SP225 (~~05-16~~06-12-08) *(This Section requires SP440 when temporary traffic signals are required.)*

(NOTE: All Federal-aid projects, including local government projects, that are advertised and awarded by ODOT require "Method 'A' Unit Basis" measurement [see Standard Specifications 00225.80].)

SECTION 00225 - WORK ZONE TRAFFIC CONTROL

(Follow all instructions. If there are no instructions above a subsection, paragraph, sentence, or bullet, then include them in the project but make necessary modifications to only include project specific specifications. Delete specifications that do not apply to the project.)

Comply with Section 00225 of the Standard Specifications modified as follows:

00225.02 General Requirements - Add the following after the last paragraph of this subsection:

(Use the following paragraph on all ~~OTIA~~ projects that have an engineer's estimate of $1 million or more, and duration longer than a month, and an ADT of 2,000 or higher. Fill in the blank.)

Install a Type "W8" "PROJECT IDENTIFICATION" (CG20-8-48) sign with a "KEEPING OREGON ON THE MOVE" rider on the _____ Highway, approximately 500 feet in advance of the "ROAD WORK AHEAD" sign at each end of the Project, facing incoming traffic. The Engineer will determine the sign legend.

(Fill in the blanks with the appropriate information.)

Install a "ROAD WORK AHEAD" (W20-1-48) sign with "FINES DOUBLE" (R2-6-36) rider on the _____ Highway, according to sign spacing "A" from the "TCD Spacing Table" shown on the standard drawings. Also, install an "END ROAD WORK" (CG20-2A-24) sign approximately 500 feet beyond each end of the Project, facing outgoing traffic.

(Use the following paragraph when it is necessary to reduce the overall roadway width between positive barriers [for example: concrete barrier, guardrail, and falsework] to less than 19 feet.)

When the horizontal clearance for the roadway is less than 19 feet, install horizontal clearance (CW21-12-48) signs, identifying the narrowest width of the roadway. Locate these horizontal clearance signs as shown or as directed.

(Use the following paragraph when it is necessary to reduce the overall vertical clearance to less than 15 feet 3 inches.)

When the vertical clearance is less than 15 feet 3 inches, install low clearance (W12-2-48) and (OW12-2-36) signs. The clearance shown on the signs shall be ~~3~~4 inches less than the shortest height of the opening. Locate these low clearance signs as shown or as directed.

(Use the following paragraph on all freeway projects.)

Install two sign flag boards above the "ROAD WORK NEXT XX MILES" and the "BRIDGE/ROAD WORK AHEAD" post mounted signs as shown on the standard drawings.

Provide two copies of a sketch map of the Project showing all existing tourist-oriented directional (TOD) and business logo signs and a written narrative describing how these signs will be kept in service and protected throughout all the construction stages.

00225.05 Contractor Traffic Control Plan - Delete the bullet that begins "Two copies of a sketch map…".

(Use the following subsection .11 when the completion time is less than eight months after the bid opening date and on traffic signal, illumination, landscaping, or other projects when temporary signing duration will be limited.)

00225.11 Temporary Signing - Replace the sentence that begins "Furnish new or acceptable temporary signs..." with the following sentence:

Furnish temporary signs meeting the requirements of the "Acceptable" category shown in the American Traffic Safety Services Association (ATSSA) "Quality Standards For Work Zone Traffic Control Devices" handbook and the following:

Add the following subsection:

00225.11(a-5) Light-Weight Sign Substrate - Use light-weight sign substrates from the QPL.

(Use the following lead-in sentence and subsection .18 when automated flagger assistance devices are required.)

Add the following subsection:

00225.18 Automated Flagger Assistance Device - Furnish an automated flagger assistance device (AFAD) from the Conditional Products List or the QPL.

(Use the following subsection .17 when flagger station lighting is required.)

00225.17 Flagger Station Lighting - Add the following to the end of this subsection:

Flagger station lighting listed on the QPL or listed on the conditional use list may be used.

For Contracts awarded after January 1, 2009, only temporary flagger station lighting that is listed on the QPL will be allowed.

00225.32 Traffic Control Supervisor - Replace the bullet that begins "Prepare and sign a daily…" with the following bullet:

- Prepare and sign a "TP & DT Daily Report" form (Form No. 734-2474). Submit the report to the Engineer no later than the end of the next working day. As a minimum, include the following items in the report:

(Use the following lead-in sentence and subsection .35 when automated flagger assistance devices are required.)

Add the following subsection:

00225.35 Automated Flagger Assistance Device Operator - Provide a flagger, who has been trained in the operation of AFAD's, to operate the device. The operator shall attend the AFAD at all times during the operation of the device. The AFAD operator shall not flag traffic when operating the AFAD.

(Use the following subsection .43(g) when striping is required on new bridge decks.)

00225.43(g) Striping - Add the following paragraph after the first paragraph:

For temporary striping on new bridge deck surfaces, use temporary removable tape.

(Use the following lead-in sentence and subsection .50 when automated flagger assistance devices are required.)

Add the following subsection:

00225.50 Automated Flagger Assistance Device - Install and operate the AFAD to safely stop and control traffic through the work zone. Position the AFAD operator's control location at a safe distance from traffic. Install the AFAD according to the details shown. Use the AFAD according to manufacturer's recommendations. Do not use the AFAD to control more than one lane of approaching traffic. Provide illumination when used during nighttime hours. Do not use an AFAD to replace a continuously operating temporary traffic control signal. The Engineer may order adjustments to the operation of the AFAD or substitute flagging for the AFAD based on traffic delay, field conditions, and safety concerns. When providing AFAD for both directions of traffic, use AFAD's of the same type and from the same manufacturer. When AFAD's are not in use, remove them and remove the accompanying TCD from the roadway. Remove or cover the accompanying temporary signing.

(Use the following lead-in sentence and subsection .68 when automated flagger assistance devices are required.)

Add the following subsection:

00225.68 Automated Flagger Assistance Device - When repairs of the AFAD are required, take the device out of service. Flag traffic until repairs are complete and the AFAD is re-installed and operational. Use replacement stock by the same manufacturer and type, with capabilities equal to the original system, as installed.

(Use the following lead-in sentence and one of the following subsection .87(c)'s when automated flagger assistance devices are required. Delete the subsection that does not apply.)

Add the following subsection:

[Use this subsection .87(c) when AFAD's are measured on the unit basis.]

00225.87(c) Automated Flagger Assistance Device - Automated flagger assistance devices will be measured on the unit basis.

[Use this subsection .87(c) when AFAD's are measured on the time basis.]

00225.87(c) Automated Flagger Assistance Device - Automated flagger assistance devices will be measured on the time basis, of the actual number of hours, to the nearest hour, the AFAD's are operating and in use to control traffic.

(Use the following subsection .92 when attenuators are required.)

00225.92 Temporary Barricades, Guardrail, Barrier, and Attenuators - Replace the paragraph that begins "No separate or additional…" with the following paragraph:

No separate or additional payment will be made for temporary impact attenuator replacements, replacement modules, cartridges, components, or replacements parts that are required to be on-site according to 00225.62(b).

(Use the following subsection .97 when automated flagger assistance devices are required. Select the appropriate pay item. Delete the pay item that does not apply.)

00225.97 Flagger and Flagger Station Lighting - Add the following pay item:

[Use this pay item when AFAD's are paid on the unit basis.]

_____(c) Automated Flagger Assistance Device .....Each

[Use this pay item when AFAD's are paid on the time basis.]

_____(c) Automated Flagger Assistance Device .....Hour

Item (a) includes the operation of the AFAD.

Item (c) includes maintaining and moving each device, regardless of size or type.

No separate or additional payment will be made for replacement parts and components or for illumination.

(This page is only used to provide a list of standard drawings to the specification writer for listing on the plan title sheet. Remove this page before advance and final.)

NUMBER OF TRAFFIC CONTROL PLAN SHEETS: _____

(Add or delete Standard Drawings, as applicable.)

To be accompanied by Standard Drawings:

RD410..... Guardrail Parts (Thrie Beam)
RD420..... Guardrail Non-Flared Terminal
RD425..... Guardrail Flared Terminal

RD500..... Precast Concrete Barrier
RD510..... Concrete Barrier Terminal
RD530..... Guardrail Connection to Concrete Barrier
RD535..... Concrete Barrier (Modified) Around Medial Obstacle
RD545..... Precast Tall Concrete Barrier
RD560..... Cast-in-Place Tall Barrier Transition to Standard Concrete Barrier

BR236..... Guardrail Connection to Concrete Bridge Rail

TM204..... Flag Board Mounting Details
TM211..... Signing Details US and Interstate Route Shields
TM212..... Signing Details Oregon Route Signs
TM570..... Traffic Delineators
TM575..... Traffic Delineator, Installation for Freeways
TM576..... Traffic Delineator, Installation for Non-Freeways
TM670..... Wood Post Supports Sizing Charts
TM677..... Sign Mounts
TM681..... Square Tube Sign Support Installation & Foundation
TM700..... TCP Details
TM705..... TCP Intersection Details
TM710..... TCP 2 Lane, 2-Way Roadways
TM715, TM717..... TCP Non-Freeway Multi-Lane Sections
TM720, TM725, TM730 .. TCP Freeway Sections
TM735..... TCP Bridge Construction
TM740..... TCP Blasting Zones
TM745..... TCP Restraining & Pinning Temporary Concrete Barrier
TM747..... TCP Temporary Reflective Pavement Markers
TM750..... Temporary Barricades
TM755, TM760..... TCP Temporary Impact Attenuators
TM765..... TCP Signalized Intersection Details
TM770..... TCP Multi-Lane Signalized Intersection Details
TM775..... TCP Temporary Sign Supports
TM780..... TCP Closure Details