



REQUIRED EQUIPMENT LIST

A properly equipped crew should have the following equipment on hand at the excavation site:

- Shovels
- A ladder long enough to extend at least 3' above the excavation hole
- A level, at least 4' long
- 2"x4" screeds
- Hoses and a pump to remove any standing water from the excavation
- Traffic safety equipment, including barricades, construction signs, hand signs
- A backhoe of adequate size to dig and backfill the excavation
- Dump truck of adequate size to remove dirt and haul backfill and bedding material
- Shoring as needed to prevent excavation cave-ins
- Chip gun as needed for intercepts
- Grouting materials for ladder rung installation, sealing knockouts and intercept and to bring frame and cover to grade
- Bedding material in a quantity to cover excavation bottom with 4"-12" of sand, pea gravel or crushed rock
- Backfill material that is free of large rock chunks, is well-graded and contains very little water
- A crane of adequate lifting capacity to install the vault