ITEM NO. 0971001A – MAINTENANCE AND PROTECTION OF TRAFFIC

Article 9.71.01 – Description *is supplemented by the following:*

 The Contractor shall maintain and protect traffic as described by the following and as limited in the special provision for Section 1.08 - Prosecution and Progress:

**Limited-Access Highways**

 The Contractor shall maintain and protect the minimum number of through lanes and shoulders on a paved travel path not less than 12 feet in width per lane during the hours dictated in the special provision for Article 1.08.04 – Limitation of Operations.

 The Contractor will be permitted to halt traffic during the allowable periods. If more than one 10 minute period is required, then the Contractor shall allow all stored vehicles to proceed through the work area prior to the next stoppage.

**Limited-Access Highway Ramps**

 The Contractor shall maintain and protect existing traffic operations, with the following exceptions:

1. During the allowable periods and when the Contractor is actively working, the Contractor will be permitted to maintain and protect a minimum of 1 lane of traffic on a paved travel path not less than 12 feet in width.
2. During the allowable periods and when the Contractor is actively performing *state work,* the Contractor will be permitted to close any ramp where the available pavement width is less than *xx* feet and shall detour traffic as shown on the Detour Plans.

**Secondary Roads**

 The Contractor shall maintain and protect a minimum of 1 lane of traffic in each direction with each lane on a paved travel path not less than 11 feet in width, with the following exceptions:

1. During the allowable periods and when the Contractor is actively working, the Contractor will be permitted to maintain and protect at least an alternating one-way traffic operation on a paved travel path not less than 11 feet in width and no more than 300 feet in length, unless specified elsewhere in the Contract. There shall be no more than one alternating one-way traffic operation within the Project limits without prior approval of the Engineer.
2. The Contractor will be permitted to close Secondary Roads to through traffic and detour traffic as shown on the Detour Plans. The Contractor shall notify the Engineer at least 14 days in advance of implementing the detour.
3. The Contractor will be permitted to close pedestrian sidewalks and detour pedestrian traffic as shown on the Detour Plans. The Contractor shall notify the Engineer at least 14 days in advance of implementing the pedestrian detour.

**All Other Roadways**

 *See Secondary Roads section for sample language.*

**Commercial and Residential Driveways**

 The Contractor shall maintain access to and egress from all commercial and residential driveways throughout the Project limits. The Contractor will be permitted to temporarily close affected driveways while actively working with coordination and permission from the owner or proprietor.

**Blasting Operation**

 The Contractor shall install signs on all approaches to the blasting site as shown on the Construction Traffic Control Plan 30 just prior to the loading of the holes, and shall cover orremove these signs immediately after the blast is completed.

 If more than one blasting period is required, the Contractor shall allow all stored vehicles to proceed through the blasting zone prior to the start of the next blasting period.

**Intermediate Term Sidewalk Closures**

 The Contractor shall maintain and protect existing pedestrian accommodations, or a minimum of 4 feet in width, on all existing sidewalks, sidewalk ramps, and access to pedestrian pushbuttons, with the following exception:

* During the allowable periods and when the Contractor is actively constructing pedestrian amenities or installing signal equipment, the Contractor will be allowed to close pedestrian sidewalks and sidewalk ramps and restrict access to pedestrian pushbuttons for no more than a continuous 48 hour period of time.

 No more than two corners of an intersection may be closed for an intermediate term sidewalk closure at any time. Where all four corners of an intersection have sidewalks and sidewalk ramps, diagonal corners shall not be closed at the same time.

 During the intermediate term sidewalk closure, all approaches to the sidewalk shall be blocked by Construction Barricade Detectable with Sidewalk Closed signs.

 The Contractor shall ensure that traffic control signals with pedestrian phases where access to the pushbuttons cannot be provided are revised at the start of the closure to automatically activate the pedestrian phase every signal cycle.

 Intermediate term sidewalk closures may be extended to 72 hours with prior approval of the Engineer.

**Route #/Roadway Name - Railroad – Railroad – Highway Grade Crossing Detour(s)**

 The Contractor will be permitted to close Secondary Roads and detour traffic as shown on the Detour Plans. The Contractor shall notify the Engineer at least 14 days in advance of implementing the detour. No changes to the approved detour plan shall be made without written approval of the Engineer and Town Officials. The Contractor shall notify and receive approval from the Engineer before reopening the road to traffic and removing the detour.

 The detour signs and barricades necessary for the road closure will be furnished, installed, maintained, and removed by the Contractor. The roadway detour plan shall be implemented prior to the start of any construction activity affecting the railroad crossing. An emergency vehicle turn-around area shall be maintained while the detour is in place.

 The Contractor shall coordinate the road closure with the Railroad. While the detour is in place, the Contractor shall reconstruct the roadway approaches to the railroad – highway grade crossing as shown on the plans or an approach length approved by the Engineer.

**Traffic Operation Over Railroad – Highway Grade Crossing(s)**

 The Contractor will not be allowed to queue traffic over the railroad – highway grade crossing(s) at any time during the construction of the Project. If, due to the nature of the Contractor’s operations, queuing is unavoidable, the Contractor shall use the Railroad’s Police Protection to ensure that vehicles are kept clear of the crossing area. Town Police Officers and/or Uniformed Flaggers may be used in lieu of Railroad Protective Services with the approval of the Railroad and the Engineer.

 The Contractor shall coordinate its work with the Railroad’s authorized representative:

 Location

Crossing #XXXXXXX

Name Railroad Company

Contact name and/or number and/or email

Article 9.71.03 - Construction Methods *is supplemented as follows:*

**General**

 Unpaved travel paths will only be permitted for areas requiring full depth and full width reconstruction. The unpaved section shall be the full width of the road and shall be perpendicular to the travel lanes. The Contractor will be allowed to maintain traffic on processed aggregate for a duration not to exceed 10 calendar days and opposing traffic lane dividers shall be used as a centerline.

 The Contractor is required to delineate any raised structures within the travel lanes, so that the structures are visible day and night, unless there are specific Contract plans and provisions to temporarily lower these structures prior to the completion of work.

 The Contractor shall schedule operations so that pavement removal and roadway resurfacing shall be completed full width across a roadway or bridge section by the end of a work shift, or as directed by the Engineer.

 When the installation of all intermediate courses of bituminous concrete pavement is completed for the entire roadway, the Contractor shall then install the final course of bituminous concrete pavement.

 When the Contractor is excavating adjacent to the roadway, the Contractor shall provide a 3 foot shoulder between the work area and travel lanes, with traffic drums spaced every 50 feet. At the end of the work shift if the vertical drop-off exceeds 3 inches, the Contractor shall provide a temporary bituminous concrete traversable slope of 4:1 or flatter that is acceptable to the Engineer.

 The Contractor, during the course of any active overhead construction work, shall close the lanes directly below the work area for the entire length of time overhead work is being undertaken.

 At no time shall an overhead sign be left partially removed or installed.

 When an existing sign is to be relocated or replaced, the work shall be completed during the same work shift.

 The field installation of a signing pattern shall constitute interference with existing traffic operations and shall not be allowed, except during the allowable periods.

 On limited-access highways, construction vehicles entering travel lanes shall not be allowed without a lane closure. The lane closure shall be of sufficient length to allow vehicles to enter or exit the work area at the posted speed limit, in order to merge with existing traffic.

**Existing Signing**

 The Contractor shall maintain all existing overhead and side-mounted signs within the Project limits throughout the duration of the Project. The Contractor shall temporarily relocate signs and sign supports as many times as deemed necessary, and shall install temporary sign supports if necessary and as directed by the Engineer.

**Requirements for Winter**

 The Contractor shall schedule a meeting with representatives of the Department, including the offices of Maintenance and Traffic, and the Town/City to determine any interim traffic control measures the Contractor shall accomplish prior to winter to provide safety to motorists and permit adequate snow removal procedures. This meeting shall be held prior to October 31 of each year and will include, but not be limited to, discussion of the status and schedule of the following items: lane and shoulder widths, pavement restoration, traffic signal work, pavement markings, and signing.

**Signing Patterns**

 The Contractor shall erect and maintain all signing patterns in accordance with the traffic control plans contained herein. Proper distances between advance warning signs and proper taper lengths are mandatory.

INSERT FILES OF THE NECESSARY TYPICAL M&PT MATERIAL (Pavement Markings, 12 pages of guidelines, traffic control plans).

**Article 9.71.05 – Basis of Payment** *is supplemented by the following:*

 The temporary relocation of signs and supports, and the furnishing, installation and removal of any temporary supports shall be paid for under the item “Maintenance and Protection of Traffic”. Temporary overhead sign supports and foundations shall be paid for under the appropriate item(s).

 The cost of furnishing, installing, and removing the material for the 4H:1V traversable slope shall be paid for under the item “Maintenance and Protection of Traffic”.