SECTION 415 - COLD PLANING OF EXISTING PAVEMENT

415.01 Description. This section describes removing existing pavement by a cold planing process.

415.02 Materials. None.

415.03 Construction.

(A) Equipment. Use self-propelled cold planing machine capable of removing pavement to depth and cross slope indicated in the contract documents, without tearing or gouging underlying surface to remain and without contaminating milled pavement with underlying base course material.

Equip machine with cutting drum capable of producing a uniform surface finish. Enclose cutting drum in shroud to prevent discharge of loosened material into adjacent work areas. As standard equipment, provide dust suppression system, storage tanks with adequate water, and high-pressure spray bar with spray nozzles. Provide machine capable of cutting crown and depth by tilting drum axis and equipped with guidance system that controls transverse slope and longitudinal profile, matches adjacent pavements, and controls depth of cut.

Where cold planing is required to improve existing pavement profile for subsequent resurfacing, set guidance system grade sensor on string line or mobile reference. If mobile reference is used, provide 30-foot-minimum length of mobile reference to provide average elevation variations.

(B) Planed Surface and Removed Material. Cold plane surface to remove pavement and to eliminate high spots and surface irregularities for roadway resurfacing. Remove thickness of existing pavement to depth indicated in the contract documents.

Adjust machine blades to avoid damaging existing items that are to remain, such as underlying pavement structure, monuments, manholes, and pipes. Remove and replace or reconstruct items damaged by planing operations.

For roadways open to traffic, cold plane each day across full width of traffic lane to avoid longitudinal pavement drop-off between passes. At end of each day's production, construct tapered transitions along longitudinal and transverse pavement drop-offs. Use maximum slopes of 6:1 for longitudinal and 48:1 for transverse tapered transitions. Limit drop-off depths to maximum of 3 inches. Remove transition material before resurfacing.

Provide for drainage of cold-planed surface and adjacent pavement. Perform this operation on same day as cold planing.

Finish surface shall be suitable for maintaining traffic. Except at crown areas, limit surface deviations to maximum of 3/8 inches, measured along 10-foot straight edge laid longitudinally and transversely.

Clean and sweep surface of planed pavement in accordance with Section 310 - Brooming Off before opening cold-planed area to public traffic. Dispose of cold-planed and removed transition materials in accordance with Subsection 201.03(F) - Removal and Disposal of Material.

Minimize dust escaping from cold planing operation and contain or remove runoff water used for dust control in accordance with Section 620 - Dust Control.

Cold plane surface no more than three calendar days prior to placement of resurfacing material. Do not expose cold-planed surface to public traffic for more than three calendar days.

415.04 Measurement. Cold planing will be paid on a lump sum basis. Measurement for payment will not apply.

415.05 Payment. The Engineer will pay for the accepted cold planing on a contract lump sum basis. Payment will be full compensation for the work prescribed in this section and the contract documents.

The Engineer will pay for the following pay item when included in the proposal schedule:

Pay Item	**Pay Unit**
Cold Planing	Lump Sum

END OF SECTION 415