1. **Scope**

   This procedure establishes requirements for proper installation of temperature sensors on members that have been designated as mass concrete.

2. **Procedure**

   2.1. A minimum of two temperature sensors shall be placed at each of the following locations per cross section (for a total of six temperature sensors) on every mass concrete placement:
   - At the center of the cross section
   - At the midpoint of the shortest edge of the cross section
   - At the midpoint of the longest edge of the cross section

   2.2. All sensors shall be secured in a manner such that they do not move during concrete placement. The surface sensors may be tied to the rebar cage, provided that the sensors are within 6 in. \(152\text{ mm}\) of the surface.

   2.3. Refer to Figures 1 through 5 for guidance on proper and inappropriate locations to position temperature sensors on cross sections.

   ![Diagram](image_url)

   **Figure 1: Proper temperature sensor cross-section location within a bent cap \((D_L = \text{least dimension})\) (example of a vertically oriented cross section)**
Figure 2: Inappropriate temperature sensor cross section locations within a bent cap ($D_L = \text{least dimension}$) (example of a vertically oriented cross section)

Figure 3: Proper temperature sensor placement on a rectangular bent cap cross section (example of a vertically oriented cross section)
Figure 4: Proper temperature sensor cross section locations within a column ($D_L = $ least dimension) (example of a horizontally oriented cross section)

Figure 5: Correct temperature sensor placement on a circular column cross section (example of a horizontally oriented cross section)