

Section 01270

MEASUREMENT AND PAYMENT

PART 1 GENERAL

1.1 SECTION INCLUDES

1. Procedures for measurement and payment plus conditions for nonconformance assessment and nonpayment for rejected products.

1.2 AUTHORITY

1. Measurement methods delineated in Specification sections are intended to complement criteria of this section. In event of conflict, requirements of the Specification section shall govern.
2. City Engineer will take measurements and compute quantities accordingly.
3. Assist by providing necessary equipment, workers, and survey personnel.

1.3 UNIT QUANTITIES SPECIFIED

1. Quantity and measurement estimates stated in Agreement are for contract purposes only. Quantities and measurements supplied or placed in Work and verified by City Engineer shall determine payment as stated in Article 9 of Document 00700 - General Conditions.
2. When actual Work requires greater or lesser quantities than those quantities indicated in Document 00410 - Bid Form, provide required quantities at unit prices contracted, except as otherwise stated in Article 9 of Document 00700 - General Conditions.

1.4 MEASUREMENT OF QUANTITIES

1. Measurement by Weight: Reinforcing steel, rolled or formed steel or other metal shapes are measured by CRSI or AISC Manual of Steel Construction weights. Welded assemblies are measured by CRSI or AISC Manual of Steel Construction or scale weights.
2. Measurement by Volume:
 1. Stockpiles: Measured by cubic dimension using mean length, width, and height or thickness.
 2. Excavation and Embankment Materials: Measured by cubic dimension using average end area method.

3. Measurement by Area: Measured by square dimension using mean length and width or radius.
4. Linear Measurement: Measured by linear dimension, at item centerline or mean chord.
5. Stipulated Price Measurement: By unit designated in Agreement.
6. Other: Items measured by weight, volume, area, or linear means or combination, as appropriate, as completed item or unit of Work.
- G. Measurement by Each: Measured by each instance or item provided.
- H. Measurement by Lump Sum: Measure includes all associated work.

1.5 PAYMENT

1. Payment Includes: Full compensation for required supervision, labor, products, tools, equipment, plant, transportation, services, and incidentals; and erection, application or installation of an item of Work; and Contractor's overhead and profit.
2. Total compensation for required Unit Price Work shall be included in Unit Price bid in Document 00410 - Bid Form. Claims for payment as Unit Price Work, but not specifically covered in list of unit prices contained in Document 00410, will not be accepted.
3. Interim payments for stored materials will be made only for materials to be incorporated under items covered in unit prices, unless disallowed in Supplementary Conditions.
4. Progress payments will be based on City Engineer's observations and evaluations of quantities incorporated in Work multiplied by unit price.
5. Final payment for Work governed by unit prices will be made on basis of actual measurements and quantities determined by City Engineer multiplied by unit price for Work which is incorporated in or made necessary by the Work.

1.6 NONCONFORMANCE ASSESSMENT

1. Remove and replace Work, or portions of Work, not conforming to Contract Documents.

2. When not practical to remove and replace Work, City Engineer will direct one of the following remedies:
 1. Nonconforming Work will remain as is, but Unit Price will be adjusted lower at discretion of City Engineer.
 2. Nonconforming Work will be modified as authorized by City Engineer, and Unit Price will be adjusted lower at discretion of City Engineer, when modified Work is deemed less suitable than specified.
3. Specification sections may modify above remedies or may identify a specific formula or percentage price reduction.
4. Authority of City Engineer to assess nonconforming work and identify payment adjustment is final.

1.7 NONPAYMENT FOR REJECTED PRODUCTS

1. Payment will not be made for the following:
 1. Products wasted or disposed of in unacceptable manner.
 2. Products determined as nonconforming before or after placement.
 3. Products not completely unloaded from transporting vehicle.
 4. Products placed beyond lines and levels of required Work.
 5. Products remaining on hand after completion of Work, unless specified otherwise.
 6. Loading, hauling, and disposing of rejected products.

PART 2 P R O D U C T S - Not Used

PART 3 E X E C U T I O N - Not Used

END OF SECTION