

VIRGINIA DEPARTMENT OF TRANSPORTATION

LOCATION AND DESIGN DIVISION

INSTRUCTIONAL AND INFORMATIONAL MEMORANDUM

GENERAL SUBJECT: DEMOLITION OF EXISTING PAVEMENT AND OBSCURING ROADWAY	NUMBER: IIM-LD-47.10
SPECIFIC SUBJECT:	DATE: DECEMBER 1, 2005
	SUPERSEDES: IIM-LD-47.9
DIVISION ADMINISTRATOR APPROVAL: Mohammad Mirshahi, P.E. State L&D Engineer Approved: December 1, 2005	

Changes are shaded.

CURRENT REVISION

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- Updated for current Division Administrator Approval.
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EFFECTIVE DATE

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- This memorandum will be effective upon receipt.
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POLICY

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- Section 508 establishes pay items for "Demolition of Pavement" for any cement stabilized, hydraulic cement concrete or asphalt concrete pavement and shoulder structure courses or combinations thereof (based on the width of the widest course – base, subbase or subgrade), and "Obscuring Roadway" for reclamation of roadways outside of the limits of construction. In addition, removal of all pavement and shoulder structures other than cement stabilized, hydraulic cement concrete and asphalt concrete will be measured and paid for as regular excavation in accordance with Section 303 of the Specifications or as lump sum grading on Minimum Plan and No Plan projects.

PLAN DETAILS

Demolition of Pavement

- “Demolition of Pavement” is defined as removal of existing pavement structures.
- The designer will gather the existing pavement data needed for demolition of pavement. This information will be shown on the summaries or typical sections and denoted on each existing roadway using the symbol for demolition of pavement (hatching). The existing pavement data will consist of the following information:
 - Type of existing pavement structures for all areas to be demolished (i.e cement stabilized, hydraulic cement concrete, asphalt concrete pavement and shoulder structure courses or combinations thereof).
 - Limits, width, including 0.3 m (1 ft.) extension of pavement structures, if applicable, and depth (depth of pavement structures to include cement stabilized subgrade if present).
- If existing pavement data is unknown and cannot be determined from the “as built” plans, the designer should contact the materials Division and request that the data be included as part of the normal soils report.

Plan Note

- The following note is to be placed on plan sheets containing demolition of pavement:

Hatched areas denote areas of demolition of pavement.

Grading Summary

Earthwork quantities are to be adjusted in the grading summary to reflect the removal of the volume of cement stabilized, hydraulic cement concrete or asphalt concrete pavement and shoulder structure courses (based on the width of the widest course) where applicable. If the depth of existing pavement is unknown and cannot be obtained, use 0.3 m (1 foot) to figure this quantity. If the width of the cement stabilized subbase is unknown, add an additional 0.3 m (1 foot) to each side of the existing pavement.

Obscuring Roadway

- “Obscuring Roadway” is defined as restoring areas, which are no longer needed for highway use.
- In order to allow for obscuring shoulders, ditches and slopes, the quantity for Obscuring Roadway is to be estimated at twice the area of pavement located outside the limits of construction. The areas covered under “Obscuring Roadway” are not to be designated by hatching.

PAY ITEM

- The following definitions should be used when establishing pay items for Demolition of Pavement (a special Provision Copied Note is available from the Construction division).
 - Demolition of hydraulic cement concrete pavement will be measured and paid for as Demolition of Pavement (Rigid).
 - Demolition of asphalt concrete pavement will be measured and paid for as Demolition of Pavement (Flexible).
 - Demolition of a combination of hydraulic cement concrete pavement and asphalt concrete pavement will be measured and paid for as Demolition of Pavement.
- The following pay items should be used for all applicable projects.

Pay Item	Pay Unit	Item Code
Demolition of Pavement	m ² (S.Y.)	24410
Demolition of Pavement (Rigid)	m ² (S.Y.)	24420
Demolition of Pavement (Flexible)	m ² (S.Y.)	24430
Obscuring Roadway	Unit *	24400

* One unit is equal to 100 m² (1000 ft²).

- The following criteria are to be used in establishing the pay items for Demolition of Pavement and Obscuring Roadway.

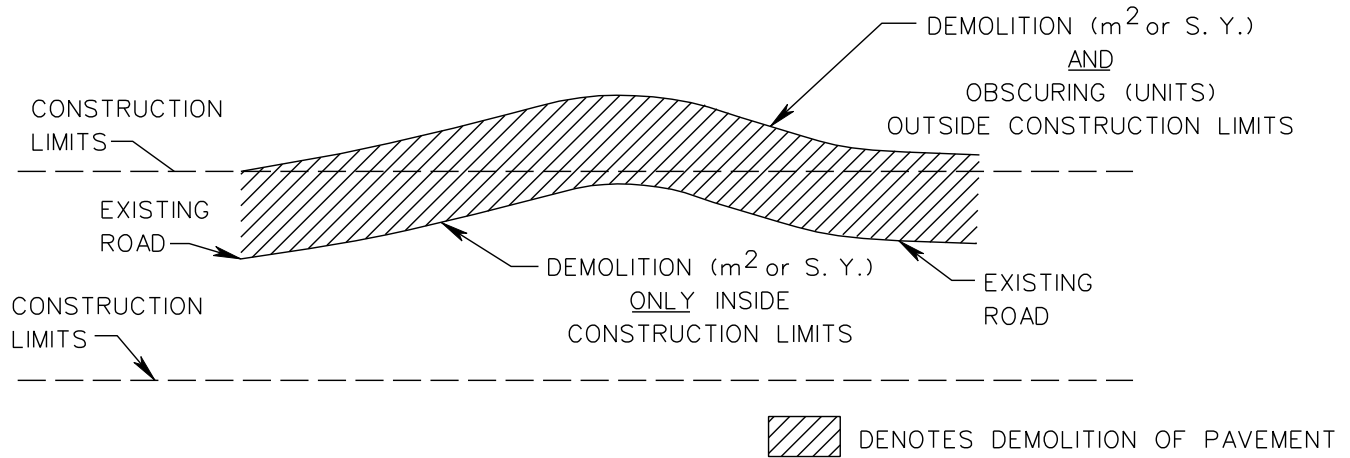
INSIDE OF NEW CONSTRUCTION LIMITS		
TYPE OF PAVEMENT STRUCTURE	DEMOLITION OF PAVEMENT (m ² or S.Y.)	OBSCURING ROADWAY (UNITS)
CEMENT STABILIZED HYDRAULIC CEMENT AND ASPHALT CONCRETE PAVEMENT AND SHOULDER STRUCTURE COURSES OR COMBINATIONS THEREOF	PAY ITEM	NO PAY ITEM
CEMENT STABILIZED, HYDRAULIC CEMENT AND ASPHALT CONCRETE PAVEMENT AND SHOULDER STRUCTURE COURSES LOCATED BEYOND EXISTING PAVEMENT STRUCTURE	PAY ITEM	NO PAY ITEM
SURFACE TREATED AND UNTREATED PAVEMENT AND SHOULDERS	NO PAY ITEM *	NO PAY ITEM

OUTSIDE OF NEW CONSTRUCTION LIMITS		
TYPE OF PAVEMENT STRUCTURE	DEMOLITION OF PAVEMENT (m ² or S.Y.)	OBSCURING ROADWAY (UNITS)
CEMENT STABILIZED, HYDRAULIC CEMENT AND ASPHALT CONCRETE PAVEMENT AND SHOULDER STRUCTURE COURSES OR COMBINATIONS THEREOF	PAY ITEM	PAY ITEM
SURFACE TREATED AND UNTREATED PAVEMENT AND SHOULDERS	NO PAY ITEM *	PAY ITEM

- The demolition of cement stabilized, hydraulic cement and asphalt concrete pavement and shoulder structure courses located beyond the existing pavement structure will also be measured for payment.
- Removal of all pavement and shoulder structures other than cement stabilized, hydraulic cement concrete and asphalt concrete pavement structure courses will be measured as regular excavation in accordance with Section 303 of the Specifications or as lump sum grading on Minimum Plan and No Plan projects.

EXAMPLES

Cement Stabilized/Hydraulic Cement and Asphalt Concrete Pavement



Surface Treated/Untreated Pavement

