

## **Base Concrete Operation Guide**

The Base Concrete operation consist of removing temporary fill from the cuts in the roadway using a backhoe and then cleaning up the area and loading the debris into a dump truck. Then installing concrete base to the cut

The procedure for this operation will be as follows

1. The foreman will evaluate the area where work is to take place, identify vehicle and pedestrian exposures, overhead hazards.
2. The foreman will conduct a job safety briefing, pointing out and documenting any hazards that are specific to the site.
3. The crew will set up work area protection
4. The super will check for code 753 mark outs and then mark out the area to be milled in spray paint.
5. The operator who is operating the backhoe will use the back bucket to remove the temporary fill and wearing course cutback from the cut and load the debris into the truck.
6. The concrete truck driver will pour the concrete into the cut.
7. A spotter or flag person is required to assist the movement of machinery and large mobile equipment (backhoe, excavator, dump trucks) when moving in and out of the work zone.

### **Employee responsibilities:**

A) The crew will make sure they have all safety equipment, personal protective equipment (hardhat, reflective safety vest, safety eye glasses, steel toe work boots and gloves) men working signs, and sufficient cones and cone bars for the days work before leaving the yard.

B) The entire crew is responsible to set up, evaluate and maintain the proper work area protection at all times. If at any time anyone on the crew feels like the work area is not being protected correctly or that one of their coworkers whether it is a laborer or operator is not maintaining focus on their task it is their right and responsibility to stop work from continuing until the situation is corrected.

C) The foreman will observe the work area to ensure that it is being set up correctly.

D) All operators and drivers will perform a pre-inspection on the “Whip Around App” prior to operating that equipment for the day.

### **For the debris removal portion**

### ***Operator Responsibilities:***

The backhoe operator will ensure he has a clear line of sight to his spotter and that his spotter is in their proper position. The operator will then use the back bucket to remove the temporary fill

and either load it directly onto the dump truck or gather into a pile. Then the backhoe operator will turn around and use the front loader bucket to pick up the debris and load them on the dump truck. The operator will make sure the spotter and other laborers in the work zone maintain situational awareness and keep a safe distance from the backhoe. They will keep visual contact with their spotter and remain in communication at all times.

**Spotter responsibilities:**

The backhoe spotter will ensure that they and the operator have a clear line of sight of each other and are able to properly communicate with each other. The spotter will observe the backhoe operator as he removes the temporary fill from the cut. After the backhoe operator is done using the back and/or front bucket to clean up the debris and is completely stopped the spotter will shovel the remainder of the debris into the bucket. The spotter will then guide the dump truck into the work area or guide the backhoe over to the dump truck and spot/flag for the backhoe while he loads the truck. The spotter will maintain a safe distance from the machine at all times and use visual signals to communicate with the operator. The spotter and other employees in the work zone will continuously evaluate the work zone and make adjustments as the work progresses.

**For the Concrete installation portion**

**Zim Mixer operator responsibilities:**

The Zim truck operator will make sure he does not back up the truck without a spotter. He will place the truck near the cut in a safe spot and then commence mixing the concrete. Before he pulls the truck forward he will have visual confirmation from the spotter/laborer that he is clear to move.

**Spotter/Laborer responsibilities:**

The spotter/laborers will maintain a safe distance from the truck at all times and use visual signals to communicate with the driver. The spotter will back the truck up to position it near the cut. He will maintain line of sight with operator at all times while the equipment is in motion. The laborers will direct the operator to start and stop the flow of concrete as needed. If the truck is to be moved forward while pouring there must be a spotter guiding the truck from a position where he can see any obstacles or pedestrians in its path. The laborers will then use a broom to level the concrete base.