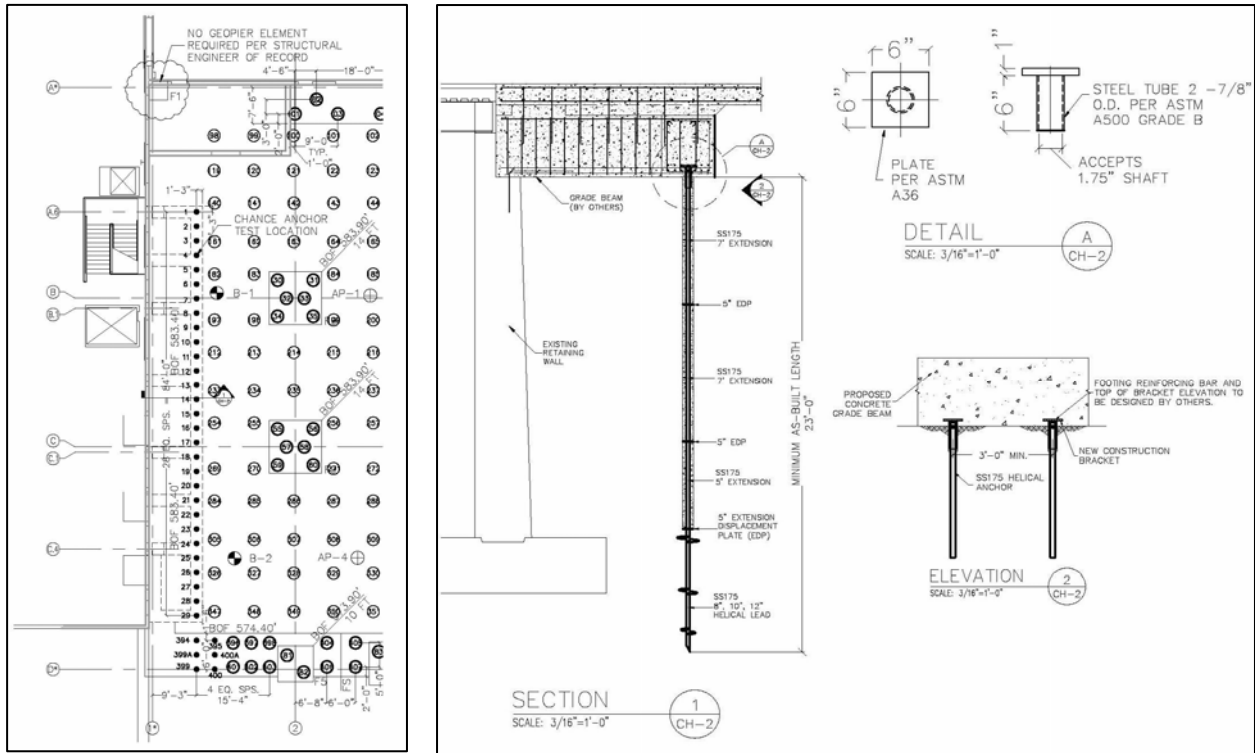


A2 Warehouse Addition – Helical Piles

East Penn Manufacturing Company, Inc. - Deka Road, Lyon Station, PA 19536



Project Description: East Penn Manufacturing constructed a 24,000 square-foot high-bay battery storage warehouse addition adjacent to two existing buildings. Dual 4ft by 8ft storage racks were to be installed which resulted in floor slab loads in excess of 2000 psf. No additional load could be exerted on an adjacent 17-ft deep basement wall and footing. A special north-south grade beam system and cantilevered exterior wall footing was designed to transfer load to supporting soils below the existing basement wall foundations. A total of 35 AB Chance Pulldown Micropiles were installed to a minimum depth of 25-ft in conjunction with Geopier Intermediate Foundations to provide foundation and floor slab support adjacent to the existing warehouse basement.



Owner: East Penn Manufacturing Company, Inc., Lyon Station PA
Helical Pile Contractor: GeoConstructors, Inc., Purcellville VA
Structural Engineer: Barry Isett & Associates, Inc., Trexlertown PA
Geotechnical Engineer: Earth Engineering Inc., East Norriton PA

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