

SECTION 606 – PAVEMENT CORRUGATIONS

606.01 Description

This work shall consist of placing corrugations in the pavement in accordance with 105.03.

Corrugations shall not be constructed within the limits of reinforced concrete bridge approaches or on bridge decks.

- 10 The operation shall be coordinated such that milled materials do not encroach on pavement lanes carrying traffic and all milled materials are disposed of in accordance with 104.07. When corrugations are installed, milled materials shall be swept and vacuumed following the milling operation.

The corrugations shall be constructed by cutting smooth strips in existing or newly constructed pavement. The operation shall be conducted by means of a cutting machine that provides a series of smooth cuts without tearing or snagging. The equipment shall include guides to maintain uniformity and consistency in the alignment of the strips.

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Longitudinal rumble stripes are the combination of either the center line pavement marking placed in the center line corrugation or the edge line pavement marking placed in the edge line corrugation. They shall be installed as shown on the plans and as specified herein.

Longitudinal rumble strips are corrugations placed in the shoulder near the travel lane. They shall be installed as shown on the plans and as specified herein.

- 30 When corrugations are installed, control points are required as a guide for milling corrugations and shall be spotted with paint for the full length of the road to be milled. Control points along tangent sections shall be spaced at a maximum interval of 100 ft. Control points along curve sections shall be spaced to ensure the accurate location of the milled corrugations. The location of control points shall be as approved prior to the milling operations.

If snowplowable raised pavement markers exist where center line corrugations are being placed into the existing surface, the prismatic reflectors in these markers shall be temporarily covered and corrugations gapped a maximum of 5 ft and not within 6 in. of the markers.

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Milled HMA corrugations shall be the type designated in the contract documents, Conventional or Sinusoidal. Milled PCCP corrugations shall be Conventional.

606.02 Materials

Materials shall be in accordance with the following:

Liquid Asphalt Sealant	902.01
Pavement Markings	808

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CONSTRUCTION REQUIREMENTS**606.03 General Requirements**

In the presence of D-1 pavement joints or castings which conflict with the location of the corrugations, the corrugations shall be gapped a maximum of 5 ft and not within 6 in. of the joint or casting.

Corrugations installed on HMA shall be sealed using liquid asphalt sealant in accordance with 401.15.

- 60 Corrugations shall not be installed on PCCP until the PCCP has cured for a minimum of 14 days. The milling operations for installing corrugations on PCCP shall not exceed 12 mph.

(a) Installation Tolerances

Lateral deviation of milled corrugations shall not exceed 1 in. in 100 ft. The alignment of all pavement markings placed within rumble stripes shall be $\pm 1/2$ in. of its specified location.

(b) Maintenance of Traffic

- 70 The rumble stripe traffic control procedures shall be submitted to the Engineer and shall be in accordance with 808.08. Vehicles used in performing the milling, sweeping, vacuuming, or sealing operations shall have a rear escort vehicle that follows at a distance of 100 to 500 ft.

606.04 Method of Measurement

HMA and PCC pavement corrugations will be measured by the linear foot, measured parallel to the center line of the roadway. Gaps longer than 20 ft will not be included in the measurement for milled corrugations.

80 606.05 Basis of Payment

HMA and PCC pavement corrugations will be paid for at the contract unit price per linear foot, for the type specified.

Payment will be made under:

	Pay Item	Pay Unit Symbol
	Milled HMA Corrugations, _____ type	LFT
90	Milled PCCP Corrugations, Conventional	LFT

The cost of temporarily covering existing prismatic reflectors in rumble strip retrofit sections shall be included in the cost of the pay items.

Milling, sweeping, vacuum cleaning, operation protection and maintenance of traffic associated with these pay items, and all necessary incidentals shall be included in the cost of the pay items.

100 Where corrugations are placed in an existing HMA surface, liquid asphalt sealant shall be included in the cost of the pay items.

SECTION 607 – PAVED SIDE DITCH OR CONCRETE GUTTER

607.01 Description

This work shall consist of placing a portland cement concrete lining, gutter, or reinforced concrete gutter turnout for side ditches in accordance with 105.03.

MATERIALS

607.02 Materials

10 Materials shall be in accordance with the following:

Concrete, Class A	702
Reinforcing Bars.....	910.01

CONSTRUCTION REQUIREMENTS

607.03 General Requirements

20 The excavation shall be to the required depth and shape of the bottom of the type and size of the side ditch being constructed, the details of which are shown on the plans. All soft, yielding, or unsuitable materials encountered at the required excavation elevation shall be removed and replaced with approved materials which shall be compacted and finished to a firm, smooth surface.

The applicable requirements of 605.04(b) shall apply to forms.

Placing, finishing, and curing shall be in accordance with 605.04 except the curing period shall be no less than 72 h. The finished surface need not be brushed.

30 Reinforcement will be required for all paved side ditch, cut-off-walls, and lugs as shown on the plans.

Paved side ditch transitions will be required at intersections with earth ditches and pipe culverts.