



STATE OF NORTH CAROLINA
DEPARTMENT OF TRANSPORTATION

MICHAEL F. EASLEY
GOVERNOR

LYNDO TIPPETT
SECRETARY

June 10, 2003

MEMORANDUM TO: Jay Bennett, PE
Steve DeWitt, PE
Division Engineers

FROM: Victor Barbour, PE *Victor Barbour*
State Design Services Engineer

SUBJECT: New Lump Sum Grading Guidelines

The guidelines for "Lump Sum Grading" have been revised. This revision is effective with the October 21, 2003 letting.

A copy of the new guidelines as they will appear in the Roadway Design Manual is attached.

If you have any questions or need additional information, please call Cynthia Perry, PE at (919) 250-4128.

JVB/cbp

Attachment

cc: Debbie Barbour, PE
Randy Garris, PE
Cynthia Perry, PE
Ron Davenport, PE
Andy Gay, PE
Scott Blevins, PE
Azam Azimi, PE

ROADWAY DESIGN UNIT	
RECEIVED	FILE
JUN 2003	
<input checked="" type="checkbox"/> MCMILLAN	<input checked="" type="checkbox"/> SYKES
<input checked="" type="checkbox"/> BREW	<input checked="" type="checkbox"/> ALLEN
<input checked="" type="checkbox"/> FLOWERS	<input checked="" type="checkbox"/> GOODNIGHT
<input checked="" type="checkbox"/> HOUSER	<input checked="" type="checkbox"/> SPEER
<input checked="" type="checkbox"/> MOORE	<input checked="" type="checkbox"/> THOMAS
<input checked="" type="checkbox"/> MUMFORD	<input checked="" type="checkbox"/> WALLS
<input type="checkbox"/>	<input type="checkbox"/> POLLARD
PREPARE REPLY FOR _____ SIGNATURE	
FYI.	
REVIEW/DISCUSS WITH _____	

MAILING ADDRESS:
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LOCATION:
CENTURY CENTER COMPLEX
ENTRANCE B-2
1020 BIRCH RIDGE DRIVE
RALEIGH NC

LUMP SUM GRADING

11-6

The following guidelines will be used by the Project Engineer or private engineering firms to decide whether or not a project will be let on an individual item basis or lump sum grading basis.

Quantities will be prepared in the traditional manner. Once these quantities are known, the following procedures will be used to decide the basis of letting the project:

1. Estimate the quantities for the items and extend prices as follows:

ITEM	QUANTITY PER UNIT	UNIT PRICE	EXTENDED PRICE
CLEARING AND GRUBBING	_____ ACRES	\$ 10,000	\$ _____
UNCLASSIFIED EXCAVATION	_____ YD ³	6.00	_____
BORROW EXCAVATION	_____ YD ³	6.25	_____
SHOULDER BORROW	_____ YD ³	6.25	_____
FINE GRADING	_____ YD ²	2.50	_____
REMOVAL OF EXISTING ASPHALT PAVEMENT	_____ YD ²	2.50	_____
REMOVAL OF EXISTING CONCRETE PAVEMENT	_____ YD ²	10.00	_____
BREAKING OF EXISTING ASPHALT PAVEMENT	_____ YD ²	2.00	_____
BREAKING OF EXISTING CONCRETE PAVEMENT	_____ YD ²	5.00	_____
		TOTAL	\$ _____

2. If the summation of the item amounts is \$1,000,000.00 or less, then the grading may be let on a "lump sum" basis with concurrence of the Division Engineer. If the cost of any one of the items, excluding clearing and grubbing and fine grading, is 50% or more of the total cost calculated, then that item shall be included as an individual item with the other items being done on a "Lump Sum Grading" basis. A special

provision will be needed in this case and the pay item "Grading" should be indicated as a "sp" in the estimate. If the sum of the lump sum item amounts exceeds \$1,000,000.00 or is 25% or more of the total cost of the project, the project shall contain the individual items in accordance with the Standard Specifications. For projects that contain individual items, it will be necessary to calculate and show the pavement structure volume on the Summary of Earthwork.

3. Other considerations for lump sum grading may utilize a dollar limit. For example, 3R Projects with "Trenching & Widening" and minor grading should be considered when use of cross-sections for earthwork by the Resident Engineer is not practical. When applying lump sum grading to these special applications, approval by the Assistant State Roadway Design Engineer and Proposals and Contracts Section Engineer is required on a project-by-project basis.

Use of the Lump Sum Pay item should result in less construction engineering manpower for the applicable projects.

See Part II, Chapter 19, Section 19-5 for the "Lump Sum Grading Note".