

516. PIPELINE

DESIGN AND CHECK DATA REQUIREMENTS

The following items must be addressed in the design folder for the Pipeline:

Survey Data

The following is a list of minimum required survey notes:

1. Surveyed elevations at beginning and ending stations and at points in-between where a significant change in grade occurs.
2. Profile along the proposed centerline of all pipelines. Elevations and distances may be obtained from USGS topographic maps, orthophotography, or other reliable sources.
3. Random shots necessary for the plan view map and design purposes.

Design Data

The following is a list of minimum required design data:

1. Documented compliance with Pennsylvania One Call
2. Planview map showing; Source of water and location of all planned components of the entire pipeline system.
3. Type, size, slope, and length of all pipelines, including appropriate ASTM or AWWA specifications.
4. Minimum cover over pipe.
5. Computations showing capacity and pressure in pipeline.
6. If needed; Thrust or surge control.

7. Quantity calculations and a cost estimate.
8. O&M Plan.

Construction Check Data

Verify and document the following where applicable:

1. Measurements to show pipeline and appurtenances were installed as designed or as otherwise modified by the authorized personnel in the field. (Size, Length, Slope, Min. Cover)
2. Name of pipe manufacturer, product name, material and applicable code (ASTM, AWWA).
3. Copies of all required certifications and guarantees, as set forth in the PA430 construction specification.