The Forest Avenue access road shown on Figure 2 indicates that a portion of the alignment will be located adjacent to the steep earth slopes of the former pit. At these locations, the existing slope is as steep as approximately 1.3:1. We recommend that these slopes be flattened to a nominal 2:1.

The earth slopes should be provided with vegetation to control erosion losses from wind and surface water runoff.

Storm Water Detention Pond

A detention pond is located to the east of the building in a low area of the pit. Existing grades in the area vary from approximately El. 50 to El. 60. Detention pond grading varies from El. 52 to El. 60. Therefore, site grading for the detention pond will involve cuts of 6 ft. to fills of 3 ft.

The bottom of existing fill in the detention pond area is likely near El. 30 to El. 40. Therefore, the detention pond will be constructed over existing fill with varying composition. Subgrades should be proofrolled and any soft areas replaced with compacted granular fill. Embankments should be constructed with compacted fill or common borrow as previously described.

CONSTRUCTION CONSIDERATIONS

General

The purpose of this section of the report is to comment on items related to excavation, earthwork, and related aspects of the proposed construction. It is written primarily for the engineer having responsibility for the preparation of plans and specifications. Since it identifies potential construction problems related to foundations and earthwork, it will also aid personnel who monitor the construction activity. Prospective contractors for this project should evaluate construction problems on the basis of their own knowledge and experience in the area, taking into consideration their proposed construction methods and procedures.

Excavation

Excavation will be required for general site grading, new foundations, the storm water detention system, and new underground utilities. We anticipate that excavations will be through existing fill, granular fill and marine sand, silt and clay soils. Excavations may be made using sloped open cut techniques. We recommend that the contractor be responsible for the design, stability, and safety of all excavations.