

ARCHITECT - ENGINEER QUALIFICATIONS

PART I - CONTRACT-SPECIFIC QUALIFICATIONS

A. CONTRACT INFORMATION

1. PROJECT TITLE AND LOCATION (CITY AND STATE)

Scheduling Consultant List, Columbus, Ohio

2. ANNOUNCEMENT DATE

March 4, 2011

3. PROJECT NUMBER

DAS-11S888

B. ARCHITECT-ENGINEER POINT OF CONTACT

4. PROJECT REPRESENTATIVE NAME AND TITLE

Christopher J. Payne, Senior Vice President/Regional Manager

5. PRESIDENT/CEO

Blake V. Peck, President and Chief Operating Officer

6. NAME OF FIRM

MBP

7. TELEPHONE NUMBER

703-641-9088

8. FAX NUMBER

703-641-8965

9. E-MAIL ADDRESS

cpayne@mbpce.com

10. COUNTY

Fairfax County

11. FTID NUMBER

██████████

12. WEB ADDRESS

www.mbpce.com

C. PROPOSED TEAM

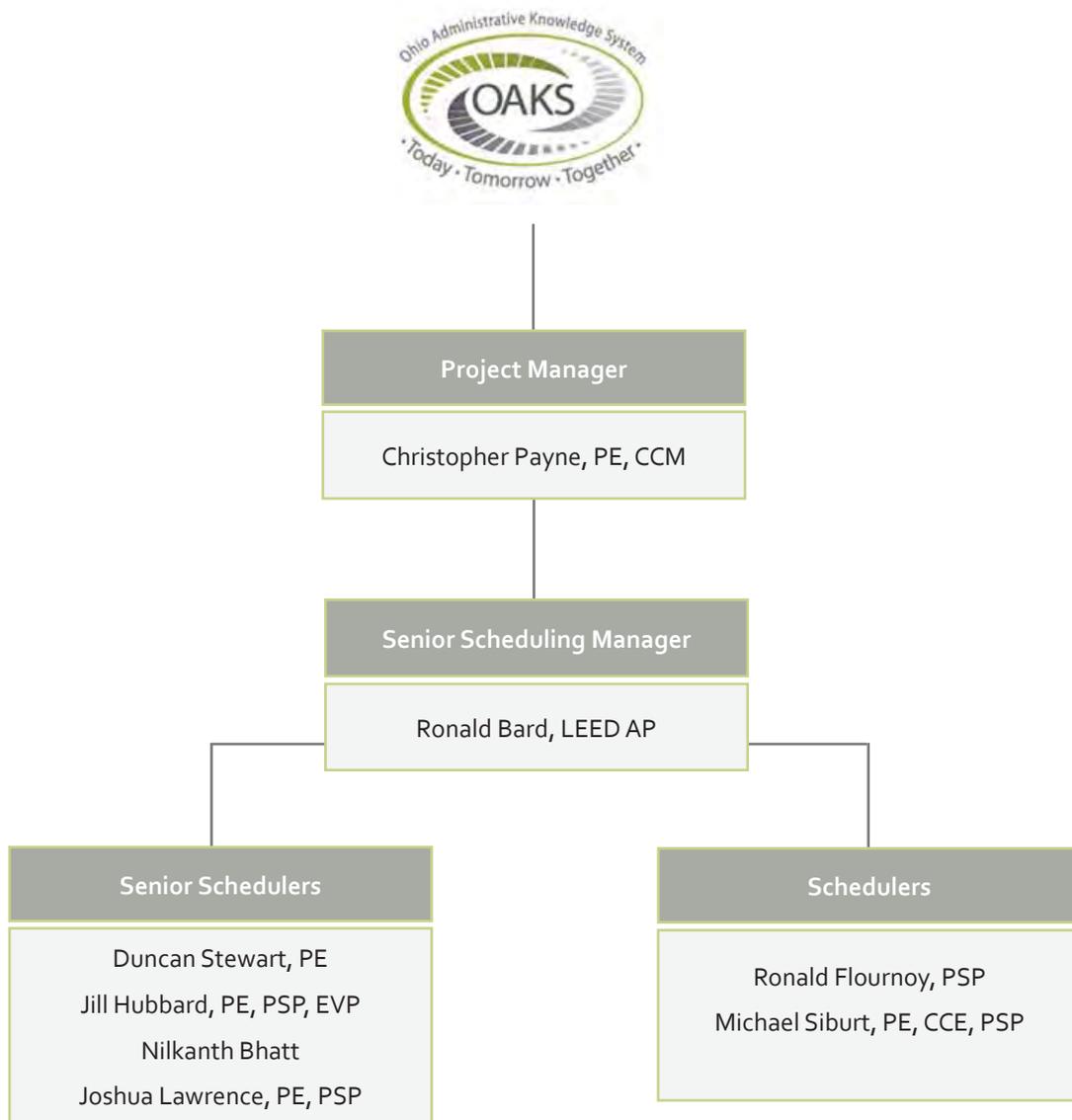
(Complete this section for the prime contractor and all key subconsultants)

a.	b.	c.	d.	e.	f.	(Check)	13. FIRM NAME	14. ADDRESS	15. ROLE IN THIS CONTRACT
						PRIME J-V PARTNER SUBCON- TRACTOR			
						<input checked="" type="checkbox"/>	MBP <input type="checkbox"/> CHECK IF EDGE CERTIFIED	Williams Plaza I 3040 Williams Drive Suite 300 Fairfax, VA 22031 <input checked="" type="checkbox"/> CHECK IF BRANCH OFFICE _____ MILES FROM PROJECT SITE	Scheduling services
						<input type="checkbox"/>	 <input type="checkbox"/> CHECK IF EDGE CERTIFIED	 <input type="checkbox"/> CHECK IF BRANCH OFFICE	
						<input type="checkbox"/>	 <input type="checkbox"/> CHECK IF EDGE CERTIFIED	 <input type="checkbox"/> CHECK IF BRANCH OFFICE	
						<input type="checkbox"/>	 <input type="checkbox"/> CHECK IF EDGE CERTIFIED	 <input type="checkbox"/> CHECK IF BRANCH OFFICE	
						<input type="checkbox"/>	 <input type="checkbox"/> CHECK IF EDGE CERTIFIED	 <input type="checkbox"/> CHECK IF BRANCH OFFICE	
						<input type="checkbox"/>	 <input type="checkbox"/> CHECK IF EDGE CERTIFIED	 <input type="checkbox"/> CHECK IF BRANCH OFFICE	

D. ORGANIZATIONAL CHART OF PROPOSED TEAM

(Attached)

D. ORGANIZATIONAL CHART OF PROPOSED TEAM



MBP's Technical Staff of over 300 Team Members

E. RESUMES OF KEY PERSONNEL FOR THIS CONTRACT

16. NAME	17. ROLE IN THIS CONTRACT	18. YEARS EXPERIENCE	
		a. TOTAL	b. CURRENT FIRM
Christopher J. Payne, PE, CCM	Project Manager	24	18

19. FIRM NAME AND LOCATION (City and State)
MBP, Fairfax, VA

20. EDUCATION (DEGREE AND SPECIALIZATION)	21. CURRENT PROFESSIONAL REGISTRATION (STATE AND DISCIPLINE)
ME, Civil Engineering, 1996 BS, Civil Engineering, 1987	Professional Engineer (PE): VA, MD, PA Certified Construction Manager (CCM) Planning & Scheduling Professional (PSP) OSHA 10-Hour Course Construction Safety & Health

22. OTHER PROFESSIONAL QUALIFICATIONS (Publications, Organizations, Training, Awards, etc.)
Mr. Payne has more than 23 years experience in construction management and design, with a wide variety of experience including construction field management, inspection, critical path method (CPM) scheduling, and cost estimating.

23. RELEVANT PROJECTS

(1) TITLE AND LOCATION (City and State)	(2) YEAR COMPLETED	
	PROFESSIONAL SVCS	CONSTRUCTION
Fairfax County Courthouse Expansion and Renovation Fairfax, VA	2007	
3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE <input checked="" type="checkbox"/> Check if project performed with current firm		
a. As Project Manager, led efforts during preconstruction, providing advice on costs, phasing, and project duration. Throughout construction reviewed schedules, analyzed time impacts, and monitored progress. Also led team analyzing and estimating costs of changed work. Reviewed the 95% design and provided constructibility comments and made recommendations on optimum duration of construction. The project involved the courthouse and featured construction of a new 325,000-square-foot, five-story building housing courtrooms, offices, detention areas, and other support spaces.		
Overseas Building Operations Various Cities	Ongoing	
3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE <input checked="" type="checkbox"/> Check if project performed with current firm		
b. As Project Manager, provided CPM scheduling support on behalf of the Overseas Building Operations projects, which includes construction renovation and additions to multiple U.S. Embassies and official facilities around the world. Tasks included pre-construction duration analysis, review of contractor schedules, and analysis of delay.		
College of Arts and Sciences South Lawn, University of Virginia Charlottesville, VA	2007	
3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE <input checked="" type="checkbox"/> Check if project performed with current firm		
c. As Project Executive, provided construction management advisor services during the schematic design and design development phases. Provided client coordination and quality assurance for estimating, constructibility, and project management services. Oversaw development of CPM master schedule and advised on estimated duration. The project involved the new 114,000-square-foot academic center.		
Forest State Correctional Institution Marienville, PA	2001	
3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE <input checked="" type="checkbox"/> Check if project performed with current firm		
d. As Project Manager/Testifying Expert, performed in depth analysis, prepared expert report and testified at five trials before the Pennsylvania Board of Claims. This project involved construction of a new 1,236-cell prison and supporting facilities for administration, medical, dining, maintenance, education, recreational and vocational space, in addition to a central support plant. The project included extensive site work, including cuts of hills of up to 80 feet in height. Project was contracted through 33 separate prime contracts totaling approximately \$114 million.		
CPM Training, Ohio Department of Transportation Columbus, OH	Ongoing	
3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE <input checked="" type="checkbox"/> Check if project performed with current firm		
e. Project Executive responsible for providing software and project management training for ODOT personnel. All classes incorporated instruction in fundamentals, hands-on exercises using Primavera software, real-world case studies, and open discussion. ODOT designated specialists in each of its 12 construction districts to become advanced users of scheduling software and to provide a resource to project management staff throughout the district. Conducted training, directed development of training materials, and maintained contact with ODOT program director.		

E. RESUMES OF KEY PERSONNEL FOR THIS CONTRACT

16. NAME	17. ROLE IN THIS CONTRACT	18. YEARS EXPERIENCE	
		a. TOTAL	b. CURRENT FIRM
Ronald Bard, LEED AP	Senior Scheduling Manager	22	2

19. FIRM NAME AND LOCATION (City and State)
MBP, Columbia, MD

20. EDUCATION (DEGREE AND SPECIALIZATION)	21. CURRENT PROFESSIONAL REGISTRATION (STATE AND DISCIPLINE)
BS, Civil Engineering, 1975	USGBC LEED Accredited Professional OSHA 30-Hour Course Construction Safety & Health

22. OTHER PROFESSIONAL QUALIFICATIONS (Publications, Organizations, Training, Awards, etc.)

Mr. Bard has over 24 years of experience including schedule development, schedule analysis, claims management, dispute resolution, change order review, and cost estimating. He has experience with both public and private projects including hospitals, courthouses, educational, utilities, mixed-use/developmental, and hotels.

23. RELEVANT PROJECTS

(1) TITLE AND LOCATION (City and State)	(2) YEAR COMPLETED		
		PROFESSIONAL SVCS	CONSTRUCTION
New Walter Reed National Military Medical Center and Supporting Facilities Bethesda, MD	Ongoing		
3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE		<input checked="" type="checkbox"/> Check if project performed with current firm	
a. Served as Senior Scheduler for this new \$900 million new construction and renovation project, including 667,000 square feet of new construction and 400,000 square feet of renovations to existing facilities. The project also included parking garage, central utility plant upgrades, and sitework. Renovations included new laboratory space to house anatomic pathology, infectious disease and clinical pathology bio-safety level 3 (BSL-3) laboratories. Reviewed cost loaded baseline schedule and monthly schedule update submissions and analyzed schedule progress and potential impacts to project completion dates. Prepared written schedule evaluations and presented findings to Naval Facilities Engineering Command (NAVFAC) project management team.			
Parma Justice Center Parma, OH	2000		
3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE		<input type="checkbox"/> Check if project performed with current firm	
b. As Senior Project Scheduler, duties included as-built schedule and claim analysis of complete building construction for electrical contractor client and production of expert reports based upon all discoverable project documentation and contract documents. This \$30 million project involved masonry, steel, and interior finishes.			
Dublin Jerome High School Dublin, OH	2003		
3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE		<input type="checkbox"/> Check if project performed with current firm	
c. As Senior Project Scheduler, responsibilities included consulting services on-site for the bonding company client, and its bonded contractor, during the interior finish, final punch list review, and closeout stages. This \$35 million project consisted of masonry, steel, interior finishes, and hardwood gymnasium floors.			
Premier Trade Plaza Orlando, FL	2006		
3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE		<input type="checkbox"/> Check if project performed with current firm	
d. As Senior Project Scheduler for this \$150 million, 20-story, twin-tower, office and retail building, Mr. Bard was responsible for detailed project scheduling analysis, advising on revised schedules, and progress status reporting and documentation using Primavera P3.			
Pointe Vista Mixed-Use Development Lake Texoma, OK	2009		
3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE		<input type="checkbox"/> Check if project performed with current firm	
e. As Senior Project Scheduler, Mr. Bard was responsible for the master program and project planning schedule for the \$1 billion Pointe Vista mixed-use development in Lake Texoma, Oklahoma.			

E. RESUMES OF KEY PERSONNEL FOR THIS CONTRACT

16. NAME	17. ROLE IN THIS CONTRACT	18. YEARS EXPERIENCE	
		a. TOTAL	b. CURRENT FIRM
Duncan Stewart, PE	Senior Scheduler	14	12

19. FIRM NAME AND LOCATION (City and State)
MBP, Williamsburg, VA

20. EDUCATION (DEGREE AND SPECIALIZATION)	21. CURRENT PROFESSIONAL REGISTRATION (STATE AND DISCIPLINE)
BE, Civil Engineering, 1997	Professional Engineer (PE): VA OSHA 10-Hour Course Construction Safety & Health

22. OTHER PROFESSIONAL QUALIFICATIONS (Publications, Organizations, Training, Awards, etc.)

Mr. Stewart has more than 14 years of hands-on management of utility, highway, and bridge construction and maintenance projects. His projects also have included education, federal, marine, airport and mixed-use facilities. Mr. Stewart has extensive experience in project controls, CPM scheduling, resident engineering, and program and project management.

23. RELEVANT PROJECTS

	(1) TITLE AND LOCATION (City and State)	(2) YEAR COMPLETED	
		PROFESSIONAL SVCS	CONSTRUCTION
a.	Sustainment Center of Excellence (SCOE) Warrior Training Facility Fort Lee, VA	2010	
	3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE	<input checked="" type="checkbox"/> Check if project performed with current firm	
	As Project Manager, provided scheduling services. This \$5.2 million, design-build project included the construction of a new training facility for the United States Army on Fort Lee, Virginia. The one-story building consists of training rooms, and an indoor firing range as well as outdoor facilities including an obstacle course and a fitness course.		
b.	CPM Schedule Training, Ohio Department of Transportation Columbus, OH	Ongoing	
	3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE	<input checked="" type="checkbox"/> Check if project performed with current firm	
	As Project Manager, initiated, developed, and presented construction management seminars for multiple day workshops on project scheduling and management that focused on the use of Primavera P3 and P6. The workshops were for construction managers representing each of ODOT's 12 districts. The Workshop topics included CPM usage, baseline schedules, updates, as-builts, and claims avoidance and analysis. Each workshop session was custom designed in coordination with ODOT to effectively train and practice CPM skills to match ODOT's unique requirements. The sessions also consisted primarily of hands-on exercises developed and lead by MBP for ODOT.		
c.	Dining Facility Fort Lee, VA	2010	
	3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE	<input checked="" type="checkbox"/> Check if project performed with current firm	
	As Project Manager, provided CPM scheduling services to prepare and update preliminary, initial, baseline and update schedules in accordance with USACE specifications. The project involved the design-build construction of a new 18,000-square-foot, single-level dining facility with a 540-day fast-track schedule.		
d.	Soldier Support Center Fort Lee, VA	2008	
	3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE	<input checked="" type="checkbox"/> Check if project performed with current firm	
	As Senior Engineer, responsible for CPM scheduling, baseline schedule and monthly updates and time extension requests. This 84,000-square-foot building provided training facilities and administrative support for military personnel. Major spaces included an auditorium, five large classrooms, and an administrative office space for over 220 personnel.		
e.	Cleveland Innerbelt, Ohio Department of Transportation Cleveland, OH	Ongoing	
	3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE	<input checked="" type="checkbox"/> Check if project performed with current firm	
	As Project Manager, providing CPM schedule reviews and on-site schedule and progress reporting. The project involves construction of a new bridge for I-90 over the Cuyahoga River Valley. Other critical components include four new bridges, various improvements to ten existing bridges, new alignment for I-90 widening and upgrades to the interchanges.		

E. RESUMES OF KEY PERSONNEL FOR THIS CONTRACT

16. NAME	17. ROLE IN THIS CONTRACT	18. YEARS EXPERIENCE	
		a. TOTAL	b. CURRENT FIRM
Jill Hubbard, PE, PSP, EVP	Senior Scheduler	11	6

19. FIRM NAME AND LOCATION (City and State)
MBP, Fairfax, VA

20. EDUCATION (DEGREE AND SPECIALIZATION)	21. CURRENT PROFESSIONAL REGISTRATION (STATE AND DISCIPLINE)
MS, Project Management, 2009 BS, Civil Engineering, 2000	Professional Engineer(PE): VA Planning & Scheduling Professional (PSP) Earned Value Professional (EVP) OSHA 10-Hour Course Construction Safety & Health

22. OTHER PROFESSIONAL QUALIFICATIONS (Publications, Organizations, Training, Awards, etc.)
Ms. Hubbard has 11 years of experience in construction management with specialization in CPM scheduling. Her scheduling experience also includes building schedules and updating schedules. Additional experience includes claims, changes, and cost estimating.

23. RELEVANT PROJECTS

	(1) TITLE AND LOCATION (City and State)	(2) YEAR COMPLETED	
		PROFESSIONAL SVCS	CONSTRUCTION
a.	National Geospatial-Intelligence Agency (NGA) New Campus East Fort Belvoir, VA	Ongoing	
	3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE	<input checked="" type="checkbox"/> Check if project performed with current firm	
	As Scheduler, responsibilities included reviewing monthly schedule updates and providing schedule information to Project Managers as needed and requested. The \$1.8 billion new NGA project was an integrated design-bid-build, construction manager at-risk project that included a two million square foot office building, power plant, visitor's center, and parking garage.		
b.	George Mason University Patriot Center Renovation/ Physical Education Building Fairfax, VA	2008	
	3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE	<input checked="" type="checkbox"/> Check if project performed with current firm	
	As Scheduler, performed review and analysis of CPM schedules, contractor time extension requests, and change orders on behalf of the owner. The project involved phased renovations to the 10,000-seat Patriot Center, including new entrances and the addition of restrooms and concessions.		
c.	Department of Architecture, University of Maryland Various Locations, MD	Ongoing	
	3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE	<input checked="" type="checkbox"/> Check if project performed with current firm	
	As Scheduler, created a master program schedule for use in creating a work load projection. The capital improvement program included new construction and major renovation of facilities, including research laboratories, lecture halls, computer centers, health centers, parking garages, offices, and libraries.		
d.	New Consulate Complex Guangzhou, China	Ongoing	
	3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE	<input checked="" type="checkbox"/> Check if project performed with current firm	
	As Scheduler, performed schedule analysis for contractor's delay claims. The project included construction of a new office building, general services offices, and associated maintenance and warehouse facilities; vehicular and pedestrian access control facilities; parking; and on-site housing.		
e.	CPM Schedule Training, Ohio Department of Transportation Columbus, OH	Ongoing	
	3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE	<input checked="" type="checkbox"/> Check if project performed with current firm	
	As Scheduler, assisted with sessions on effective uses of project schedules given to ODOT managers. The workshops were for construction managers representing each of ODOT's 12 districts. The workshop topics included CPM usage, baseline schedules, updates, as-builts, and claims avoidance and analysis. Each workshop session was custom designed in coordination with ODOT to effectively train and practice CPM skills to match ODOT's unique requirements. The sessions also consisted primarily of hands-on exercises developed and lead by MBP for ODOT.		

E. RESUMES OF KEY PERSONNEL FOR THIS CONTRACT

16. NAME	17. ROLE IN THIS CONTRACT	18. YEARS EXPERIENCE	
		a. TOTAL	b. CURRENT FIRM
Nilkanth Bhatt	Scheduler	16	4

19. FIRM NAME AND LOCATION (City and State)
MBP, Columbia, MD

20. EDUCATION (DEGREE AND SPECIALIZATION)	21. CURRENT PROFESSIONAL REGISTRATION (STATE AND DISCIPLINE)
MS, Construction and Project Management, 1998 BE, Civil Engineering, 1995	

22. OTHER PROFESSIONAL QUALIFICATIONS (Publications, Organizations, Training, Awards, etc.)
Mr. Bhatt has over 16 years of construction experience as a project planner, scheduling coordinator, and cost controller. His experience includes: construction, systems implementation, systems integration, commissioning, demonstration to authorities, and handover to client.

23. RELEVANT PROJECTS

(1) TITLE AND LOCATION (City and State)	(2) YEAR COMPLETED	
	PROFESSIONAL SVCS	CONSTRUCTION
Department of Architecture, University of Maryland Various Locations, MD	Ongoing	
3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE	<input checked="" type="checkbox"/> Check if project performed with current firm	
a. As Senior Scheduler, provided proactive schedule management throughout the project development process. Prepared preliminary design and construction schedules for each project, provided monthly schedule updates, and evaluated designer's and contractor's proposed schedules. In addition, evaluated all projects for compliance with the established schedule on a monthly basis, identified schedule problems on each project, and analyzed requests for schedule change order proposals and claims. This term contract was issued to provide program management services for a variety of projects for the University of Maryland, College Park and its service center institutions.		
(1) TITLE AND LOCATION (City and State)	(2) YEAR COMPLETED	
National Geospatial-Intelligence Agency (NGA) New Campus East Ft. Belvoir, VA	Ongoing	
3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE	<input checked="" type="checkbox"/> Check if project performed with current firm	
b. As Scheduler, responsible for schedule reviews, review of submittals, and requests for information. This project involved the consolidation of six existing NGA locations into a new, 2.5-million-square-foot campus situated on approximately 90 acres. The facility included 24/7 operations consisting of administrative areas, technology center, auditorium, conference center, education and training center, and support and storage spaces. This project was the U.S. Army Corps of Engineers, Baltimore District's first project to implement OSHA's Voluntary Protection Program.		
(1) TITLE AND LOCATION (City and State)	(2) YEAR COMPLETED	
Culinary School Fort Lee, VA	2010	
3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE	<input checked="" type="checkbox"/> Check if project performed with current firm	
c. As Scheduler, assisted with the development of the project's 90-day interim and baseline schedule using Primavera P6 CPM scheduling software and provided monthly schedule updates in accordance with U.S. Army Corps of Engineers specifications. The design-build project consisted of a 46,992-gross-square-foot addition to an existing building. The project also included site demolition, site grading and preparation, site utilities, and improvements.		
(1) TITLE AND LOCATION (City and State)	(2) YEAR COMPLETED	
Transportation Management School Fort Lee, VA	2010	
3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE	<input checked="" type="checkbox"/> Check if project performed with current firm	
d. As Scheduler, assisted with the development of the project's 90-day interim and baseline schedule and provided monthly schedule updates. This was a design-build project with a maximum of 45,411 gross square feet for both buildings and exterior canopies and 66,920 gross square feet for the combined vehicle training areas located at Fort Lee, VA.		
(1) TITLE AND LOCATION (City and State)	(2) YEAR COMPLETED	
Glenarden Community Center Glenarden, MD	Ongoing	
3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE	<input checked="" type="checkbox"/> Check if project performed with current firm	
e. As Scheduler assisted with the review of three claims and the preparation of an independent cost estimate to evaluate the reasonableness of the claimed additional costs by general contractors. Evaluated the claim based on the contractor's initial baseline schedule, specifications, and schedule updates. The project involved the renovation of the 32,000-square-foot Community Center in Glenarden by the Department of Parks and Recreations of the Maryland National Capitol Park and Planning Commission.		

E. RESUMES OF KEY PERSONNEL FOR THIS CONTRACT

16. NAME	17. ROLE IN THIS CONTRACT	18. YEARS EXPERIENCE	
		a. TOTAL	b. CURRENT FIRM
Joshua Lawrence, PE, PSP	Senior Scheduler	13	13

19. FIRM NAME AND LOCATION (City and State)
MBP, Roanoke, VA

20. EDUCATION (DEGREE AND SPECIALIZATION)	21. CURRENT PROFESSIONAL REGISTRATION (STATE AND DISCIPLINE)
BS magna cum laude, Civil Engineering, 2001 MS, Civil Engineering/Construction Engineering & Management (2002)	Professional Engineer (PE): VA, GA Planning & Scheduling Professional (PSP)

22. OTHER PROFESSIONAL QUALIFICATIONS (Publications, Organizations, Training, Awards, etc.)
Mr. Lawrence has more than 13 years of experience performing a variety of construction engineering and management functions in support of owners' and contractors' design and construction programs. His experience includes agency construction management, project and program management, construction contract administration, CPM scheduling, resident engineering, and project documentation. In addition, Mr. Lawrence is experienced in cost estimating, constructibility review, dispute resolution, and construction inspection.

23. RELEVANT PROJECTS

(1) TITLE AND LOCATION (City and State)	(2) YEAR COMPLETED		
		PROFESSIONAL SVCS	CONSTRUCTION
Virginia Polytechnic Institute and State University, Construction Management Term Contract, Blacksburg, VA	2009		
a. 3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE	<input checked="" type="checkbox"/>	Check if project performed with current firm	
As Senior Scheduler, reviewed contractor's CPM baseline schedule and performed schedule updates. Performed schedule analysis and provided a report of analysis. The projects included new construction, additions, renovations, and the rehabilitation and repurposing of existing buildings.			
(1) TITLE AND LOCATION (City and State)	(2) YEAR COMPLETED		
CPM Schedule Training, Ohio Department of Transportation Columbus, OH	Ongoing		
b. 3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE	<input checked="" type="checkbox"/>	Check if project performed with current firm	
As Senior Engineer, developed multiple two-day and one-day training courses on CPM scheduling usage presented to statewide area level engineers and multiple training courses to state construction personnel. The training courses varied in scope and covered scheduling basics, set up and development of a schedule including establishing crews, durations, schedule logic, and resources.			
(1) TITLE AND LOCATION (City and State)	(2) YEAR COMPLETED		
Dillard University Renovations and Reconstruction New Orleans, LA	2006		
c. 3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE	<input checked="" type="checkbox"/>	Check if project performed with current firm	
As Program Scheduler, provided program scheduling services and supported program management for the owner and contractor on this Hurricane Katrina Recovery Program. Hurricane Katrina caused extensive wind damage, the failure of the London Avenue Canal, and subsequent flood damage. The project included renovation and/or demolition of over 30 buildings on Dillard University's 60.5 acres of on-and-off campus properties.			
(1) TITLE AND LOCATION (City and State)	(2) YEAR COMPLETED		
United States Customs House New Orleans, LA	2008		
d. 3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE	<input checked="" type="checkbox"/>	Check if project performed with current firm	
As Scheduler, developed a cost and resource loaded design and construction CPM schedule for the project. This was a repair and alteration project resulting from damage sustained by Hurricane Katrina. The U.S. Customs House is registered on the National Register of Historic Places and has been designated as a National Historic Landmark. The scope of work required interior and exterior finishes, HVAC repairs, electrical repairs, life safety repairs and possible historic restoration of interior spaces.			
(1) TITLE AND LOCATION (City and State)	(2) YEAR COMPLETED		
Aero Train System at Main Terminal Station, Dulles International Airport Chantilly, VA	2009		
e. 3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE	<input checked="" type="checkbox"/>	Check if project performed with current firm	
As Lead Claims Analyst, reviewed estimated work to complete and generated estimates of anticipated remaining duration of work and crew sizes by construction trade in support of an overall analysis of time necessary to complete the project. The \$330 million project involved the construction of a 1,600 foot-long train station, located directly adjacent to the Dulles International Airport's main terminal.			

E. RESUMES OF KEY PERSONNEL FOR THIS CONTRACT

16. NAME	17. ROLE IN THIS CONTRACT	18. YEARS EXPERIENCE	
		a. TOTAL	b. CURRENT FIRM
Ronald Flournoy, PSP	Scheduler	10	4

19. FIRM NAME AND LOCATION (City and State)
MBP, Williamsburg, VA

20. EDUCATION (DEGREE AND SPECIALIZATION)	21. CURRENT PROFESSIONAL REGISTRATION (STATE AND DISCIPLINE)
BA, Building Construction & Technical Education, 2002	Planning & Scheduling Professional (PSP) Construction Manager in Training (CMIT) OSHA 10-Hour Course Construction Safety & Health

22. OTHER PROFESSIONAL QUALIFICATIONS (Publications, Organizations, Training, Awards, etc.)
Mr. Flournoy has more than ten years of construction management experience working directly for owners and contractors. He possesses a solid foundation of construction and contracting knowledge for different project types with varying schedule intensities and technical difficulties. As a school trained construction manager, Mr. Flournoy utilizes his knowledge and on-the-job training to provide clients with the various options available to them to solve unique and difficult situations.

23. RELEVANT PROJECTS

(1) TITLE AND LOCATION (City and State)	(2) YEAR COMPLETED		
		PROFESSIONAL SVCS	CONSTRUCTION
CPM Schedule Training, Ohio Department of Transportation Columbus, OH	Ongoing		
3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE		<input checked="" type="checkbox"/> Check if project performed with current firm	
a. As Scheduler, examined and documented the differences between the most common CPM scheduling software in the current market to include features such as cost, implementation, training, updates, maintenance, and overall usability for the client who was evaluating a transition to a new CPM scheduling software platform. The project involved statewide CPM schedule training services to ODOT including CPM scheduling, delay analysis, and claims analysis taught in four courses.			
Central Campus III Monthly Review Updates Fort Lee, VA	2010		
3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE		<input checked="" type="checkbox"/> Check if project performed with current firm	
b. As Scheduler, provided CPM scheduling services including the development of the project's 90-day baseline schedule using Primavera P3 CPM scheduling software and provided monthly schedule updates in accordance with USACE specifications. The project involved a new four-story office and training facility. The project involved the design and construction of a new multilevel office building, Building C-11. CPM schedule revisions, and time impact analysis were prepared at the request and/or approval of client.			
Health Systems Medical College, Virginia Commonwealth University Richmond, VA	2009		
3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE		<input checked="" type="checkbox"/> Check if project performed with current firm	
c. As Scheduler, developed a master schedule for the shutdowns and cutovers on this health care project to upgrade electrical services to a functioning hospital. Attended progress and coordination meetings to update and revise schedule. The \$3.5 million project involved a complete upgrade to the main hospital building. Work included scheduling the work in phases for electrical upgrade to the hospital and coordinating with hospital personnel for electrical shutdowns and cut-overs.			
CAS Research Building Project, University of Virginia Charlottesville, VA	2010		
3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE		<input checked="" type="checkbox"/> Check if project performed with current firm	
d. As Scheduler, prepared the baseline schedule and assisted with monthly schedule updates. The project will consist of a five-story, 100,000-gross-square foot building, plus an accompanying mechanical penthouse. The main building will consist of biosafety level two (BSL2) laboratories on all five floors, laboratory support areas, administrative office space, and conference rooms.			
Warrior Training Facility Fort AP Hill, VA	2010		
3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE		<input checked="" type="checkbox"/> Check if project performed with current firm	
e. As Scheduler, responsible for preparing the baseline schedule by evaluating the plans and specifications to create activities and logic to coordinating with the clients project team and their work plan. This project included the design and construction of facilities and training courses. This project is comprised of facilities at five separate field training venues and facilities within the training areas which are to support the training activities of the Sustainment Center of Excellence.			

E. RESUMES OF KEY PERSONNEL FOR THIS CONTRACT

16. NAME	17. ROLE IN THIS CONTRACT	18. YEARS EXPERIENCE	
		a. TOTAL	b. CURRENT FIRM
Michael Siburt, PE, CCE, PSP	Scheduler	10	7

19. FIRM NAME AND LOCATION (City and State)
MBP, Raleigh, NC

20. EDUCATION (DEGREE AND SPECIALIZATION)	21. CURRENT PROFESSIONAL REGISTRATION (STATE AND DISCIPLINE)
MS, Civil Engineering, 2004 BS, Civil Engineering, 2002	Professional Engineer (PE): NC Certified Cost Engineer (CCE) Planning & Scheduling Professional (PSP) OSHA 30-Hour Course Construction Safety & Health

22. OTHER PROFESSIONAL QUALIFICATIONS (Publications, Organizations, Training, Awards, etc.)
Mr. Siburt has over ten years experience providing construction management services to owners and contractors. His experience includes CPM scheduling, cost estimating, constructibility review, and claims and schedule delay analysis. He has experience in providing CPM schedule training to construction professionals and has provided support services including master scheduling, baseline and update schedule compliance reviews, review of time impact analyses, and claim schedule delay analysis.

23. RELEVANT PROJECTS

(1) TITLE AND LOCATION (City and State)	(2) YEAR COMPLETED		
		PROFESSIONAL SVCS	CONSTRUCTION
Duke University Medical Center and Health System Program Durham, NC	2009		
3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE		<input checked="" type="checkbox"/> Check if project performed with current firm	
As Scheduler, provided scheduling services in Primavera P3, including creation and updating of the master schedule and meeting and coordinating project details with each project manager. The program included approximately 170 construction projects for 13 project managers. Projects ranged from minor renovations and additions to large new construction projects.			
Washington Building, American Tobacco Campus, Duke University Durham, NC	2005		
3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE		<input checked="" type="checkbox"/> Check if project performed with current firm	
As Scheduler, developed Primavera P3 bar chart schedule for the contractor, based upon information regarding activities, durations, responsibility, and location. The project consisted of an interior office up-fit of the Washington Building at the American Tobacco Campus for Duke University. Elements of construction included concrete, steel, masonry, mechanical, electrical, plumbing, interior finishes, elevators, security, and coordination of owner furnished and installed equipment.			
P1041 Armory, Camp Geiger, U.S. Department of the Navy Camp Lejeune, NC	2006		
3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE		<input checked="" type="checkbox"/> Check if project performed with current firm	
As Scheduler, developed the baseline CPM schedule and performed monthly schedule updates in Primavera SureTrak. The project included demolition of two buildings, excavation and site grading, and the construction of a 15,104-square-foot concrete armory with mechanical, electrical, plumbing, and fire protection systems.			
Energy Production Infrastructure Center (EPIC) Building, University of North Carolina (UNCC) Charlotte, NC	2006		
3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE		<input checked="" type="checkbox"/> Check if project performed with current firm	
As Senior Scheduler, performed review of the contractor's baseline schedule. Drafted a schedule review report and provided scheduling specification suggestions to UNCC and the design team. Reviewed the contractor's monthly schedule update. The project consisted of three-stories, approximately 200,000 square feet of classroom, laboratory, research, and administration spaces for the college of civil and electrical engineering, constructed under the construction manager at risk delivery method.			
CPM Schedule Training, Ohio Department of Transportation (ODOT) Columbus, OH	2010		
3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE		<input checked="" type="checkbox"/> Check if project performed with current firm	
As Scheduler, developed and presented Primavera P3, CPM scheduling principles, baseline development and review, schedule update development and review, and review of time impact analysis, time extension requests and claims analysis training material to engineers and project managers from ODOT. The presentation included discussion and examples of techniques and examples for developing schedule updates, as well as techniques to review schedule updates both in hard copy and electronically in Primavera Project Planner.			

F. EXAMPLE PROJECTS WHICH BEST ILLUSTRATE PROPOSED TEAM'S QUALIFICATIONS		24. PROJECT NUMBER	
25. TITLE AND LOCATION (City and State)		26. YEAR COMPLETED	
Program Management, University of Maryland Various Locations, MD		PROFESSIONAL SVCS	CONSTRUCTION
		Ongoing	Ongoing
27. PROJECT OWNER'S INFORMATION			
A. PROJECT OWNER	B. POINT OF CONTACT NAME	C. POINT OF CONTACT TELEPHONE NUMBER	
University of Maryland, College Park	Carlo Colella	301-405-2987	
28. BRIEF DESCRIPTION OF PROJECT AND RELEVANCE TO THIS CONTRACT (INCLUDE SCOPE, SIZE, AND COST)			

MBP provided program support services and supplemental program management/project management services related to the statewide design and construction program. The cost control specialist provided the University with proactive project cost management throughout the project development process. This included the review of baseline project budgets during programming phase; validation of accurate project cost estimates at the schematic, design development, and 90% construction development stages of design; monthly cost reviews that addressed all open issues on all projects during construction; and the analysis of change order proposals and claims.

The \$700 million capital improvement program included new construction and major renovation of facilities, including research laboratories, lecture halls, computer centers, health centers, parking garages, offices, and libraries. Projects included:

- **Biosciences Research Building:** This \$70 million project involved the construction of 138,700 gross square feet of space to provide labs and offices for the College of Life Science. Modern facilities enabled advanced cancer research and research for other diseases. Construction also included the renovation of the central utility building to serve as the new lecture hall.
- **Bio-Safety Level III (BSL-3) Lab:** This \$2.1 million project consisted of a single 1,400-square-foot, BSL-3 animal support/research facility with infrastructure to support a future lab module within the new building. The project provided facility support for host-pathogen research.
- **Chemistry Wing III Shelled Labs:** This \$3.2 million life science research facility included two floors of tenant work to create 5,830 gross square feet of space for staff offices and labs.
- **Fischell Department of Bio-engineering:** This \$7.3 million 7,400-gross-square-foot facility involved a one-floor addition on the roof of the mechanical/loading dock wing of the existing building. The addition housed offices and bio-engineering labs.
- **Center for Advanced Research in Bio-technology II:** The \$52.2 million project involved construction of a new 139,000-gross-square-foot laboratory facility, classrooms, and seminar and conference space at the Shady Grove campus.
- **Chesapeake Biological Laboratory Truitt Lab Addition:** This \$4.5 million project involved construction of a 13,200-square-foot addition to the facility at the Chesapeake Biological Laboratory. Space included aquaculture research bays, laboratories, classroom, and support facilities.



29. FIRMS FROM SECTION C INVOLVED WITH THIS PROJECT			
a.	(1) FIRM NAME	(2) FIRM LOCATION (City and State)	(3) ROLE
	MBP	Columbia, MD	Cost estimating, scheduling
b.	(1) FIRM NAME	(2) FIRM LOCATION (City and State)	(3) ROLE

F. EXAMPLE PROJECTS WHICH BEST ILLUSTRATE PROPOSED TEAM'S QUALIFICATIONS		24. PROJECT NUMBER	
		2	
25. TITLE AND LOCATION (City and State)		26. YEAR COMPLETED	
Virginia Polytechnic Institute and State University, Construction Management Term Contract Blacksburg, VA		PROFESSIONAL SVCS	CONSTRUCTION
		2004	2004
27. PROJECT OWNER'S INFORMATION			
A. PROJECT OWNER	B. POINT OF CONTACT NAME	C. POINT OF CONTACT TELEPHONE NUMBER	
Virginia Polytechnic Institute and State University	James McCoy, PE	540-231-4215	
28. BRIEF DESCRIPTION OF PROJECT AND RELEVANCE TO THIS CONTRACT (INCLUDE SCOPE, SIZE, AND COST)			

MBP provided preconstruction cost estimating services, CPM schedule review services, clerk-of-the-works and construction administration services under a three-year task order contract for more than 12 buildings. MBP supplemented Virginia Tech's on-site staff and prepared daily reports and weekly progress updates, monitored the placement of material, tracked progress against the project's CPM schedule, and processed change orders.

Projects included new construction and rehabilitation of various buildings throughout the campus. Representative projects included:

Bioinformatics Laboratory Phase I: A new, \$14 million, 58,285-square-foot, three-story concrete framed laboratory facility with university local stone veneer and precast concrete trim on concrete drilled piers. Due to the laboratorial nature of the building, the MEP systems are very extensive, requiring compressed air, vacuum and gas lines in addition to domestic water and sanitary lines.

Bioinformatics Laboratory Phase II: A new, \$15 million, three-story, 72,000-square-foot laboratory and classroom facility with local stone veneer and precast concrete trim with a deep bearing caisson foundation system.

Chemistry & Physics Building Phase II: \$27 million addition to a four-story, 85,000-square-foot, state-of-the-art laboratory facility. Project was constructed on concrete caisson foundation and structural steel superstructure finished with local stone and architectural precast panels and trim. Interior addition included interior finishes, updating the mechanical and electrical services, and miscellaneous structural alterations.

Agriculture/Natural Resources Research Lab Facility: A new \$25 million, 84,000-square-foot research and laboratory facility. The building was founded on a combination of caissons and spread footings. The superstructure was reinforced concrete with extreme tolerance to mitigate potential vibrations that could negatively impact the ultimate operations of the facility.



29. FIRMS FROM SECTION C INVOLVED WITH THIS PROJECT			
a.	(1) FIRM NAME	(2) FIRM LOCATION (City and State)	(3) ROLE
	MBP	Roanoke, VA	CPM scheduling, cost estimating, clerk-of-the-works, and construction administration
b.	(1) FIRM NAME	(2) FIRM LOCATION (City and State)	(3) ROLE

F. EXAMPLE PROJECTS WHICH BEST ILLUSTRATE PROPOSED TEAM'S QUALIFICATIONS		24. PROJECT NUMBER	
		3	
25. TITLE AND LOCATION (City and State)		26. YEAR COMPLETED	
Dillard University, Campus Site Utilities New Orleans, LA		PROFESSIONAL SVCS	CONSTRUCTION
		2006	2007
27. PROJECT OWNER'S INFORMATION			
A. PROJECT OWNER	B. POINT OF CONTACT NAME	C. POINT OF CONTACT TELEPHONE NUMBER	
Dillard University	William LeCorgne, Jr., PE	504-822-6443	
28. BRIEF DESCRIPTION OF PROJECT AND RELEVANCE TO THIS CONTRACT (INCLUDE SCOPE, SIZE, AND COST)			

MBP provided program management services for the restoration of site utilities and for MEP.Program Scheduling Management Services for the reconstruction and enhancements program. Cost management/cost engineering services to assist with developing the insurance claims.

This project included the renovation or demolition of over 30 buildings on Dillard's 60.5 acres of on-and-off campus properties. Hurricane Katrina caused extensive wind damage and the failure of the London Avenue Canal caused massive flood damage.

MBP developed and/or managed the design and construction schedules for the following projects:

- Alexander Library
- Camphor/Hartzell Academic Support
- Cook Fine Arts Center Academic
- Dent Hall Academic and Athletics
- DUICEF Academic and Support
- Henson Hall Athletics and Academic Support
- Howard House Academic Support
- Kearny Hall Dining Hall and Recreation
- Lawless Chapel Chapel and Social
- Rosenwald Hall Administration & Support
- Stern Hall Academic Laboratory
- Williams Hall Dormitory
- Gentilly Gardens Off Campus Dormitory
- Gentilly Apartments Off Campus Dormitory
- DUAL Apartments Off Campus Dormitory
- Elysian Apartments Off Campus Dormitory
- Site Electric Loop Site Utility
- Storm Water and Waste Water Site Utility
- Site Landscaping Site Work
- Campus Fire Alarm Life Safety
- New Information Technology (IT) Backbone Utility
- Campus Police Station Support



29. FIRMS FROM SECTION C INVOLVED WITH THIS PROJECT			
a.	(1) FIRM NAME	(2) FIRM LOCATION (City and State)	(3) ROLE
	MBP	Atlanta, GA	Program scheduling management services
b.	(1) FIRM NAME	(2) FIRM LOCATION (City and State)	(3) ROLE

F. EXAMPLE PROJECTS WHICH BEST ILLUSTRATE PROPOSED TEAM'S QUALIFICATIONS		24. PROJECT NUMBER	
		4	
25. TITLE AND LOCATION (City and State)		26. YEAR COMPLETED	
School of Education, University of North Carolina Wilmington Wilmington, NC		PROFESSIONAL SVCS	CONSTRUCTION
		2004	2004
27. PROJECT OWNER'S INFORMATION			
A. PROJECT OWNER	B. POINT OF CONTACT NAME	C. POINT OF CONTACT TELEPHONE NUMBER	
University of North Carolina - Wilmington	Dan Van Dyke, AIA	704-372-6665	
28. BRIEF DESCRIPTION OF PROJECT AND RELEVANCE TO THIS CONTRACT (INCLUDE SCOPE, SIZE, AND COST)			

MBP served as Agency Construction Administration Representatives for the University of North Carolina Wilmington and as a sub-consultant through the project architect, provided on-site construction management/administration services for the construction of new School of Education classroom building. Coordinated meetings, prepared weekly reports, recorded and monitored progress versus planned schedule, provided project documentation control and recommendations on payment to the general contractor, and monitored compliance with contract specifications.

A three-story, multifunctional facility housing the University's School of Education programs. The 82,000-square-foot Georgian building features a three-story sky-lit atrium space, landscaped courtyard plaza with reflecting pools, fountains, and state-of-the-art teaching technology.



29. FIRMS FROM SECTION C INVOLVED WITH THIS PROJECT			
a.	(1) FIRM NAME	(2) FIRM LOCATION (City and State)	(3) ROLE
	MBP	Raleigh, NC	Construction management
b.	(1) FIRM NAME	(2) FIRM LOCATION (City and State)	(3) ROLE

F. EXAMPLE PROJECTS WHICH BEST ILLUSTRATE PROPOSED TEAM'S QUALIFICATIONS		24. PROJECT NUMBER	
		5	
25. TITLE AND LOCATION (City and State)		26. YEAR COMPLETED	
Lincoln Hall, National Defense University Washington, DC		PROFESSIONAL SVCS	CONSTRUCTION
		2006	2008
27. PROJECT OWNER'S INFORMATION			
A. PROJECT OWNER	B. POINT OF CONTACT NAME	C. POINT OF CONTACT TELEPHONE NUMBER	
National Defense University	Steve Hatch	202-685-3929	
28. BRIEF DESCRIPTION OF PROJECT AND RELEVANCE TO THIS CONTRACT (INCLUDE SCOPE, SIZE, AND COST)			

MBP provided project management services including on-site construction management, project controls, contract administration, and quality assurance. MBP analyzed cost and schedule impacts to the project initiated by major owner program requirement changes. MBP prepared independent estimates of the changed costs and schedule analysis to quantify the extent of the impact. MBP was successful in negotiating a nearly \$32 million change order for USACE, Baltimore District. The owner was able to move forward on the project, implement a revised budget and an extended schedule.



This 240,000-square-foot project involved a \$113 million design-build expansion of the National Defense University (NDU) to meet LEED Silver Certification by the U.S. Green Building Council (USGBC). A new structure was connected to the existing academic building and constructed on land immediately adjacent to it.

New facilities included a center courtyard, south atrium, connector between buildings, visitor control center, rotunda conference area, food service, and network operations center in addition to classrooms and staff offices. The project scope required the aesthetic qualities of the facility to match existing historic and contemporary considerations at Ft. McNair.



Noise control was a contract requirement from both the owner and the District of Columbia. The District required controlled noise hours and decibel levels in order to avoid disturbing classes and presentations taking place. In addition, there was an apartment complex bordering the work site.

29. FIRMS FROM SECTION C INVOLVED WITH THIS PROJECT			
a.	(1) FIRM NAME	(2) FIRM LOCATION (City and State)	(3) ROLE
	MBP	Fairfax, VA	Project management, construction management, contract administration, quality assurance
b.	(1) FIRM NAME	(2) FIRM LOCATION (City and State)	(3) ROLE

F. EXAMPLE PROJECTS WHICH BEST ILLUSTRATE PROPOSED TEAM'S QUALIFICATIONS		24. PROJECT NUMBER	
		6	
25. TITLE AND LOCATION (City and State)		26. YEAR COMPLETED	
New Walter Reed National Military Medical Center and Supporting Facilities Bethesda, MD		PROFESSIONAL SVCS	CONSTRUCTION
		Ongoing	Ongoing
27. PROJECT OWNER'S INFORMATION			
A. PROJECT OWNER	B. POINT OF CONTACT NAME	C. POINT OF CONTACT TELEPHONE NUMBER	
Naval Facilities Engineering Command, Wash- ington	Masood Shoyooee	301-295-1424	
28. BRIEF DESCRIPTION OF PROJECT AND RELEVANCE TO THIS CONTRACT (INCLUDE SCOPE, SIZE, AND COST)			

On behalf of NAVFAC Washington, MBP provided CPM scheduling services utilizing Primavera P3 and P6 software for Walter Reed. MBP reviewed contractor baseline schedules, monthly schedule updates and time impact analyses, and provided NAVFAC with written feedback regarding their reasonableness and validity. MBP provided schedule review comments to NAVFAC which identifies changes made to the schedule from month-to-month, critical, and near critical paths, alleged impacts and potential impacts to project completion dates, and recommendations for acceptance/rejection of the contractor's schedule submissions. In addition, MBP supported progress briefings to the Officer in Charge of Construction (OICC), NAVFAC Washington, and others. Data from the schedules is integrated into the master schedule.

This project was the result of the 2005 Base Realignment and Closure (BRAC) Commission recommendation to realign all tertiary (sub-specialty and complex care) medical services currently located at Walter Reed Army Medical Center (WRAMC) in Washington, DC, to the National Naval Medical Center (NNMC) in Bethesda, Maryland. The design-build project includes 682,000 square feet of new medical office, emergency room, and patient care construction as well as 400,000 square feet of renovations to existing facilities. New construction includes a six-story ambulatory care facility, a four-story diagnostic and testing in-patient facility and a 943-space parking garage located adjacent to the ambulatory care facility and connected by an enclosed walkway. Three new enclosed walkways and a pavilion connect new buildings to the existing facility; and a new logistics tunnel also provides access between new and existing facilities. Renovation includes low, medium and high levels of interior upgrade to house both clinical, administrative and research spaces. The contract also includes \$200 million for Warrior Transition Facility including Bachelors Enlisted Quarters, dining facility, and administrative space.



29. FIRMS FROM SECTION C INVOLVED WITH THIS PROJECT			
a.	(1) FIRM NAME	(2) FIRM LOCATION (City and State)	(3) ROLE
	MBP	Columbia, MD	CPM scheduling, construction management
b.	(1) FIRM NAME	(2) FIRM LOCATION (City and State)	(3) ROLE

F. EXAMPLE PROJECTS WHICH BEST ILLUSTRATE PROPOSED TEAM'S QUALIFICATIONS		24. PROJECT NUMBER	
		7	
25. TITLE AND LOCATION (City and State)		26. YEAR COMPLETED	
National Geospatial-Intelligence Agency (NGA) New Campus East Ft. Belvoir, VA		PROFESSIONAL SVCS	CONSTRUCTION
		Ongoing	Ongoing
27. PROJECT OWNER'S INFORMATION			
A. PROJECT OWNER	B. POINT OF CONTACT NAME	C. POINT OF CONTACT TELEPHONE NUMBER	
U.S. Army Corps of Engineers (USACE) New England District	Steve Bowers	410-962-3838	
28. BRIEF DESCRIPTION OF PROJECT AND RELEVANCE TO THIS CONTRACT (INCLUDE SCOPE, SIZE, AND COST)			

MBP is providing program and project management, scheduling, construction management, construction quality assurance, project controls, contract administration, commissioning management, and lessons learned support on this fast-track campus construction for a high-security end user.



The largest single military construction project undertaken by the USACE since the Pentagon, this ECI project consolidates seven NGA locations into a new campus as directed by Base Realignment and Closure (BRAC) 2005. The campus is nearly 2.5 million square feet, situated on 98 acres on Fort Belvoir North Area near Springfield, Virginia. The entire campus meets sensitive compartmented information facility (SCIF) security standards. It includes administrative areas, a technology center, central utility plant, auditorium, conference center, education and training spaces, visitor control center, 5,200-vehicle parking garage, and \$100 million in site and infrastructure improvements.

“MBP has been an excellent performer. They have been able to provide very good people when we needed them. All of their people have been top notch.”

Rich Callaway, USACE

29. FIRMS FROM SECTION C INVOLVED WITH THIS PROJECT			
a.	(1) FIRM NAME	(2) FIRM LOCATION (City and State)	(3) ROLE
	MBP	Columbia, MD	Project management, construction management, project controls, contract administration, quality assurance
b.	(1) FIRM NAME	(2) FIRM LOCATION (City and State)	(3) ROLE

F. EXAMPLE PROJECTS WHICH BEST ILLUSTRATE PROPOSED TEAM'S QUALIFICATIONS		24. PROJECT NUMBER	
25. TITLE AND LOCATION <i>(City and State)</i>		26. YEAR COMPLETED	
CPM Schedule Training, Ohio Department of Transportation Columbus, OH		PROFESSIONAL SVCS	CONSTRUCTION
		Ongoing	NA
27. PROJECT OWNER'S INFORMATION			
A. PROJECT OWNER	B. POINT OF CONTACT NAME	C. POINT OF CONTACT TELEPHONE NUMBER	
Ohio Department of Transportation (ODOT)	Lyle Flower	614-466-2043	
28. BRIEF DESCRIPTION OF PROJECT AND RELEVANCE TO THIS CONTRACT <i>(INCLUDE SCOPE, SIZE, AND COST)</i>			

Since 2005, MBP has provided training to ODOT engineers from all districts in the use of CPM software (Primavera P3 and P6), baseline schedule reviews, schedule updates, time impact analysis (TIA), delay analysis and claims. MBP has advised ODOT on scheduling specifications, including how to address typical claims issues and software implementation. The training classes developed and presented by MBP have ranged from two-day hands-on workshops on reviewing a baseline schedule or analyzing a claim, to single-day demonstrations of how to use the scheduling software. All courses were customized to meet specific ODOT procedures and address issues suggested by ODOT staff. In 2010, MBP was retained by ODOT for its third scheduling training contract, which now includes the scope of reviewing claim issues.

The training included CPM scheduling, delay analysis and claim analysis and consisted of four courses over 2010 and 2011. The presentation included discussion and examples of techniques and examples for developing schedule updates, as well as techniques to review schedule updates both in hard copy and electronically in Primavera Project Planner.

MBP provided training services to assist in analyzing CPM schedules and construction claims. MBP's provided a series of training subjects, covering the analysis of critical path method schedules and contractor claims.

Ohio DOT designated specialists in each of its 12 construction districts to become advanced users of scheduling software and to provide a resource to project management staff throughout the district. This group meets quarterly and MBP was engaged to provide software and project management training to this group. ODOT was seeking to improve its scheduling capabilities to support its record-breaking \$1.4 billion construction program, part of a ten-year, \$5 billion effort to rebuild Ohio's urban interstate networks, address high-crash and congested locations and complete the state's rural macro-corridors.

MBP developed and presented a series of one and two-day training sessions on CPM scheduling for the user's group. Training topics included:

- Advanced use of Primavera Project Planner
- Baseline schedule development and review
- How to review and respond to schedule updates
- Schedule changes and time impacts
- Analyzing and responding to delay claims
- Analyzing losses of efficiency, acceleration and other issues

All classes included fundamentals, hands-on exercises using Primavera software, real-world case studies and open discussion.

29. FIRMS FROM SECTION C INVOLVED WITH THIS PROJECT			
a.	(1) FIRM NAME	(2) FIRM LOCATION <i>(City and State)</i>	(3) ROLE
	MBP	Fairfax, VA	CPM scheduling training
b.	(1) FIRM NAME	(2) FIRM LOCATION <i>(City and State)</i>	(3) ROLE

F. EXAMPLE PROJECTS WHICH BEST ILLUSTRATE PROPOSED TEAM'S QUALIFICATIONS		24. PROJECT NUMBER	
		9	
25. TITLE AND LOCATION (City and State)		26. YEAR COMPLETED	
Cleveland Innerbelt Project Cleveland, OH		PROFESSIONAL SVCS	CONSTRUCTION
		Ongoing	Ongoing
27. PROJECT OWNER'S INFORMATION			
A. PROJECT OWNER	B. POINT OF CONTACT NAME	C. POINT OF CONTACT TELEPHONE NUMBER	
Ohio Department of Transportation (ODOT)	Randall Over	216-584-2150	
28. BRIEF DESCRIPTION OF PROJECT AND RELEVANCE TO THIS CONTRACT (INCLUDE SCOPE, SIZE, AND COST)			

MBP is providing full-time scheduling services on this major design-build project. MBP reviewed the project site and contract documents in order to develop a complete understanding of the design and construction scope, staging, physical and contractual restraints and to establish expectations for the representation of the project in the form of a baseline schedule. MBP reviewed the contractor's schedules, reported findings and attended meetings with ODOT and the contractor. In addition, provided schedule-related reports for ODOT's use, verified payment applications and analyzed and documented changes to the schedule.

The \$287 million project involves construction of a new bridge for I-90 over the Cuyahoga River Valley. Other critical components include four new bridges, various improvements to ten existing bridges, new alignment for I-90 widening and upgrades to the interchanges.



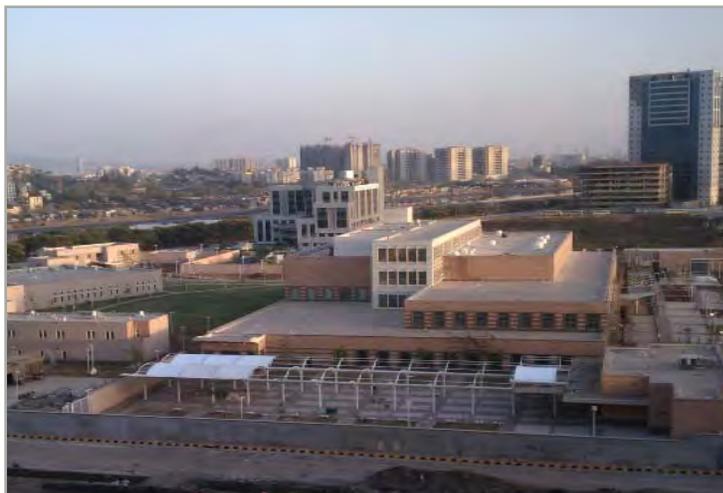
29. FIRMS FROM SECTION C INVOLVED WITH THIS PROJECT			
a.	(1) FIRM NAME	(2) FIRM LOCATION (City and State)	(3) ROLE
	MBP	Fairfax, VA	CPM scheduling services
b.	(1) FIRM NAME	(2) FIRM LOCATION (City and State)	(3) ROLE

F. EXAMPLE PROJECTS WHICH BEST ILLUSTRATE PROPOSED TEAM'S QUALIFICATIONS		24. PROJECT NUMBER	
25. TITLE AND LOCATION (City and State)		26. YEAR COMPLETED	
Overseas Building Operations (OBO) Contract, U.S. Department of State Various Cities		PROFESSIONAL SVCS	CONSTRUCTION
		Ongoing	Ongoing
27. PROJECT OWNER'S INFORMATION			
A. PROJECT OWNER	B. POINT OF CONTACT NAME	C. POINT OF CONTACT TELEPHONE NUMBER	
U.S. Department of State	Thomas Fitzpatrick	703-875-5057	
28. BRIEF DESCRIPTION OF PROJECT AND RELEVANCE TO THIS CONTRACT (INCLUDE SCOPE, SIZE, AND COST)			

MBP has provided CPM schedule services on an as-needed basis for Overseas Building Operations' construction renovation and additions to multiple U.S. Embassy and official facilities around the world.

Projects have included:

- **U.S. Consulate, Mumbai, India:** Provided baseline schedule development and risk analysis for this new compound. Project is anticipated to cost \$83 million.
- **U.S. Embassy, Beijing, China:** Provided a review of the contract including drawings and specifications and of the baseline schedule and associated phasing for this new compound. Provided recommendations for the contractors to complete the remaining work on time and analyzed the risks associated with any potential claims. Project is anticipated to cost \$275 million.
- **U.S. Embassy, Abuja, Nigeria:** Reviewed REA submitted by the contractor for drilled shaft work. Construction cost was \$45 million.
- **U.S. Embassy, Budapest, Hungary:** Reviewed as-built schedule on a project that experienced significant delays. Solved disputes and consulted on efficient project close out. Construction cost was \$20 million.
- **U.S. Embassy, Dushanbe, Tajikistan:** Analyzed REA submitted by the contractor. Compared as-built schedule to the planned schedule. Developed an expert report on project delays.
- **U.S. Embassy, Yaounde, Cameroon:** Provided dispute resolution services.
- **U.S. Consulate, Cape Town, South Africa:** Consulted on outstanding issues and provided an as-built schedule analysis of the projects. Construction cost was \$26 million.
- **U.S. Embassy, Berlin, Germany:** Provided schedule analysis services for this new compound. Based on site conditions, provided schedule analysis to complete the remaining work on time and analyzed the risks associated with any potential claims.



29. FIRMS FROM SECTION C INVOLVED WITH THIS PROJECT			
a.	(1) FIRM NAME	(2) FIRM LOCATION (City and State)	(3) ROLE
	MBP	Fairfax, VA	CPM scheduling, analysis
b.	(1) FIRM NAME	(2) FIRM LOCATION (City and State)	(3) ROLE

G. KEY PERSONNEL PARTICIPATION IN EXAMPLE PROJECTS

30. NAMES OF KEY PERSONNEL <i>(From Section E., Block 12)</i>	31. ROLES IN THIS CONTRACT <i>(From Section E, Block 13)</i>	32. EXAMPLE PROJECTS LISTED IN SECTION F <i>(Fill in "Example Projects Key" section below before completing table. Place "X" under project key number for participation in same or similar role.)</i>									
		1	2	3	4	5	6	7	8	9	10
Christopher J. Payne, PE, CCM	Project Manager	X	X		X	X	X	X		X	X
Ronald Bard, LEED AP	Senior Scheduling Manager	X	X	X	X	X					X
Duncan Stewart, PE	Senior Scheduler		X	X	X				X		
Jill Hubbard, PE, PSP, EVP	Senior Scheduler	X		X	X						
Nilkanth Bhatt	Senior Scheduler	X			X	X			X		
Joshua Lawrence, PE, PSP	Senior Scheduler										
Ronald Flournoy, PSP	Scheduler	X				X	X		X		
Michael Siburt, PE, CCE, PSP	Scheduler				X			X			

33. EXAMPLE PROJECTS

NO.	TITLE OF EXAMPLE PROJECT (FROM SECTION F)	NO.	TITLE OF EXAMPLE PROJECT (FROM SECTION F)
1	Department of Architecture, University of Maryland Various Locations, MD	6	New Walter Reed National Military Medical Center and Supporting Facilities Bethesda, MD
2	Virginia Polytechnic Institute and State University, Con- struction Management Term Contract, Blacksburg, VA	7	National Geospatial-Intelligence Agency (NGA) New Campus East Ft. Belvoir, VA
3	Dillard University, Campus Site Utilities New Orleans, LA	8	CPM Schedule Training, ODOT Columbus, OH
4	School of Education, University of North Carolina Wilm- ington, Wilmington, NC	9	Cleveland Innerbelt, ODOT Cleveland, OH
5	Lincoln Hall, National Defense University Washington, DC	10	Overseas Building Operations (OBO) Contract U.S. Department of State Various Cities

H. ADDITIONAL INFORMATION

34. PROVIDE ANY ADDITIONAL INFORMATION REQUESTED BY THE AGENCY. ATTACH ADDITIONAL SHEETS AS NEEDED.

MBP is a Virginia-based firm with ongoing presence in Ohio. MBP is comprised of professional engineers and construction consultants that specialize in engineering services related to construction performance. Our staff has extensive construction management experience having collectively managed more than \$90 billion in construction projects in more than two decades of business. We stand apart from others in this field because our engineers have hands-on field experience with contractors and owners in the construction of facility projects combined with engineering design expertise.

Our staff is experienced in project management, on-site engineering and inspection, cost estimating, scheduling, value engineering, risk analysis and claims resolution for virtually all segments of the construction market. Our staff's experience includes projects in federal, state and local government, educational, commercial, industrial, private, residential and transportation markets; including both new and renovation construction.

MBP provides the highest quality construction engineering services possible to its clients. Our engineers have successfully reviewed, estimated, managed, and inspected billions of dollars in construction projects. More specifically, the team provides expertise in construction management, cost estimating, CPM scheduling and claims avoidance. This expertise, gained through hands-on experience, provides the necessary tools both to evaluate and manage virtually any construction situation.

MBP has extensive experience providing services on an on-call basis and has the ability to provide high quality services on multiple tasks simultaneously. Similar MBP contracts include:

- Department of State, Overseas Building Operations – CPM scheduling and claims analysis
- National Geospatial-Intelligence Agency (NGA), New Campus East, Ft. Belvoir, Virginia
- Cleveland Innerbelt, Ohio Department of Transportation
- CPM Schedule Training, Columbus, Ohio
- Virginia Polytechnic Institute and State University, Construction Management Term Contract, Blacksburg, Virginia
- University of North Carolina, School of Education, Wilmington, North Carolina
- U.S. Army Corps of Engineers, Baltimore District – construction management services
- University System of Maryland, Department of Architecture Engineering and Construction – program management

APPROACH TO CPM SCHEDULE SERVICES

STEP 1 – PROJECT ASSESSMENT AND RESOURCING

MBP will match the right scheduling resource with the needs of the particular project. MBP will review the requirements of each project, to see that the provided scheduling professional is matched to the schedule complexity of the project and the specified schedule software.

We understand from Ohio's standard scheduling specification that the key player in preparing and managing the scheduling process is the Schedule Manager. Depending on the nature of the project and the contract format, the Schedule Manager could be a representative of one of the multiple prime contractors, a representative of the construction management firm overseeing the contract, or could be a representative from a single contractor. In any of these cases, we anticipate that our role would most frequently be outside schedule oversight, requiring us to work with the Schedule Manager. However, we could fully support a function wherein MBP operates as the Schedule Manager, working directly with the various project participants to prepare and update the schedule.

MBP is fully versed in various scheduling software. We can support earlier versions and the latest version of Oracle's and Microsoft's scheduling software: Primavera P3/P5, Primavera SureTrak 3.0, Primavera P6, previous versions of Microsoft Project, and Microsoft's Project Professional 2010.

Getting a Good Baseline Schedule - As early as possible, MBP will review the existing project design and develop a complete understanding of the project scope. If requested, MBP will attend design review and scope verification meetings, documenting items that will form the future schedule's parameters.

The Schedule Manager will be required to create a baseline schedule that reflects the scope of work in sufficient detail to allow Ohio State Architects Office (SAO) to monitor progress, assess time impacts and coordinate SAO or third party work. Our reviews will be based upon both our detailed understanding of the project and MBP/SAO established checklists. MBP will produce a report that will clearly identify specific items of contract non-compliance.

In order to perform a thorough and timely review, MBP will draw support from our team, which has been specifically assembled for the SAO contract. As part of the review, MBP will provide assurance to SAO that the baseline schedule reasonably represents anticipated costs, and is coordinated with design submittals and the interim schedule. We clearly understand the importance that SAO has a valid expenditure forecast.

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MBP's proposed staff forms a fully effective team that will provide timely comments and sufficient availability, thereby avoiding prolonging the process through unnecessarily long review periods.

STEP 2—EXECUTION

MBP will review each monthly schedule update, facilitate discussions at the progress meetings, and make written recommendations to SAO whether to approve any proposed revisions. MBP's monthly schedule review report will detail noncompliance items; reasons for schedule rejection; suggestions for improvements; progress as compared to the baseline and previous schedule updates; reported changes; and recommend approval or rejection of each update. MBP uses tools such as Claim Digger™ as well as detailed job knowledge to find changes in the schedule that were not reported by the DBT and recommend approval or rejection of each. MBP will review the Schedule Manager's narrative report to verify that it has adequately explained progress, identified changes and reported reasons for changes or issues.

Depending on the project's specific needs, MBP is prepared to provide any or all of the following schedule-related services:

Bid and Award Phase

Project Master Schedule. The master schedule will be a summary level schedule with resource-loaded activities. The schedule will establish key milestones in the project performance from design through project completion and move-in. It will include necessary activities by project team members sorted by responsibility as well as a preliminary schedule of the construction sequence. From the master schedule, MBP will identify a list of critical dates, to identify the latest finish dates for milestone activities and the responsible party.

Contracts for Construction. MBP will review the completed bid documents for scheduling content to identify conflicts or omissions; and determine if there is realistic allocation of risk and responsibility to the appropriate parties. MBP will notify SAO of any problems found and make recommendations to remedy.

Preliminary Construction Schedule. From the completion of the Master Schedule, MBP can work to specify the immediate needs and critical dates involved in construction start up and project kick-off.

Pre-Construction Conference. Following the award of the contract to the successful bidder, MBP will participate in the pre-construction conferences to launch the start of construction. MBP will support several schedule-related items be included in the conference's agenda. They include:

- Contractors' baseline CPM schedule
- Sequencing of major work including phasing

- Requirements for occupied facilities
- Working hours

Construction Phase

MBP's services during the construction phase will focus on the performance aspects of construction. Our goal is to provide SAO the scheduling control and tracking services to support on-time completion and cost management.

Administration of the Construction Schedule. MBP's scheduler will administer all elements of the project schedule and/or monitor the activities of the designated Schedule Manager. Our scheduler will oversee the contractors' submittals; make weekly or monthly updates; and coordinate the contractors' work with the architects and engineers (A/E), SAO staff, utility companies, and other agencies as required. MBP will work as an extension of the SAO staff and provide the support required to promote the successful completion of each project.

Baseline Construction CPM Schedule. MBP will work closely with the Schedule Manager to track the contractors' progress in developing its cost-loaded baseline schedule. This will include regularly scheduled CPM progress meetings during the schedule development process. MBP will provide SAO and the A/E with status updates concerning the contractors' and Schedule Manager's progress in developing the schedule.

Review of Contractors' Baseline Construction Schedule. MBP will enforce the project scheduling requirements to assure SAO receives an accurate, complete and acceptable baseline schedule from the contractors. The schedule will be an important tool throughout the project for establishing progress payments and evaluating time extension requests for impacts due to changes. MBP's review of the baseline schedule and any required schedule resubmissions will include a narrative detailing our findings and offering recommendations for acceptance/rejection.

Review of Contractors' Schedule of Values. MBP will review the schedule of values submitted by the contractors to verify that it is coordinated with the cost-loaded baseline schedule. Again, MBP will prepare a narrative detailing our findings and provide recommendations for acceptance/rejection.

Monthly Progress and Payment Requisition Meetings. A schedule review meeting, chaired by the A/E, Schedule Manager or MBP, can be held with the contractors on a monthly basis to review project schedule status. MBP will evaluate the contractors' schedule updates to confirm the contractors have accurately reported the progress of the work and the impact of approved changes. The results of these schedule updates will be entered into the project CPM schedule update to determine the overall project status and payment due to the contractors on a monthly basis. We prefer to

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conduct schedule review meetings in conjunction with payment requisition meetings and we will advise on payments due based on project status, as-built schedules, and resources used.

Monthly Construction Schedule Updates and Status Reports.

MBP will maintain strong lines of communication with SAO, the A/E, the contractors and all other parties involved in the project. MBP will provide monthly project status reports including:

- Updates to the master schedule
- Monthly updates of construction progress, prepared jointly with the contractors
- Contract modification reports
- Cash flow projection updates
- Statement of accounts for general conditions expenditures
- Discussion of conditions affecting work including weather, design discrepancies, construction problems, etc.

MBP will monitor construction progress, update the master schedule and distribute the master schedule to SAO, the contractors, and the A/E on a monthly basis.

Following review, MBP will issue a schedule review report for each schedule update which will include, at a minimum:

- Schedule summary overview
- Schedule revisions
- Critical path – shown in both as a bar chart and a tabular report
- Schedule comparison – comparing the previous and current month's updates and assessing changes made
- Submittal/procurement schedule

MBP will review the contractors schedule submittals and evaluate them not only for compliance with the specifications but also for reasonableness and completeness. Elements to review include:

- Reasonable work durations
- Realistic critical path and schedule logic
- Anticipated weather conditions
- Accurate resource and cost loading
- Shop drawing submittals and approval, allowing sufficient time for reviews and resubmittals
- Procurement, fabrication and delivery of major materials and equipment
- Checkout, startup, and commissioning of major equipment
- Submittals of record drawings and operations and maintenance (O&M) manuals

- Cleanup and punchlist
- Owner-furnished or owner-installed equipment
- Work by others
- Specified interim completion milestones
- Pre-final, final inspections, and substantial completion
- Final completion
- Owner occupancy

Resource/Cash Flow Analysis. With a cost-loaded schedule, it will be critical to analyze both resources and cash flow monthly. MBP will compare actual resource utilization with the contractors early- and late-start projections. We will also compare actual approved contractor requisitions with the contractor schedule of values. All results will be presented in both graphical and tabular format and be accompanied by a narrative.

Construction Observation. Should SAO require additional on-site construction monitoring, MBP will mobilize quickly. We will verify the contractors daily reports and observe daily:

- Weather conditions
- Site staffing
- Active operations
- Compliance issues
- Inactive operations
- Contract issues
- Equipment and material
- Coordination issues
- Unusual or unanticipated circumstances
- As-built schedule data

MBP will prepare and maintain its own daily reports documenting its observations.

Change Order Time Impacts Analysis. MBP will review change orders and accurately assess their impact to the project's critical path. We will review the contractors' time impact change order proposals and prepare a merit/entitlement analysis for each change. This entitlement analysis will provide a history of the contract change, an independent estimate of the cost (if requested), an analysis of the schedule impacts and recommendations for issuance of a change order. This document will be basis for negotiating the total price (if requested) and schedule-related impacts to be included in a subsequent change order. On multiple prime contracts, these analyses may be complicated by the impact that one contractor's delay may have on the others.

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Recovery Schedule. As part of the schedule review process, MBP will identify impacts and schedule slippages in the monthly schedule updates. As directed by SAO, MBP will assist the contractors to develop recovery schedules which will mitigate delays and place the project back on track. We will examine resequencing work activities, adjusting work hours, and supplementing the workforce as means of achieving schedule recovery. MBP will notify SAO when total recovery is impracticable or not possible and advise SAO of the sources of delay and the parties responsible for the delay.

Responding to Change. If changes or adverse weather result in potential changes to the project duration, the contractor(s) must submit a request for an extension of time, with supporting time and cost analysis. Accurate and fair analysis requires that the current schedule is a reasonable and realistic representation of the current project condition. MBP is experienced in developing presentations to dispute review boards (DRBs) and can support SAO throughout the resolution of a time or cost-related dispute, including expert testimony.

Schedule Revision. At SAO's request, MBP will assist the contractors to revise the construction schedule to address field modifications and other changes which may arise during the construction phase. Once again, we will advise SAO about the impact these revisions will have on the project completion date and whether extensions of time are warranted.

Contractors Claims. When contractor claims are first submitted, MBP will provide SAO with a preliminary evaluation of the merits of the claims, identifying specific strengths and weaknesses. This will include a discussion with Project staff, preliminary review of available records and theory and strategy development for claim review/counterclaim preparation. We will also develop an action plan for detailed analysis.

Move-In Schedule. As construction nears completion, MBP will prepare, monitor and update a detailed move-in coordination schedule necessary to occupy, operate, and maintain the new facility. MBP will coordinate with the efforts of the designer, SAO, and the contractors to ensure that the project is properly closed-out in full conformance with the contract documents.

MBP will prepare a post-construction or move-in schedule to coordinate the following:

- Verify the project is substantially complete and ready for substantial completion inspection
- Report on the status of all unresolved issues
- Generate punchlists and aggressively pursue contractors progress on items
- Verify the project is ready for final completion inspection

- Expedite receipt of occupancy permit
- Finalize and package all project documentation for transmittal to SAO
- Establish the heating, ventilating, and air conditioning (HVAC) commissioning team and coordinate the start-up, test and balance of HVAC equipment
- Coordinate receipt of O&M manuals, as-built documents, and schedule training sessions
- Phase occupancy in accordance with safety codes
- Schedule furniture installation and personnel relocation

Claims Evaluation. At SAO's request, MBP can continue to provide claims evaluation assistance during the post-construction phase. We have assisted clients in negotiated settlements and mediation as well as provided expert testimony in arbitrations and trials. We have developed a methodology for claims analysis which produces a thorough and accurate assessment of project delays and cost impacts.

OTHER SPECIAL QUALIFICATIONS

MBP's years of experience, practical training and ongoing joint efforts to improve SAO's scheduling specifications and processes provides us with unmatched expertise in the application and understanding of SAO's CPM scheduling program.

MBP has developed a robust risk management practice that combines qualitative risk management best practices (identifying key risk drivers, developing mitigation strategies and monitoring the issues regularly) with quantitative risk analysis (including probabilistic schedule and cost evaluation through Monte Carlo simulations). These practices can be utilized in a partnering environment to discuss options with the contractors, or used separately to examine alternatives or to evaluate the likelihood of the contractors completing on time and on budget.

MBP understands that a key goal of any publicly funded project is to gain and hold the trust of the local taxpayers – to show that major civil works can be done on time, within budget and without unreasonable disruptions to service. MBP will implement proven controls and procedures so that SAO has the utmost ability to control the project schedule, cost and report to the public with full transparency.

GRAPHICS SUPPORT

Most construction claims are inherently complex and involve multiple variables and complicated, dense streams of data. Often in analyzing such claims and ultimately in presenting the findings of such analysis to the finders of fact, the best way to communicate the nuisances of the conclusions is through simple, yet impactful, pictures or graphics.

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We have a team of fully dedicated graphic designers that are highly skilled in distilling complicated concepts into influential, easy to understand graphics that instantly convey the relevant findings to the viewer. One example of this is the MBP Schedulegraph©, which summarizes planned and as-built schedule critical paths and show all delays and the responsible party on one easy-to-understand graphic.

MBP has performed on-call CPM scheduling, cost estimating, and claims analysis services for a number of public owners on projects similar to those designed and constructed by SAO. The quality of our service is best determined by our clients, since we must meet client expectations to be successful. MBP surveys its clients on a quarterly basis to elicit comments on the competence of our staff, the timeliness of work and the value of our services. This survey includes a numerical evaluation of our client's satisfaction. On a 1-to-5 scale, with a score of 5 representing highest levels of satisfaction, our client satisfaction average score in 2010 was 4.6.

CLIENT FEEDBACK

We regularly receive positive feedback from our clients regarding satisfaction with our claims analysis services. The client quotes below demonstrate our excellent past performance record delivering effective CPM schedule and claims/dispute resolution services:

Alison Hunt, Program Manager, National Gallery of Art

"Your firm's technical assistance was essential to our success in scheduling this work while maintaining critical temperature and humidity control for the national treasures of art within the Gallery."

Brice King, U.S. General Services Administration

"[MBP] was able to build and cultivate relationships with the on-site construction team, the government project team, and the end user team that helped lead to a successful completion. I, on behalf of GSA and SSA, would like to thank MBP for their agency wide contributions associated with cost, (estimates), quality (review and inspections) and time (schedule reasonableness) related to all CM responsibilities involving tenant improvements. "

Dennis Pritchett, Area Engineer, Central Washington Area, US-ACE Baltimore District

"MBP has always provided outstanding staff for our construction projects that also happened to be more cost effective than the other CM firms supporting us."

USACE Norfolk District, Counsel, January 2011

"Excellent!!! Thanks so much; glad we finished on a Friday and everyone can go home and enjoy the weekend. I'm glad to be working with [MBP]—I know you "get it"—and that made it easy. Thanks again."

Michael F. Kiely, U.S. Postal Service

"Thanks to your excellent work, this positive result was possible. We were very pleased with your analysis and would be happy to use you again, or, if asked, to recommend you to someone else interested in using your company."

Louis R. Pepe, Esq., Pepe & Hazard LLP

"Analyzing delays on this very complicated project, attributing them to particular events, and ensuring the exclusion of any overlap with other delaying events was a most formidable task indeed. Fortunately we had on our team [MBP] the best qualified experts to do just that...All of us want to thank you for your invaluable contribution."

Judge Miller's Opinion, Sunshine Construction and Engineering, Inc. v. The United States (U.S. Court of Federal Claims No. 02-250C)

"Defendant's delay expert, Charles E. Bolyard, Jr., ...provided a reliable, comprehensive analysis regarding the sequence of contract performance. His cogent and credible testimony was helpful, because no documents, including plaintiff's updates, or witnesses presented as coherent a picture of the EC/L Project's work sequence. The extant documentary record is consistent with Mr. Bolyard's as-built analysis. Essential to Mr. Bolyard's testimony was his explication of the Critical Path Method ("CPM")...Throughout his testimony, the court found that Mr. Bolyard greatly assisted in the explanation and understanding of how the EC/L Project was actually constructed."

I. AUTHORIZED REPRESENTATIVE

The forgoing is a statement of facts.

31. SIGNATURE



32. DATE

April 20, 2011

33. NAME AND TITLE

Christopher J. Payne, PE, CCM, Senior Vice President/Regional Manager

