What is Cured-In-Place-Pipe?
Cured-in-place-pipe (CIPP) is one of the most widely used and cost-effective rehabilitation methods to repair existing sewer pipes. It is a jointless, seamless, corrosion-resistant pipe lining that is inserted within an existing pipe—basically a pipe within a pipe.

How is CIPP installed?
CIPP is installed through existing manholes. After bypassing all sewer flow, the upstream section of the manhole is temporarily removed, and the CIPP liner is inserted into the sewer pipe from the manhole using water pressure. The CIPP liner is then cured to a hardened state using hot water. To learn more about this method, watch this video or visit www.sakcon.com/product-demonstrations.

What are the advantages of the CIPP rehabilitation process?
In comparison to traditional open-cut construction, this trenchless rehabilitation of sewer pipe is less disruptive, can be completed on a shorter schedule, and generally costs much less. Using CIPP means less impact to traffic and fewer inconveniences to surrounding neighborhoods.

What are the impacts of CIPP?
During the Mission Trunk Sewer Project, SASD and its contractors will make every effort to minimize construction impacts, including the following:

- **Preparation tent:** To prepare the CIPP lining materials, the project team sets up a tent approximately 150 feet long and 25 feet wide (see photo) over a manhole. Crews then insert the liner into the sewer pipe through the manhole.

- **Continuous operation:** Once the CIPP lining process begins, crews must work 24/7 until the CIPP liner is completely inserted and has cured. The duration of the lining process varies based on the length of the CIPP liner. The shorter the section of sewer being lined, the less time it will take. At most locations, two sections are completed and generally each section will take one week to complete.

- **Noise:** During CIPP work, homes and businesses near the work area can expect noise impacts from various types of equipment, such as generators, boilers, and heavy equipment. This equipment is necessary to remove the top of the manhole and then insert and cure the CIPP liner.

- **Odor:** When the top of the manhole is temporarily removed, homes and businesses near the work area may notice odor from the open manhole until the CIPP liner is inserted into the sewer pipe. Additionally, odors similar to plastic or glue may be present during the insertion of the resin into the liner and when hot water is used to cure (harden) the CIPP liner. This odor is from the material within the CIPP liner. While this odor may be noticeable, please be assured that the Sacramento Metropolitan Air Quality Management District has determined that the air emissions associated with this project meet all local, state, and federal requirements for the protection of public health.

- **Traffic and property access:** In some instances, the location of the preparation tent may require lane closures and temporarily block driveway access to homes and businesses. In these situations, SASD and its contractors will coordinate closely with affected property owners both before and during the work.
Are the odors from CIPP harmful?
No. While the odor can be unpleasant for some, the Sacramento Metropolitan Air Quality Management District has determined that the air emissions associated with this project meet all local, state, and federal requirements for the protection of public health.

How long will the odor be present?
Odor can be expected while the CIPP work is going on in your area, which is usually for a couple weeks at each insertion location. Once the liner is in place and fully cured, the odor will dissipate. This could take up to two or three days after the crews have finished and moved on to the next section of pipe.

What should I do if the odors bother me?
We recommend closing your doors and windows if the smell is unpleasant. Because the CIPP lining process is a 24/7 operation, odor may be noticeable even after normal working hours. We appreciate your patience during this temporary inconvenience. If you have questions or concerns, please call the Mission Trunk Sewer Project hotline at 916-876-SASD (7273).