

Job Hazard Analysis

(Always Wear Proper PPE)

Project:	Superintendent:
Task: Sewer Line Installation	Date:

Step	Potential Hazards	Safe Procedures/ Crew Responsibilities
Preparation		<ul style="list-style-type: none"> • Designate a Competent Person or persons • Review P3 (Preparation Planning Procedures) and JHA with crew • Assess location and conditions* • Complete and review STA (Safety Task Assessment) daily
Proper layout		<ul style="list-style-type: none"> • Review plans and specs; discuss with owner rep.
Mark and locate all existing utilities	Damage to existing buried utility lines	<ul style="list-style-type: none"> • Notify Dig Safe and all non-member utilities prior to start • Mark all other private utilities; maintain markings • Follow 18” rule for locating utilities: Use hand tools to dig within 18” of the marked line until the utility is exposed.
	Overhead electrical or telephone lines	<ul style="list-style-type: none"> • Follow the 10’ overhead clearance rule
Excavate trench for sewer line, install sewer pipe and bedding, and backfill trench	Being hit or struck by machine or excavation	<ul style="list-style-type: none"> • Maintain eye contact with excavator operator • Maintain safe distance from excavator and bucket at all times • All personnel should be out of trench when backfilling
	Cave-in of trench or test pit	<ul style="list-style-type: none"> • Use proper sloping or shoring while locating utilities and excavating pipe trenches • Do not enter trench until it is properly sloped or shored
	Rocks and dirt rolling into trench or test pit	<ul style="list-style-type: none"> • Spoil pile must be at least 2’ from edge of excavation

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Excavate trench for sewer line, install sewer pipe and bedding, and backfill trench continued	Person falling or tripping into trench or test pit	<ul style="list-style-type: none"> • Good housekeeping around excavation • Berm and barricade excavation • Keep non-essential personnel away from the hole • Use a quality ladder of sufficient size to access excavations more than 4' deep • Never walk on edges or spreaders of trench boxes
	Hazardous atmosphere	<ul style="list-style-type: none"> • Use air monitor to test air quality in trenches and confined spaces where sewer gas or other hazardous gases could exist • Use air monitor when using gas powered tools in trench
	Exposure to high levels of bacteria while working with live sewer	<ul style="list-style-type: none"> • Use rubber gloves • Wash hands before eating
	Exposure to Hepatitis B virus (unlikely in sewers)	<ul style="list-style-type: none"> • HBV vaccinations are available on a voluntary basis • Use rubber gloves; cover open wounds
	Rigging failure	<ul style="list-style-type: none"> • Use proper rigging and inspect before use • Be sure pipe is balanced properly when rigging
	Struck by pipe, tamp, etc.	<ul style="list-style-type: none"> • Stay clear of load being swung into trench; use a tag line for control if needed • No personnel are ever beneath a suspended load • Keep pipe at arm's length at all times during placement
	Pinch points	<ul style="list-style-type: none"> • Keep hands and body from being between pipe and shoring and between pipe ends
	Cut by pipe saw	<ul style="list-style-type: none"> • Personnel must be properly trained before using pipe saw • Proper set up of work area to safely cut pipe
	Cuts from pipe	<ul style="list-style-type: none"> • Wear gloves and face protection

