

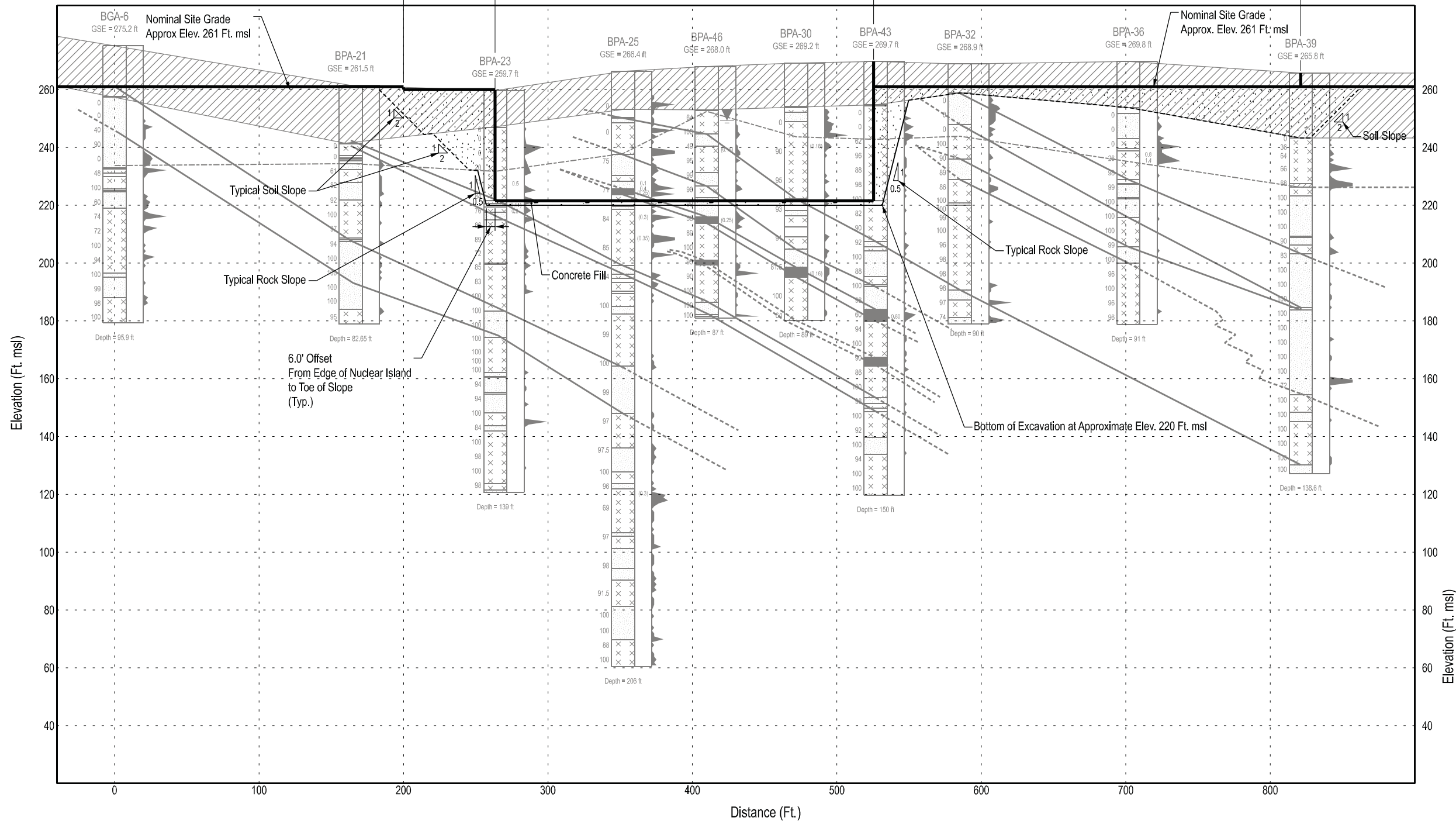
Plant South (S65W)

Extent of RadWaste Building - Foundation at 260 Ft. msl

Extent of Nuclear Island -  
Basement Foundation at 221.5 Ft. msl

Extent of Turbine Building

Plant North (N65E)



**LEGEND**

- Extent of Excavation For Safety-Related Structures
- Conceptual Excavation Extent For Other Related Structures
- Concrete Fill
- Compacted Granular Compacted Cohesive, or Concrete Fill
- Ground Water Level

**NOTES:**

1. Clay seams or fracture zones with total clay thickness >0.1 ft. thick are shown at their approximate observed elevations.
2. See Table 2.5.4-201 for depths and descriptions of soil and top of sound rock.
3. See Figure 2.5.4-202 for Cross Section locations.
4. Depth of excavation under non-safety related structures shown as conceptual and subject to change during detailed design.
5. Excavation extents for nuclear island shown are typical and subject to change based on subsurface conditions encountered during construction. Soil excavation sideslope may range from 1.5H:1V to 2H:1V, and rock excavation sideslope may range from 0.25H:1V to 0.5H:1V.
6. See Figure 2.5.4-205A for lithology symbols and correlation lines between boreholes.

**DATA SOURCE:**

1. CH2M HILL Borehole (Appendix 2BB)
2. Smith & Smith Surveyors, 2007

Progress Energy Carolinas  
**Shearon Harris Nuclear Power Plant  
 Units 2 and 3  
 Part 2, Final Safety Analysis Report**  
 New Hill, North Carolina

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Structure Foundation and Excavation Extents -  
 HAR 3 Plant South to North

FIGURE 2.5.4-212A Rev. 0