

SECTION 524 CONCRETE DITCH AND SLOPE PAVEMENT

524-1 Description.

Construct concrete pavement in the flow channel of drainage ditches and on slopes.

524-2 Materials.

Use Class I concrete meeting the requirements of Section 347.

524-3 Forms.

Provide forms as specified in 520-3.

524-4 Foundation.

Shape and compact the foundation materials upon which the pavement is to be constructed to a firm, even surface, true to grade and cross-section.

524-5 Joints and Weep Holes.

524-5.1 Joints: Form open or tooled (dummy) type joints as shown in the plans. Form open joints by staking a metal bulkhead in place and placing the concrete on both sides of it. When the concrete has set sufficiently to preserve the width and shape of the joints, remove the bulkhead. Upon finishing the pavement over the joint, open and edge the slot with a tool having a 1/4 inch [6 mm] radius.

524-5.2 Method of Placing Slope Pavement: Place slope pavement in vertical strips, 4 feet \pm 1 inch [1,200 \pm 25 mm wide], except taper radii strips from the 4 foot [1,200 mm] width at the bottom to a minimum width of 1 foot [300 mm] at the top. Score the strips horizontally at intervals of 2 feet \pm 1 inch [600 \pm 25 mm], with a tool having a double 1/4 inch [6 mm] radius. Edge construction joints between strips with a tool having a 1/4 inch [6 mm radius]. The Engineer will allow construction joints at horizontal scorings.

524-5.3 Weep Holes: Locate and construct weep holes as shown in the plans. Construct weep holes at the toe of slope for all slope pavements.

524-6 Placing Concrete.

Place the concrete as specified in 520-5.

524-7 Finishing.

Use rough surfaced concrete ditch pavement unless a smooth surfaced ditch bottom is specified. Roughen the surface after screeding concrete to the approximate shape and grade by a rake or other suitable tool drawn perpendicular to the direction of flow. Ensure that the furrows are at least 1/4 inch [6 mm] deep.

Strike off slope pavement or smooth surfaced ditch pavement true to line and cross-section, and remove all surplus water and laitance from the surface. Lightly broom the finish.

524-8 Curing.

Cure the concrete as specified in 520-8.1.

524-9 Method of Measurement.

The quantities to be paid for will be the area, in square yards [square meters], completed and accepted. Where the plans show headers or cut-off walls at the end or edge of the pavement, the volume of the additional thickness of pavement that constitutes the headers, calculated in accordance with plan

dimensions, will be converted into equivalent square yards [square meters] of standard thickness pavement and included in the quantity to be paid for.

No deduction will be made for any areas occupied by manholes, inlets, or other drainage structures or by public utility appurtenances within the pavement area.

524-10 Basis of Payment.

Prices and payments will be full compensation for all work specified in this Section, including all excavation below the finished grade of the ditch pavement, refilling and tamping, disposing of surplus materials, providing the weep holes, furnishing and placing the filter aggregate, and placing the wire mesh at weep holes for the slope pavement.

Payment will be made under:

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| Item No. 524- | 1- | Concrete Ditch Pavement - per square yard. |
| Item No. 2524- | 1- | Concrete Ditch Pavement - per square meter. |
| Item No. 524- | 2- | Concrete Slope Pavement - per square yard. |
| Item No. 2524- | 2- | Concrete Slope Pavement - per square meter. |