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DEPARTMENT OF TRANSPORTATION AND DEVELOPMENT  
INTRADEPARTMENTAL CORRESPONDENCE

HYDRAULICS OFFICE  
(225)379-1306

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**MEMORANDUM**

TO: ROAD DESIGN SECTION  
 BRIDGE DESIGN SECTION  
 CONSTRUCTION SECTION  
 CONTRACTS & SPECIFICATIONS SECTION  
 DISTRICT DESIGN OFFICES

FROM: Jack Manno, P. E.  
 Hydraulics Engineer Administrator

DATE: June 1, 2005

SUBJECT: **DESIGN POLICY ON EROSION CONTROL**

With the issuance of Phase II (March 2003) and recent renewal of Phase I (October 2004) of Louisiana Pollutant Discharge Elimination System (LPDES) Storm Water General Permits for Construction Activities, the Department is paying closer attention to how it addresses the control of storm water runoff from its construction sites. To facilitate this effort, DOTD has in part, developed policies for designers such that controlling erosion and sediment on the job site becomes part of the overall design process. The development of guidelines, or plan review procedures, to address storm water runoff and consequential erosion problems is required as part of our state's overall Storm Water Management Program. Consultants and in-house designers alike must now prepare project specific plans for controlling erosion and sediment loss on state projects for which these permits pertain.

The designer should understand that the erosion and sediment control plan must be viewed as only a "first appraisal" to what must be implemented. Drawings are to be designed, reviewed, and implemented with the intent that they will be modified as construction activities progress. Including controls on the plans and checking them in the field will provide us with better estimates of quantities for pay items. This in turn, will assist the contractor in preparing an erosion control plan to submit to the Department. During the plan-in-hand visit, designers should look for the locations where, and the nature of, any existing or potential erosion problems, locations where temporary controls could or could not be placed, and locations where permanent, post-construction controls may need to be placed. A final estimate of erosion control items should be made after the plan-in-hand visit.

RECOMMENDED FOR APPROVAL \_\_\_\_\_ DATE \_\_\_\_\_

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APPROVED \_\_\_\_\_ DATE \_\_\_\_\_

**SUBJECT: DESIGN POLICY ON EROSION CONTROL**

Attached is a document entitled "Plan Checking and Design Procedures for Erosion and Sediment Control on LA DOTD N/LPDES Permitted Projects". These procedures were developed based upon a conglomeration of current DOTD policies, specifications, and the AASHTO Highway Drainage Guidelines Manual, Volume III – AASHTO Guidelines for Erosion and Sediment Control in Highway Construction.

Some changes were made to DOTD policies based upon current permitting requirements. The most noteworthy changes are:

- ✓ Most temporary erosion controls will now be included on the plan or construction sequencing sheets.
- ✓ The installation and removal of erosion controls are now included in the phasing notes on the construction sequencing sheets.
- ✓ A new symbol legend for temporary erosion controls has been developed.
- ✓ The locations of erosion controls are more clearly specified. This should aid in better quantity estimates and hopefully, fewer plan changes.

Also attached are four examples for incorporating erosion and sediment controls into the plans, as well as a symbology sheet. The first example is a portion of a set of plans showing specific locations, as well as quantities for erosion controls. This project was commended by the FHWA for its effort in identifying the need for and handling of erosion control items.

The attached guidelines have been approved by the Chief Engineer (see attached memo dated 3/10/05). They are to be included as an addendum to the LA DOTD Hydraulics Manual. This letter should serve as a notice to your employees and our consultants. Further information can be obtained by contacting Julie Taylor, Hydraulic Design Engineer at (225) 379-1931.

- c: N. Kent Israel, Road Design Administrator
- c: Hossein Ghara, Bridge Design Administrator
- c: Rick Holm, Chief of Construction Division
- c: Neal Thibodeaux, Contracts & Specifications Administrator
- c: Ronnie Robinson, Jesse McClendon, Nicholas Verrett, Jr., Patrick Landry, Paul Colquette, Don Maddox, Teddy Babin, Michael Stack, District Design, Water Resources, and Development Engineers
- c: Ken Mason, District Design and Traffic Engineer
- c: Roy Dupuy, Chief Landscape Engineer
- c: Ed Bodker, Environmental Impact Manager