

SECTION 02056

COMMON FILL

PART 1 GENERAL

1.1 SECTION INCLUDES

- A. Common Fill materials and procedures.

1.2 RELATED SECTIONS

- A. Section 01455: Material Quality Requirements
- B. Section 01741: Final Cleanup
- C. Section 02332: Embankment for Bridge
- D. Section 02912: Topsoil

1.3 REFERENCES

- A. AASHTO M 145: Classification of Soils and Soil-Aggregate Mixtures for Highway Construction Purposes
- B. AASHTO T 27: Sieve Analysis of Fine and Coarse Aggregates

1.4 DEFINITIONS

- A. Common Fill: Topsoil and fill materials meeting requirements of this Section.

1.5 SUBMITTALS

- A. Prior to delivering Common Fill to site, submit:
 - 1. Name of supplier and source of imported materials and materials analysis of each Common Fill to be used.
 - 2. Gradation analysis of Common Fill material.
- B. If a change in source of material is required, submit name of supplier, source and gradation analysis of Common Fill prior to delivery to site.

1.6 QUALITY ASSURANCE

- A. Reject Common Fill products that do not meet requirements of this Section.
- B. Remove any product found defective and install acceptable product at no additional cost to the Department.

1.7 ACCEPTANCE

- A. Acceptance of Common Fill product placed in construction is based upon lot size and the gradation of Common Fill samples collected from the lot.
- B. Lot Size is one day's production with 5000 ton sub-lots.
- C. Engineer reserves the right to select and test Common Fill randomly from any location at the construction site, or from the Common Fill source.

PART 2 PRODUCTS

2.1 BORROW

- A. Classifications A-1-a through A-4. Meet AASHTO 145.

2.2 GRANULAR BORROW

- A. Classification A-1-a. Meet AASHTO 145.
- B. Non-plastic, passing a 3 inch sieve (maximum size).

2.3 GRANULAR BACKFILL BORROW

- A. Classification A-1-a. Meet AASHTO 145.
- B. Non-plastic, uniformly graded with a particle size of 2 inch maximum.

2.4 SAND

- A. Friable natural river or bank aggregate, free of loam, detrimental, or soluble or organic matter.
- B. Comply with gradation in Table 1.

Table 1

Sand		
Sieve Size	Percent Passing (by weight)	
	Min	Max
3/8 inch	100	--
No. 100	--	10

2.5 CLAY (As fill material, or channel or pond liner)

- A. Classification CL or CL-ML, as defined by AASHTO M 145.
- B. Free of organic matter, frozen material, debris, rocks, and deleterious materials.
- C. Homogeneous, relatively uniform.

2.6 TOPSOIL

- A. Refer to Section 02912.

2.7 EMBANKMENT FOR BRIDGE

- A. Refer to Section 02332.

2.8 SOURCE QUALITY CONTROL

- A. Verify gradation following AASHTO T 27 requirements. Select samples uniformly on a random basis.
- B. If tests indicate materials do not meet specified requirements, change materials and retest at no additional cost to Department.

- C. Contractor-furnished borrow may be used and excavation wasted provided there is no additional cost to Department. Provide borrow that is equal to or better quality than the wasted excavation.

PART 3 EXECUTION

3.1 STOCKPILING

- A. Separate differing materials, and prevent mixing.
- B. Prevent erosion or deterioration of stockpiles.

3.2 INSTALLING

- A. Give Engineer 30 days notice to collect an existing topography, sample, and test materials before opening borrow areas.
- B. Give Engineer five working days notice to collect an existing topography, and test materials before enlarging borrow areas.
- C. Clear, strip, remove overburden, and blend material at no additional cost to the Department.
- D. Place the best quality material in the top portion of the embankment.
- E. Finishing Materials Sources: Refer to Section 01455.

3.3 CLEANUP

- A. Refer to Section 01741.

END OF SECTION