

MODIFIED BY EI 83-014 EFFECTIVE  
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# ENGINEERING INSTRUCTION

NEW YORK STATE DEPARTMENT OF TRANSPORTATION

SUPERSEDED BY EI 91-012  
EFFECTIVE 1/30/92

SUBJECT: EARTHWORK SUMMARY SHEETS

Subject Code: 7.26-1-9.04

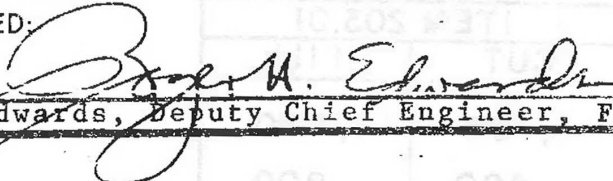
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APPROVED:



Supersedes:  
EI 76-35

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Effective with the MARCH 4, 1982 letting, EARTHWORK SUMMARY SHEETS (Sheets ES-1 and ES-2) will no longer be included in the contract plans. Instead, they will be made available to bidders for inspection and sale and shown as available on Form CONR 9g in the contract proposal. See revised form attached. On small projects involving simple earthwork, only Sheet ES-1 need be prepared and made available. Two "white prints" of Sheet ES-1 (and ES-2 where applicable) are to be included in the PS&E submission.

Examples of work-ups for information to be made available to bidders for various types of projects are attached. Note what should be described under "Explanation of Earthwork Design." Also note that estimation of rock, suitable earth and unsuitable material is necessary even on small projects.

The bottom of "F" in the examples is assumed to be at the original ground surface. However, if the design includes a granular construction lift, or the top of a swamp backfill is not at the original ground surface, the bottom payment line for "F" must be adjusted accordingly.

Computer programs can supply the following information to be used on the attached examples:

$C_r$ ,  $C_a$ ,  $C_e$ ,  $C_s$ ,  $F$ ,  $F_s$  ( $F_t$  if no benching is necessary).

In the contract plans for all projects, an earthwork table will be provided which will summarize earthwork item quantities by source, but which will not characterize excavation in terms of rock, suitable earth, or unsuitable materials. Examples follow:

Subject: EARTHWORK SUMMARY SHEETS

SUMMARY OF EARTHWORK		
SOURCE	ITEM 203.01	
	CUT	FILL
Mainline	1,100	1,400
Driveways	400	200
Borrow	400	

SUMMARY OF EARTHWORK		
SOURCE	ITEM 203.02	ITEM 203.03
Mainline	830,000	795,000
Channel Relocation	6,000	

Attachments

**SUPPLEMENTAL INFORMATION AVAILABLE TO BIDDERS**

The following information is available at the Office having jurisdiction for this project, as identified in the advertisement for bids, for inspection and review prior to the letting date. It is mutually understood that this data is independent information the state has assembled and the bidder shall assume the risk of its accuracy and that the information is not prepared or used as part of the contract plans and that Article 3 of the standard specifications will apply as to the site conditions. This information is not to be considered as a substitution or revision of that section of the standard specifications defining specifications and contract agreements.

By his signature on this proposal the bidder certifies that he has made himself aware of the availability, for his inspection and review prior to the letting date, of the information indicated below:

Available	Not Available	INFORMATION
		Utility Estimate Sheets with Names of Utility Officials
		Right of Way Plan
		Earthwork Cross Section Sheets
		Earthwork Sheets
		Earthwork Summary Sheet ES-1
		Earthwork Summary Sheet ES-2
		Drainage Estimate Sheets
		Sign Face Layouts
		Logs of Subsurface Exploration
		Tabulated Results of Probing
		Tabulated Depth to Bed Rock
		Logs Showing Laboratory Description of Soil Samples
		Laboratory Test Data from Soil Samples
		Rock Outcrop Maps
		Granular Materials Resources Survey Reports
		Terrain Reconnaissance Reports
		Subsurface Data Obtained from Sources Outside the Department
		Granular Material Sources Report
		Record Plans
		Special Reports or Other Information (Identify Below)