

## **ARTICLE 9**

### **TRAFFIC CONTROL**

#### **9.1 GENERAL**

##### **9.1.1 DESCRIPTION**

Traffic control shall conform to the ordinances and regulations of the City of Pueblo. Construction signing and marking shall conform to the Manual of Uniform Traffic Control Devices for Streets and Highways, U.S. Department of Transportation, latest edition and revisions thereto, City of Pueblo Supplement to MUTCD for Traffic Control for Street Construction Utility Work and Maintenance Operations and the State of Colorado Department of Highways Standard Specifications for Road and Bridge Construction (latest edition), Section 614, "Traffic Control Devices", and Section 713, "Traffic Control Materials".

##### **9.2 SCOPE**

This work shall consist of furnishing and maintaining in place all barricades, warning signs, lights, and other safety devices required to protect the work, divert traffic, and warn pedestrians of open excavations, unfilled trenches, and other areas or conditions which might be hazardous or dangerous during daylight or darkness.

Detours shall be maintained throughout the period of construction in such a manner as to provide the least amount of disruption to normal traffic flow.

The Contractor shall strictly adhere to all time limits and other restrictions as specified by the City Traffic Engineering Division in the approval of the Traffic Control Plan.

##### **9.3 CONSTRUCTION STAGING**

The contractor shall coordinate with the City Traffic Engineering Division to determine the site-specific staging and/or phasing requirements. The Contractor shall schedule the work in such a manner as to comply with the staging and/or phasing requirements contained in the contract documents.

##### **9.4 CONSTRUCTION REQUIREMENTS**

###### **9.4.1 General**

The Contractor shall maintain a 24 hour, 7 days a week (including weekends and holidays) emergency service to remove, install, relocate, and maintain warning devices. The Contractor shall furnish to the City the name and telephone number of the Traffic Control Supervisor responsible for emergency service.

In the event the Traffic Control Supervisor does not respond within 2 hours, or the City deems it necessary to call out other forces to accomplish emergency services, the Contractor will be held responsible for the cost of such emergency services, without reimbursement.

#### **9.4.2 Existing Traffic Control Devices**

Prior to commencing work in the vicinity of any existing Traffic Control Devices, the Contractor shall coordinate with the City Traffic Engineering Division in the removal of devices which need to be removed or relocated to accommodate the work. The Contractor shall store all devices in a safe and secure manner throughout the period of work and assume responsibility for temporary devices if necessary.

Upon completion of the work in the vicinity of the previously removed Traffic Control Devices, the Contractor shall reinstall the devices as directed by the City Traffic Engineering Division. Any Traffic Control Devices damaged during removal, relocation storage, or reinstallation shall be repaired or replaced by the Contractor, to City Standard, at their expense.

The removal relocations, storage, and reinstallation of existing devices shall not be paid for separately but shall be considered as incidental to the project.

#### **9.4.3 Traffic Control Plans**

##### **9.4.3.1 Submittal**

The Contractor shall submit Traffic Control Plans in drawing form for the review and approval by the City Traffic Engineering Division or project engineer. The Traffic Control Supervisor shall provide a night telephone number to assure 24-hour availability.

Traffic Control Plans for street closure and major detours of local and/or through traffic shall be submitted to the City Traffic Engineering Division or project engineer at least ten calendar days in advance of the closure or detouring.

Traffic Control Plans not involving closures or major detours shall be submitted a minimum of 72 hours (three City business days) prior to implementation.

No phase of construction shall commence until the Traffic Control Plan has been approved. Approved Traffic Control Plans shall not be revised without prior approval of the City Traffic Engineering Division or project engineer. Revisions shall be submitted in accordance with the above requirements.

##### **9.4.3.2 Format**

Traffic Control Plans shall include detailed signing, barricading, and traffic detouring information for each phase or stage of construction including as a minimum: type and number of devices, working hours, date(s), number and location of flaggers, and time restrictions, if any.

### **9.4.3.3 Copies of Approved Plan**

Copies of the approved Traffic Control Plans shall be available on-site at all times; the Contractor shall provide copies to the Project Engineer, Traffic Engineer, and Project Inspector.

## **9.4.4 Traffic Control Supervisor**

### **9.4.4.1 Qualifications**

The Contractor shall designate a Traffic Control Supervisor who shall perform the Traffic Control Management and shall be responsible for maintaining all Traffic Control Devices in compliance with the approved Traffic Control Plan.

The Traffic Control Supervisor shall be either an employee of the Contractor, other than the Superintendent, or an employee of a firm which has a subcontract for the overall Traffic Control Management for the project. The Traffic Control Supervisor shall be currently certified by the American Traffic Safety Services Association or Colorado Contractors Association as a Worksite Traffic Control Supervisor.

The name and qualifications, including a current copy of the American Traffic Safety Services Association certification, of the Traffic Control Supervisor shall be submitted to the Engineer and the Engineer's approval shall be obtained prior to commencing construction. The Traffic Control Supervisor shall have an up-to-date copy of part VI of the Manual of Uniform Traffic Control Devices (and revisions thereof) and City of Pueblo Supplement to MUTCD for Traffic Control for Construction, Utility Work and Maintenance Operations available on-site at all times.

### **9.4.4.2 Duties**

The Traffic Control Supervisor duties shall include, but not be limited to:

- (a) Preparing, revising, and submitting the Traffic Control Plan as required.
- (b) Direct supervision of project flaggers.
- (c) Coordinating all Traffic Control operations, including those of subcontractors and suppliers.
- (d) Coordinating project activities with appropriate police and fire control agencies.
- (e) Maintaining a project Traffic Control diary which shall become a part of the project records.
- (f) Inspecting Traffic Control Devices on every calendar day that Traffic Control Devices are in use. (By the Traffic Control Supervisor or his approved representative).
- (g) Ensuring that Traffic Control Devices are functioning as required.

- (h) Overseeing all requirements covered by the plans and specifications which contribute to the convenience, safety and orderly movement of traffic.

#### **9.4.4.3 Working Hours**

The Traffic Control Supervisor shall be available on a 24 hour per day basis. The Contractor shall make arrangements so that the Traffic Control Supervisor, or his representative as approved by the City, will be available on every working day and upon the request of the Engineer.

#### **9.4.5 Flaggers/Off-Duty Police Officers**

The City Traffic Engineering Division may require flaggers or off-duty police officers for traffic direction.

##### **9.4.5.1 Qualifications**

- (a) All flagging personnel shall have completed the Colorado Department of Transportation minimum training requirements for flaggers within 2 years prior to beginning the project. Flaggers will be required to have a current American Traffic Safety Services Association certification card upon their person when engaged in any flagging operation.
- (b) Off-duty police officers shall be active members of the City of Pueblo Police Department. The Contractor shall be responsible for contacting the Police Department and making all arrangements for off-duty officers.

#### **9.4.6 Pedestrian Traffic Control**

Throughout construction, the Contractor shall maintain pedestrian walkways along all public streets unless otherwise approved by the City Traffic Engineering Division. Said pedestrian walkways shall be a minimum of 4' wide and shall be safely delineated. Pedestrian walkways shall be surfaced in a manner approved by the Engineer and shall be safely maintained and kept clear of all debris and obstructions (including tools, equipment, and materials). Unless otherwise specified in the contract documents, pedestrian walkways shall be supplied and maintained by the Contractor at his expense.

#### **9.4.7 Access to Adjacent Properties**

The Contractor shall notify all affected residents and/or property owners a minimum of 48-hours prior to restricting normal access from public streets to adjacent properties. The Contractor shall inform each resident and/or property owner of the nature of the access restriction, the approximate duration of the restriction, and the best alternate access route for that particular property. Any closure of access to or from adjacent property shall be submitted to the Engineer and approved prior to implementation.

#### **9.4.8 Re-Opening to Traffic**

Before reopening any portion of the public streets to vehicular traffic, the Contractor shall restore the pavement as required by the Plans and Specifications and in accordance with Section 19-5-2 of the City Code, "Excavations", shall reset all signs, and shall restore all pavement markings. If necessary, a temporary asphalt concrete surface and temporary pavement markings shall be installed by the Contractor at his expense.

Any signs damaged as a result of the Contractor's work shall be repaired or replaced to the requirements of the City Traffic Engineering Division; said repair or replacement shall be at the Contractor's expense.

### **9.5 MEASUREMENT AND PAYMENT**

Work performed under this section shall be paid for by one of the following methods as specified in the contract documents:

#### **9.5.1 Lump Sum Bid Item**

When Traffic Control is shown as a Lump Sum item in the bid schedule, it shall be the responsibility of the Contractor to determine the Traffic Control needs for the project, including all devices and personnel, and to develop the bid amount accordingly. Payment shall be made as a percentage of the Traffic Control Lump Sum amount equal to the percent-complete-to-date of the balance of the total contract amount less any previous payments for Traffic Control. In no case shall the total amount paid for Traffic Control exceed the Lump Sum shown in the bid schedule.

#### **9.5.2 Incidental to Project**

When Traffic Control is not shown in the bid schedule as a separate item, the work shall not be paid for separately, but will be considered as incidental to the project.