

Sangre de Cristo Arts Center Site Remediation Recommendations



SOILS *(Four Layer subsurface)*

- 6'-9' – FINE GRAINED CLAY SAND (*colluvium*)
- 9'-12' – THIN CLAY SUBSTRATE (*colluvium*)
- 8'-11' – TOP OF ARKANSAS RIVER/FOUNTAIN CREEK TERRACE (*alluvial*)
- 29' – PIERRE SHALE, BEDROCK, DENSE (*alluvial*)



RECOMMENDATION

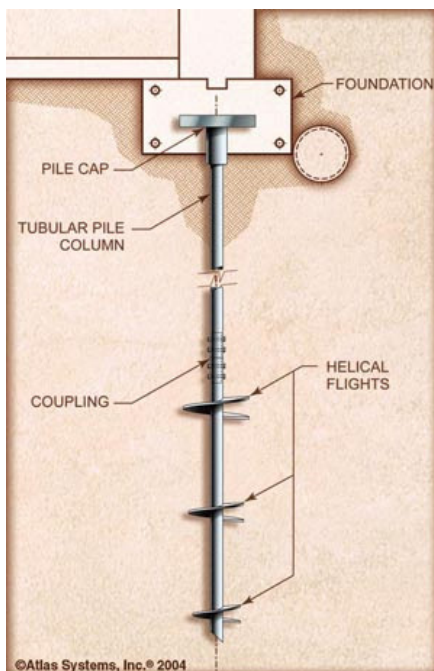
Subsurface alluvial deposits provide excellent lateral stability. Site compacted to 95% of Proctor Density ASTM D-698 for conformance with the design.

Source: Lincoln DeVore, Inc. Pueblo, Colorado Exploration Drilling report May 11, 1972 Initial four bore samples. Updated: Lincoln DeVore, Inc. Pueblo, Colorado Exploration Drilling report February 7, 1992 – Subsequent four bore samples. No significant changes.

SUBSURFACE SOIL CONDITIONS

Colluvium – a loose accumulation of rock and soil debris at the foot of a slope.

Alluvial – soil clay, silt or gravel deposited by flowing water.



ATRIUM SITE REMEDIATION

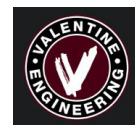
Site located at the southeast corner of the intersection Center City Drive and Santa Fe Avenue in Pueblo, Colorado within the central business district. Topography of the site is relatively level, drainage in the area is controlled by the street system around the site, with local drainage controlled by the streets. In general, overall drainage in the area is toward the south and east into the Arkansas River. Surface drainage is good, subsurface drainage ranged from fair to good.

Atrium is independently load bearing from current campus build out. Construction includes 40 supporting pillars driven to 29' Pierre Shale intersection.

Source: HGF Architects, Valentine Engineering Design/Construction 2020

RECOMMENDATION

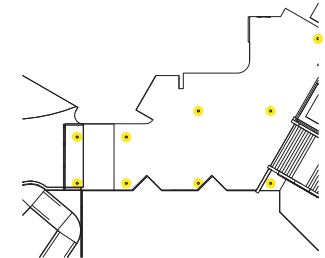
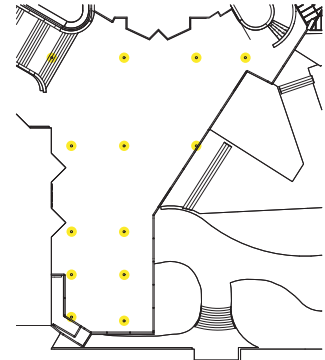
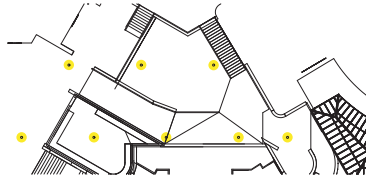
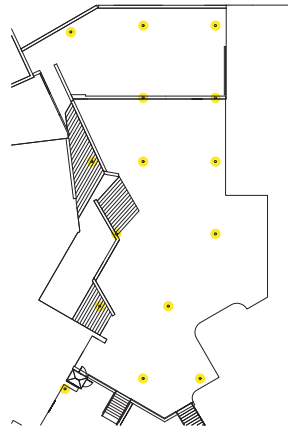
- 40 Helical Piers
SITE STABILITY
- 40 Supporting Pillars
LOAD DISBURSEMENT
& STABILITY



PIER LOCATIONS *(estimates)*



NOTE:
DRAWINGS SHOW APPROXIMATE LOCATION OF
PILLARS ONLY FOR SCHEMATIC DESIGN
INDICATED BY THIS SYMBOL: ●



PIER LOCATIONS *(interior rendering estimates)*

