Prior to casting cap, top and bottom of corrugated steel pipe must be sealed off with round removable forming plugs. Remove plugs prior to placing cap on columns.

Circular spiral rib corrugated steel pipe. Install plumb in final location.
**CONSTRUCTION NOTES:**

- **Cap Fabrication:**
  - Identification with Item 429, "Precast Prestressed Concrete Structural Members.
  - Secure corrugated metal pipe to prevent movement during concrete placement. Location tolerance of pipes is 3" from plan location, transversely and longitudinally. Seal pipes to prevent intrusion of concrete.
  - Chambers or corners of pipes.
  - Repair cracks exceeding 0.025" in any direction. The fabricator must take approved corrective actions if cracks greater than 0.025" in form. All work, labor, and materials related to these cracks will be at the Contractor's expense.
  - Casts may be used to construct the columns of the concrete-cap connection that do not meet the requirements of the standard. In this case, the Contractor may provide a connection that is not of the standard type shown in the plans. The connection must be designed and tested by the Contractor and approved by the Engineer.
  - Caper or masonry in a manner that deposits concrete from the bedding layer on the bottom of the cap pocket in a manner that deposits concrete from the bedding layer on the bottom of the connection area.
  - Cap-to-Column Connection:
    - Cap-to-Column Connection: Design a mock-up of the cap-to-column connection that must demonstrate the ability of the connection to transfer the required forces. The mock-up shall be cast in accordance with Item 429.9.1, "Cast-in-Place Concrete Structural Members." The Contractor shall provide a connection that is not of the standard type shown in the plans. The connection must be designed and tested by the Contractor and approved by the Engineer.
  - Cap-to-Column Connection:
    - Cap-to-Column Connection: Design a mock-up of the cap-to-column connection that must demonstrate the ability of the connection to transfer the required forces. The mock-up shall be cast in accordance with Item 429.9.1, "Cast-in-Place Concrete Structural Members." The Contractor shall provide a connection that is not of the standard type shown in the plans. The connection must be designed and tested by the Contractor and approved by the Engineer.
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