Project Profile: SHAFT CONSTRUCTION

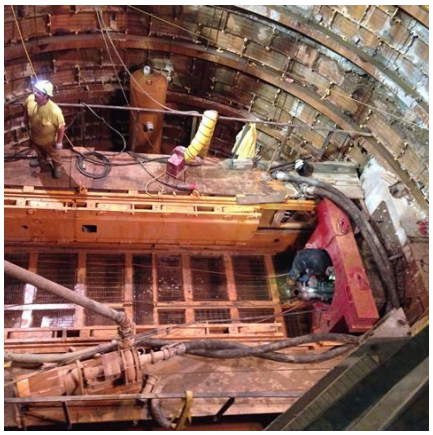
BRADSHAW CONSTRUCTION CORPORATION
TUNNELING SPECIALISTS

36" Southwest Transmission Main Relocation
Elkridge, MD



PROJECT OVERVIEW AND CHALLENGES

Bradshaw Construction microtunneled 380 linear feet of 60 inch steel casing under I-195 in Elkridge, MD. The subsurface conditions consisted of silt, sand, and gravel below the groundwater table. Bradshaw also installed two 32' OD liner plate shafts to depths of 24 VF & 32 VF for the launch & receiving shafts. The 36" PCCP carrier pipe was installed with the assistance of the general contractor, who made the pipe connections in the jacking shaft. The mining was performed on a 24/7 basis as required. The major challenge was in the installation of the jacking pipe, which weighed approximately 14,000 lb per joint.





PROJECT INFORMATION - 549

OWNER:
Howard County
Department of Public Works
Daniel Davis
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ENGINEER:
O'Brien & Gere
Louis Ragozzino
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CONTRACTOR:
Marona Construction Company

COMPLETION DATE:
8/20/2015

GEOLOGY:
Sand, Silt, Gravel

EXCAVATION METHOD:
Herrenknecht AVN-1200 MTBM

MINING DIMENSIONS:
32' Ø x 30' VF

FINAL LINING:
Liner Plate

FOR MORE INFORMATION:
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Refer to Project 549