

SECTION 04200 - POLYETHYLENE SHEET ENCASEMENT

PART 1 - GENERAL

1.1 WORK INCLUDED IN THIS SECTION

- A. The WORK of this Section includes materials, application, and inspection of polyethylene sheet encasement for buried flanges, fittings, couplings, valves, and appurtenances.

1.2 SUBMITTALS

- A. The following shall be submitted in compliance with Section 01300.
 - 1. Manufacturer's catalog literature and product data sheets describing the physical, chemical and electrical properties of the encasement material.

PART 2 - PRODUCTS

2.1 POLYETHYLENE MATERIAL

- A. The encasement shall consist of a polyethylene sheet of at least 8 mils thickness conforming to AWWA C105.

2.2 PLASTIC ADHESIVE TAPE

- A. A 2-inch wide plastic adhesive tape such as Calpico Vinyl Tape, Polyken 900, or equal shall be used.

PART 3 - EXECUTION

3.1 APPLICATION OF SHEET ENCASEMENT TO BURIED VALVES

- A. Valves shall be wrapped with a flat sheet of polyethylene. The sheet shall be placed under the valve and folded in half. The sheet shall be extended to the valve stem and secured in place with 2-inch wide plastic adhesive tape. The second layer shall be applied and secured with tape. Concrete and support blocks shall be poured after the wrap has been properly placed and inspected

3.2 APPLICATION OF SHEET ENCASEMENT TO BURIED FITTINGS, COUPLINGS, AND APPURTENANCES

- A. Buried ferrous metal pipe fittings, couplings, adapters, and appurtenances shall be wrapped with polyethylene sheet. The adjoining pipe or fitting shall be overlapped a minimum of one-foot and secured in place with 2-inch wide plastic adhesive tape. A second layer shall be applied and secured with tape around the barrel of the connecting pipe to prevent the entrance of soil. Concrete anchor and thrust blocks shall be poured after the wrap has been placed and inspected. Tracer wire shall be installed outside of the wrap.

3.3 REPAIR OF POLYETHYLENE MATERIAL

- A. Polyethylene material that is damaged during construction shall be repaired. Use polyethylene sheet, place over damaged or torn area, and secure in place with 2-inch wide plastic adhesive tape.

END OF SECTION