

## KARST SINKHOLE TREATMENT DESIGN AND CONSTRUCTION DATA REQUIREMENTS

The following items must be addressed in the design folder for the sinkhole project.

### Table of Contents

Lists key pages found in the design.

### Soils and Foundation Data

- PA One-Call documentation
- Test pit locations and logs, if needed
- Document the need for rock excavation, drainage, isolation from porous foundation, depth limitations, etc.

### Design Data Summary

Important data is recoded and is consistent with the standard and specification. This includes but is not limited to:

- Survey data
- Drainage area of sinkhole
- Surface water control(s)
- Availability of safe outlet for surface water, if required
- Treatment of contaminated water, if applicable
- Estimated depth and volume of sinkhole
- Dimensions and material requirements
- Vegetation requirements around sinkhole

### Construction Specifications

Enclose the applicable specification(s) PA527 and others (e.g. PA327, PA342, PA390, PA391, PA393, PA500, PA512, etc.).

Include any “additional conditions” or items that are site specific or must be defined to supplement the standard specification. (See instructions for use of Specification PA527.)

Include special or “by-others” specifications.

### Engineering Drawings

Include cover sheet and location sheet.

Use one of the Standard Drawings PA-073 through -075 or a site specific design. Include additional conditions specific to project.

### Erosion and Sediment Control Plan

Refer to DEP’s Erosion and Sediment Pollution Control Program Manual and consult with the local Conservation District. Include pertinent information in the design.

### Construction Data

#### QUALITY ASSURANCE PLAN (QAP)

Include specific items that need inspection, when those items should be inspected, and who is to inspect them. Also include special equipment that may be needed for testing.

#### DOCUMENTATION

Document work completed, who performed the work, any deviations from design, quantities used, date of completion, and completed certification form.

### Operation and Maintenance Plan

- Routine operational requirements
- Routine maintenance requirements
- Safety precautions (gates, signs, fencing)
- Other special situations, practices, conditions, and requirements for the individual operation.