



# INDIANA DEPARTMENT OF TRANSPORTATION

*Driving Indiana's Economic Growth*

## Design Memorandum No. 10-11 Technical Advisory

March 26, 2010

**TO:** All Design, Operations, and District Personnel, and Consultants

**FROM:** /s/ Anthony L. Uremovich  
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**SUBJECT** Test Piles

**REVISES:** *Indiana Design Manual Section 17-5.03, item 2*

**EFFECTIVE:** August 4, 2010, Letting

The geotechnical report will specify the test method for determining the nominal driving resistance of a driven pile as dynamic formula, dynamic-pile load, or static load. Recurring Special Provision 701-B-132, attached herewith, has been revised. If the number of hours required before restriking can occur is not provided in the geotechnical report, 0 should be entered in the special provision's appropriate blank.

The appropriate test-piling-related pay items are as follows.

- A. Dynamic-Formula Method, INDOT *Standard Specifications* Section 701.05(a).
1. Test Pile, Indicator, Production. One such pile per support is required.
  2. Test Pile, Indicator, Restrike. A quantity of one each is required for each test pile.

If the geotechnical report does not specify a number of hours before restrike can occur, the pay items for indicator test pile and indicator test pile restrike are not required.

B. Dynamic Pile-Load Test, INDOT *Standard Specifications* Section 701.05(b).

1. Test Pile, Dynamic, *Production*. The required number and locations of such piles per support or structure will be shown in the geotechnical report.
2. Test Pile, Dynamic, *Restrike*. A quantity of one each is required for each test pile.
3. Dynamic Pile Load Test. A quantity of one each is required for each test pile.

C. Static-Load Test, INDOT *Standard Specifications* Section 701.05(c).

1. Test Pile, Static Load, pile size, *Non-Production*. The required number of such piles per support or structure will be shown in the geotechnical report.
2. Static Pile Load Test. A quantity of one each is required for the test pile.

If this test method is specified, the static-load test-pile location area should be shown on the plans. The geotechnical report will also specify the dynamic-pile-load test for the same piles. The pay items for test pile, dynamic restrike, and dynamic pile load test will also be required.

If the geotechnical report specifies epoxy-coated or reinforced-concrete-encased piling, the portion of the production test pile that is to be so treated should be quantified as an epoxy-coated or reinforced-concrete-encased pile. The remainder of the pile length should be quantified as a test pile, as described above.

Quantities should not be included for restock piling. This is for construction-oversight personnel use at the conclusion of pile-driving operations.

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701-B-132 PILE DRIVING

*(Revised 03-18-10)*

The method for driving the piles will be by the formula specified in\_\_\_\_\_.

The pile and driving equipment form to be submitted by the Contractor is available on the Department's website.

The Contractor shall allow a minimum of \_\_\_\_\_ hours prior to restriking the pile. If the minimum number of hours shown is 0, restrike is not required.

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