

PLATE II.

- Fig. 1a. *Heterodictya gigantea*, Nich., a broken frond of the natural size. 1b. Portion of the same, enlarged to show the penniform arrangement of the cells. 1c. Transverse section of the frond, natural size. 1d. A few of the cells, enlarged to show the tabulæ. 1e. A small portion of the surface, greatly enlarged. (P. 79.)
- Fig. 2. *Ptilodictya cosciniformis*, Nich., a broken specimen of the natural size. 2a. Portion of the same, enlarged. 2b. Portion of the same, still further enlarged. (P. 80.)
- Fig. 3. *Fenestella Davidsoni*, Nich., a small portion of the non-poriferous side, of the natural size. 3a. Portion of the same, enlarged. 3b. Portion of the poriferous side of another specimen of the same, enlarged. 3c. Small portion of a branch of another example of the same, greatly enlarged. (P. 81.)
- Fig. 4. *Retepora Trentonensis*, Nich., a fragment of the natural size. 4a. Portion of the same, enlarged. 4b. Portion of another example, showing the non-poriferous surface, enlarged. (P. 15.)
- Fig. 5. A small crust of *Ceramopora Huronensis*, Nich., growing on *Heliophyllum Halli*, enlarged. 5a. Portion of the same, greatly enlarged. (P. 78.)