Aberdeen Proving Ground Utility Privatization, Maryland

Superstorm Sandy Recovery, New York, NY

Philadelphia Navy Yard, Philadelphia, PA

NJTA 1-4 Widening Program, New Jersey

Post Storm Isabel Flood Mitigation Master Plan, MD

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At **mcfa** we believe Resilience Planning begins with an expanded view of the impact zone that likely includes additional areas beyond the ownership or jurisdictional boundaries and involves stakeholders equally invested in mitigating situations that can and will cause future damage. **mcfa** helps clients develop strategies to enhance sustainability as well as identify potential climate-related, storm, and flooding risks and how to mitigate them to become more resilient.

mcfa Certifications: SDVOSB - Department of Veteran's Affairs | DVOB + SBE + VOB - New Jersey | VBE - Pennsylvania | VSBE - Maryland | SDVOB - Port Authority of New York and New Jersey | SDVOB - New York | SWAM - Virginia

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CONSTRUCTION MANAGEMENT

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Project 1


Construction Management at The Navy Yard, *Philadelphia, PA*

ISSUE:	SOLUTION:	RESULTS:
Aging Infrastructure reached the end of its lifecycle at The Navy Yard which included insufficient electrical load capacity.	**mcfa** personnel provided planning, environmental permitting, and construction oversight of a sophisticated and time-critical utility distribution modification project. The project consisted of a large number of environmental and utility service continuity improvement projects integrated into a historic waterfront site.	**mcfa** delivered the best possible project outcome to the Navy and PIDC. The additional electrical load capacity will support Navy Yard's expansion and utility resiliency well into the future.

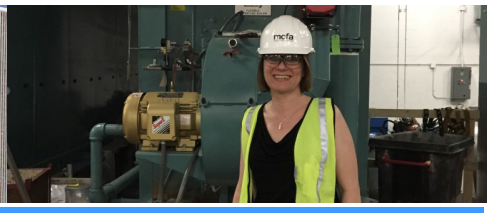
Project 2


Aberdeen Proving Ground Utility Privatization, *Maryland*

ISSUE:	SOLUTION:	RESULTS:
APG Department of Public Works (DPW) was facing aging infrastructure and was in dire need for upgrade installations.	**mcfa** provided on-site CM services in support of the Department of Public Works (DPW) and provided oversight of the utility contractor's efforts, coordination with tenants, and missions to minimize disruptions and outages during construction.	**mcfa** worked on the $300 million project to ensure adherence to schedule and budget. The project provided updated infrastructure throughout the APG campus and allow APG to expand and grow its facilities and services.

Project 3

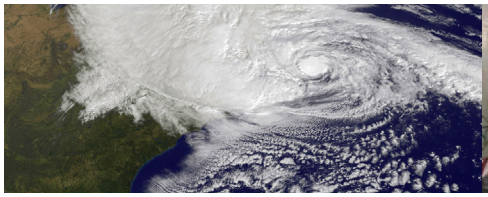




Construction Management for Energy Savings Contracts, *IL, MI, OH*

ISSUE:	SOLUTION:	RESULTS:
GSA Region 5 was challenged with meeting administration Energy Savings policy goals and executing a "Deep Energy Retrofits" Program.	**mcfa** was engaged as Construction Manager as Agent to oversee procurement, negotiation, design review and construction management of $100 million in energy conservation measures and infrastructure upgrades and facilitated and coordinated the actions and activities of all project stakeholders.	**mcfa** delivered the program on time inside of fully tenanted/ occupied buildings and coordinated requirements between GSA (Facility Owner) and DOE (Contracting Agency) and 3 different ESCOs.

Project 4



Superstorm Sandy Recovery Plan, *New York, NY*

ISSUE:

Port Authority of New York and New Jersey (PANYNJ) sought a Super Storm Sandy recovery strategy plan, environmental assessments, and future storm damage prevention plan for key PANYNJ assets across all the agency's business lines.

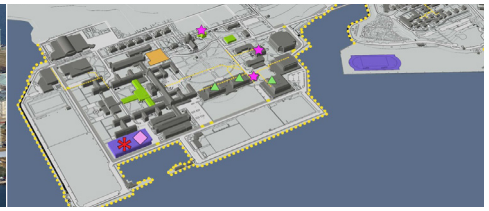
SOLUTION:

mcfa recovery experts held discovery meetings with Authority staff from Business Line Departments, facilities operations, engineering, and maintenance personnel. The meetings focused on operational details, challenges, and needed repairs to put infrastructure back into safe operation until permanent repairs could be made.

RESULTS:

mcfa personnel successfully served as environmental planners and sustainable design and resilience subject matter experts and developed a strategy and approach to maximize FEMA funding and guidelines for full recovery under the Sandy Recovery Program following the Sandy event.

Project 5



Post Tropical Storm Isabel Flood Mitigation Master Plan, *Annapolis, MD*

ISSUE:

U.S. Naval Academy looked to address deficiencies and problems arising from flooding with a focus on recovery efforts and future hurricane protection projects.

SOLUTION:

mcfa personnel supported the recovery of the Naval Academy following flooding from the storm surge of Tropical Storm Isabel. To better protect the facility in the future, planners recommended construction of flood-walls, removable gates, and berms to protect the campus.

RESULTS:

mcfa was successful in working with a special Steering Group of USNA facilities planning staff to address deficiencies and problems arising from the flooding with a focus on recovery efforts and future hurricane protection projects.

Project 6

Energy Assurance Master Plan - Joint Base McGuire-Dix-Lakehurst, *NJ*

ISSUE:

Create a 30 day utility resiliency capability to enable robust disaster response and recovery support to Philadelphia and New York City by key missions such as, law enforcement, U.S. Coast Guard, FEMA, and other emergency response entities.

SOLUTION:

mcfa, applied its experience with Federal Government P3 authorities and used its contacts within the energy industry and New Jersey regulatory authorities to coordinate a comprehensive and attractive business opportunity which benefits the DoD, private industry, and the State.

RESULTS:

mcfa successfully developed an Energy Resilience Assessment and Energy Master Plan for utility distribution and energy generation strategies to make the Base energy resilient in times when normal energy delivery systems are down.

ADDITIONAL PROJECTS

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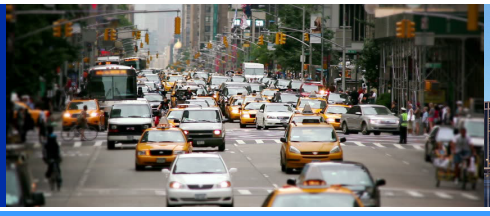
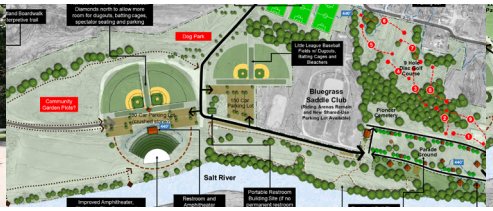
Project 7

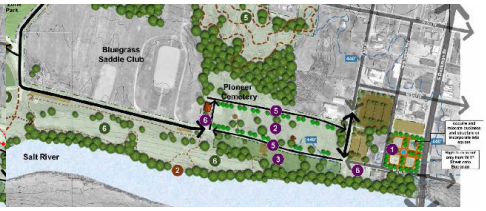


Traffic Engineer: New York City Department of Design and Construction, *NY*

ISSUE:	SOLUTION:	RESULTS:
Minimize disruption to pedestrian and vehicular traffic during pre-construction and construction activities.	Leverage **mcfa.** personnel relationships with NYCDDC to create traffic managements plans and permits that offer flexibility and are adaptive to specific locations and construction requirements and critical construction activity sequencing.	**mcfa** Personnel successfully conducted field surveys, developed vehicular and pedestrian traffic volumes, summarized traffic data, balanced the traffic volumes, conducted detailed intersection and signal timing inventory and performed capacity analysis utilizing HCS for the existing and future conditions.

Project 8





Park Master Plan USACE Civil Works Community Project, *Shepherdsville, KY*

ISSUE:	SOLUTION:	RESULTS:
Create a master plan for the city's approximately 130-acre park that lies adjacent to the City's commercial and civic center. The park is adjacent to a flood plain and often experienced yearly flooding.	**mcfa** to create a master plan to ensure a sustainable future, provide an evaluation of landscape and recommendations on conservation, ecological restoration, and planting strategies that support a healthy ecosystem. Address waterfront access points and types, such as a boat launch.	**mcfa** was successful in creating the Master Plan and also held key meetings with utility providers and stakeholders in an effort to best implement the preferred site's current and future utility and power needs. **mcfa** acted as liaison between the client and the utility provider stakeholders.

Project 9

Glassboro – Camden Light Rail Line EIS, *Camden, NJ*

ISSUE:	SOLUTION:	RESULTS:
Develop an Environmental Impact Statement (EIS) for an 18-mile, 14 station new light rail line project to serve and benefit communities across southern New Jersey.	**mcfa** provided leadership and support in the following areas; community planning, environmental and land/real estate development planning services, project finance, and project implementation strategies.	EIS for the $1.8 billion, 18-mile, 14 station new light rail line was successfully completed. This project received a 2021 Distinguished Engineering Award from the NJ Alliance for Action.

ADDITIONAL PROJECTS

mcfa

Project 10



New Jersey Turnpike Authority (NJTA) 1-4 Widening Program, *NJ*

ISSUE:

NJTA has issued a project to widen the Turnpike to three lanes in each direction from Interchanges 1-4 to help alleviate traffic congestion.

SOLUTION:

mcfa, is providing technical support and field management services for the geotechnical investigation. **mcfa** is acting as the design team's eyes and ears as we investigate the geotechnical profile of the project area.

RESULTS:

A combination of field boring logs and lab analysis of samples will guide the design process, allowing AECOM to improve and recommend suitable foundations for bridges, toll plazas and other structures while ensuring roadway stability.

Project 11

PATCO


DRPA/PATCO Sustainability and Resource Efficiency Plan, *Camden, NJ*

ISSUE:

Delaware River Port Authority (DRPA) and Port Authority Transit Corporation (PATCO) operating 4 major bridges and a 14 mile rapid transit system, was in need of sustainability and resource efficiency consulting services.

SOLUTION:

mcfa performed due diligence on limited previous sustainability planning efforts, provided guidance to sustainability planning, implementation and management, and also performed specific energy and project evaluation tasks.

RESULTS:

mcfa personnel successfully reviewed and updated previous sustainability efforts, current electricity and procurement processes, prepared Sustainability Strategy and Framework and developed an Energy Consumption Baseline; recommended an Energy Tracking System, and evaluated specific energy and conservation projects.

mcfa Services Matrix - **mcfa**'s featured projects exhibit expertise in the following areas:

mcfa Projects / Expertise	Proj.1	Proj.2	Proj.3	Proj.4	Proj.5	Proj.6	Proj.7	Proj.8	Proj.9	Proj.10	Proj. 11
Project Development Plans	✓			✓	✓			✓	✓		✓
Design Reviews			✓	✓							
Utility Coordination/Relocation	✓	✓				✓		✓			
Geotechnical										✓	
Project Controls / Risk Mgt.	✓	✓	✓								
Permitting	✓						✓				
FEMA Certification				✓		✓					
Resiliency/Sustainability	✓	✓	✓	✓	✓	✓		✓			✓
PMP/QMP/DMP/CMP	✓	✓	✓	✓	✓	✓	✓	✓		✓	
Traffic Engineering / MOT							✓			✓	
Public/Stakeholder Outreach	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	