SECTION S414 - RAISED CROSSWALK

S414-1 DESCRIPTION

Work consists of construction of raised crosswalk, as required in Contract Documents and as directed by Project Manager.

For purposes of this specification, all references are in accordance with NYSDOT Standard Specifications (US Customary Units dated May 1, 2008) edition, including any addenda.

S414-2 MATERIALS

S414-2.01 Asphalt

Asphalt pavement is to be 9.5 F2 top course HMA 80 series compaction in accordance with NYSDOT Section 402 Hot Mix Asphalt (HMA) Pavements.

S414-2.02 Tack Coat

Tack coat is to be diluted or straight tack coat mix in accordance with Section S407 Tack Coat.

S414-2.03 Striping

Striping is to be 60 mils thick 12 inch wide overlaid white plastic preformed permanent pavement marking tape material in accordance with NYSDOT Section 727-04 Permanent Pavement Tape, NYSDOT Standard Specifications (US Customary Units dated May 1, 2008).

S414-2.04 Signs and Sign Posts

Signs and sign posts will be supplied and installed by Monroe County Traffic Engineering.

S414-3 CONSTRUCTION DETAILS

S414-3.01 General

In conjunction with construction of raised crosswalk, Monroe County Traffic Engineering will install all required signage and sign posts. Contractor is responsible to coordinate installation of required signage and sign posts with construction of raised crosswalk, and is to notify Monroe County Traffic Engineering at (585) 753-7733 minimum of 10 working days in advance of commencing construction of raised crosswalk.

In locations where raised crosswalk signage would fall within paved areas, Contractor may be required to install sign post sleeve for installation of sign post. Sign post will be installed by Monroe County Traffic Engineering.

Existing street can be temporarily closed on daily basis and during working hours only while raised crosswalk construction is taking place. Existing street must be fully accessible to vehicular traffic at end of each work day. Street closure is to be done with use appropriate traffic control signs and devices required to maintain and protect traffic, as directed by Project Manager and in accordance with *Manual on Uniform Traffic Control Devices for Streets and Highways* and *New York State Supplement to the Manual on Uniform Traffic Control Devices for Streets and Highways*, latest editions.

Adjacent areas disturbed or damaged during construction are to be restored, in kind, to satisfaction of Project Manager immediately following completion of raised crosswalk construction.

S414-3.02 Raised Crosswalk Installation

Raised crosswalk is to be constructed of asphalt top course, across full width of existing pavement, from face of curb to face of curb.

Use any method necessary to form parabolic shape and to achieve proper height of raised crosswalk. Recommended method for forming parabolic shape of approach ramps is to construct template from minimum 16 foot long wooden 2x10, cut into basic parabolic shape of approach ramp, leaving flat area at each end of template. To stiffen template and minimize any bending of template, attach aluminum or steel channel section to top portion of template. During compaction it may be necessary to remove excess asphalt material, or place additional asphalt material.

Do not perform final rolling operation until proper parabolic shape of approach ramps has been verified in accordance with Subsection S414-3.06 Construction Performance Standards.

Installation of inlaid plastic pavement markings is to be done by inlay method as recommended by manufacturer, and is to be done immediately after final rolling operation.

S414-3.03 Raised crosswalk (Existing Pavement)

At least 5 calendar days prior to commencing construction of raised crosswalk, Contractor is to provide written notification of planned work and pending construction to residents of street receiving such treatment, residents of any intersecting streets up to one block away, and to Project Manager. Project Manager will notify Office of Emergency Services, local City NSC Office, City School District and all other interested parties that construction of raised crosswalk is scheduled to take place.

Notification to residents is to be type written, is to contain information informing residents of planned work, and is to be as approved of by Project Manager before distribution. Notification is to be placed in plastic bag with handles that have capability of being hung on door knob, and distributed to all residents as required.

In area where raised crosswalk is to be constructed, mill existing pavement minimum 1 inch deep, thoroughly clean pavement surface, and apply tack coat making sure to completely cover surface area. Tack coat must be applied before placement of any new asphalt material, and between any and all subsequent asphalt courses.

S414-3.04 Raised crosswalk (New Pavement)

Finish paving street with asphalt top course up to outer most limits of raised crosswalk approach ramps before constructing raised crosswalk section. Raised crosswalk is to be constructed on top of binder course. Thoroughly clean pavement surface, and apply tack coat making sure to completely cover surface area. Tack coat must be applied before placement of any new asphalt material, and between any and all subsequent asphalt courses.

If Contractor elects to, or inadvertently, paves entire street without making allowances for raised crosswalk construction, raised crosswalk is to be constructed in accordance with Subsection S414.3.03 Raised Crosswalk (Existing Pavement), except written notification will not be required.

Separate written notification is not required where raised crosswalk construction is being done as part of an overall street improvement project.

S414-3.05 Construction Performance Standards

Cross section and profile of raised crosswalk are to be surveyed to verify that parabolic shape of approach ramps has been constructed properly and falls within required tolerance range.

Raised crosswalk will be acceptable only if parabolic shape of approach ramps is within range of +0.03 and -0.06 feet of required theoretical elevations. Take any steps necessary to correct any deficiencies that fall outside of required tolerance range.

S414-4 METHOD OF MEASUREMENT

Quantity to be measured for payment will be number of raised crosswalks constructed.

S414-5 BASIS OF PAYMENT

S414-5.01 General All Items

Unit price bid for all items includes cost of: notifying and coordinating with Monroe County Traffic Engineering for sign and sign post installation; cleaning pavement; additional pavement preparation; and furnishing all labor, material and equipment necessary to complete work.

Restoration of adjacent areas disturbed or damaged during construction; furnishing and installing sign post sleeves, inlaid and overlaid plastic pavement markings; and maintenance and protection of traffic will be paid for under separate bid items.

S414-5.02 Raised crosswalk (Existing Pavement)

Unit price bid also includes cost of: preparation and distribution of written notification; providing plastic bags; saw cutting; milling; furnishing and installing asphalt; template; tack coat; construction of raised crosswalk and approach ramps; survey of cross-section and profile to verify parabolic shape of approach ramps for quality control measures; correction of any deficiencies that fall outside of required tolerance range.

S414-5.03 Raised crosswalk (New Pavement)

Unit price bid also includes cost of: furnishing and installing asphalt; template; tack coat; construction of raised crosswalk; survey of cross-section and profile to verify parabolic shape of approach ramps for quality control measures; correction of any deficiencies that fall outside of required tolerance range.

Payment will be made under:

| ITEM NO. | ITEM | PAY UNIT |
|--------------------|--|--------------|
| S414.01 S414.02 | Raised Crosswalk (Existing Pavement) Raised Crosswalk (New Pavement) | Each Each |