

VIADUCT DEMOLITION



# Demolishing in Pieces



Central 70



**ONCE TRAFFIC IS SHIFTED** below the interstate, it will be time for the viaduct itself to come down. Demolition activities will occur in pieces over three-to-five months with safety and minimizing impacts to the neighborhoods being the first priorities. Crews will start by removing light poles, fencing and barrier rails. Removal of the actual bridge structure will follow, with four teams working in tandem between Brighton and Colorado boulevards.

Netting will be placed on the south side of the viaduct where the demolition zones come in close proximity to existing structures. This netting will provide a barrier, containing debris within each demolition zone. To minimize the length of the impact along 46th Avenue, crews will demolish, clean up and reopen each one- to-two-block area before continuing to the next area. North/south streets in the area will only be closed when demolition is taking place directly above them, approximately two weeks for each street.



# BYE-A-DUCT



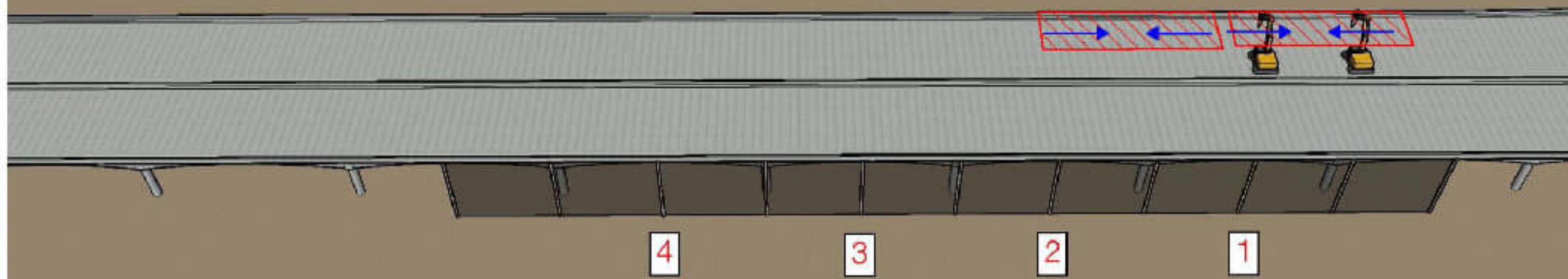
## WHAT IS A VIADUCT?

*vi·a·duct* A viaduct is a specific type of bridge that consists of a series of arches, piers or columns supporting a long, elevated railway or road.

**Kiewit Infrastructure Co. was the award-winning contractor for the viaduct demolition in Seattle, Washington in 2019.**

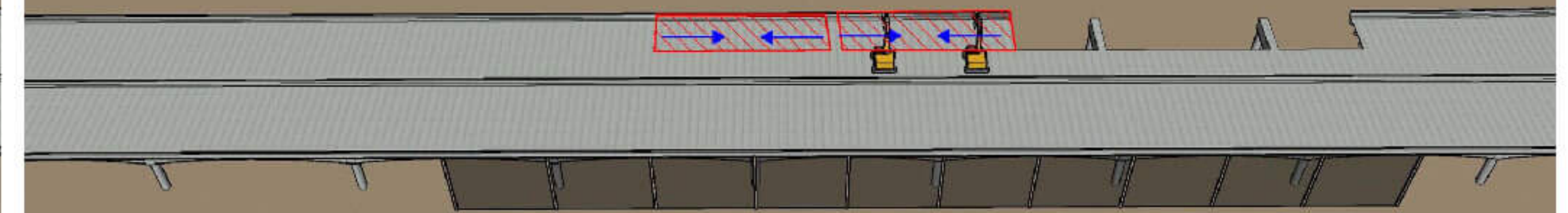
# STEPS OF VIADUCT DEMOLITION

1



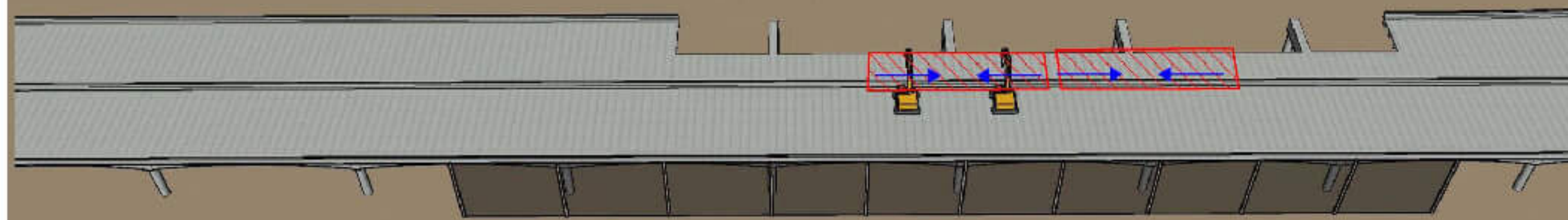
Two Cat 335s removing deck and girders from the top of viaduct. Working from the middle span back toward the pier caps. Southern protection barrier is set up in the four-to-five span “demolition zone” as needed when in close proximity to buildings.

2



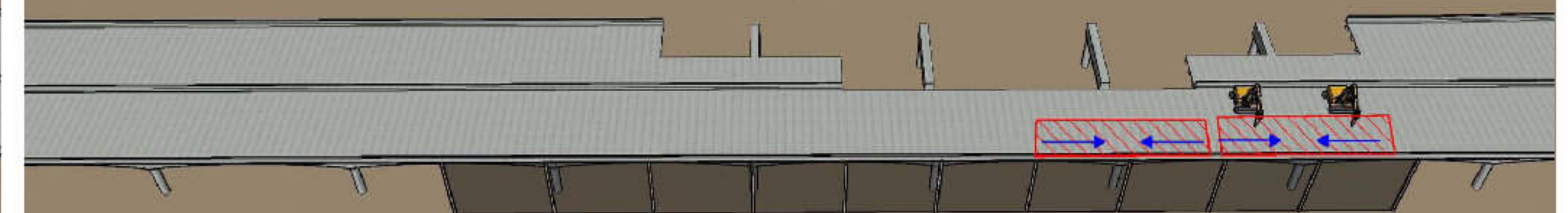
Two Cat 335s continue removing deck and girders (bridge beams).

3



Two Cat 335s continue removing deck and girders (bridge beams).

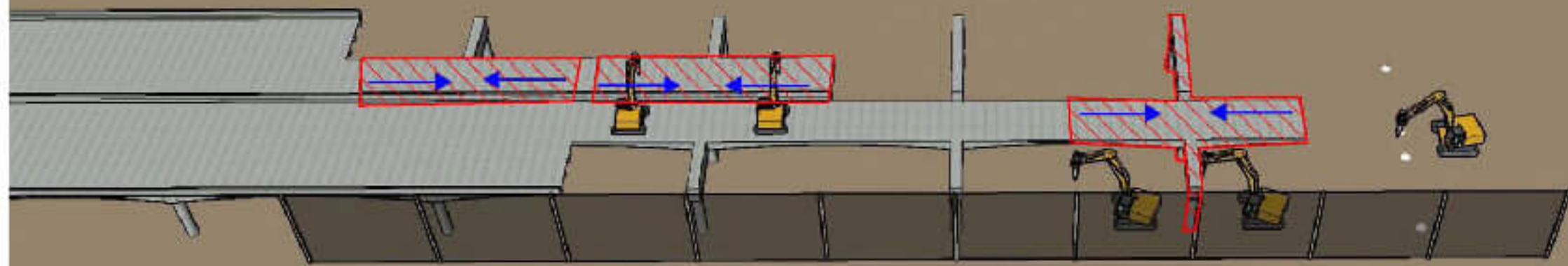
4



Two Cat 335s continue removing deck and girders (bridge beams).

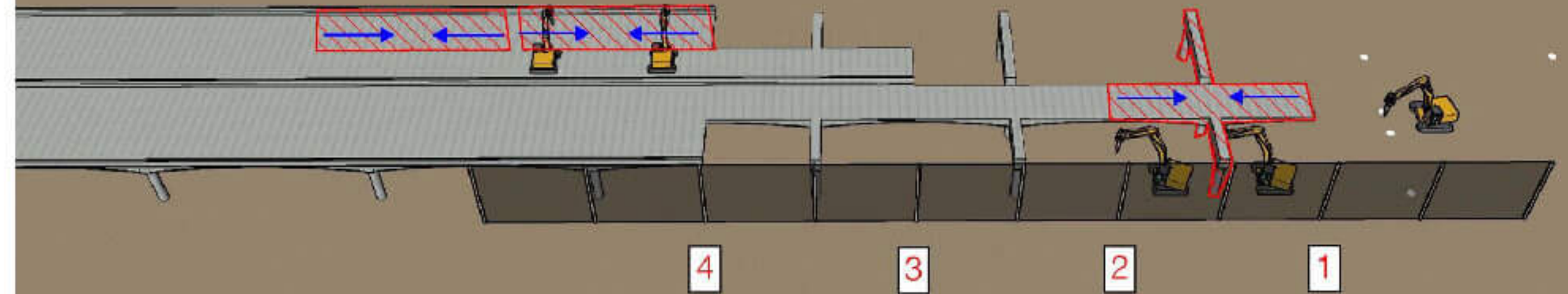
# STEPS OF VIADUCT DEMOLITION

5



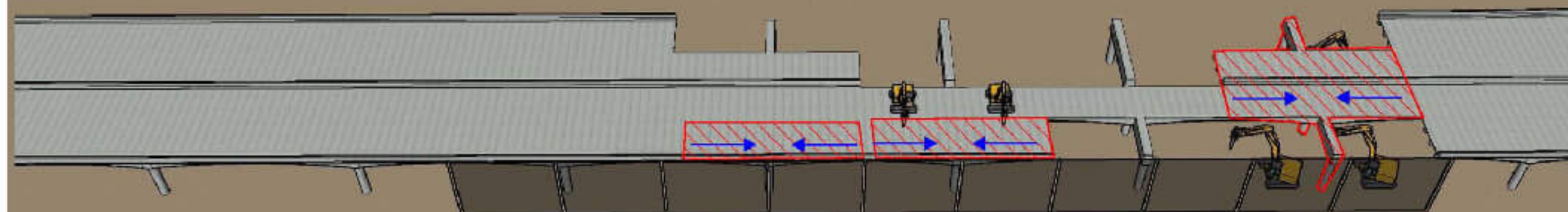
Once the top excavators (the Cat 335s mentioned above) have removed as much from the top as possible, the bottom three excavators will begin to remove the remaining superstructure (from middle span in) and substructure.

6



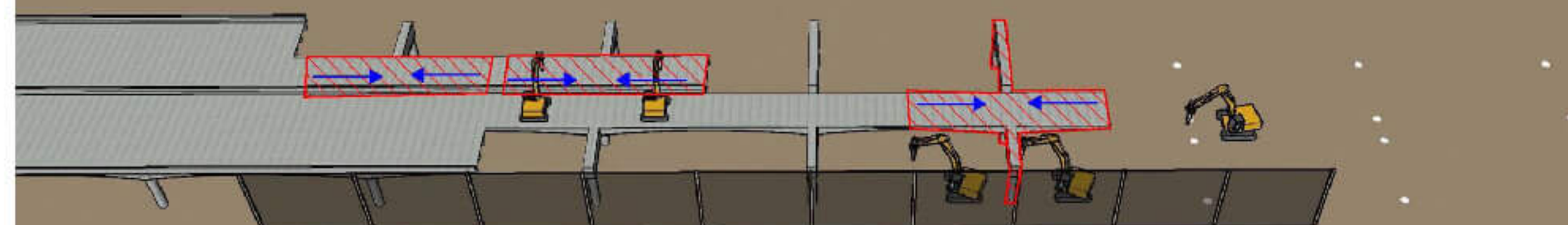
Continue to remove from the top and ground levels.

7



Cycle repeats. The protection barrier moves ahead when the ground excavators have processed and loaded out the material. Maintaining the four-to-five span “demolition zone”.

8



Continue to remove from the top and ground levels.

During demolition activities, protective netting will be installed along the south side of the viaduct to protect residents, businesses and the general public from falling debris. The netting will be installed directly adjacent to the demolition zone and move with the operation.

## **DID YOU KNOW?**

You can follow our progress and demolition schedule on our website. Scan the QR code to your right with your smartphone camera to visit [c70.codot.gov](https://c70.codot.gov).

