

DRY PREPARATION OF AGGREGATES / REDUCING FIELD SAMPLES

LS-600-R30 \_\_\_\_\_

C702-11 \_\_\_\_\_

PROCEDURE

1. Lab has reviewed Part B and Appendices A and B? ..... \_\_\_\_\_

Selection of Method

1. Fine Aggregate:
  - (a) Drier than saturated surface dry, Method A (Splitter)? ..... \_\_\_\_\_
  - (b) Free moisture present, Method B (Quartering)? ..... \_\_\_\_\_
  - (c) Free moisture present, Method C (Miniature Stockpile)? ..... \_\_\_\_\_
  - (d) Free moisture present, preliminary split of bulk sample using wide chute (37.5 mm or more) splitter to obtain at least 5 kg dried and reduced by means of Method A? ..... \_\_\_\_\_
2. Coarse Aggregate and Mixtures of Fine and Coarse Aggregate:
  - (a) Method A \_\_\_\_\_ or Method B \_\_\_\_\_ used? ..... \_\_\_\_\_

**Note:** Method C may not be used.

Method A – Splitting

1. Splitter equipped with hopper or straight edged pan (feed pan) with width equal to or slightly less than overall width of chutes? ..... \_\_\_\_\_
2. Material spread uniformly on feeder? ..... \_\_\_\_\_
3. Rate of feed slow enough so that sample flows freely through chutes? ..... \_\_\_\_\_
4. Material in one pan re-split until desired weight is obtained? ..... \_\_\_\_\_

Method B - Quartering

1. Sample placed on clean, hard and level surface? (See **Note** below) ..... \_\_\_\_\_
  2. Mixed by turning over 3 times with shovel or by raising canvas and pulling over pile? ..... \_\_\_\_\_
  3. Conical pile formed? ..... \_\_\_\_\_
  4. Pile flattened to uniform thickness and diameter? ..... \_\_\_\_\_
  5. Diameter about 4 to 8 times thickness? ..... \_\_\_\_\_
  6. Divided into 4 equal portions with shovel or trowel? (See **Note** below) ..... \_\_\_\_\_
  7. Two diagonally opposite quarters, including all fine material, removed? ..... \_\_\_\_\_
  8. Cleared space between quarters brushed clean? ..... \_\_\_\_\_
  9. Process continued until desired sample size is obtained? ..... \_\_\_\_\_
- Note:** The sample may be placed upon a canvas quartering cloth and a stick or pipe may be placed under the cloth to divide the pile into quarters.

Method C - Miniature Stockpile Sampling (Fine Aggregate Only)

1. Sample placed on clean, hard and level surface? ..... \_\_\_\_\_
2. Material thoroughly mixed by turning over 3 times? ..... \_\_\_\_\_
3. Small stockpile formed? ..... \_\_\_\_\_
4. At least 5 grab samples taken at random with sampling thief, small scoop or spoon? ..... \_\_\_\_\_

COMMENTS: