

Design Specification

3D modelling software will be utilized to build the kitchen environment and appliances.

Client Profile: Patients with multiple sclerosis (MS) in wheelchairs (major impairment in locomotion), requiring accessibility in the kitchen.

The general kitchen and components will comply with organization guidelines for wheelchair accessibility, such as the Americans with Disabilities Act (ADA) standards.

The kitchen will be about 616 inches by 484 inches.

There will be two kitchen doors, both sufficiently wide to accommodate mobility devices like wheelchairs (35 inches). They will be situated on opposite walls connecting to different rooms. The door will be able to hinge 120 degrees.

The kitchen will ensure adequate space for maneuverability, with wider aisles (48 inches). Kitchen aisles will be clear of any obstruction from other kitchen components and appliances to make room for wheelchairs. It will also include lower countertop heights (30 inches) for comfortable reach.

There will be multiple countertops and the kitchen will possess an open feeling; several countertops in the middle and appliances near the walls.

A roll-under sink with knee clearance and lever handles will be installed.

Cabinets will be lower for accessible reach.