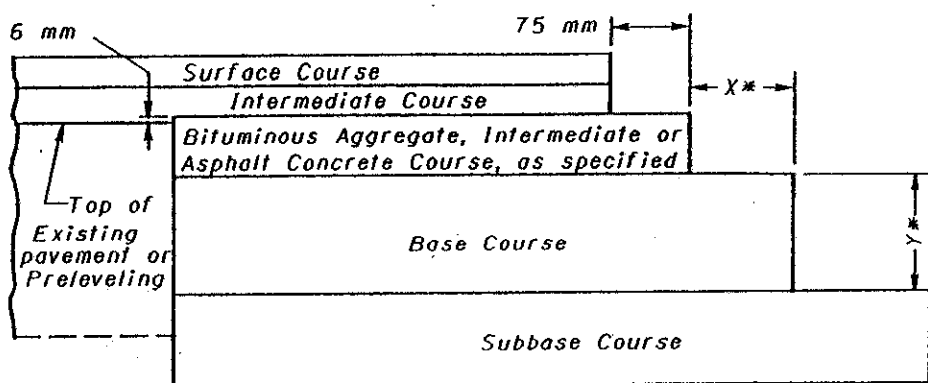


PLAN

**MERGING EDGE OF PAVEMENT WIDENING WITH EDGE OF EXISTING PAVEMENT**

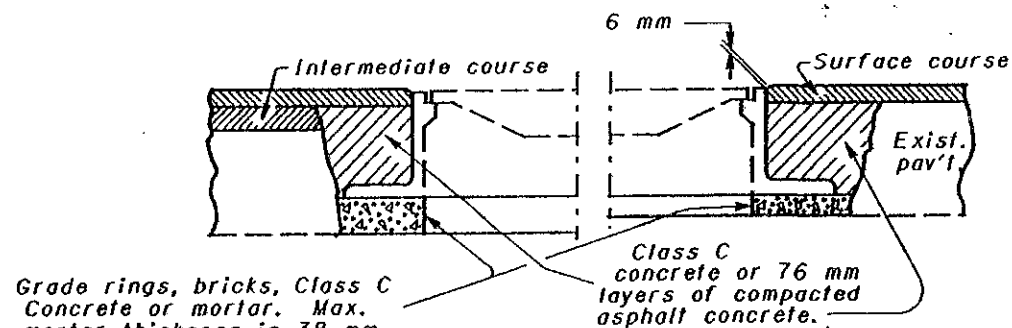
Bituminous Aggregate, Intermediate or Asphalt Concrete course, as specified



The Bituminous Aggregate in the upper part of the base widening shall finish approximately 6 mm above the edge of the existing pavement where no preleveling is used. Where a preleveling (using intermediate course material) is specified it shall be placed prior to excavation of the widening trench and the upper course of the base widening shall finish approximately 6 mm above the preleveling.

\*The extended width (X) of a base or subbase course shall be equal to the depth (Y) of that particular course, unless otherwise specified in the plans.

**SECTION A-A  
COURSE DETAIL FOR WIDENING**

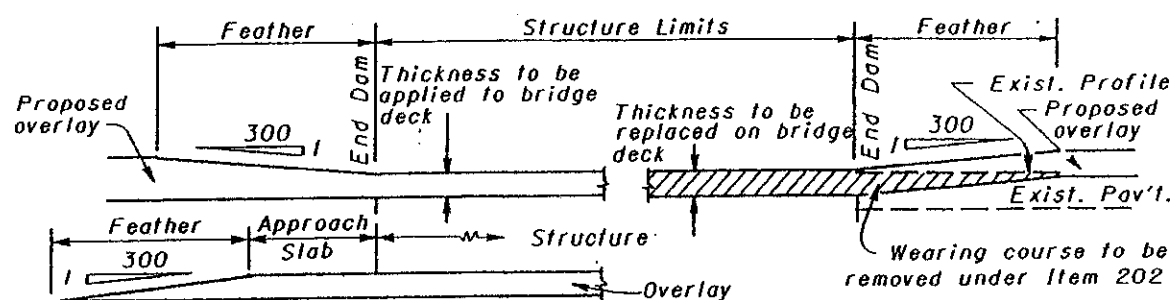


**USING CONCRETE OR MORTAR**

Grade rings, bricks, Class C Concrete or mortar. Max. mortar thickness is 38 mm.

Metal adjusting rings shall: (a) attach securely to the existing frame by welding or mechanical devices; (b) consist either of cast metal having an integral rim and seal, or be fabricated metal with a sturdy connection between the seat and rim; and (c) provide an even seat for the manhole cover. In addition, the adjusting ring type shall be a design acceptable to the local governmental agency responsible for street and sewer maintenance. Any installation unacceptable to the Engineer shall be replaced by the Contractor at his expense.

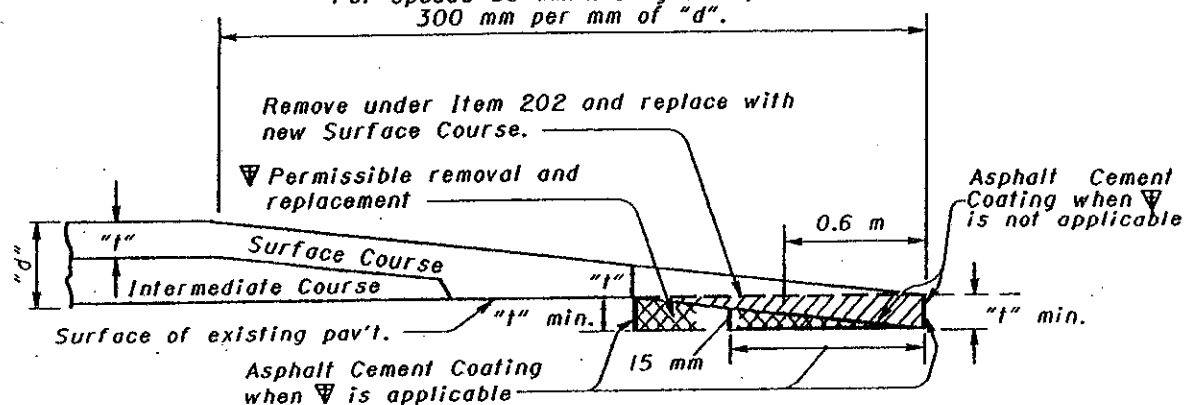
**MANHOLES ADJUSTED TO GRADE**



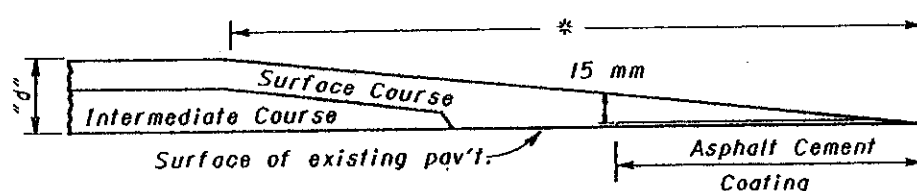
Details assume non-settled approach slabs. Smoothing of the profile for settlement is required per plan grades or as directed by the Engineer.

**FEATHERING AT STRUCTURES**

\* Min length - 120 mm per mm of "d".  
For speeds 80 km/h or greater, use 300 mm per mm of "d".



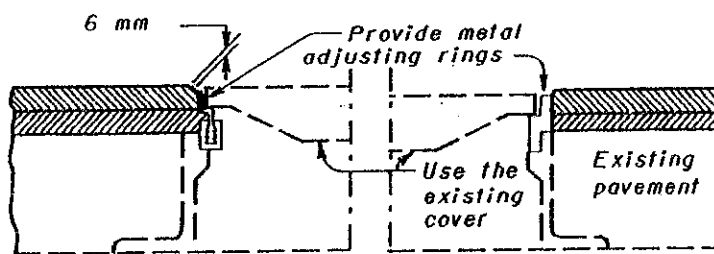
**BUTT JOINT TYPE**



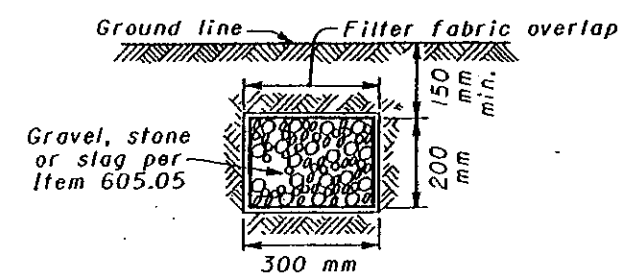
**TAPER EDGE TYPE**

NOTE: Either butt or taper type may be used unless type is specified by the plan.

**PLACING FEATHERED AREAS**

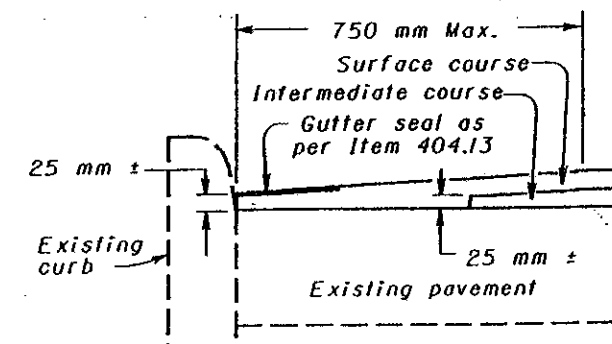


**USING METAL ADJUSTING RINGS**



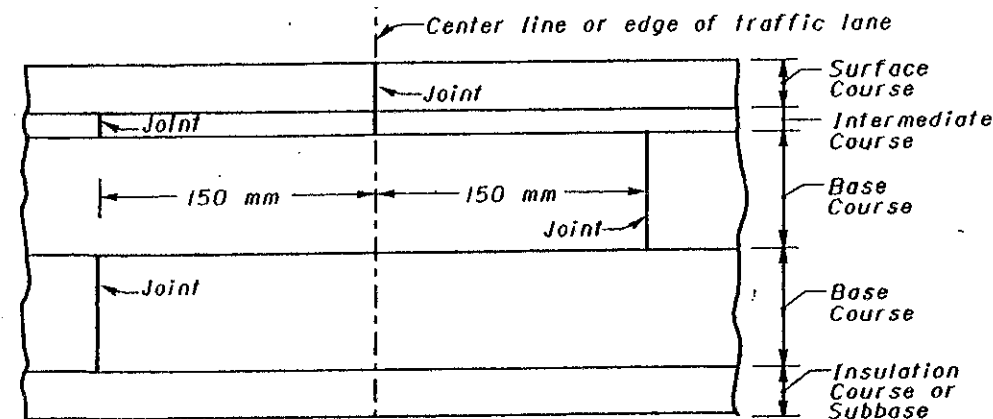
Aggregate drains to be placed where and as directed by Engineer. Provide filter fabric when specified as a separate pay item.

**AGGREGATE DRAIN**



Special care shall be taken during construction to obtain maximum compaction of bituminous concrete in gutters.

**GUTTER FINISH**



**LAPPING LONGITUDINAL JOINTS**

BUREAU OF LOCATION AND DESIGN  
OHIO DEPARTMENT OF TRANSPORTATION

**RESURFACING**

DATE  
10-28-94

STANDARD CONSTRUCTION DRAWING  
**BP-3.1M**

APPROVED W. K. Hulman  
ENGR., L & D

