

## SECTION 1180 - GRANULAR BACKFILL MATERIAL

### PART 1 - GENERAL

#### 1.1\_ SCOPE OF WORK:

Provide all labor, materials, tools, equipment, and incidentals required to place the granular backfill or other granular material where shown on the plans, required by these specifications, or where directed by the ENGINEER as specified herein.

### PART 2 - PRODUCTS

#### 2.1 MATERIAL

- A. Granular Material - Granular material shall be gravel, crushed gravel, or crushed stone meeting the following grading requirements:

<u>Sieve</u>	<u>Total Percent Passing</u>
2 1/2	100
1 inch	70-100
No. 4 (3/16)	25-100
No. 40	10-50
No. 200	5-15

The fraction passing a No. 40 sieve shall have a liquid limit not greater than 30 and a plasticity index not greater than 6.

- B. Granular material shall consist of a reasonably clean pit run or bank run sand or gravel free from excessive silt, clay, or clay balls. Granular material shall be not lumpy or frozen, and shall be free from slag, cinders, ashes, rubbish, or other material that, in the opinion of the ENGINEER, is objectionable or deleterious. Granular material shall be free of boulders or flat rocks larger than five inches (5") in diameter and shall be sufficiently free of silt or clay that it cannot be compacted into a ball in the hand. If existing soil does not meet these requirements to the satisfaction of the ENGINEER, granular material shall be provided and paid for under this bid item. Granular material shall be approved by the ENGINEER.
- C. Trench Excavated Granular Material - Granular material excavated in the course of the construction at locations where granular backfill is required may be used as granular backfill if approved by the ENGINEER. No separate payment will be made for use of trench excavated granular backfill.

#### 2.2 INSTALLATION

- A. Where granular backfill is required, the trench shall be backfilled with granular material so placed and compacted as to make a satisfactory pavement subgrade and prevent further settlement. Granular material shall be placed in layers of approximately 6 inches in thickness and compacted where required.
- B. Granular Backfill in Pipe Trench Not Under Pavement - Trenches approaching or paralleling a road or highway shall be backfilled with Granular Material if the nearest edge of the trench is within five feet (5') of the edge of pavement.
- C. Material used for backfilling shall be placed immediately after placing bedding around pipe unless otherwise ordered by the ENGINEER.

### **PART 3 - BASIS OF PAYMENT**

Where use of Granular Backfill Material is shown on the plans, required by these specifications, or required by the ENGINEER, and off-site material must be used, payment shall be made at the Contract unit price for Granular Backfill per cubic yard, unless payment for granular backfill is already included in another pay item (such as Concrete Driveway Restoration). Quantity of Granular Backfill for payment shall be determined by multiplying the depth of granular backfill times the approved trench width times the length of trench where granular backfill is used. Payment shall include all material furnished, all labor for digging, loading and hauling backfill material, and removal and disposal of excess excavated earth. No payment will be made for use of trench excavated granular backfill.

END OF SECTION