

CHAPTER 2E - PHASE III, FIELD INSPECTION

SECTION 2E – 1 - SOIL SURVEY AND PAVEMENT DESIGN

SOIL SURVEY AND PAVEMENT DESIGN RECEIVED

Soil survey and pavement design recommendations are not always received prior to field inspection. Should they be received just prior to the field inspection, every effort should be made to have the recommendations included in plans prior to printing. In some cases, the field inspection will be held based on the preliminary pavement design without the benefit of the soil survey. (See Section 2E-6-TYPICAL SECTION SHEET)

RESOLUTION OF BORROW / SURPLUS AND UNSUITABLE MATERIAL

VDOT's [Road and Bridge Specifications](#) requires that the contractor deposit unsuitable and surplus material off the project if the plans do not require that the material be placed within the right-of-way.

The procedural flow chart (See Figure 2E-1) is self-explanatory in the development of plans to resolve the disposition of materials on either a borrow or surplus project in connection with disposal areas and borrow pits.

The non-environmentally sensitive fill areas within the limits of a project should be reviewed for possible locations to dispose of unsuitable material. Do not place disposable material in areas where retaining walls or sound walls will be used. Check all proposed drainage items pertinent to this procedure. In some instances, the Materials Division will recommend that disposable material be placed in the bottom of fills; however, the available areas may or may not satisfy the volume of material to be disposed. The designer must therefore look to other methods of placing this material along with the placement of surplus root mat material that may be disposed of by using it to cover fill slopes. Placement of unsuitable material in fills is limited to an elevation 6 feet below the top of the proposed subgrade at the side slope. This will prevent entrapment of moisture in the embankment below the pavement structure (See Figure 2E-2). Unsuitable material is defined as highly plastic clay soil ($PI \geq 35$). Wet material (moisture content > 30 percent above optimum moisture content), muck, peat, and other deleterious material. Organic material (stumps, tree trunks, limbs, roots, leaves, grass cuttings) shall not be disposed of on slopes. A plan for disposal of all unsuitable material shall be submitted by the Contractor to the Engineer at least 7 days prior to disposal for review.