



INDIANA DEPARTMENT OF TRANSPORTATION
100 North Senate Avenue
Room N758
Indianapolis, Indiana 46204-2216
(317) 232-5533 FAX: (317) 232-0238
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Driving Indiana's Economic Growth

MITCHELL E. DANIELS, JR., Governor
THOMAS O. SHARP, Commissioner

Writer's Direct Line
317-232-5456

May 11, 2006

MEMORANDUM
06-12

TO: District Directors
District Construction Engineers
Toll Road Operations Engineer
District Materials & Tests Engineers
District Highway Management Directors
District Area Engineers
Project Engineers/Supervisors

FROM: Mark A. Miller, Director *Mark Miller*
Division of Construction Management

Subject: Pay Items for Ditch Grading, Excavation and Linear Grading

The FHWA has brought to our attention their concerns about the use of a lump sum item for ditch grading that has been included in several contracts, mostly RS contracts. The item being used is "EXCAVATION, COMMON, FOR DITCH GRADING" with a pay unit of "LS" and item code 203-02376. The Division of Construction Management agrees with the FHWA's concerns, so the item is being eliminated from the master items list and should not appear in any contracts beginning with the May 2006 lettings. If this item is found during the time set review by the District Construction Area Engineer, it should be brought to the attention of the designer and deleted from the contract. In general, one or more of the following items should be included in the contract instead:

203-02000	EXCAVATION, COMMON	CYS
203-02070	BORROW	CYS
203-02080	LINEAR GRADING	MILE
203-90014	LINEAR GRADING	STA

An item for linear grading should be included only for work consisting of:

- earth wedging at the outside edge of a shoulder once the pavement has been resurfaced, widened or replaced
- earth wedging behind guardrail to obtain the required earth backup for guardrail posts
- median earth fill required for paving and placement of concrete median barrier

For contracts that include linear grading, plans should clearly indicate the required location and scope of the work intended to avoid confusion by bidders prior to letting and by INDOT and contractor personnel during construction.

The Recurring Special Provision for Linear Grading, 203-R-260 (attached), must be included in the Contract Information Book if an item for linear grading is included in the Contract.

The item for linear grading is not intended to pay for reshaping of ditchlines, benching, slope reconstruction, etc. If a contract includes earthwork beyond the scope of work for linear grading, the designer should quantify the work and include appropriate Standard Specification items for excavation (by type), borrow or embankment.

The correct choice of items depends on the scope of the work to be performed by the contract. Design personnel should refer to the Indiana Design Manual, Design Memorandum and Technical Advisories for guidance.

Construction personnel should refer to the Standard Specifications, Special Provisions and Construction Memorandum for the correct application of the contract items.

MAM:rlh

attachment

LINEAR GRADING

The Standard Specifications are revised as follows:

SECTION 203, AFTER LINE 820, INSERT AS FOLLOWS:

203.23.1 Linear Grading

Linear grading shall consist of:

- a. *earth wedging at the outside edge of a shoulder once the pavement has been resurfaced, widened, or replaced.*
- b. *earth wedging behind guardrail to obtain the required earth backup for the posts.*
- c. *median earth filling required for paving and placement of concrete median barrier.*

These types of earthwork shall not require benching.

SECTION 203, BEGIN LINE 945, DELETE AND INSERT AS FOLLOWS:

(c) Measurement on a Linear Basis

*If ~~When either or both the plans and~~ contract provides for a pay item for linear grading, the measurement for payment will be based on the length of roadway actually constructed to the lines, grades, and typical cross sections specified. All classes of excavation involved, ~~including required borrow,~~ will not be measured for payment, but *Such classes of excavation will be considered as included in the pay item for linear grading per station or mile (kilometer) as specified.**

SECTION 203, LINE 1040, INSERT AS FOLLOWS:

Items. Linear grading will be paid for at the contract unit price per station or mile (kilometer), as shown in the Schedule of Pay Items.

SECTION 203, LINE 1147, INSERT AS FOLLOWS:

Linear Grading	STA, MILE (km)
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