Project Profile: SHAFT CONSTRUCTION

BRADSHAW CONSTRUCTION CORPORATION TUNNELING SPECIALISTS

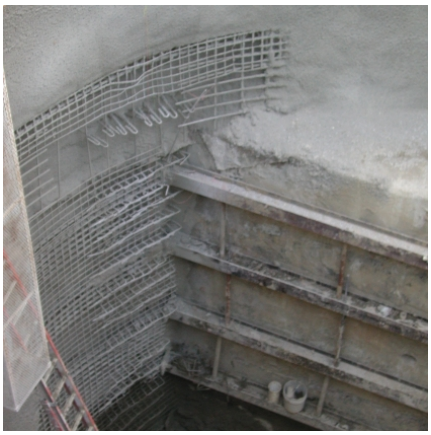
Pentagon Metro Entrance Facility
Washington, DC



PROJECT OVERVIEW AND CHALLENGES

The Metro Entrance Facility was a security-driven project designed to eliminate the direct entry to the Pentagon from the Metro tunnel and provide a secure screening facility for Pentagon visitors. As part of the project, a 50' deep elevator was constructed between the existing underground station and connecting to the existing escalator passage for handicap access. Bradshaw was selected to design-build the unique elevator shaft. Teamed up with Jenny Engineering, who designed the eccentric shaft, Bradshaw excavated & supported the sand & gravel deposits with a 34' diameter SEM type shaft using lattice girders, wire mesh & shotcrete. The shaft was truncated on either side as it was excavated against the existing station and escalator passage requiring heavy beams and extra shotcrete.





PROJECT INFORMATION - 388

OWNER:
Pentagon Renovation Office
Wendy Thompson
703.693.8965

ENGINEER:
Jenny Engineering
Prakash Donde
973.379.6699

CONTRACTOR:
Hensel Phelps

COMPLETION DATE:
3/22/2002

GEOLOGY:
Sand, Gravel

EXCAVATION METHOD:
SEM/NATM

MINING DIMENSIONS:
34' Ø x 50VF

FINAL LINING:
N/A

FOR MORE INFORMATION:
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Refer to Project 388