

2850 Telegraph Avenue

Location: Berkeley, California

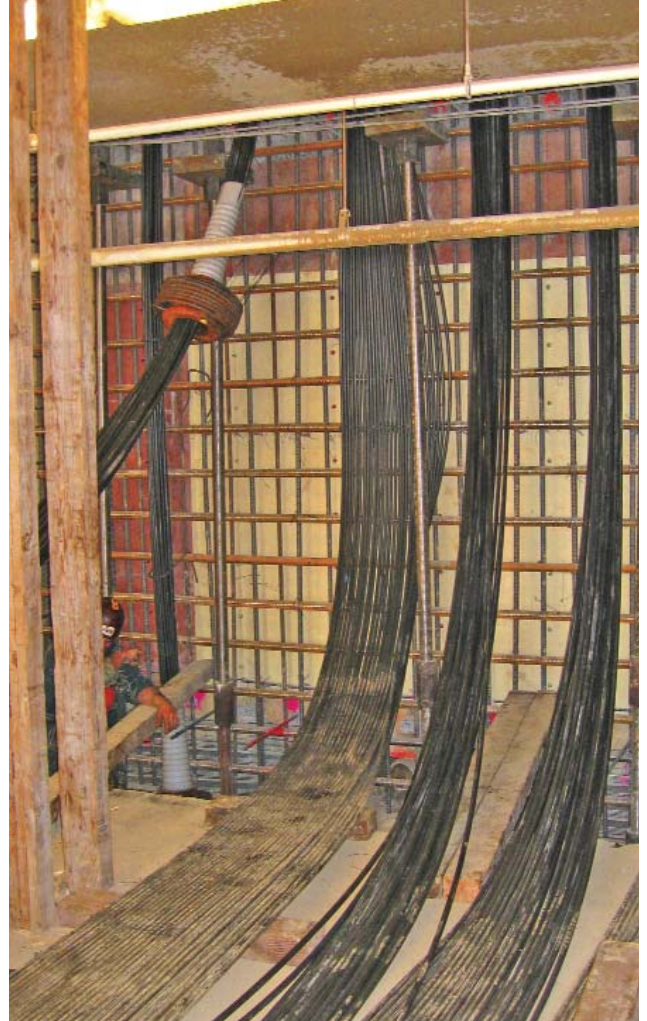
Submitted by: Tipping Mar & Associates

Owner: Seagate Properties

Engineer(s): Tipping Mar & Associates

Contractor: West Builders

P/T Supplier: DYWIDAG-Systems International, USA



Overview:

The seismic rehabilitation of a six-story medical office building in Berkeley, California presented numerous architectural and economic demands. As such, the design team developed a cost-effective plan incorporating a system of hybrid post-tensioned concrete walls that provide superior seismic performance and that functionally integrate within the building to maximize the value and flexibility of the space. The solution, consisting of four symmetrically arranged 2-foot, 6-inch-thick by 20-foot-long walls, blends the inherent advantages of reinforced concrete wall construction with the strength and elasticity provided by the vertically arranged post-tensioning tendons to resist seismic forces. The innovative solution reduced the intrusion of structural elements in the building's usable space while utilizing traditional methods of cost-effective concrete construction.