

PART 1 - GENERAL (NOT USED)

- 1.01 UAF Facilities Services and Consultant shall obtain necessary construction permits from ADEC prior to and post construction.
- 1.02 Place manholes approximately 200-feet apart to allow for cleaning.
- 1.03 Place a line size but not less than 4-inch diameter exterior cleanout on the waste main within 5-feet of the building.
- 1.04 Where drop-pipes are required due to severe elevation changes, install the drop pipe assembly inside of the manhole with a T-fitting where the main pipe enters the manhole and a 22-degree or 45-degree fitting on the end of the drop pipe, aimed in the direction of flow.
- 1.05 Direct buried waste piping shall be buried a minimum of four feet, size feet in gravelly soils. Insulate direct buried water systems with minimum 3 inch thick layer of spray-on urethane foam insulation, 2-1/2 lb./cu. ft. density.

PART 2 - PRODUCTS

- 2.01 Pipe: Ductile iron pipe with concrete lining and polyethylene sheathing on the outside; bell and spigot joints for gravity piping or HDPE for site and force main sanitary sewer systems. Construct drop pipes of the same pipe material but use mechanical joints and additional anchors and supports to support the weight of the drop pipe.
- 2.02 Manholes: Precast concrete construction rings and risers with evenly spaced ladder rungs. Provide insulation on outside of manholes. Construct beaver slides and chutes in the field with approved grout or concrete and ensure they are smooth and radiuses are to be the same inside diameter as the outlet pipe. Pipe knockouts are to be precast with approved grout ring and boot. Field knock-outs are only allowed upon approval of FS/DDC and shall be fully grouted. Lids shall be stamped SEWER and be rated for AASHTO H20 loading.
- 2.03 Insulate piping, joints and manholes with minimum 2 ½ inch thick layer of spray on urethane foam, 2 ½ lb/cu. ft. density.

PART 3 – EXECUTION (NOT USED)

END OF SECTION