

# WHITE PAPER

CITIZENS BANK

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# OVERVIEW OF CHALLENGE IN THE PROJECT

Citizens Bank – one of the largest banks in the USA was planning to open a new branch in an existing commercial building in Marshfield, Massachusetts. The place was a compact white box space with existing electrical, water, and sanitary services provided by the base building.

We faced three main challenges while designing this commercial project-

- 1.The client was looking for a low-cost design by utilizing the existing services and existing rooftop unit provided by the base building.
- 2.Design the MEP system by running the services from the existing service location to the new space, keeping the other existing commercial stores in operation.
- 3.To fit the MEP system equipment in a limited space.

While going over the floor plan and the building's electrical power plans, we also realized that the existing electrical service was undersized considering the new Citizen bank's power requirements.

**YOUR ONE STOP  
SHOP FOR ALL  
MEP DESIGN  
NEEDS**

**DESIGNED &  
CONCEPTUALIZED BY**  
NY-ENGINEERS

# OUR CUSTOM SOLUTION

Our team of design experts with vast experience in designing commercial projects found the best possible routing for the sanitary and domestic water piping without affecting the operations of other stores. Existing ductwork was utilized to save cost.

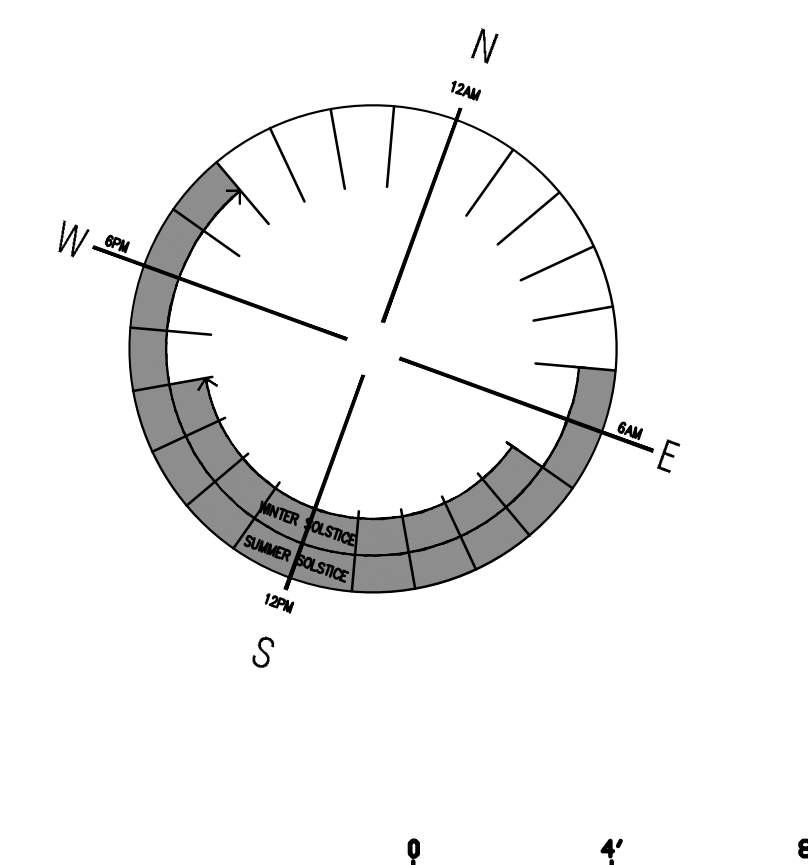
Heating and cooling load, domestic water, sanitary, and electrical power load were calculated and satisfied within available existing load and rooftop unit in compliance with all local and energy conservation requirements. A compact ceiling-mounted water heater was provided to fit in a small space and avoid additional space requirements.

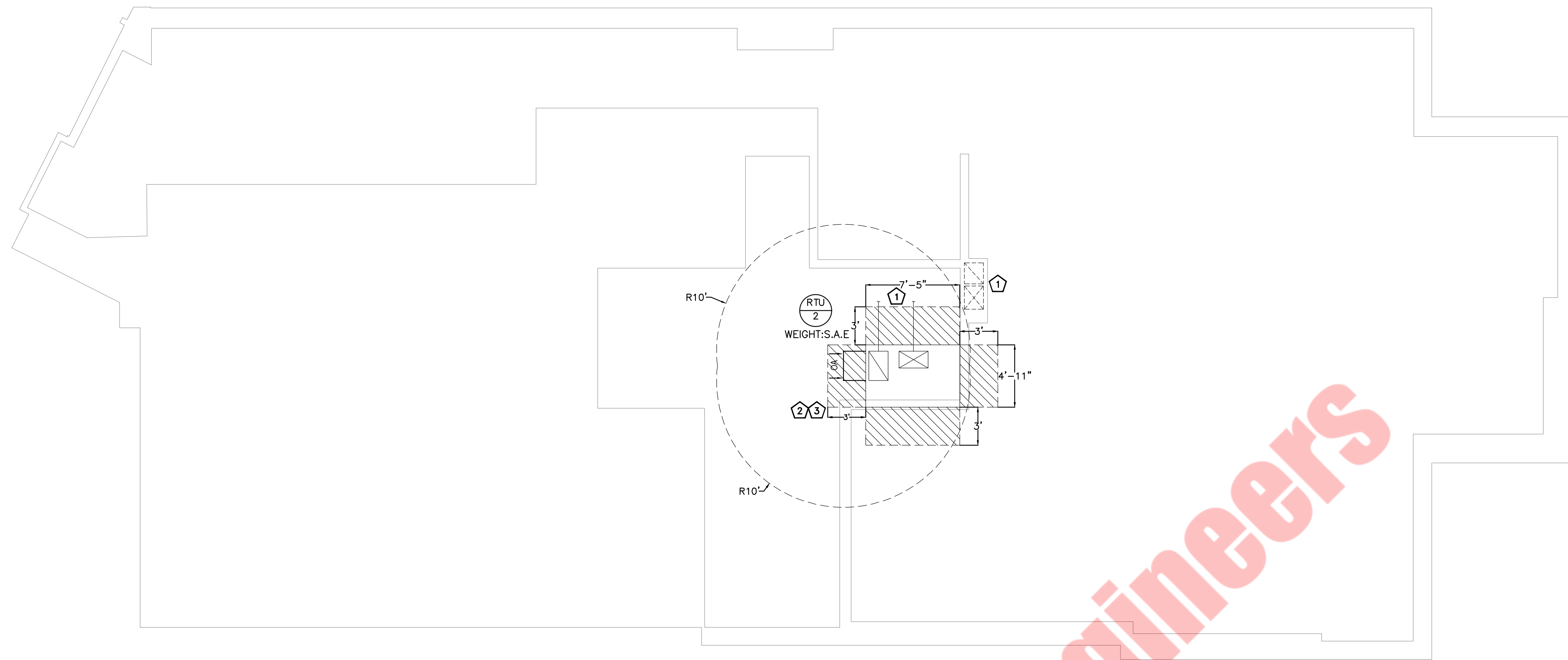
We saved the cost and time for the client by providing a quick, low-cost, and clash-free design within 2 weeks resulting in a quick construction of the Citizens bank.

**Area -** 3,500 Sq. Ft.

**Services Used -** Electrical &  
Plumbing Fire Protection







**KEY NOTES:**

- ① EXISTING DUCTWORK FROM THE SHAFT TO BE REMAIN SAME AND TO BE REUSED. CONTRACTOR TO FIELD VERIFY.
- ② CONTRACTOR TO FIELD VERIFY EXACT LOCATION OF AN EXISTING RTU.
- ③ ALL FRESH AIR INTAKES SHALL BE LOCATED A MINIMUM OF 10' FROM ANY SANITARY VENT, EXHAUST FAN DISCHARGE AND FLUE OF OTHER GAS FIRED EQUIPMENT, WHEN NECESSARY, EXTEND VENT OR PROVIDE ADDITIONAL FRESH AIR INTAKE DUCTWORK AS DIRECTED BY THE ENGINEER.

