SECTION 07130

BENTONITE WATERPROOFING

PART 1 - GENERAL

1.1 SUMMARY

A. Provide bentonite waterproofing system where shown on the drawings, as specified herein, and as needed for a complete and proper installation.

B. Related work:
   1. Documents affecting work of this section include, but are not necessarily limited to, General Conditions, Supplementary Conditions, and Sections in Division 1 of these Specifications.

1.2 SUBMITTALS

A. Comply with pertinent provisions of Section______.

B. Product data: Within 15 calendar days after the Contractor has received the owner's Notice to Proceed, submit:
   1. Materials list of items proposed to be provided under this Section;
   2. Manufacturer’s specifications and other data needed to prove compliance with the specified requirements;
   3. Shop Drawings in sufficient detail to show fabrication, installation, anchorage, and interface of the work of this Section with the work of adjacent trades;
   4. Manufacturer’s recommended installation procedures which, when approved by the Architect and Stanford University, will become the basis for accepting or rejecting actual installation procedures used on the Work.

1.3 QUALITY ASSURANCE

A. Use adequate numbers of skilled workmen who are thoroughly trained and experienced in the necessary crafts and who are completely familiar with the specified requirements and the methods needed for proper performance of the work of this Section.

B. Use an applicator currently approved in writing by the manufacturer of the bentonite waterproofing system.

1.4 DELIVERY, STORAGE, AND HANDLING
A. Delivery and storage:
   1. Deliver the materials to the job site in the manufacturer’s unopened containers with all labels intact and legible at time of use.
   2. Maintain the products in a dry condition during delivery, storage, handling, installation, and concealment.

B. Comply with pertinent provisions of Section ________.

PART 2 - PRODUCTS

2.1 MATERIALS

As manufactured by Paraseal Product Data, MiraFi MiraClay or equal.

PART 3 - EXECUTION

3.1 SURFACE CONDITIONS

A. Examine the areas and conditions under which work of this Section will be performed. Correct conditions detrimental to timely and proper completion of the Work. Do not proceed until unsatisfactory conditions are corrected.

3.2 INSTALLATION

A. Coordinate as required with other trades to assure proper and adequate provision in the work of those trades for interface with the work of this section.

B. Install the bentonite waterproofing where shown on the Drawings, and in strict accordance with the manufacturer’s recommendations as approved by the Architect and Stanford University.

C. Protection:
   1. Protect panels from moisture with temporary plastic sheets.
   2. Install the specified protection board against vertical surfaces prior to backfilling.
   3. Backfill as soon as possible after installation has been approved, working in strict accordance with the pertinent provisions of other sections of these Specifications.

D. Ensure the termination bar is sealed and fastened per the manufacturer requirements. This detail is very critical; especially during the backfill operation to prevent soil from lodging between the waterproofing membrane and the structure.
E. Protect the material from moisture / rain at all times. Replace any damaged material prior to backfill after being re-inspected by the Architect and Stanford project manager.

Follow manufacturer requirements for proper overlaps and pin attachment based upon type of substrate.

Follow manufacture requirements and details for horizontal to vertical conditions where walls meet horizontal conditions and any other field conditions. The use of Bentonite granulars is sometimes required at the toe of the footing to wall transition.

END OF SECTION