Idle City Builder

Modern Era Building Steps

Phase (Preparation and Leveling)

Machines required:

Bulldozer – For **house** and **road** **(clears land of trees, debris and uneven texture).**

Grader – For **house** and **road** (Clears left over **pieces** and levels land, readying it for construction)

Dumper – For **house** and **road** (brings **2** materials: **Bricks** and **Gravel)**

Steps:

→ Clear land with **bulldozer (Animation required)** (**see image A**)

→ Collect debris **pieces** and even out land with **grader (Animation required) (see image B)**

→ Assign area to **building** and **road** with plain land **(image C)**

→ **1** Dumper dumps **gravel** on road area **(see image D)** **(Animation)** 🟢

→ **1** Dumper dumps **bricks** near building area **(see image D)** **(Animation)** 🟢

→ **Workers place bricks and finish wall structure (Animation)** 🟢

Note:
Machine movement path will be as X to Y as labelled in mock up. X is starting while Y is finishing one loop

🟢 **These animations will be played simultaneously.**

Bulldozer

Grader
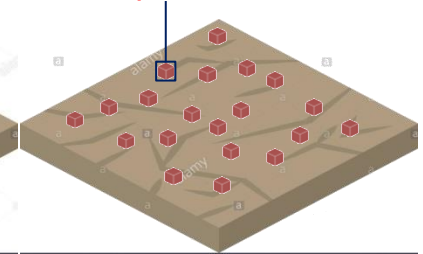
Dumper with bricks

Dumper with gravel

Uneven surface (rocks, trees etc.)

Clear land with bulldozer

Image A

Left over pieces to be collected
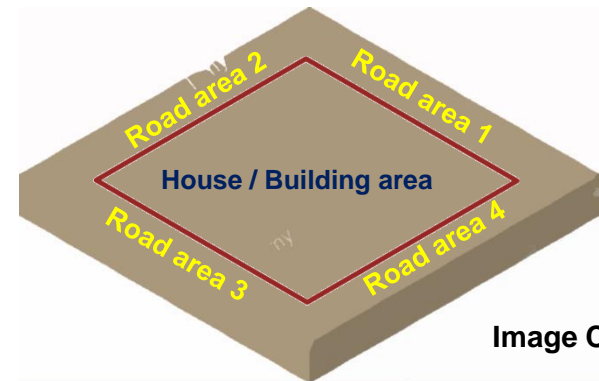
Collect and even with grader

Image B

Road area 2 — Road area 1 — Road area 3 — Road area 4 — **House / Building area**

Image C

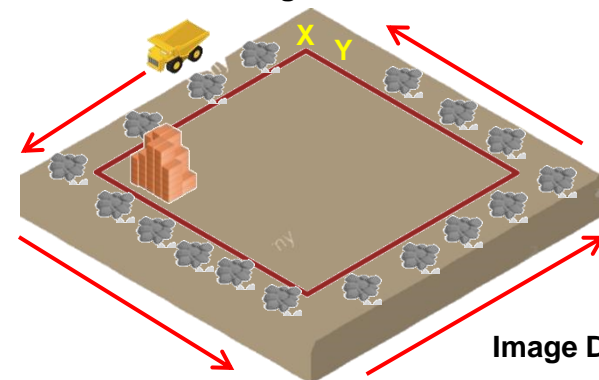**Area cleared and assigned to road and building**

X Y

Image D

Materials Laid down for usage

Phase (Building and Paving)

Machines required:

Crane – For house (Takes **steel rods** and places on **roof of wall**)

Paver – For road (**Smoothen** out road and apply **asphalt**)

Concrete Mixer – For house (mixes and applies **concrete** to **walls** and **roof**)

Concrete pump machine – For house roof and walls (A **pipe machine** that applies **concrete** to **roof**)

Dumper (optional) – For house (brings in the material **steel rods**)

Steps:

→ **Dumper comes in with steel rods (optional to show this. Can just spawn rods after wall is done?)** **(Animation)** **(see image A)**

→ **Start crane to transfer steel rods on the roof of the walls** **(Animation)** **(See image A)** ⚙

→ **Road paver starts it's route to smoothen out the road gravel / asphalt** **(Animation)** **(See image A)** ⚙

→ **When steel rods done, concrete mixer applies concrete on roof and walls with a concrete pump machine** **(show mixer spinning animation)** **(See image B)**

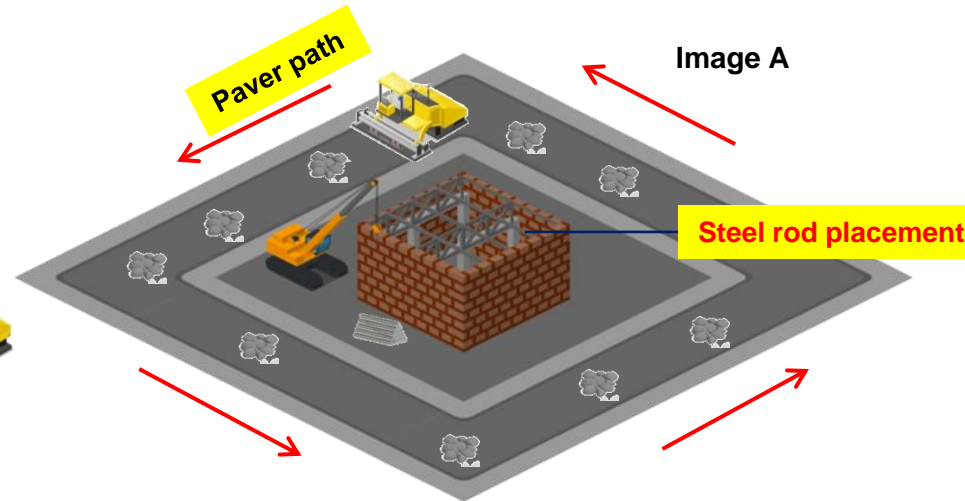⚙ **These animations will be played simultaneously.**

Crane
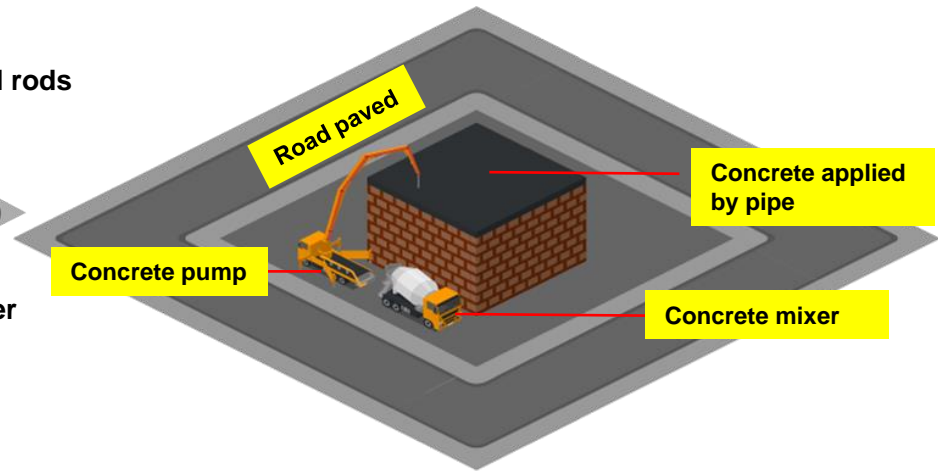
Road paver

Dumper with steel rods

Concrete mixer

Concrete pump machine

Image A — **Paver path** — **Steel rod placement**

Pave road (apply asphalt) and reinforce steel

Road paved — **Concrete applied by pipe** — **Concrete pump** — **Concrete mixer**

Apply concrete to roof and walls

Image B

Phase (Finalize the area)

Machines required:

Plaster spraying machine – for house (applies final plaster and finishes building)

Road roller - For road (comes in **after** paver and finalizes the road)

Paint rollers – For house (workers will completely paint the building

Glass handler – Installs glass **(optional)** (can just show glass without animation)

Steps:

→ **Workers spray the walls with plaster (Animation)**

→ **Road roller finishes the road and leaves a finished road look (one loop to smoothen out asphalt) (comes after paver) (See image A)**

→ **Workers paint the house (Animation) (See image A)**

→ **Glass container installs glass in the building (Animation) (this step can be optional)**
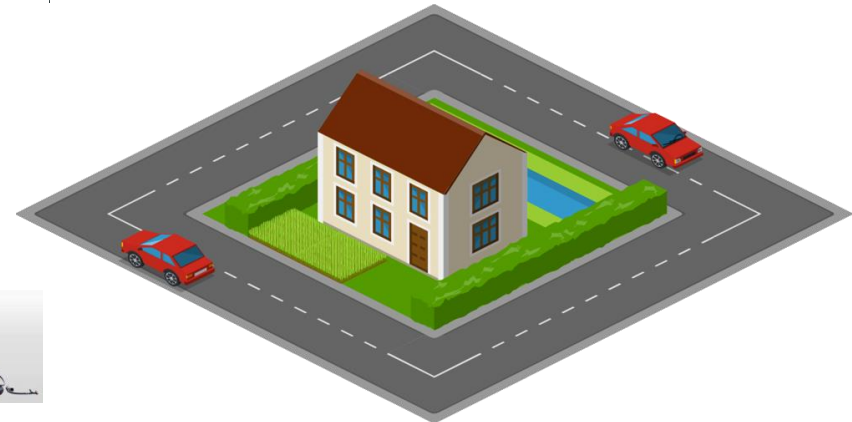
→ **Finish area**
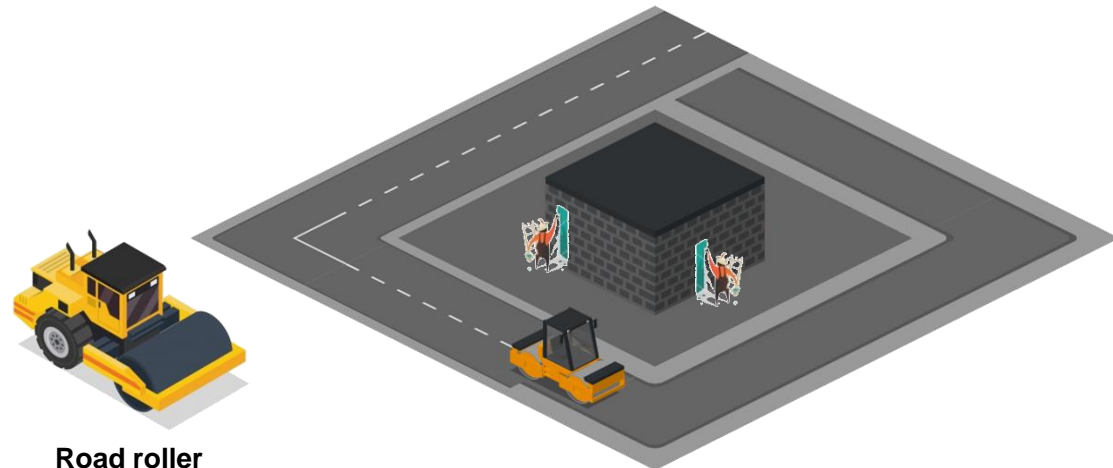
Road roller

Glass handler

Paint roller

Plaster machine

Finished area concept

Steps for flyover

Machines required:

Hydraulic rig – for digging steel cages **(comes and makes pile for steel cages to be installed)**

Crane – lowers steel cages in the pile

**Tremie pipe and hopper** – for filling the steel cage with concrete

Concrete mixer

**Excavator** – breaks pile and ready's it for pier construction

**Dumper** – brings in material concrete girder

Steps:

→ **Hydraulic rig** comes in and makes a **hole** or **pile** in the ground.

→ Empty **piles** will be installed with **steel cages** lowered with a **crane**

→ **Optional animation (Tremie pipe and hopper installed in the pile) (this is how the concrete falls in place)**

→ **Concrete mixer pours concrete in the piles**

→ **Excavator** comes in and destroys the **pile cap (leaves only the hardened concrete behind)**

→ **Apply steel cage on pile cap**

→ **Make piers with concrete**

→ **Dumper comes in with concrete girders**

→ **Crane lowers the girders on top of piers**

→ **Animation for steel cage for road structure on bridge**

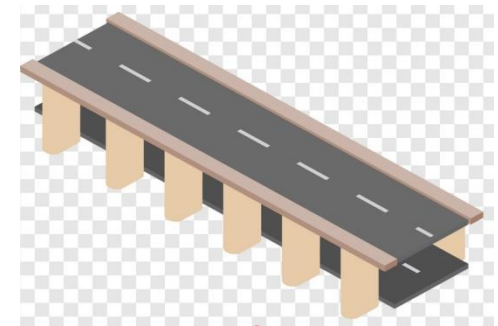→ **Finish flyover with concrete sheet and road and rail**
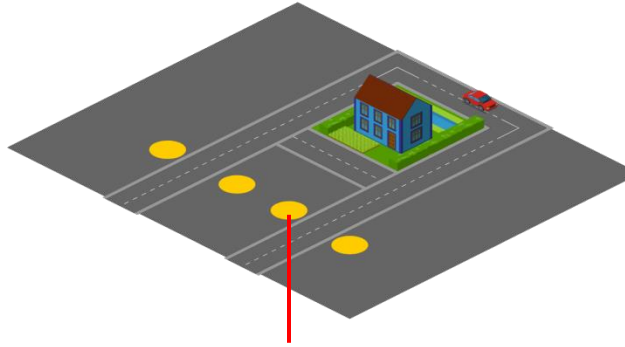
Pier holes filled with concrete and steel cage
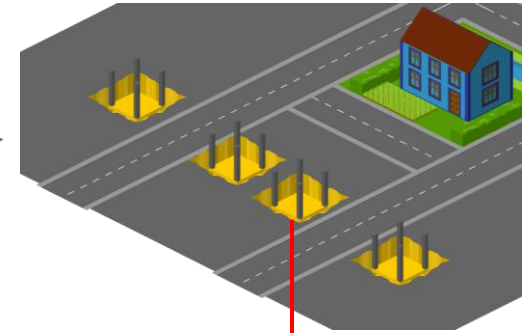
Excavator destroys pile cap and pier skeleton is created

Flyover Skeleton

Piers
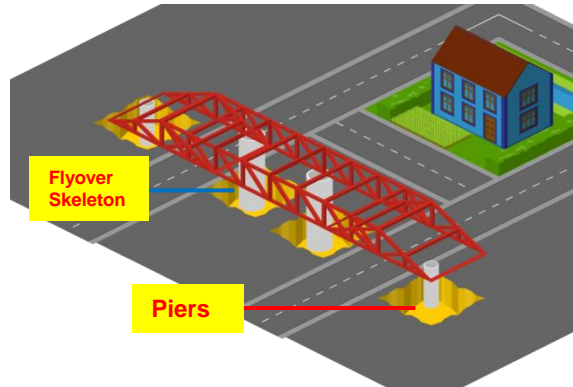
Finished

Top part steel is placed with crane and then concrete is added for final look

Hydraulic rig

Crane

Concrete mixer

TREMIE PIPE

STEEL CAGE
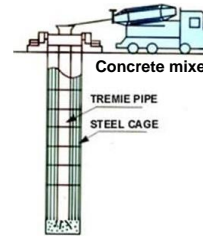
Tremie pipe filling

Excavator

Dumper with concrete beams