

ITEM 01203.0997 M - THERMAL CONDUCTIVE SAND BACKFILL

DESCRIPTION:

Under this item, the Contractor shall furnish and place thermal conductive sand backfill as shown on the plans or where directed by the Engineer.

MATERIALS:

The provisions for select granular fill shall apply except the material shall conform to the following gradation requirements:

SIEVE SIZE	PERCENT PASSING BY WEIGHT	
	MINIMUM	MAXIMUM
9.5 mm	95	100
4.75 mm	93	97
2.36 mm	77	83
1.18 mm	57	65
600 µm	38	45
300 µm	24	30
150 µm	13	17
75 µm	4	8
PARR	0	2

CONSTRUCTION DETAILS:

The provisions of Section 203-3.15, Fill and Backfill at Structures, Culverts, Pipes, Conduits, and Direct Burial Cables shall apply except that thermal conductive sand backfill shall be deposited in layers not exceeding 100 mm in thickness prior to compaction. All lifts are to be compacted to a minimum of 95 percent of Standard Proctor Maximum Density.

METHOD OF MEASUREMENT:

Quantities for this work shall be computed in cubic meters in the final compacted position. A deduction shall be made for pipes (based on nominal diameters) and other payment items when the combined cross sectional area exceeds 0.1 m² unless otherwise shown on the plans. No deduction will be made for the cross sectional area of an existing facility.

BASIS OF PAYMENT:

The unit bid price for this item shall include the cost of furnishing all equipment, labor, and materials necessary to complete the work of this item, except where specific costs are designated or included in other pay items of work.