Edition Date: January 1, 2000 Revision Date: November 19, 2008

CHAPTER 6 LUMP SUM, SQUARE YARD & TRUCK MEASURED ITEMS REVIEW

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6.1 PURPOSE

To delineate the District Final Estimates Office (DFEODFEM) reviewing procedure for each item of work performed to ensure accuracy, completeness, and compliance with the Contract Documents.

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6.2 PROCEDURE

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6.2.1 ITEMS OF GENERAL CONSTRUCTION OPERATIONS

The order in which the specific items on a contract are reviewed depends on the projectand the preference of the individual doing the reviewing. These procedures will generally follow the order in which the items of pay are described in the Standard Specifications. The details for final checking items in the first section of this chapter may be arranged in three categories according to their unit of measure. Formatted: Suppress line numbers

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- (A) Some Lump Sum Items are: Mobilization, Maintenance of Traffic, and Detours.
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- (1) Does the proposal include a separate item of payment for these operations? If not, they are included for payment under other scheduled items of the overall contract where no separate payment will be made for them.
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- (2) If the final contract amount is different from the original contract amount, check the contract files for a <u>Work Order (WO) or Supplemental Agreement</u> (SA) or other authorization of lump sum adjustment.
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- (3) Material used in the construction of detours or maintenance of traffic lumpsum shall not also be measured or paid for under any pay item. (Article Section 9-2 of the Specifications)
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- (4) Were the dimensions (scope) used for bidding the contract revised, resultingin an increase or decrease in cost to the Contractor which would require an adjustment? (Article Section 9-3 of the Specifications)
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	(5)	and i	y that all materials designated to remain the property of the Departmentused by the Contractor during construction have been returned and d as directed by the Project Engineer (PE)Project EngineerAdministrator.	Formatted: Suppress line numbers
1	(6)		k that charges for items not returned (signs, bridges, pipe culverts, etc.) been reflected in the final estimate, when applicable.	Formatted: Suppress line numbers
(B)	Com		ured Items (volume or weight): Some examples of these pay items are• I Materials for Driveway Maintenance, Calcium Chloride for dust control, gging.	Formatted: Suppress line numbers
	(1)	Chec	k the authorization by the PE PA for the material used in construction.	Formatted: Suppress line numbers
1	(2)	Verify truck	y the manufacturer's certified capacity decal attached to each side of the•	Formatted: Suppress line numbers
	(3)		re that the truck measurement forms verify the quantity change due to-	Formatted: Suppress line numbers
		sideb	oard addition, (See Figure No. 6-1, and 6-1a).	Formatted: Font: Bold, Italic
	(4)	Chec	k the Tabulation Forms:	Formatted: Suppress line numbers
		(a)	Compare the truck number to the truck capacity.	Formatted: Suppress line numbers
1		(b)	Trucks with volume changes are assigned new numbers and properly-counted.	Formatted: Suppress line numbers
		(c)	Compare the Manual Summary in the Computation Book to ensure-that all required tickets are included in the summary.	Formatted: Suppress line numbers
		(d)	Computerized summary shall be checked for keypunch errors and- error messages in output, and that all output is included in <u>a folder the</u> Computation Book, along with all required tickets, <u>and referenced in</u> the Computation Book.	Formatted: Suppress line numbers
(C)	Squa	re yard	d or square meter items: an example of some Some square yard pay-	Formatted: Suppress line numbers
			rtificial Coverings and sare Artificial Coverings, Temporary Mulching, d-Performance Turf-and-Sedding.	Formatted: Strikethrough
	(1)	Chec	k plans and documents for authorized limits of construction.	Formatted: Suppress line numbers
Lump	Sum, Squa	re Yard & 1	Truck Measured Items Review 6-2	

(A)

Revision Date: November 19, 2008 Spopt Ccheck station to station calculation of length and width or verify field-Formatted: Suppress line numbers chained dimensions from final measurement field book, the Final Mesured Mmiscellaneous Fform (700-050-61) or latitude and departure sheet. (See Formatted: Font: Italic Figure No. 6-2). Plan quantity items should not be measured, only changes Formatted: Font: Not Bold are to be documented and measured. Formatted: Font: Italic Formatted: Font: Not Bold Spot Ccheck the mathematics of the area calculations and the transfer of the (3)Formatted: Font: Italic summary to the Computation Book. Formatted: Font: Bold Italic Formatted: Font: Bold. Italic Be sure additional temporary erosion control features are paid for as extra-(4) Formatted: Suppress line numbers work unforeseeable work in accordance per Section 104 of the Formatted: Suppress line numbers Specifications. Check for and prevent overlapping of these items with other items scheduled Formatted: Suppress line numbers for payment elsewhere in the contract. Formatted: Suppress line numbers 6.2.2 Clearing and Grubbing Construction Site Items of clearing and grubbing, removal of trees, stumps, buildings, structures, Formatted: Suppress line numbers appurtenances equipment, and flexible pavement for the preparation of the overall project site are covered in this section. Clearing and Grubbing (Lump Sum): Formatted: Suppress line numbers This item is usually checked after the surface, base, and stabilization have-(1) Formatted: Suppress line numbers been finalized. Check plans thoroughly for change in limits. (2)Formatted: Suppress line numbers Grade changes increasing and decreasing lateral limits of (a) Formatted: Suppress line numbers construction. Beginning or end of project changes from original contract. (b) Formatted: Suppress line numbers Lateral ditches or outfall structures that werethat waswere added or (c) Formatted: Suppress line numbers deleted. Check SA's for lump sum adjustment of original quantity. (3)Formatted: Suppress line numbers

A lump sum pay item may be adjusted without an an Work Order or

Supplemental Agreement SA only where the Original Plan Quantity (OPQ)

for a lump sum pay item is based solely on secondary units and is expressed

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in those secondary units in the plans, the adjusted lump sum dollar amount is equal to:

OPQ + change in OPQ x Original lump sum \$ amount.
OPQ

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Note: The original quantity as shown in the plans must be verified by the PE+ PA and corrected, if necessary, before any adjustment is made.

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(5) When it is apparent that items such as Maintenance of Traffic, er-Grading, etc., have been included in the lump sum price for clearing and grubbing, any adjustment in the final lump sum price shall be negotiated and documented by an Work Order or Supplemental AgreementSA.

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- (B) Clearing and Grubbing Borrow Areas (Per Acre/Hectare):
 - (1) For borrow pits and material pits, do not perform any clearing and grubbing to within three (3) feet inside the right-of-way line. (Article Section 110-2 of the Specifications)
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(2) If the Contractor has substituted pits, pay either the area actually cleared and grubbed or the area shown jen the plans for the corresponding borrow area, whichever is smaller.

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- (3) Haul routes shall not be included in area for payment.
- (4) Clearing and grubbing required only for the purpose of obtaining stabilizing material or sand clay will not be paid for separately.
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- (5) Alteration of plan quantities should comply with conditions per <u>Article*</u> <u>Section 4-3 of the Specifications.</u>
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- (6) No separate payment will be made for clearing and grubbing borrow areas required to be furnished by the Contractor.
- (C) Removal of Existing Structures (Lump Sum):

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(1) OverrunsChanges in quantities are generally documented by an Work Order or Supplemental Agreement SA. If secondary units are not provided in the plans.

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	(2)	Check plans and source records for possible duplication of area for payment under clearing and grubbing item.	Formatted: Suppress line numbers		
I	(3)	For partial removal, check replacement dimensions and calculation for comparison.	Formatted: Suppress line numbers		
	(4)	Check salvage tickets/Invoices for material delivered to maintenance.	Formatted: Suppress line numbers		
]	(0 EP)	Leaving part of a structure shown to be removed or finding greater amounts than shown in the plans may necessitate an adjustment. Adjustments are usually made by ana Work Order or Supplemental SAAgreements.	Formatted: Indent: Left: 0.5" Formatted: Suppress line numbers Formatted: Strikethrough		
(D)	Remo	oval of Existing Pavement (Square yard):	Formatted: Suppress line numbers		
	(1)	Check special provisions, general notes, plans and soil survey to verify-pavement typeGenerally removal is limited to rigid pavement, sidewalk, slope pavement, ditch pavement, curb and gutter, etc. Occasionally, removal of flexible pavement is set up as a pay item. This is done through the use of a special pay item number.	Formatted: Suppress line numbers		
	(2)	Check plans and source records for areas such as footings, foundations, etc., that are to be included in clearing and grubbing.	Formatted: Suppress line numbers		
	(3)	Delineate areas of removal on final plans to reveal possible overlaps or omissions.	Formatted: Suppress line numbers		
	(4)	Cross check with other replacement items such as sidewalk, curb and gutter, and traffic separators to confirm final pay areas.	Formatted: Suppress line numbers		
	(5)	Check final measurements and calculations as recorded in the final-measurement field book, miscellaneous Tabulation forms, Miscellaneous Form (700-050-61) or latitude and departure sheets. (See Figure 6-2)	Formatted: Suppress line numbers Formatted: Font: Bold, Italic		
	(6)	Check PE's PA's verification of increased or decreased quantities in the computation book.	Formatted: Suppress line numbers		
	(7)	The Daily Work Report Daily Report of Construction may be useful when an item is shown on original plans to be removed, but no quantity is shown for removal. These records are not acceptable for final pay purposes.	Formatted: Strikethrough Formatted: Suppress line numbers		
Lump Si	ım. Square	e Yard & Truck Measured Items Review 6-5			

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Retaining walls, and drainage structures and flexible pavement are specifically not included in the work covered under removal of existing pavement. Section 110-7 of the Standard Specifications.

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6.3 LIST OF FIGURES FOLLOWING THIS CHAPTER

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Figure 6-1

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	STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION TRUCK MEASURED SKETCH (Regular Bed)	700-050-54 CONSTRUCTION 10/0
TRUCK NO.	FIN. PROJECT ID.	
	DATE	
	DATE	
	A. Certified Capacity provided by Contractor Subarticle (9-1.5) B. The example below is for verification purposes of the truck body capacity only. C. Sideboards Added D. Compare B to A	
A. Certified Cap		C.Y.
Verification pract	tice by field staff	
B. Truck Body	(L x W x H) /27 = C.Y. x 98%	
Measure	(x x) /27 x .98 = C.Y.	
↑ H ₁ →	D. Acceptable Yes No	
C. Sideboard A	dded (L x W x H) /27 = 0.0	_C.Y.
A + C =	NEW TRUCK CAPACITY	_C.Y.

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C.Y.

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STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION TRUCK MEASURED SKETCH (Irregular Shape Bed) 700-050-54B CONSTRUCTION

	TROCK WEASONEL	SKETCH (Irregular Shape Bed)	10/08
TRUCK NO		FIN. PROJECT ID	
CHECKED BY		DATE	
MEASURED BY_		DATE	
_	A. Certified Capacity provided by B. The example below is for verif Sideboards Added	Contractor Subarticle (9-1.5) ication purposes of the truck body capacity only.	_

Figure 6-1a

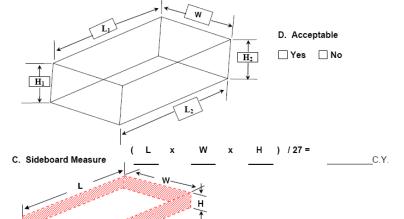
- D. Compare B to A

CASE II

A. Certified Capacity

Verification practice by field staff

÷ 2] [H₁:____+ H₂:_ B. Truck Body Measure / 27 x 98 % = _



NEW TRUCK CAPACITY _____C.Y. Edition Date: January 1, 2000 Revision Date: November 19, 2008

Figure 6-2

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STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION FINAL MEASUREMENTS "MISCELLANEOUS"

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