

**OKLAHOMA DEPARTMENT OF TRANSPORTATION
SPECIAL PROVISIONS
FOR
PORTLAND CEMENT CONCRETE PAVEMENT
(UNBONDED OVERLAY)**

These Special Provisions revise, amend, and where in conflict, supersede applicable sections of the 1999 Standard Specifications for Highway Construction, English and Metric, as applicable. Units of measurement are provided in the subsections in both English and Metric equivalents. The units applicable for this project will be those specified in the project plans.

414.01. DESCRIPTION. *(Add the following:)*

The work for this project shall consist of constructing an unbonded PCC pavement overlay and bond breaker/leveling interlayer on an existing pavement surface.

414.04 CONSTRUCTION METHODS.

(b) Conditioning of Subgrade or Base Course. *(Add the following:)*

The bond breaker/leveling surface will consist of materials as shown on the Plans. Prior to placement all loose materials on the existing pavement shall be removed. The interlayer shall be constructed of asphalt concrete in accordance with the section 411 of the Standard Specifications. When the interlayer surface temperature is greater than 110 ° F (43 ° C), the interlayer shall be cooled prior to the placement of the overlay by one of the following methods: water mist, white curing compound applied at one gallon per 200 square feet (0.2 liter per square meter), or lime slurry.

(g) Placing Concrete. *(Add the following:)*

Concrete should be placed on the grade to the nominal thickness shown on the Plans. Any deviations for profile adjustments, and/or cross section adjustments, should be above the nominal thickness. When adjustments are necessary for grade or yield improvement, the thickness shall not, in any case, be less than the minimum thickness shown on the plans.

(j) Joints. *(Add the following:)*

Transverse joints, may be constructed by sawing the concrete with an approved, lightweight, early-cut saw. The blade thickness should be 1/8 inch (3 mm) and the depth of the sawcut shall be 1 1/2 inch (38 mm) minimum. Joints shall be sawn in compliance with the saw manufacturer's recommendation. The time of sawing shall vary depending on existing and anticipated weather conditions. Sawing of the joints shall commence as soon as the concrete has hardened sufficiently to permit cutting the concrete without ravelling, chipping, spalling, or tearing. The sawed faces of the joints will be inspected for undercutting of the concrete due to the early cutting of the concrete. Sawing shall be delayed if undercutting is sufficiently deep to cause structural weakness or excessive roughness in the joints. The engineer shall inspect the undercutting. The joints shall be sawed at the required spacing consecutively in the sequence of the concrete placement. Immediately after the joint is sawed, the saw cut and adjacent concrete surface shall be thoroughly cleaned. Any membrane-cured surfaces damaged during the sawing operations shall be resprayed. Each soft cut joint shall be checked the next day. If a crack is not evident within 24 hours, the joint shall be resawed to a depth of T/3 at the same time that the longitudinal joints are sawed. Longitudinal joints shall be

sawed to the depth of T/3. All joints shall be cleaned and sealed in accordance with applicable section of the Standards Specifications or according to the manufacturer's recommendation.

414.05. METHOD OF MEASUREMENT. *(Add the following:)*

- (e) *Portland Cement Concrete for an Unbonded Pavement Overlay.* The quantity of overlay concrete furnished shall be measured in cubic yards (cubic meters), using the ticket count, or other approved documentation, of batches incorporated. The Contractor shall use an approved automatic batch weight and printer system. The approved automatic batch weight and printer system shall be electronically controlled and capable of determining the net batch weight of material being delivered to the transporting truck. Such weights shall be evidenced by a weight ticket containing separate weights of each material incorporated into the load. Tickets shall also include quantities of admixtures and water incorporated into the load. The automatic batch weight and printer system shall be subject to calibration, inspection, and certification requirements as provided in section 109.01(a) and the 1999 Standard Specifications. This quantity shall include concrete placed in the mainline, widening sections, shoulders, and partial or full depth patches, as required by the plans.

(f) *Portland Cement Concrete Pavement, Unbonded Overlay, Placement Only.* The area of Portland cement concrete overlay placement only will be computed in square yards (square meters) from the surface measured longitudinally and the nominal pavement width, including widening sections, and shoulders as applicable.

414.06. BASIS OF PAYMENT. *(Add the following:)*

- (H) (SP) PORTLAND CEMENT CONCRETE FOR
UNBONDED PAVEMENT OVERLAY.....Yd³ (m³)
- (I) (SP) PORTLAND CEMENT CONCRETE PAVEMENT,
UNBONDED OVERLAY, PLACEMENT ONLY.....Yd² (m²)