

Portable Traffic Management System (09-26-13)

(Use this specification when a portable traffic management system is required. Insert these subsections into the appropriate locations of SP225.)

00225.01(b) Definitions - Add the following to the definition:

Portable Traffic Management System (PTMS) - A portable automated system consisting of queue sensors, changeable message signs, video cameras, communication equipment, and other hardware components as well as software components to provide real-time traffic data and information to the traveling public and the Agency to improve mobility and safety leading up to and through Work Zones.

00225.16 Temporary Electric Signs - Add the following subsection:

(c) Portable Traffic Management System - Furnish a portable traffic management system from the PTMS vendors listed on the QPL that does the following:

(Delete what does not apply.)

- Displays the following to public traffic:
 - Travel time information either point-to-point or through the Work Zone.
 - Approximate amounts of delay through the Work Zone.
 - Alternate route options and detour information.
- Provides the following traffic control measures:
 - Dynamic late merge system for lane closures.
 - Dynamic warnings for variable traffic speeds, slowed traffic, and stopped traffic in the Work Zone.
 - Excessive traffic speed warnings.
 - Warnings of construction vehicles entering or leaving the mainline.

Add the following subsection:

00225.34 Portable Traffic Management System Technician - Provide a PTMS technician that is skilled in the operation of all PTMS equipment and software and is locally available 24 hours a day, 7 days a week. The duties of the PTMS technician include the following:

- Performs all testing of the system before turning on the system.
- Services and maintains all system components during operation of the system.
- Moves portable components when needed.
- Responds to emergency situations within 2 hours of notification.
- Maintains all maintenance logs.

(Fill in the blanks with the appropriate information.)

00225.46 Temporary Electrical Items - Add the following subsection:

(d) Portable Traffic Management System:

(1) Use, Coordination, and Deployment - A PTMS will be required during Stage _____, Phase _____, in the _____ direction on the _____ Highway.

(Use the following paragraph when more than one PTMS is required.)

A PTMS will be required during Stage _____, Phase _____, in the _____ direction on the _____ Highway.

Coordinate the deployment and operation of the PTMS with the Engineer at least 14 Calendar Days before turning the system on. Provide, in writing, the TCP for the work zone utilizing the PTMS with times, dates, location, and duration of operation.

(Fill in the blanks with the mobility threshold, the operations center phone number and names and phone numbers of the appropriate agency personnel.)

(2) Mobility Thresholds - Program the PTMS to alert the Engineer _____ (phone #) _____ (Agency smart phone e-mail) _____, the Traffic Operations Center at _____ (phone #) _____ (Agency smart phone e-mail) _____, _____ (Agency employee) _____ (phone #) _____ (Agency smart phone e-mail) _____, and _____ (Agency employee) _____ (phone #) _____ (Agency smart phone e-mail) _____, when any of the following conditions are encountered:

- Measured speeds on _____ Highway, _____ (direction) _____, fall below _____ mph.
- Measured queue length on _____ Highway, _____ (direction) _____, exceed _____ miles.
- Measured delay on _____ Highway, _____ (direction) _____, exceeds _____ minutes.

(Use the following bullets when more than one PTMS is required.)

- Measured speeds on _____ Highway, _____ (direction) _____, fall below _____ mph.
- Measured queue length on _____ Highway, _____ (direction) _____, exceed _____ miles.
- Measured delay on _____ Highway, _____ (direction) _____, exceeds _____ minutes.

(3) Traffic Date Logs - Maintain a traffic data log with date and time stamps. At the completion of the Project, provide all traffic data logs on CD-ROM or DVD in Microsoft Excel format.

(4) Sign Messages - Obtain approval of all sign messages and their criteria for usage with the PTMS before displaying them.

(5) Agency Access to Data - Provide password protected access to the PTMS website. Provide the website password to the Engineer and Agency personnel and allow them to:

- Retrieve and graph collected volume and speed data.
- View within the collected data of when mobility thresholds were exceeded and what PTMS triggered message was displayed on the PCMS.
- Change PCMS messages.
- Operate the cameras.

00225.66 Portable Electrical Signs - Add the following to the end of this subsection:

If the PTMS malfunctions, notify the Engineer _____ (phone #) _____ (Agency smart phone e-mail) _____, take the PTMS out of service, and repair the PTMS. Repair the PTMS and place it back in service within 2 hours of the notification.

Maintain a service and repair log for the PTMS with at least the following information:

- Dates and times of when service and maintenance was performed.
- The equipment that was serviced and why service was necessary.
- Dates, times, and durations of operational and equipment failures.
- All operational and equipment failures.
- All repairs that were made.

Keep the log with the PTMS.

While the PTMS is in use, keep repair equipment and parts on the Project site or other location that will allow repairs to be made to the PTMS within 2 hours of the notification.

00225.86 Temporary Electrical Signs - Add the following subsections:

(Fill in the blank with the appropriate number of times that mobilization will be required.)

(c) Portable Traffic Management System Mobilization - No separate measurement will be made for portable traffic management system mobilization. It is anticipated that PTMS mobilization will be required _____ times for this project.

(d) Portable Traffic Management System - The quantities for the portable traffic management system will be measured on the time basis.

00225.96 Temporary Electrical Signs - Add the following pay items:

- (c) Portable Traffic Management System Mobilization Lump Sum
- (d) Portable Traffic Management System Day

Add the following paragraphs to the end of the subsection:

Item (c) includes moving personnel, equipment, supplies, and incidentals to and from the project site.

Item (d) includes payment in full for furnishing all equipment, labor, and incidentals necessary to complete the work as specified.

If the portable traffic management system malfunctions for more than a total of 2 hours throughout a Day, no payment will be made for the portable traffic management system for that Day.

No separate or additional payment will be made for relocating, repositioning, and removing the portable traffic management system.