

Design and Construction Check

533. PUMPING PLANT

The following items must be addressed in the design folder for the pumping plant.

Survey Record

1. Profile along the proposed centerline(s) of pipelines. However, when the purpose of the proposed pipeline is for providing water for livestock, a survey of the centerline of the pipelines may not be necessary. Elevations and distances may be obtained from USGS topographic maps, ortho-photography, or other reliable sources.
2. Random shots necessary for the plan view map and design purposes.

Design Record

1. Documented compliance with Pennsylvania One Call.
2. Plan view map showing; Location of all planned practices and components, apparent property lines, and existing water courses.
3. System capacity calculations.
4. Pipe sizes and velocities.
5. Support data for pump selection.
6. Reinforcement and strength of concrete in Suction and Discharge Bays, or other concrete structures.

7. Rock type, size, and gradation.
8. Building material requirements.
9. Quantity computations and cost estimates.
10. Complete Section 6 of PA533 Construction Specification.
11. E&S Control Plan.
12. Vegetation Plan.
13. O&M Plan.

Check Data Record

1. Extent of completed work (As-built drawings).
2. Location and dimensions of pipelines, and other appurtenances (controls, tanks, etc.).
3. Minimum cover and grade-lines for underground pipelines.
4. Make, model, and performance data for all pumps, and other related appurtenances.
5. Size and grade of all wood and steel framing components.