SECTION 2D- 9 CROSS SECTIONS AND EARTHWORK QUANTITIES

PLOTTING CROSS SECTIONS

The names and phone numbers, including area code, and District, if applicable, of the following persons are to be shown in the upper left corner: Project Manager: (VDOT), Surveyed By and Date (completed): (L&D Survey Office Manager or Firm and Consultant Survey Project Manager), Design By: (Responsible Person) and Subsurface Utility Provided By and Date (completed).

Cross sections are to be developed in the preliminary stage of the Project Development Process and are to be updated as the design progresses. The cross sections sheets are to be archived with the plans at each milestone.

Cross sections sheets are to be developed utilizing the criteria set by the AES section.

Cross sections are plotted on a scale of 1" = 10' and so noted at the top of each sheet. Curb and gutter projects, or other projects requiring greater detail, are plotted on a scale of 1" = 5'. Cross sections are to be cut at the following intervals, Rural - 50' and Urban - 25'.

Cross section templates are to be plotted in accordance with the appropriate typical section, to the finished grade elevation shown. Care must be taken to correctly plot all superelevated sections, pavement widening, pavement and shoulder transitions, gore areas, ramps, auxiliary lanes, etc. in accordance with the appropriate geometric, slope and superelevation standards (See Appendix A-1).

Superelevation rates shall be shown along proposed pavement slopes.

Pavement trenching for the proposed template will agree with the pavement design provided by the Material Division.

Unsuitable Material or Undercut Excavation limits are to be shown on the cross sections when provided by the Materials Division. GEOPAK has the capabilities to show the outline of the limits on the cross sections; however the designer will have to manually place hatching to depict the difference between regular excavation and the unsuitable material See Figure 2D-1.
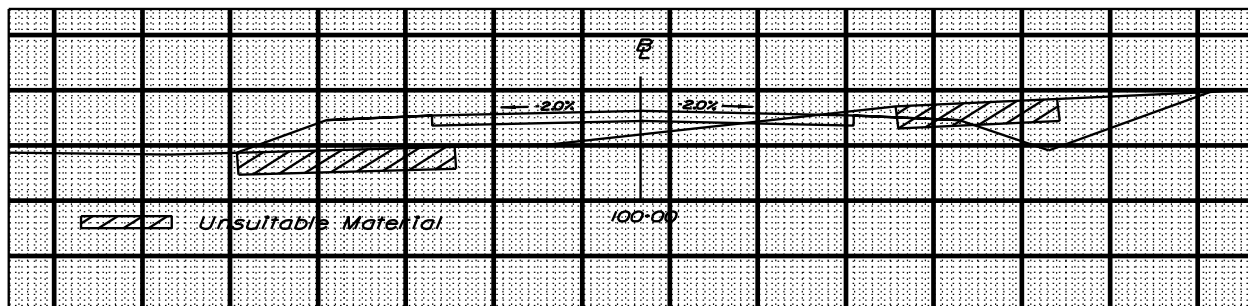

FIGURE 2D-1[*]

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[*] Rev. 1/15