

ITEM B – ENGINEERING DESIGN SERVICES | 30% CDD

1. 30% Conceptual Design Document (CDD) will include the following items:
 - a. Basis of Design Report (BODR) with design criteria for each process component.
 - b. Site layout of proposed improvements.
 - c. List of proposed equipment manufacturers.
 - d. List of proposed technical specifications.
2. To facilitate early procurement needs, the Engineer will develop the following deliverables as part of this task:
 - a. Preliminary Site Plan with well siting criteria.
 - b. Conceptual Yard Piping Plan
 - c. Conceptual Building Plan
 - d. Conceptual Mechanical Plan
 - e. Preliminary Process Flow Diagram (PFD) with Harn coordination.
 - f. Preliminary Piping and Instrumentation Diagram (P&ID) with Harn coordination.
 - g. Preliminary Hydraulic Profile drawing.
 - h. Preliminary Electrical Single-Line Diagram.
3. Coordination with Design Builder to assist construction cost estimating via preliminary design efforts to define scope of work including preliminary sizing of foundations, piping sizes, pump sizes, motor loads, etc.
4. Engineer will attend one design progress review workshop with project team. Review workshop shall be a one-day workshop with key design team members. Engineer will review and update the decision log during the review workshop.
5. Review and input from the membrane manufacturer will be required as part of the review process.
6. The Engineer will support the Design Builder's early coordination efforts with suppliers and manufacturer representatives to clarify scope and assist in the pricing efforts.

ITEM C - PERMITTING SERVICES

1. Georgia Environmental Protection Division (EPD) Permitting: The Engineer will prepare and submit an EPD application to construct the proposed improvements and will respond to all reasonable requests for additional information.