SUCCESS STORY

EXCAVATION PROJECT

WILLIAM ECKHARDT RESEARCH CENTER

PROBLEM

Client needed to excavate a 65' deep hole on a 55,000 square foot lot on an urban university campus while providing minimal impact to the surrounding neighborhood.

SOLUTION

- JKC worked directly with the earth retention design-build team to develop a streamlined, cost-effective diaphragm/slurry cut-off wall with a sequenced excavation process
- This process showcased our late-modeled, long reach equipment, allowing the mass excavation in thicker layers that maximized external tie-back and excavation production while minimizing internal bracing requirements.

IMPACT

- As a single earth retention and excavation team, the process streamlined communication, maximizing production and minimizing impact to the surrounding university community from trucking operations
- The proposed slurry wall acted as the final deep foundation, eliminating the need for traditional below grade cast-in-place concrete foundations
- The unique contract model eliminated scope gap concerns for the general contractor, allowing them to focus on the rest of the project

DETAILS

WORK

Mass structural excavation for a research center with over 120,000 cubic yards of offsite soil disposal, including surrounding site work, temporary roads, and aggregate placement for pro-posed concrete slabs

LOCATION

5640 S. Ellis Avenue, Chicago, IL

BUDGET

$4,375,000

OWNER

University of Chicago

GENERAL CONTRACTOR

W.E. O'Neill Construction