Compressors
Purpose: Run all pneumatic tools
Used during the demolition of existing structures and rehabilitation of the streets and alleys. These provide the forced air that runs pneumatic tools, e.g., jack hammers and small drills.

Drill Rigs
Purpose: Drill deep foundation shafts
Used to drill foundation shafts needed to support the new track structure. The shafts will range from 4 to 6 feet wide and depths ranging from 50 to 80 feet deep.

Skid Steer Loaders
Purpose: Roadway and pavement removal and replacement
Used during roadway and pavement removal and replacement.

Telescopic Crane
Purpose: Heavy Hoisting
Used to lift materials, such as drilled shaft rebar cages and girder components.
Excavators
Purpose: Earth work
Used for all earth work, e.g. digging foundations, dirt removal, sewer installations, and demolition of existing steel structures.

Rough Terrain Crane
Purpose: Hoisting
Used for steel erection, slab installation, track work, and to assist with drilled foundation work, as well as forming and pouring of new foundations and piers.

Vibratory Sheet Installer
Purpose: Sheet pile installation
Used to install and remove sheet piling into the existing embankment to hold the structure in place while construction ramps are built and in use. Ramps will be used so equipment can safely and easily be moved up onto the existing track structure.

Wheel Loaders
Purpose: Dirt removal
Used for foundation work and demolition of existing structures. Removes dirt from site and moves materials around site.
Overhead Launching Gantry

Purpose: Erection of concrete box girder track structure
Why: Substantially reduces the construction impact area.

The gantry assembly is constructed in two sections to cater to the length and height of the track structure.
It will be supported by the main structure and the rail and will be self-propelled.

Loading Bay Gantry

Purpose: Lift concrete segments off the truck and on to the segment transporter on the bridge deck

At any one time, the gantry is a fully closed box structure. Concrete segments are lifted off the transporter and into the segment transporter, which then carries the segments to the launching gantry. The gantry has gantry rail movable, allowing container location at a fixed location on the bridge gantry in the safe position. The gantry can be extended laterally.

Approach that reduces impacts

By using the specialised gantry, the construction impact zone is reduced substantially. The large gantry assembly on the bridge gantry may result in a large structure, reducing the size of the impact area during construction and minimising impacts on the public and CTA services.