

## **SECTION S205 – PAVEMENT BASE REPAIR AND PAVEMENT REPLACEMENT**

### **S205-1 DESCRIPTION**

Work consists of repair of small sections of existing pavement base, or replacement of existing pavement section over utility trenches, as required in Contract Documents and as directed by Project Manager.

References to NYSDOT specifications are to be in accordance with latest edition of *NYSDOT Standard Specifications (US Customary Units)*.

### **S205-2 MATERIALS**

#### **S205-2.01 Select Granular Fill**

Select granular fill is to be in accordance with NYSDOT Section 203 Excavation and Embankment.

#### **S205-2.02 Subbase Course**

Subbase course material is to be Type 1 and Type 2 in accordance with NYSDOT Section 304 Subbase Course, with following modification:

Recycled materials, pulverized or recycled portland cement concrete aggregate (RCA) and brick, reclaimed asphalt pavement (RAP), and Corian® are unacceptable for use as subbase course materials, unless specifically authorized in writing by City Engineer.

#### **S205-2.03 Asphalt**

Asphalt is to be 80 series compaction, 9.5 F2 top course HMA, 19 F9 binder course HMA, and 37.5 F9 base course HMA, in accordance with NYSDOT Section 402 Hot Mix Asphalt (HMA) Pavements.

#### **S205-2.04 Tack Coat**

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

#### **S205-2.05 Concrete**

Concrete is to be PCC foundation for pavement, class C or class F, in accordance with NYSDOT Section 503 Portland Cement Concrete Foundation for Pavement.

#### **S205-2.06 Pavement Saw Cut**

Pavement saw cut is to be full depth pavement saw cut in accordance with Section R622 Saw Cutting.

### **S205-3 CONSTRUCTION DETAILS**

#### **S205-3.01 General**

Outer limits of repair/replacement areas will be as required in Contract Documents, and as approved by Project Manager.

Outer limits of existing pavement area to be repaired/replaced are to be saw cut along neat lines, and to full depth of pavement with power pavement saw with diamond or abrasive blade designed for such work. Saw cut edge is to be clean, dry and shaped so that square shoulder is provided in direction of traffic.

Existing pavement section is to be excavated to neat lines, removed and properly disposed of. Care is to be taken to prevent any undermining of adjacent pavement section, or damage from occurring to finished top course of adjacent pavement.

Pavement section is to be constructed on sound thoroughly compacted subbase. Repair and thoroughly compact pavement subbase as necessary. For small areas, either hand operated vibrating tamper or power jumping jack may be used for compaction purposes.

Tack coat is to be applied on top of concrete base, and between all courses of HMA lifts.

### **S205-3.02 Pavement Base Repair**

Area to be repaired is to be excavated to depth that is sufficient to remove existing failed base materials, and any underlying unsuitable materials.

Excavation is to be backfilled to bottom of pavement base material with select granular fill in 6 inch lifts compacted to no less than 95 per cent of Standard Proctor Maximum Density.

For concrete base repair pavement section, use minimum 8 inches concrete and 2 inches HMA binder course.

For asphalt base repair pavement section, use 8 or 6 inches HMA base course for commercial streets, and 3 inches HMA base course for residential streets and alleyways. HMA base course is to be topped with 2 inches HMA binder course.

### **S205-3.03 Pavement Replacement**

Concrete pavement replacement section will be as noted in Contract Documents.

For asphalt base repair pavement section, use 5 inches subbase course type 1; 6 inches subbase course type 2; 8 or 6 inches HMA base course for commercial streets, 3 inches HMA base course for residential streets and alleyways. HMA base course is to be topped with 2 inches HMA binder course and 1-1/2 inches HMA top course.

### **S205-3.04 Work Zone Traffic Control (WZTC)**

For bid item description that include WZTC, basic WZTC layout is to be provided in accordance with Section S619 Work Zone Traffic Control and NYSDOT Section 619 Work Zone Traffic Control.

## **S205-4 METHOD OF MEASUREMENT**

Quantity to be measured for payment will be number of square yards of pavement repaired/replaced.

For pavement base repair, maximum depth of repair area to be included in pay item will be 24 inches.

For items with measurement range, measurement range as noted is for total number of square yards repaired or restored for single area. Quantity to be measured for payment will be number of square yards of pavement repaired/replaced as measured to nearest tenth of foot (0.10')

## **S205-5 BASIS OF PAYMENT**

### **S205-5.01 Pavement Base Repair**

Unit price bid includes cost of: full depth pavement saw cut; excavation and disposal of excavated materials; furnishing, placing and compacting select granular fill; class C or F PCC foundation, or HMA base course; HMA binder course; furnishing and placing tack coat; and furnishing all labor, material and equipment necessary to complete work.

For areas of pavement base repair that are more than 24 inches deep, additional excavation and select granular fill will be paid under separate bid items.

HMA top course will be paid under separate bid item.

## S205-5.02 Pavement Replacement

Unit price bid includes cost of: full depth pavement saw cut; excavation and disposal of excavated materials; furnishing, placing and compacting subbase course type 1 and type 2; class C or F PCC foundation, or HMA base course; HMA binder course; HMA top course; furnishing and placing tack coat; and furnishing all labor, material and equipment necessary to complete work.

## S205-5.03 Work Zone Traffic Control (WZTC)

WZTC will be paid for under separate bid item or included in unit price bid for item as indicated in item description.

WZTC that is included in bid item is basic WZTC plan and layout. For work areas that require more than basic WZTC, WZTC plan and layout will be as required in Contract Documents, and will be paid for under separate bid item.

Payment will be made under:

*Note: XX in bid item number and X inch in item description represents thickness of asphalt base.  
i.e.: 8 inch asphalt base will be bid as S205.110809 Pavement Base Repair – Asphalt Base (8 inch) -  
0 to 9 SY Area (Including WZTC).*

ITEM NO.	ITEM	PAY UNIT
S205.0101	Pavement Base Repair – Concrete Base	Square Yard
S205.0201	Pavement Base Repair – Asphalt Base (8 inch)	Square Yard
S205.0202	Pavement Base Repair – Asphalt Base (6 inch)	Square Yard
S205.0301	Pavement Base Repair – Asphalt Base (3 inch)	Square Yard
S205.04	Pavement Replacement - Concrete Base	Square Yard
S205.05	Pavement Replacement - Asphalt Base (3 inch)	Square Yard
S205.06	Pavement Replacement - Asphalt Base (6 inch)	Square Yard
S205.07	Pavement Replacement - Asphalt Base (8 inch)	Square Yard
S205.100009	Pavement Base Repair – Concrete Base – 0 to 9 SY Area (Including WZTC)	Square Yard
S205.101054	Pavement Base Repair – Concrete Base – 10 to 54 SY Area (Including WZTC)	Square Yard
S205.105500	Pavement Base Repair – Concrete Base – 55 SY and Over Area (Including WZTC)	Square Yard
S205.11XX0009	Pavement Base Repair – Asphalt Base (X inch) – 0 to 9 SY Area (Including WZTC)	Square Yard
S205.11XX1054	Pavement Base Repair – Asphalt Base (X inch) – 10 to 54 SY Area (Including WZTC)	Square Yard
S205.11XX5500	Pavement Base Repair – Asphalt Base (X inch) – 55 SY and Over Area (Including WZTC)	Square Yard
S205.120009	Pavement Replacement – Concrete Base – 0 to 9 SY Area (Including WZTC)	Square Yard
S205.121054	Pavement Replacement – Concrete Base – 10 to 54 SY Area (Including WZTC)	Square Yard
S205.125500	Pavement Replacement – Concrete Base – 55 SY and Over Area (Including WZTC)	Square Yard
S205.13XX0009	Pavement Replacement – Asphalt Base (X inch) – 0 to 9 SY Area (Including WZTC)	Square Yard
S205.13XX1054	Pavement Replacement – Asphalt Base (X inch) – 10 to 54 SY Area (Including WZTC)	Square Yard
S205.13XX5500	Pavement Replacement – Asphalt Base (X inch) – 55 SY and Over Area (Including WZTC)	Square Yard

REVISED February 15, 2019