



Montana Department of Transportation
PO Box 201001
Helena, MT 59620-1001

Memorandum

To: Distribution

From: Mark Wissinger, P.E.
Construction Engineer

Date: December 28, 2005

Subject: Drilled Shaft Submittals

The purpose of this Construction Memo is to guide Project Managers concerning contractor submittals for drilled shaft construction. This memo rescinds and replaces applicable sections within the Construction Manual.

The Drilled Shaft Special Provision requires that the contractor submit to the EPM an outline of the methods and procedures that will be used to construct the shaft. The EPM should review the submittal to ensure that it does not conflict with the contract, paying special attention to the Drilled Shaft Special Provision.

In particular:

CSL tubes should be placed so that they extend all the way to the bottom of the shaft. Placing CSL tubes above the bottom of the drilled shaft excavation prevents CSL testing at the most important area of the shaft.

Temporary casing should be placed all the way to the bottom of the drilled shaft. Most drilled shaft designs rely on significant end bearing in addition to side friction. The risk of caving or sloughing at the toe can only be reduced if the temporary casing is placed to the bottom of the excavation.

The temporary casing should be withdrawn during the pour as outlined in the Special Provision. Waiting to remove the casing until concrete placement is completed can result in temporary casings becoming stuck in the drilled shaft excavation, preventing their withdrawal.

Contractor requests to deviate from the specifications require prior written approval by MDT and may result in a Change Order. Do not permit deviations from the contract requirements. Deviation from the contract is cause for a stop work order.

Contractor requests to deviate from the approved submittal require that the new procedure be resubmitted and approved. Deviation from an approved procedure is also cause for a stop work order.

CSB_Drilled_Shfts_Submittals

The EPM should forward copies of the Contractor's Drilled Shaft Submittal to the following functional units for review:

Geotechnical Section
Bridge Bureau
CES Bureau Bridge Reviewer

Do not allow construction of the drilled shaft to begin until the submittal has been reviewed and determined to be in accordance with the specifications.

copies: FHWA
District Construction Engineers
District Construction Operations Engineers
District Administrators
Engineering Project Managers
Construction Engineering Services Bureau
File