergency Repair and Final Repair.

FINAL REPAIR:

Repair or replace failed equipment to restore system to proper and safe operation in accordance with permit within a 24-hour period.

EMERGENCY REPAIR:

Use alternative means or mode to temporarily restore system to safe operation within a 24-hour period. Final repair must then be completed within 30 days unless prohibited by weather conditions or availability of equipment.

Response Maintenance Schedule

KNOCKDOWNS

TYPE OF REPAIR PERMITTED

Support - Mast arm	Emergency or Final
Support - Strain pole	Emergency or Final
Span wire/tether wire	Final Only
Pedestal	Emergency or Final
Cabinet	Emergency or Final
Signal heads	Final Only

EQUIPMENT FAILURE

Lamp burnout (veh. & ped.)	Final Only
Local controller	Emergency or Final
Master controller	Emergency or Final
Detector sensor	
- Loop	Emergency or Final
- Magnetometer	Emergency or Final
- Sonic	Emergency or Final
- Magnetic	Emergency or Final
- Pushbutton	Emergency or Final
Detector amplifier	Emergency or Final
Conflict monitor	Final Only
Flasher	Final Only
Time clock	Emergency or Final
Load switch/relay	Final Only
Coordination unit	Emergency or Final
Communication interface, mode	Emergency or Final
Signal cable	Final Only
Traffic Signal Communications	Final Only
Traffic Signal Systems	Final Only

**Exhibit "B":
Recordkeeping**



County: DELAWARE

Engineering District: 6-0

Department Tracking #: _____

Initial Submission Date: _____

Recordkeeping

Accurate and up-to-date recordkeeping is an essential component of a good traffic signal maintenance program. In recognition of this fact, the APPLICANT must prepare, retain, and make available to the COMMONWEALTH, on request, a record of all preventive and response maintenance activities performed on the traffic signal equipment covered by this application.

The APPLICANT shall establish a separate file for each installation and keep its records in the municipal building, signal maintenance shop, or other weather-protected enclosure.

At a minimum, the following records will be kept by the APPLICANT or its contractor for each traffic signal. These forms can be found in Section 10.0, Maintenance Record Forms, PA DOT Publication 191, current version.

FORM 1 - Master Intersection Record

This form, which lists all maintenance functions performed at the intersection, should be updated within one day of the activity but no more than one week later.

FORM 2 - Response Maintenance Record

Each time response maintenance is required at the intersection, this form is to be completed. Once the pertinent information is transferred to the master intersection record, this form is to be placed in the intersection file.

FORM 3 - Preventive Maintenance Record

This form will be used to provide a record of the preventive maintenance activities performed at each intersection. The date, the activities performed, and the signature of the person in charge of the work must be recorded in the form.

This form may be kept at the intersection, if it is adequately protected from the weather. Form 1 must be updated at the central file, however, to reflect the date and activity.

**Exhibit "C":
Signal Maintenance Organization**

County :DELAWARE

Engineering District :6-0

Department Tracking # :

Initial Submission Date :

Personnel Classifications

In order to properly maintain the traffic signal equipment covered by this applicant, the APPLICANT agrees to provide, as minimum, the following staff throughout the useful life of equipment. The APPLICANT agrees to abide by all guidance provided in PA DOT Publication 191.

Traffic Engineer - The administrative position which has prime responsibility for the proper operation of traffic signal equipment. The principal function of this position is the supervision and control of subordinate personnel and the planning of their activities to ensure adequate preventive and response maintenance programs.

Minimum Position Requirements

1. A thorough understanding of traffic signal design, installation and maintenance.
2. A working knowledge of the interaction between the following traffic characteristics: Intersection geometry, traffic flow theory, control type (fixed time, actuated, etc.), signal phasing and timing, and interconnection.
3. An ability to supervise subordinate personnel effectively in the assignment of their work.
4. Possession of a college degree in engineering, which includes course work in traffic engineering.
5. Either four years experience in the field of traffic engineering or its equivalent in graduate college work.

Signal Specialist - The individual responsible for the diagnostics and repair of all traffic signal equipment including solid state equipment.

Minimum Position Requirements

1. Extensive training and troubleshooting skills in electronics and software.
2. Ability to repair modules in the shop and to design test equipment needed to diagnose and repair a problem.
3. Ability to make design and modifications to implement or omit special functions.
4. Ability to implement a recordkeeping system to include maintenance activities, inventory control and identification of recurring problems.
5. Ability to perform all tasks required of a signal technician.

Signal Technician - Individual responsible for the operation and maintenance of traffic signals and electromechanical equipment.

Minimum Position Requirements

1. Ability to perform response maintenance on solid state equipment up to the device exchange level.
2. Capability to diagnose a vehicle loop failure and initiate corrective action.
3. Ability to tune detector amplifiers.
4. Ability to follow wiring schematics, check and set timings from plan sheet and check all field connections.
5. Ability to perform preventive maintenance on all equipment and to maintain accurate records of all work perform.

Training

The APPLICANT agrees to secure training in order to upgrade the ability of its present staff to properly perform the required maintenance functions. The APPLICANT agrees to abide by all guidance provided in PA DOT Publication 191.

Budget Requirements

The APPLICANT agrees to provide, in its annual operating budget, dedicated funds which are sufficient to cover the cost of the personnel, training, contractors (if utilized) and specialized maintenance equipment which are required, by virtue of this application. The APPLICANT agrees to abide by all guidance provided in PA DOT Publication 191..

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E-mail Address : ahamaday@marpletwp.comMunicipal Hours of Operation : Mon - Fri, 8:30 AM - 5:00 PM

B - Application Description

Location (*intersection*) : WEST CHESTER PIKE (SR 003) & I-476 NB RAMPSTraffic Control Device is : NEW Traffic Signal EXISTING Traffic Signal (Permit Number) : 63-2419Type of Device (*select one*) Traffic Control Signal (MUTCD Section 4D, 4E, 4G) Flashing Beacon (MUTCD Section 4L) School Warning System (MUTCD Section 7B) Other : _____Is Traffic Signal part of a system? : YES NOSystem Number (*if applicable*) : I-0097

If YES, provide locations of all signalized intersections in system.

Malin Road, Sproul Road (SR 0320), Church Rd/Berkley Rd, I-476 SB Ramps, I-476 NB Ramps, South Lawrence Road

Explain the proposed improvements :

Signalize existing unsignalized intersection at Langford Run Road, provide median opening, provide traffic adaptive system along corridorAssociated with Highway Occupancy Permit (HOP)? : YES NO If YES, HOP Application # : 42543

C - Maintenance and Operation Information

Maintenance and Operations are typically performed by? :

 Municipal Personnel Municipal Contractor Municipal Personnel & Contractor Other : _____Maintenance and Operations Contact Name : Andrew LynchCompany/Organization : Twp Public WorksPhone # : 610.356.4040

Alternative Phone # : _____

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**Exhibit "A":
Preventative and Response Maintenance
Requirements**



County : _____
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Signal heads	Final Only

EQUIPMENT FAILURE

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Local controller	Emergency or Final
Master controller	Emergency or Final
Detector sensor	
- Loop	Emergency or Final
- Magnetometer	Emergency or Final
- Sonic	Emergency or Final
- Magnetic	Emergency or Final
- Pushbutton	Emergency or Final
Detector amplifier	Emergency or Final
Conflict monitor	Final Only
Flasher	Final Only
Time clock	Emergency or Final
Load switch/relay	Final Only
Coordination unit	Emergency or Final
Communication interface, mode	Emergency or Final
Signal cable	Final Only
Traffic Signal Communications	Final Only
Traffic Signal Systems	Final Only

**Exhibit "B":
Recordkeeping**County : DELAWAREEngineering District : 6-0

Department Tracking # : _____

Initial Submission Date : _____

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Signal Maintenance Organization**County : DELAWAREEngineering District : 6-0

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Municipal Name : TOWNSHIP OF MARPLE

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Municipal Phone Number : 610-356-4040 Alternative Phone Number : _____

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Municipal Hours of Operation : Mon - Fri, 8:30 AM - 5:00 PM

B - Application Description

Location (intersection) : WEST CHESTER PIKE (SR 003) & I-476 SB RAMPS

Traffic Control Device is : NEW Traffic Signal EXISTING Traffic Signal (Permit Number) : 63-2418

Type of Device (select one) Traffic Control Signal (MUTCD Section 4D, 4E, 4G) Flashing Beacon (MUTCD Section 4L) School Warning System (MUTCD Section 7B)

Other : _____

Is Traffic Signal part of a system? : YES NO System Number (if applicable) : I-0097

If YES, provide locations of all signalized intersections in system.

Malin Road, Sproul Road (SR 0320), Church Rd/Berkley Rd, I-476 SB Ramps, I-476 NB Ramps, South Lawrence Road

Explain the proposed improvements :

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Associated with Highway Occupancy Permit (HOP)? : YES NO If YES, HOP Application # : 42543

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Maintenance and Operations are typically performed by? :

- Municipal Personnel Municipal Contractor Municipal Personnel & Contractor
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Maintenance and Operations Contact Name : Andrew Lynch Company/Organization : Twp Public Works

Phone # : 610.356.4040 Alternative Phone # : _____ E-mail : _____

D - Attachments Listing

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All items associated with the traffic control device (geometric features, signs, signals, pavement markings, pedestrian accommodations, and other traffic control device associated items) are the applicant's responsibility. The Traffic Signal Permit will then document all of the items associated with operation of each traffic control device. The applicant, at its sole expense, shall provide the necessary inspection, maintenance, and operation activities in conformance with the Department's Publication 191 or as otherwise agreed to by the Department. The applicant shall perform the preventative and responsive maintenance requirements and recordkeeping in accordance with the exhibits specified below. If the applicant fails to provide the required inspection, maintenance, or operation services within thirty (30) days of receipt of written notice from the Department, the Department shall have the right to perform the required inspection, maintenance, or operation services in the applicant's stead and the applicant shall reimburse the Department for all costs incurred. Federal- and/or state-aid participation may be withheld on all future projects if the applicant fails to demonstrate to the Department the ability to provide all required maintenance and operation services. The applicant certifies that it has funds available and committed for the operation and maintenance of the traffic control device and that it will make available sufficient funds for all required future inspection, maintenance, and operation activities.

The applicant shall indemnify, save harmless and, defend (if requested) the Commonwealth of Pennsylvania, its agents, representatives, and employees from and against any damages recoverable under the Sovereign Immunity Act, 42 Pa. C.S. §§ 8521-8528, up to the limitations on damages under said law, arising out of any personal injury or damage to property which is finally determined by a court to be caused by or result from acts or omissions of the applicant and for which a court has held applicant, its officials, or employees to be liable. This provision shall not be construed to limit the applicant in asserting any rights or defenses. Additionally, the applicant shall include in any contracts into which it enters for maintenance, operation, or inspection of the traffic control device this same obligation to indemnify the Commonwealth and its officers, agents, and employees; and it shall require its contractor(s) to provide public liability insurance coverage, naming the Commonwealth and the applicant as additional insureds for bodily injury, including death and property damage, in the minimum amounts of \$500,000 per person, \$1,000,000 per occurrence, it being the intention of parties to have the contractor fully insure and indemnify the Commonwealth and the applicant.

The applicant shall comply with the study and ordinance requirements of 75 Pa. C.S. § 6109. The applicant submits this application with the intention of being legally bound.

Neither this application nor any Traffic Signal Permit creates any rights or obligations with respect to parties other than the applicant and the Department. Third parties may not rely upon any representations made by either the applicant or the Department in connection with the submission or approval of this application or any work permitted or approved that is related to this application, as regards either payment of funds or performance of any particular item of maintenance precisely as specified.

The applicant agrees to comply with the attached Exhibits:

- Exhibit "A": Preventative and Response Maintenance Requirements (Sheet 3 of 5)
- Exhibit "B": Recordkeeping (Sheet 4 of 5)
- Exhibit "C": Signal Maintenance Organization (Sheet 5 of 5)

Printed Municipal Contact Name : _____ Date : _____
 Signed By : _____ Witness or Attest : _____
 Title of Signatory : _____ Title of Witness or Attester: _____

**Exhibit "A":
Preventative and Response Maintenance
Requirements**



County : _____
 Engineering District : _____
 Department Tracking # : _____
 Initial Submission Date : _____

Preventive Maintenance

The APPLICANT or its contractor will provide preventive maintenance for each individual component of the traffic signal installation covered by this application at intervals not less than those indicated in the Preventive Maintenance Summary, PA DOT Publication 191, current version. This is the recommended level of maintenance to keep the intersection control equipment and signals in mechanically, structurally and aesthetically good condition.

Response Maintenance

The APPLICANT or its contractor will provide response maintenance in accordance with the provisions of the Response Maintenance Schedule. It encompasses the work necessary to restore a traffic signal system to proper and safe operation. Includes Emergency Repair and Final Repair.

FINAL REPAIR:

Repair or replace failed equipment to restore system to proper and safe operation in accordance with permit within a 24-hour period.

EMERGENCY REPAIR:

Use alternative means or mode to temporarily restore system to safe operation within a 24-hour period. Final repair must then be completed within 30 days unless prohibited by weather conditions or availability of equipment.

Response Maintenance Schedule

KNOCKDOWNS

TYPE OF REPAIR PERMITTED

Support - Mast arm	Emergency or Final
Support - Strain pole	Emergency or Final
Span wire/tether wire	Final Only
Pedestal	Emergency or Final
Cabinet	Emergency or Final
Signal heads	Final Only

EQUIPMENT FAILURE

Lamp burnout (veh. & ped.)	Final Only
Local controller	Emergency or Final
Master controller	Emergency or Final
Detector sensor	
- Loop	Emergency or Final
- Magnetometer	Emergency or Final
- Sonic	Emergency or Final
- Magnetic	Emergency or Final
- Pushbutton	Emergency or Final
Detector amplifier	Emergency or Final
Conflict monitor	Final Only
Flasher	Final Only
Time clock	Emergency or Final
Load switch/relay	Final Only
Coordination unit	Emergency or Final
Communication interface, mode	Emergency or Final
Signal cable	Final Only
Traffic Signal Communications	Final Only
Traffic Signal Systems	Final Only

Exhibit "B":
Recordkeeping



County : DELAWARE

Engineering District : 6-0

Department Tracking # : _____

Initial Submission Date : _____

Recordkeeping

Accurate and up-to-date recordkeeping is an essential component of a good traffic signal maintenance program. In recognition of this fact, the APPLICANT must prepare, retain, and make available to the COMMONWEALTH, on request, a record of all preventive and response maintenance activities performed on the traffic signal equipment covered by this application.

The APPLICANT shall establish a separate file for each installation and keep its records in the municipal building, signal maintenance shop, or other weather-protected enclosure.

At a minimum, the following records will be kept by the APPLICANT or its contractor for each traffic signal. These forms can be found in Section 10.0, Maintenance Record Forms, PA DOT Publication 191, current version.

FORM 1 - Master Intersection Record

This form, which lists all maintenance functions performed at the intersection, should be updated within one day of the activity but no more than one week later.

FORM 2 - Response Maintenance Record

Each time response maintenance is required at the intersection, this form is to be completed. Once the pertinent information is transferred to the master intersection record, this form is to be placed in the intersection file.

FORM 3 - Preventive Maintenance Record

This form will be used to provide a record of the preventive maintenance activities performed at each intersection. The date, the activities performed, and the signature of the person in charge of the work must be recorded in the form.

This form may be kept at the intersection, if it is adequately protected from the weather. Form 1 must be updated at the central file, however, to reflect the date and activity.

**Exhibit "C":
Signal Maintenance Organization**County : DELAWAREEngineering District : 6-0

Department Tracking # : _____

Initial Submission Date : _____

Personnel Classifications

In order to properly maintain the traffic signal equipment covered by this applicant, the APPLICANT agrees to provide, as minimum, the following staff throughout the useful life of equipment. The APPLICANT agrees to abide by all guidance provided in PA DOT Publication 191.

Traffic Engineer - The administrative position which has prime responsibility for the proper operation of traffic signal equipment. The principal function of this position is the supervision and control of subordinate personnel and the planning of their activities to ensure adequate preventive and response maintenance programs.

Minimum Position Requirements

1. A thorough understanding of traffic signal design, installation and maintenance.
2. A working knowledge of the interaction between the following traffic characteristics: Intersection geometry, traffic flow theory, control type (fixed time, actuated, etc.), signal phasing and timing, and interconnection.
3. An ability to supervise subordinate personnel effectively in the assignment of their work.
4. Possession of a college degree in engineering, which includes course work in traffic engineering.
5. Either four years experience in the field of traffic engineering or its equivalent in graduate college work.

Signal Specialist - The individual responsible for the diagnostics and repair of all traffic signal equipment including solid state equipment.

Minimum Position Requirements

1. Extensive training and troubleshooting skills in electronics and software.
2. Ability to repair modules in the shop and to design test equipment needed to diagnose and repair a problem.
3. Ability to make design and modifications to implement or omit special functions.
4. Ability to implement a recordkeeping system to include maintenance activities, inventory control and identification of recurring problems.
5. Ability to perform all tasks required of a signal technician.

Signal Technician - Individual responsible for the operation and maintenance of traffic signals and electromechanical equipment.

Minimum Position Requirements

1. Ability to perform response maintenance on solid state equipment up to the device exchange level.
2. Capability to diagnose a vehicle loop failure and initiate corrective action.
3. Ability to tune detector amplifiers.
4. Ability to follow wiring schematics, check and set timings from plan sheet and check all field connections.
5. Ability to perform preventive maintenance on all equipment and to maintain accurate records of all work perform.

Training

The APPLICANT agrees to secure training in order to upgrade the ability of its present staff to properly perform the required maintenance functions. The APPLICANT agrees to abide by all guidance provided in PA DOT Publication 191.

Budget Requirements

The APPLICANT agrees to provide, in its annual operating budget, dedicated funds which are sufficient to cover the cost of the personnel, training, contractors (if utilized) and specialized maintenance equipment which are required, by virtue of this application. The APPLICANT agrees to abide by all guidance provided in PA DOT Publication 191..

Application for Traffic Signal Approval

Please Type or Print all Information in Blue or Black Ink



County: DELAWARE
 Engineering District: 6-0
 Department Tracking #: _____
 Initial Submission Date: _____

A - Applicant's (Municipal) Contact Information

Municipal Contact's Name : Anthony Hamaday Title : Manager
 Municipal Name : TOWNSHIP OF MARPLE
 Municipal Address : 227 South Sproul Road, Broomall, Pennsylvania 19008-2397
 Municipal Phone Number : 610-356-4040 Alternative Phone Number : _____
 E-mail Address : ahamaday@marpletwp.com
 Municipal Hours of Operation : Mon - Fri, 8:30 AM - 5:00 PM

B - Application Description

Location (*intersection*) : WEST CHESTER PIKE (SR 003) & SOUTH LAWRENCE ROAD

Traffic Control Device is : NEW Traffic Signal EXISTING Traffic Signal (Permit Number) : 63-0827

Type of Device (*select one*) Traffic Control Signal (MUTCD Section 4D, 4E, 4G) Flashing Beacon (MUTCD Section 4L) School Warning System (MUTCD Section 7B)
 Other : _____

Is Traffic Signal part of a system? : YES NO System Number (*if applicable*) : I-0097
 If YES, provide locations of all signalized intersections in system.
Malin Road, Sproul Road (SR 0320), Church Rd/Berkley Rd, I-476 SB Ramps, I-476 NB Ramps, South Lawrence Road

Explain the proposed improvements :
Signalize existing unsignalized intersection at Langford Run Road, provide median opening, provide traffic adaptive system along corridor

Associated with Highway Occupancy Permit (HOP)? : YES NO If YES, HOP Application # : 42543

C - Maintenance and Operation Information

Maintenance and Operations are typically performed by? :

Municipal Personnel Municipal Contractor Municipal Personnel & Contractor
 Other : _____

Maintenance and Operations Contact Name : Andrew Lynch Company/Organization : Twp Public Works
 Phone # : 610.356.4040 Alternative Phone # : _____ E-mail : _____

D - Attachments Listing

<input checked="" type="checkbox"/> Municipal Resolution (<i>required</i>)	<input type="checkbox"/> Location Map	<input type="checkbox"/> Traffic Volumes / Pedestrian Volumes
<input type="checkbox"/> Letter of Financial Commitment	<input type="checkbox"/> Photographs	<input type="checkbox"/> Turn Lane Analysis
<input checked="" type="checkbox"/> Traffic Signal Permit	<input type="checkbox"/> Straight Line Diagram	<input type="checkbox"/> Turn Restriction Studies
<input type="checkbox"/> Warrant Analysis	<input type="checkbox"/> Capacity Analysis	<input type="checkbox"/> Other : _____
<input type="checkbox"/> Crash Analysis	<input type="checkbox"/> Traffic Impact Study (TIS)	
<input type="checkbox"/> Traffic Signal Study	<input type="checkbox"/> Condition Diagram	

Application for Traffic Signal Approval

Please Type or Print all information in Blue or Black Ink



County : DELAWARE
 Engineering District : 6-0
 Department Tracking # : _____
 Initial Submission Date : _____

E - Applicant (Municipal) Certification

The applicant desires to own, operate, and maintain the traffic control device in the location indicated above; and the Vehicle Code requires the approval of the Department of Transportation ("Department") before any traffic signals may be legally erected or modified. A signed Application for Traffic Signal Approval (TE-160) must be submitted in conformance with the instructions provided by the Department, and a Traffic Signal Permit must be issued, before any work can begin.

If the Department approves a traffic signal after a traffic engineering study and engineering judgment indicates the need, the traffic signal shall be installed, owned, operated, and maintained within the parameters indicated in the Vehicle Code and the Department's regulations relating to traffic signs, signals, and markings. The Department may direct appropriate alterations to the design or operation (including, but not limited to, hours of operation) of the traffic signal, or require removal of the traffic signal, if traffic conditions or other considerations necessitate alteration or removal.

All items associated with the traffic control device (geometric features, signs, signals, pavement markings, pedestrian accommodations, and other traffic control device associated items) are the applicant's responsibility. The Traffic Signal Permit will then document all of the items associated with operation of each traffic control device. The applicant, at its sole expense, shall provide the necessary inspection, maintenance, and operation activities in conformance with the Department's Publication 191 or as otherwise agreed to by the Department. The applicant shall perform the preventative and responsive maintenance requirements and recordkeeping in accordance with the exhibits specified below. If the applicant fails to provide the required inspection, maintenance, or operation services within thirty (30) days of receipt of written notice from the Department, the Department shall have the right to perform the required inspection, maintenance, or operation services in the applicant's stead and the applicant shall reimburse the Department for all costs incurred. Federal- and/or state-aid participation may be withheld on all future projects if the applicant fails to demonstrate to the Department the ability to provide all required maintenance and operation services. The applicant certifies that it has funds available and committed for the operation and maintenance of the traffic control device and that it will make available sufficient funds for all required future inspection, maintenance, and operation activities.

The applicant shall indemnify, save harmless and, defend (if requested) the Commonwealth of Pennsylvania, its agents, representatives, and employees from and against any damages recoverable under the Sovereign Immunity Act, 42 Pa. C.S. §§ 8521-8528, up to the limitations on damages under said law, arising out of any personal injury or damage to property which is finally determined by a court to be caused by or result from acts or omissions of the applicant and for which a court has held applicant, its officials, or employees to be liable. This provision shall not be construed to limit the applicant in asserting any rights or defenses. Additionally, the applicant shall include in any contracts into which it enters for maintenance, operation, or inspection of the traffic control device this same obligation to indemnify the Commonwealth and its officers, agents, and employees; and it shall require its contractor(s) to provide public liability insurance coverage, naming the Commonwealth and the applicant as additional insureds for bodily injury, including death and property damage, in the minimum amounts of \$500,000 per person, \$1,000,000 per occurrence, it being the intention of parties to have the contractor fully insure and indemnify the Commonwealth and the applicant.

The applicant shall comply with the study and ordinance requirements of 75 Pa. C.S. § 6109. The applicant submits this application with the intention of being legally bound.

Neither this application nor any Traffic Signal Permit creates any rights or obligations with respect to parties other than the applicant and the Department. Third parties may not rely upon any representations made by either the applicant or the Department in connection with the submission or approval of this application or any work permitted or approved that is related to this application, as regards either payment of funds or performance of any particular item of maintenance precisely as specified.

The applicant agrees to comply with the attached Exhibits:

- Exhibit "A": Preventative and Response Maintenance Requirements (Sheet 3 of 5)
- Exhibit "B": Recordkeeping (Sheet 4 of 5)
- Exhibit "C": Signal Maintenance Organization (Sheet 5 of 5)

Printed Municipal Contact Name : _____ Date : _____

Signed By : _____ Witness or Attest : _____

Title of Signatory : _____ Title of Witness or Attester: _____

Exhibit "A":
Preventative and Response Maintenance
Requirements



County : _____
Engineering District : _____
Department Tracking # : _____
Initial Submission Date : _____

Preventive Maintenance

The APPLICANT or its contractor will provide preventive maintenance for each individual component of the traffic signal installation covered by this application at intervals not less than those indicated in the Preventive Maintenance Summary, PA DOT Publication 191, current version. This is the recommended level of maintenance to keep the intersection control equipment and signals in mechanically, structurally and aesthetically good condition.

Response Maintenance

The APPLICANT or its contractor will provide response maintenance in accordance with the provisions of the Response Maintenance Schedule. It encompasses the work necessary to restore a traffic signal system to proper and safe operation. Includes Emergency Repair and Final Repair.

FINAL REPAIR:

Repair or replace failed equipment to restore system to proper and safe operation in accordance with permit within a 24-hour period.

EMERGENCY REPAIR:

Use alternative means or mode to temporarily restore system to safe operation within a 24-hour period. Final repair must then be completed within 30 days unless prohibited by weather conditions or availability of equipment.

Response Maintenance Schedule

KNOCKDOWNS

Support - Mast arm
Support - Strain pole
Span wire/tether wire
Pedestal
Cabinet
Signal heads

TYPE OF REPAIR PERMITTED

Emergency or Final
Emergency or Final
Final Only
Emergency or Final
Emergency or Final
Final Only

EQUIPMENT FAILURE

Lamp burnout (veh. & ped.)
Local controller
Master controller
Detector sensor
 - Loop
 - Magnetometer
 - Sonic
 - Magnetic
 - Pushbutton
Detector amplifier
Conflict monitor
Flasher
Time clock
Load switch/relay
Coordination unit
Communication interface, mode
Signal cable
Traffic Signal Communications
Traffic Signal Systems

Final Only
Emergency or Final
Final Only
Final Only
Emergency or Final
Final Only
Emergency or Final
Emergency or Final
Final Only
Final Only
Final Only

**Exhibit "B":
Recordkeeping**County: DELAWAREEngineering District : 6-0

Department Tracking # : _____

Initial Submission Date : _____

Recordkeeping

Accurate and up-to-date recordkeeping is an essential component of a good traffic signal maintenance program. In recognition of this fact, the APPLICANT must prepare, retain, and make available to the COMMONWEALTH, on request, a record of all preventive and response maintenance activities performed on the traffic signal equipment covered by this application.

The APPLICANT shall establish a separate file for each installation and keep its records in the municipal building, signal maintenance shop, or other weather-protected enclosure.

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This form may be kept at the intersection, if it is adequately protected from the weather. Form 1 must be updated at the central file, however, to reflect the date and activity.

**Exhibit "C":
Signal Maintenance Organization**County : DELAWAREEngineering District : 6-0

Department Tracking # : _____

Initial Submission Date : _____

Personnel Classifications

In order to properly maintain the traffic signal equipment covered by this applicant, the APPLICANT agrees to provide, as minimum, the following staff throughout the useful life of equipment. The APPLICANT agrees to abide by all guidance provided in PA DOT Publication 191.

Traffic Engineer - The administrative position which has prime responsibility for the proper operation of traffic signal equipment. The principal function of this position is the supervision and control of subordinate personnel and the planning of their activities to ensure adequate preventive and response maintenance programs.

Minimum Position Requirements

1. A thorough understanding of traffic signal design, installation and maintenance.
2. A working knowledge of the interaction between the following traffic characteristics: Intersection geometry, traffic flow theory, control type (fixed time, actuated, etc.), signal phasing and timing, and interconnection.
3. An ability to supervise subordinate personnel effectively in the assignment of their work.
4. Possession of a college degree in engineering, which includes course work in traffic engineering.
5. Either four years experience in the field of traffic engineering or its equivalent in graduate college work.

Signal Specialist - The individual responsible for the diagnostics and repair of all traffic signal equipment including solid state equipment.

Minimum Position Requirements

1. Extensive training and troubleshooting skills in electronics and software.
2. Ability to repair modules in the shop and to design test equipment needed to diagnose and repair a problem.
3. Ability to make design and modifications to implement or omit special functions.
4. Ability to implement a recordkeeping system to include maintenance activities, inventory control and identification of recurring problems.
5. Ability to perform all tasks required of a signal technician.

Signal Technician - Individual responsible for the operation and maintenance of traffic signals and electromechanical equipment.

Minimum Position Requirements

1. Ability to perform response maintenance on solid state equipment up to the device exchange level.
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3. Ability to tune detector amplifiers.
4. Ability to follow wiring schematics, check and set timings from plan sheet and check all field connections.
5. Ability to perform preventive maintenance on all equipment and to maintain accurate records of all work perform.

Training

The APPLICANT agrees to secure training in order to upgrade the ability of its present staff to properly perform the required maintenance functions. The APPLICANT agrees to abide by all guidance provided in PA DOT Publication 191.

Budget Requirements

The APPLICANT agrees to provide, in its annual operating budget, dedicated funds which are sufficient to cover the cost of the personnel, training, contractors (if utilized) and specialized maintenance equipment which are required, by virtue of this application. The APPLICANT agrees to abide by all guidance provided in PA DOT Publication 191..

RESOLUTION

BE IT RESOLVED, by authority of the Board of Commissioners
(Name of governing body)
of the Township of Marple, Delaware County, and it
(Name of MUNICIPALITY)
is hereby resolved by authority of the same, that the Township Manager
(designate official title)

of said MUNICIPALITY is authorized and directed to submit the attached Application for Traffic
Signal Approval to the Pennsylvania Department of Transportation and to sign this Application on behalf of
the MUNICIPALITY.

ATTEST: Township of Marple
(Name of MUNICIPALITY)

(Signature and designation of official title) By: _____
(Signature and designation of official title)

I, Anthony Hamaday, Township Manager
(Name) (Official Title)

of the Marple Township Board of Commissioners, do hereby certify that the foregoing
(Name of governing body and MUNICIPALITY)

is a true and correct copy of the Resolution adopted at a regular meeting of the
Board of Commissioners, held the _____ day of _____, 20____.
(Name of governing body)

DATE: _____
(Signature and designation of official title)

Application for Traffic Signal Approval

Please Type or Print all information in Blue or Black Ink

County : DELAWAREEngineering District : 6-0

Department Tracking # : _____

Initial Submission Date : _____

A - Applicant's (Municipal) Contact Information

Municipal Contact's Name : Anthony HamadayTitle : ManagerMunicipal Name : TOWNSHIP OF MARPLEMunicipal Address : 227 South Sproul Road, Broomall, Pennsylvania 19008-2397Municipal Phone Number : 610-356-4040

Alternative Phone Number : _____

E-mail Address : ahamaday@marpletwp.comMunicipal Hours of Operation : Mon - Fri, 8:30 AM - 5:00 PM

B - Application Description

Location (*intersection*) : WEST CHESTER PIKE (SR 003) & LANGFORD RUN ROADTraffic Control Device is : NEW Traffic Signal EXISTING Traffic Signal (Permit Number) : _____Type of Device (*select one*) Traffic Control Signal
(MUTCD Section 4D, 4E, 4G) Flashing Beacon
(MUTCD Section 4L) School Warning System
(MUTCD Section 7B) Other : _____Is Traffic Signal part of a system? : YES NOSystem Number (*if applicable*) : I-0097

If YES, provide locations of all signalized intersections in system.

Malin Road, Sproul Road (SR 0320), Church Rd/Berkley Rd, I-476 SB Ramps, I-476 NB Ramps, South Lawrence Road

Explain the proposed improvements :

Signalize existing unsignalized intersection, provide median opening, provide traffic adaptive system along corridorAssociated with Highway Occupancy Permit (HOP)? : YES NO If YES, HOP Application # : 42543

C - Maintenance and Operation Information

Maintenance and Operations are typically performed by? :

 Municipal Personnel Municipal Contractor Municipal Personnel & Contractor Other : _____Maintenance and Operations Contact Name : Andrew LynchCompany/Organization : Twp Public WorksPhone # : 610.356.4040

Alternative Phone # : _____

E-mail : _____

D - Attachments Listing

- | | | |
|--|--|---|
| <input checked="" type="checkbox"/> Municipal Resolution (<i>required</i>) | <input type="checkbox"/> Location Map | <input type="checkbox"/> Traffic Volumes / Pedestrian Volumes |
| <input type="checkbox"/> Letter of Financial Commitment | <input type="checkbox"/> Photographs | <input checked="" type="checkbox"/> Turn Lane Analysis |
| <input checked="" type="checkbox"/> Traffic Signal Permit | <input type="checkbox"/> Straight Line Diagram | <input type="checkbox"/> Turn Restriction Studies |
| <input checked="" type="checkbox"/> Warrant Analysis | <input checked="" type="checkbox"/> Capacity Analysis | <input type="checkbox"/> Other : _____ |
| <input type="checkbox"/> Crash Analysis | <input checked="" type="checkbox"/> Traffic Impact Study (TIS) | |
| <input checked="" type="checkbox"/> Traffic Signal Study | <input type="checkbox"/> Condition Diagram | |

Application for Traffic Signal Approval



Please Type or Print all Information in Blue or Black Ink

County : DELAWARE
 Engineering District : 6-0
 Department Tracking # : _____
 Initial Submission Date : _____

E - Applicant (Municipal) Certification

The applicant desires to own, operate, and maintain the traffic control device in the location indicated above; and the Vehicle Code requires the approval of the Department of Transportation ("Department") before any traffic signals may be legally erected or modified. A signed Application for Traffic Signal Approval (TE-160) must be submitted in conformance with the instructions provided by the Department, and a Traffic Signal Permit must be issued, before any work can begin.

If the Department approves a traffic signal after a traffic engineering study and engineering judgment indicates the need, the traffic signal shall be installed, owned, operated, and maintained within the parameters indicated in the Vehicle Code and the Department's regulations relating to traffic signs, signals, and markings. The Department may direct appropriate alterations to the design or operation (including, but not limited to, hours of operation) of the traffic signal, or require removal of the traffic signal, if traffic conditions or other considerations necessitate alteration or removal.

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The applicant shall indemnify, save harmless and, defend (if requested) the Commonwealth of Pennsylvania, its agents, representatives, and employees from and against any damages recoverable under the Sovereign Immunity Act, 42 Pa. C.S. §§ 8521-8528, up to the limitations on damages under said law, arising out of any personal injury or damage to property which is finally determined by a court to be caused by or result from acts or omissions of the applicant and for which a court has held applicant, its officials, or employees to be liable. This provision shall not be construed to limit the applicant in asserting any rights or defenses. Additionally, the applicant shall include in any contracts into which it enters for maintenance, operation, or inspection of the traffic control device this same obligation to indemnify the Commonwealth and its officers, agents, and employees; and it shall require its contractor(s) to provide public liability insurance coverage, naming the Commonwealth and the applicant as additional insureds for bodily injury, including death and property damage, in the minimum amounts of \$500,000 per person, \$1,000,000 per occurrence, it being the intention of parties to have the contractor fully insure and indemnify the Commonwealth and the applicant.

The applicant shall comply with the study and ordinance requirements of 75 Pa. C.S. § 6109. The applicant submits this application with the intention of being legally bound.

Neither this application nor any Traffic Signal Permit creates any rights or obligations with respect to parties other than the applicant and the Department. Third parties may not rely upon any representations made by either the applicant or the Department in connection with the submission or approval of this application or any work permitted or approved that is related to this application, as regards either payment of funds or performance of any particular item of maintenance precisely as specified.

The applicant agrees to comply with the attached Exhibits:

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- Exhibit "B": Recordkeeping (Sheet 4 of 5)
- Exhibit "C": Signal Maintenance Organization (Sheet 5 of 5)

Printed Municipal Contact Name : _____ Date : _____
 Signed By : _____ Witness or Attest : _____
 Title of Signatory : _____ Title of Witness or Attester: _____

**Exhibit "A":
Preventative and Response Maintenance
Requirements**



County : _____
Engineering District : _____
Department Tracking # : _____
Initial Submission Date : _____

Preventive Maintenance

The APPLICANT or its contractor will provide preventive maintenance for each individual component of the traffic signal installation covered by this application at intervals not less than those indicated in the Preventive Maintenance Summary, PA DOT Publication 191, current version. This is the recommended level of maintenance to keep the intersection control equipment and signals in mechanically, structurally and aesthetically good condition.

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The APPLICANT or its contractor will provide response maintenance in accordance with the provisions of the Response Maintenance Schedule. It encompasses the work necessary to restore a traffic signal system to proper and safe operation. Includes Emergency Repair and Final Repair.

FINAL REPAIR:

Repair or replace failed equipment to restore system to proper and safe operation in accordance with permit within a 24-hour period.

EMERGENCY REPAIR:

Use alternative means or mode to temporarily restore system to safe operation within a 24-hour period. Final repair must then be completed within 30 days unless prohibited by weather conditions or availability of equipment.

Response Maintenance Schedule

KNOCKDOWNS

Support - Mast arm	Emergency or Final
Support - Strain pole	Emergency or Final
Span wire/tether wire	Final Only
Pedestal	Emergency or Final
Cabinet	Emergency or Final
Signal heads	Final Only

TYPE OF REPAIR PERMITTED

EQUIPMENT FAILURE

Lamp burnout (veh. & ped.)	Final Only
Local controller	Emergency or Final
Master controller	Emergency or Final
Detector sensor	
- Loop	Emergency or Final
- Magnetometer	Emergency or Final
- Sonic	Emergency or Final
- Magnetic	Emergency or Final
- Pushbutton	Emergency or Final
Detector amplifier	Emergency or Final
Conflict monitor	Final Only
Flasher	Final Only
Time clock	Emergency or Final
Load switch/relay	Final Only
Coordination unit	Emergency or Final
Communication interface, mode	Emergency or Final
Signal cable	Final Only
Traffic Signal Communications	Final Only
Traffic Signal Systems	Final Only

**Exhibit "B":
Recordkeeping**



County : DELAWARE

Engineering District : 6-0

Department Tracking # : _____

Initial Submission Date : _____

Recordkeeping

Accurate and up-to-date recordkeeping is an essential component of a good traffic signal maintenance program. In recognition of this fact, the APPLICANT must prepare, retain, and make available to the COMMONWEALTH, on request, a record of all preventive and response maintenance activities performed on the traffic signal equipment covered by this application.

The APPLICANT shall establish a separate file for each installation and keep its records in the municipal building, signal maintenance shop, or other weather-protected enclosure.

At a minimum, the following records will be kept by the APPLICANT or its contractor for each traffic signal. These forms can be found in Section 10.0, Maintenance Record Forms, PA DOT Publication 191, current version.

FORM 1 - Master Intersection Record

This form, which lists all maintenance functions performed at the intersection, should be updated within one day of the activity but no more than one week later.

FORM 2 - Response Maintenance Record

Each time response maintenance is required at the intersection, this form is to be completed. Once the pertinent information is transferred to the master intersection record, this form is to be placed in the intersection file.

FORM 3 - Preventive Maintenance Record

This form will be used to provide a record of the preventive maintenance activities performed at each intersection. The date, the activities performed, and the signature of the person in charge of the work must be recorded in the form.

This form may be kept at the intersection, if it is adequately protected from the weather. Form 1 must be updated at the central file, however, to reflect the date and activity.

**Exhibit "C":
Signal Maintenance Organization**County : DELAWAREEngineering District : 6-0

Department Tracking # : _____

Initial Submission Date : _____

Personnel Classifications

In order to properly maintain the traffic signal equipment covered by this applicant, the APPLICANT agrees to provide, as minimum, the following staff throughout the useful life of equipment. The APPLICANT agrees to abide by all guidance provided in PA DOT Publication 191.

Traffic Engineer - The administrative position which has prime responsibility for the proper operation of traffic signal equipment. The principal function of this position is the supervision and control of subordinate personnel and the planning of their activities to ensure adequate preventive and response maintenance programs.

Minimum Position Requirements

1. A thorough understanding of traffic signal design, installation and maintenance.
2. A working knowledge of the interaction between the following traffic characteristics: Intersection geometry, traffic flow theory, control type (fixed time, actuated, etc.), signal phasing and timing, and interconnection.
3. An ability to supervise subordinate personnel effectively in the assignment of their work.
4. Possession of a college degree in engineering, which includes course work in traffic engineering.
5. Either four years experience in the field of traffic engineering or its equivalent in graduate college work.

Signal Specialist - The individual responsible for the diagnostics and repair of all traffic signal equipment including solid state equipment.

Minimum Position Requirements

1. Extensive training and troubleshooting skills in electronics and software.
2. Ability to repair modules in the shop and to design test equipment needed to diagnose and repair a problem.
3. Ability to make design and modifications to implement or omit special functions.
4. Ability to implement a recordkeeping system to include maintenance activities, inventory control and identification of recurring problems.
5. Ability to perform all tasks required of a signal technician.

Signal Technician - Individual responsible for the operation and maintenance of traffic signals and electromechanical equipment.

Minimum Position Requirements

1. Ability to perform response maintenance on solid state equipment up to the device exchange level.
2. Capability to diagnose a vehicle loop failure and initiate corrective action.
3. Ability to tune detector amplifiers.
4. Ability to follow wiring schematics, check and set timings from plan sheet and check all field connections.
5. Ability to perform preventive maintenance on all equipment and to maintain accurate records of all work perform.

Training

The APPLICANT agrees to secure training in order to upgrade the ability of its present staff to properly perform the required maintenance functions. The APPLICANT agrees to abide by all guidance provided in PA DOT Publication 191.

Budget Requirements

The APPLICANT agrees to provide, in its annual operating budget, dedicated funds which are sufficient to cover the cost of the personnel, training, contractors (if utilized) and specialized maintenance equipment which are required, by virtue of this application. The APPLICANT agrees to abide by all guidance provided in PA DOT Publication 191..