

B206-3 - EXCAVATION FOR PAVEMENT WIDENING - OPSS.PROV 206206-3.1 GENERAL

The item Excavation for Pavement Widening is used, when a long, narrow width of pavement widening, involving excavation, is required and cross-sectional measurement in the field would be impractical. This item could apply also to greater widths where excavation is required for the placing of pavement only (i.e. typically 0.23 m maximum depth), on an existing gravel shoulder and field measurement would be impractical.

Excavation for Pavement Widening applies only to the main roadway.

Excavation for construction of tapers, acceleration and deceleration lanes, and associated excavation for granular is be considered part of the general grading operation, and thus is under section B206-1 - Earth Grading, and section B206-2 - Rock Grading.

206-3.2 REFERENCES

- Design Criteria - project specific
- Environmental Assessment Report (various names) - project specific
- Pavement Design Report - project specific

206-3.3 TENDER ITEMS

Excavation for Pavement Widening

206-3.4 SPECIFICATIONS

Details of the work are contained in OPSS.PROV 206 Grading.

206-3.5 SPECIAL PROVISIONS

Refer to Chapter “E” of this Manual to review the applicable special provisions.

206-3.6 STANDARD DRAWINGS

Applicable standard drawings are contained in the OPSD 200 series.

It may be required to modify existing standard drawings for specific situations.

### 206-3.7 DESIGN

The Design Criteria represents a statement of the application of ministry policy and design standards for a project. The Design Criteria is a concise form for describing the geometric elements and standards that form the basis for the design of a new facility or improvements to an existing facility and the extent of the work to be completed on any project.

The Environmental Assessment Report (various names) will discuss any environmental matters that need to be addressed in the project design and documents.

The Pavement Design Report will contain information on the design of the pavement structure and the excavation depth required for the pavement widening.

The specification for this item states that excavated material is to be spread on the adjacent shoulders and slopes. It is important to confirm that the adjacent shoulders and slopes can physically accommodate the excavated material, and that from an environmental perspective it is acceptable to place the material in those locations.

When the excavated material is not to be spread on the adjacent shoulders and slopes, then the management of excavated material should be determined during design and specified in the Contract Documents, as it is best practice to not default to a Change in the Work during construction. This will also require a modification to the specification.

The item does not include removal of existing pavement. The pavement widening could require the removal of a narrow width of asphalt (partial paved shoulder or deteriorated asphalt edge) and excavation of granular material. The removal of the existing asphalt can be done by a separate item or included in the Excavation for Pavement Widening item. This will need to be decided on a project by project basis. A NSSP is required if pavement removal is to be included in the item Excavation for Pavement Widening, and it must include the disposal requirements for the removed pavement.

### 206-3.8 COMPUTATION

Excavation for Pavement Widening is a Plan Quantity Payment item.

The unit of measure is in linear measure in metres, along each edge of the existing pavement where widening is required.

The measurement may be from field measurement or drawings.

The locations are determined and recorded by station to station, and left or right of centerline.

## 206-3.9 DOCUMENTATION

### 206-3.9.1 Contract Drawings

A drawing showing a typical section is required defining the existing and new pavement widths, pavement structure, asphalt removal (if applicable), and excavation widths and depths.

### 206-3.9.2 Quantity Sheets (Q-sheets)

The quantity is documented on the “Quantities - Miscellaneous 1” sheet.

Locations are done on a station to station and left or right of centreline.

A separate line is required for each location of excavation.

The item total is transferred to the Tender document.

### 206-3.9.3 Documentation Accuracy

Stations and quantity entries are recorded to the nearest whole number metre.

### 206-3.9.4 Non-Standard Special Provisions (NSSPs)

Write project and item specific requirements in a NSSP using the standard format described in this manual.

Topics that require a NSSP are:

- The maximum limits, for length and depth, of open excavation allowed adjacent to the travelled roadway, where there is concern for potential drop-off beside travelled lanes or stability of the existing roadway.
- Disposal of excavated material requirements, when the material is not to be spread on the adjacent shoulders and slopes.
- Environmental requirements.
- When the work is to include removal of existing pavement, this will need to be included in the work. The disposal of the existing pavement must be stated.