

## REMOVAL OF EXISTING PIPES

Pipes to be removed, abandoned or cleaned out are to be indicated on the plans for bidding purposes and labeled "To Be Removed", "To Be Abandoned", or "To Be Cleaned Out". Any large amount of pipe to be removed, such as an existing storm sewer, should be set up as a separate bid item and summarized in a separate column in the incidental summary. Incidental pipes to be removed should be included in other appropriate pay items such as Regular Excavation (to be specified in the General Notes) or Clearing and Grubbing. (See [IIM-LD-110](#))

## REMOVAL OF BRIDGE APPROACHES

In the process of building a **proposed**\* bridged waterway and approaches, it often becomes necessary to remove all or a portion of the existing bridge approach roadway fill throughout the floodplain area. This is necessary for two reasons. First, leaving portions of the **existing** bridge approaches in place may hinder the hydraulic capacity and efficiency of the new facility. In most instances the hydraulic performance of the new facility was predicated on the complete removal of the **existing**. Second, many of the State and/or Federal Environmental review agencies require that the **existing** bridge and roadway approaches be removed in their entirety and land graded back to its natural contour as a contingency for the issuance of certain environmental permits. The hydraulic engineer responsible for the performance of the hydrologic and hydraulic analysis for the proposed bridged waterway will notify the road designer as to whether or not it will be necessary to remove all or portions of the existing bridge and approaches with the standard Form [LD-293B](#) memorandum. If it is found necessary to do so, the extent of such removal will be indicated in that memorandum. The details concerning the removal of the **existing** bridge approach fills are more fully described in Chapter 12 of the VDOT [Drainage Manual](#).

## BERM DITCH LOCATIONS

In all cases, except where severe right-of-way limitations exist, a minimum of 5 feet (1.5 m) and preferably more is to be provided between the end of the cut slope round-off and the front slope of a berm ditch. Additional right-of-way is to be obtained for construction and maintenance of the berm ditch. (See St'd. PG-7)

## EXTENSION OF EXISTING PIPES

Existing pipes are to be extended with the same size and type of pipe that is in place. If end sections are required, then only Standard ES-1 or Standard ES-2 of the same size pipe is to be used.

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\* Rev. 7/06