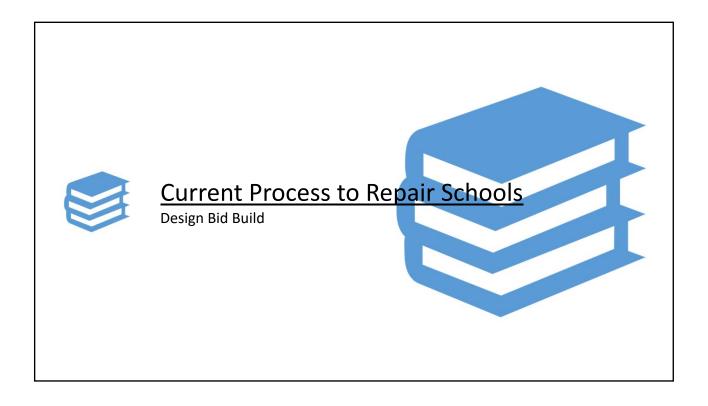
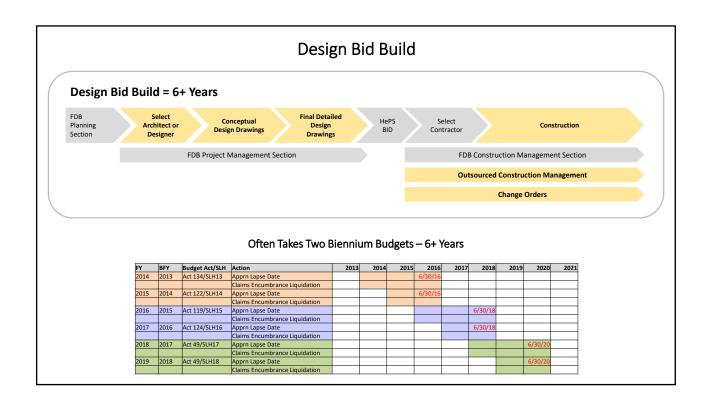
Change Orders for Government Procurement since 1792...

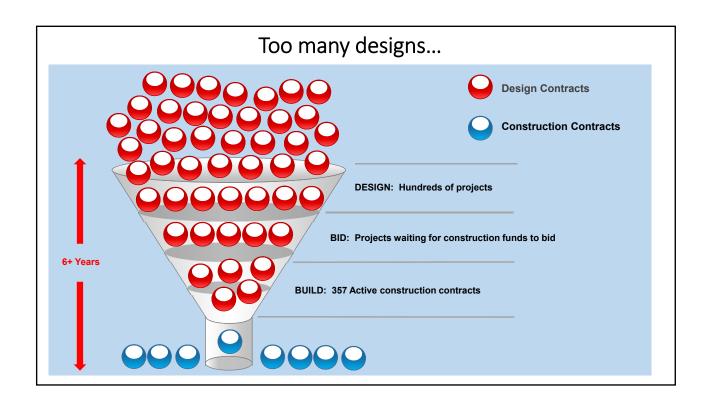


Cape Henry Lighthouse is the first federally funded public works project of the newly formed United States government. It was authorized by George Washington and overseen by Alexander Hamilton in 1792.

It was also the first federal construction project under the Constitution, for an original contract amount of \$15,200 (an additional \$2,500 was required to finish the lighthouse).





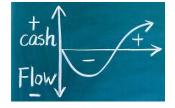


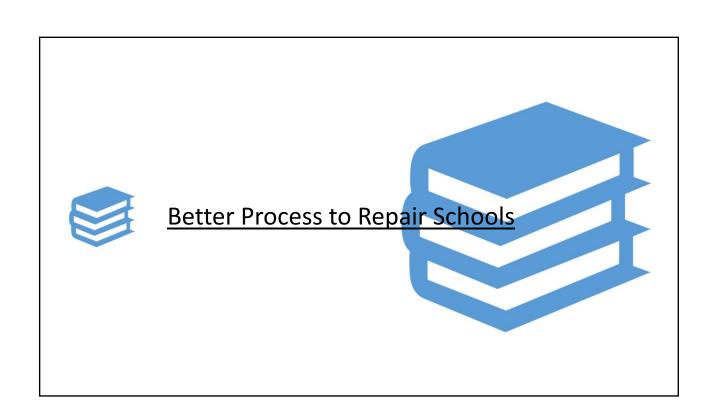
Unmanageable cash flow from low bid procurement...

357 – Active Construction Contracts

\$20M/year Change order costs

\$15M/year Construction management costs
\$35M/year Needed to complete construction





A better way to repair schools: JOC

Job Order Contracting (JOC)

Contract delivery method used to accomplish a large number of individual projects under a single master contract awarded to the most qualified prequalified bidder who is licensed, bonded and general liability insured. Bidder agrees to a fixed period, fixed unit price, and indefinite quantity contract.



Who Uses Job Order Contracting?

MUNICIPALITIES, such as The City of Chicago, have used JOC since November 1992. To date, 8 departments within The City of Chicago have completed over \$330,000,000 in construction and maintenance services

EDUCATIONAL Institutions, K-12, Colleges and Universities benefit greatly from JOC. The New York City Board of Education instituted a JOC program in 1996 and since then has realized a 91% decrease in procurement time, plus the average project cost is 11.7% under the estimate.

HOUSING AUTHORITIES use JOC for demolition as well as construction. The Housing Authority of Baltimore City has used JOC since 1994 with the focus on modernization and rehabilitation projects. Over 50% of the work was subcontracted to minority and women owned businesses.

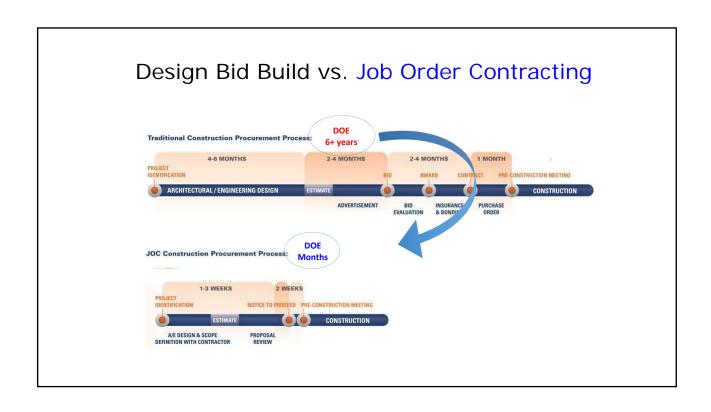
<u>FEDERAL</u> need sparked the invention of JOC in 1981. Since then JOC has been developed and implemented for the Department of Defense, including the U.S. Army, the SABER system for the U.S. Air Force, and the Work Order Contracting system for the U.S. Navy. The U.S. Postal Service uses JOC to operate a nationwide program to maintain and rehabilitate over 38,000 separate facilities.

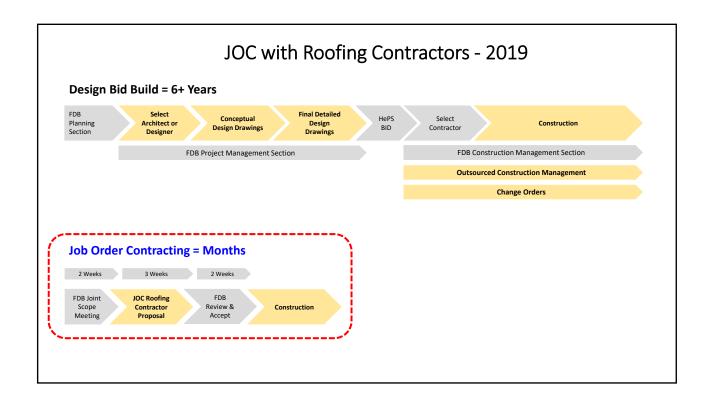
TRANSPORTATION authorities like Pennsylvania Turnpike Commission, WMATA and MARTA utilize JOC everyday. MARTA's JOC program, in Atlanta, includes projects for the rehabilitation of facilities, passenger areas, roofing and paving, plus installation of security devices. 43% of all Job Order work was subcontracted to local minority firms.

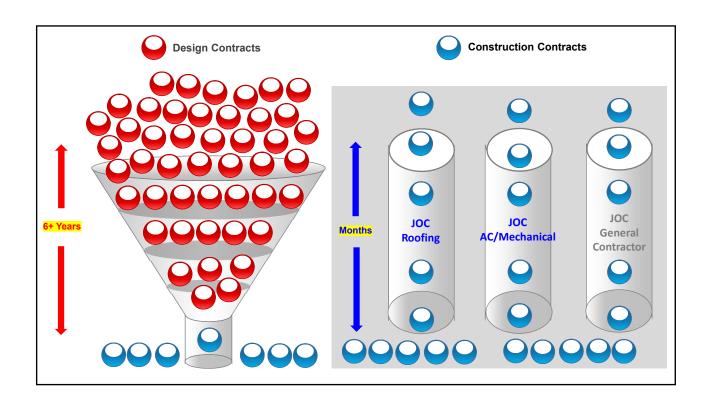
WATER and WASTEWATER departments like the NYC Department of Environmental Protection, Bureau of Waste Water Treatment, have used JOC since 1999 for projects involving actuators, pumps, settlement tanks, roofs, valves and grinders.

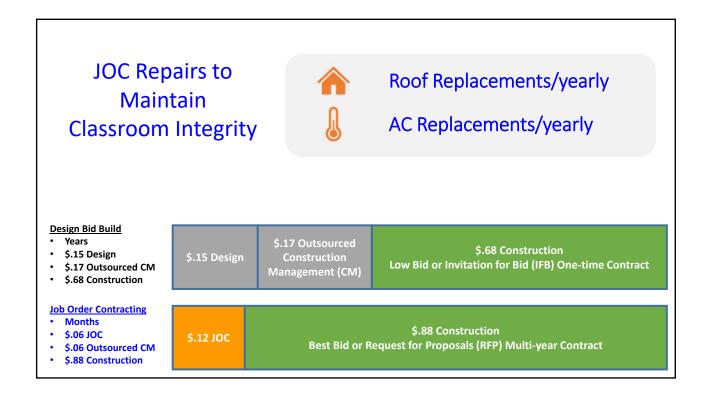


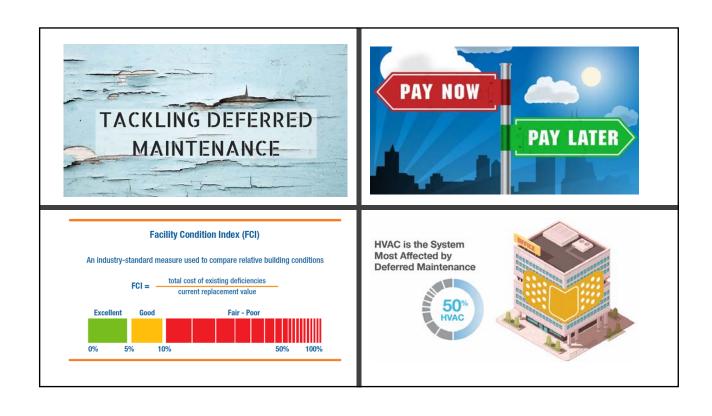
USPS on Kauai uses JOC!











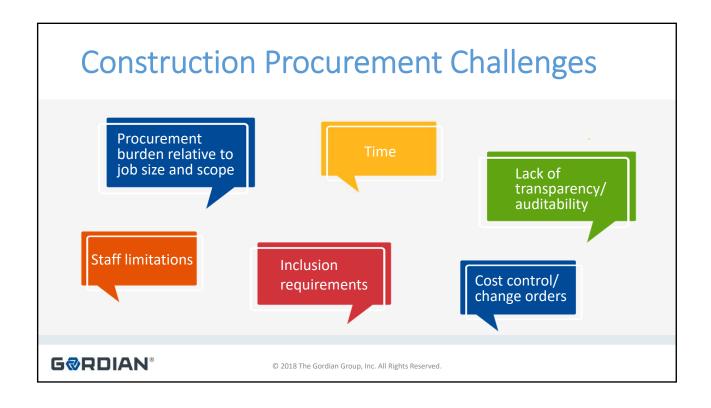


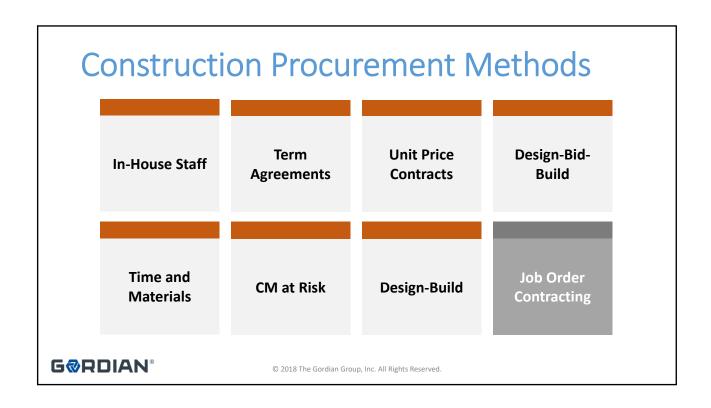
Chronology of Events		
Date	Event	
August 2017	National Institute of Governmental Purchasing Conference	
October 2017	Assistant Superintendent Carlson approval to use JOC for DOE R&M Projects DOE started preparing the JOC consultant RFP	
January 24, 2018	RFP posted	
May 22, 2018	Consultant selected (Gordian) Initial contract term: 18 months; renewals five (5) additional twelve-month periods	
May 23, 2018	Notice to Proceed Outreach meetings were held on Oahu and the Big Island	
August 15, 2018	 Three RFPs posted (up to three contractors each): Oahu roofing projects Big Island roofing projects HVAC projects (Oahu, Maui, Big Island) 	
January 16, 2019	Seven contracts were executed: Oahu roofing projects (3) Big Island roofing projects (2) HVAC projects (Oahu, Maui, Big Island) (2)	
February 2019	 King Intermediate School Cafeteria Roof Replacement The cost was \$877,88.30 for approximately 18,900 square feet of roof Take away the extra items work, the average cost of roof replacement is \$43 per sq. ft. which is comparable to market price 	
Present	Pos issued as of 09.27.19 \$10.818,862.48 HVAC projects starting in October with FY2020 funds	

Lessons Learned

Number	Description	
Alternate Procurement	 JOC is an alternative method of procurement The umbrella contracts save State time and work in procuring contractors for every project 	
Best Fit	 JOC is at its best when we use it for projects requiring minimal design It fits better for R&M projects and not for CIP projects with new facilities 	
State Benefits	 The unit prices eliminates conflicts due to price State can keep good contractors that perform and producing quality work to the State 	
Contractor Benefits	 The contractors have up to 5 years of steady work With the steady work, they can maintain a good crew The contractors paid a fair price for their work 	
Pilot Program	 Learning curve for DOE Facilities, Gordian and JOC Contractors It takes hard work from all three parties to make JOC program a success Scheduling with schools while classes are in session is necessary to fix schools, working after hour or weekends may increase the cost of the project 	









Where Is JOC Used

State & Local Agencies

Arizona Dept. of Administration Pennsylvania Dept. of General Services Los Angeles County Dept. of Public Works Chicago Dept. of General Services Utah Div. of Purchasing Northern Virginia Joint Procurement

Transportation Agencies

Maryland Dept. of Transportation New Jersey Dept. of Transportation Indiana Dept. of Transportation New York Dept. of Transportation

Water/Waste Water Agencies

San Francisco Public Utility Commission **NYC Department of Sanitation** Chicago Dept. of Environment Metropolitan Water Reclamation District NYS Dept. of Environmental Conservation Sacramento County Water

Housing Agencies

Seattle Housing Authority Los Angeles County CDC Chicago Housing Authority District of Columbia Housing Auth. **Baltimore City Housing Authority**



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Job Order Contracting

Definition

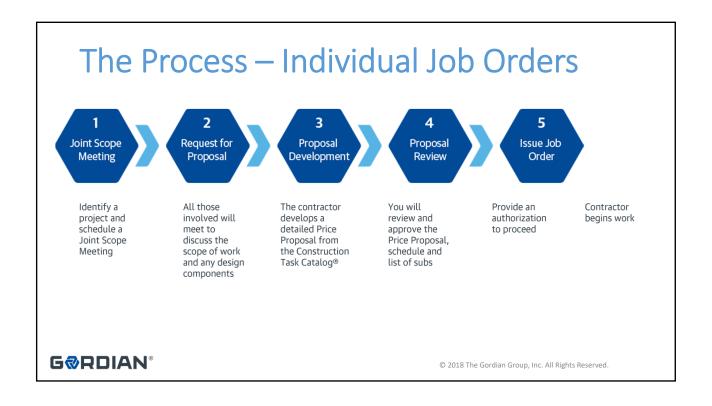
- Indefinite delivery/indefinite quantity process (IDIQ)
- Enable contractors to complete a substantial number of individual projects with a single bid
- Tasks based on competitively-bid, preset prices

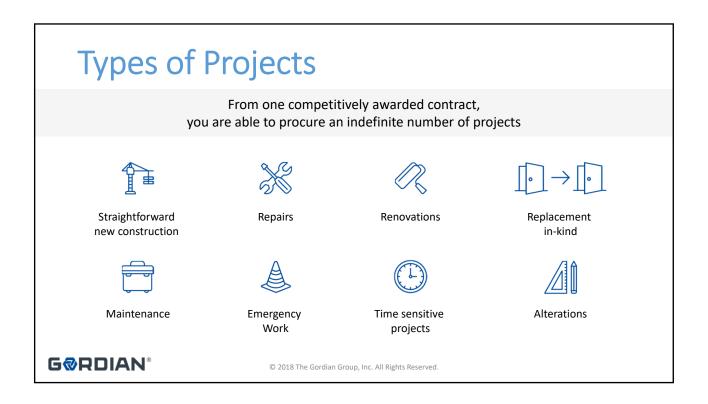
Value

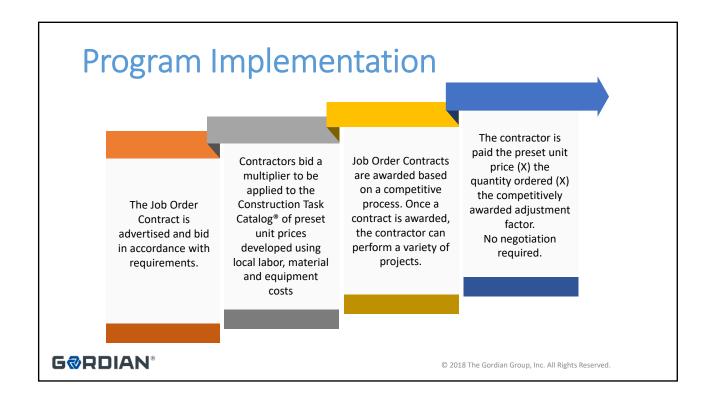
- Saves time and money
- Provides transparency and auditability
- Promotes Contractor Performance



Umbrella Contract Part 1 Part 2 **Procuring Individual** Bidding the Umbrella Job Order Projects From Owner **Contracting Contract** Owner Subcontracting Opportunities Owner Project A Owner Awards Contractors Advertizes Umbrella Subcontracting Owner Submit Job Order Job Order Project B Opportunities Bids Contracting Contracting Contract Subcontracting Contract Owner Project C **Opportunities G®RDIAN®**







Contract Documents



- 1. Construction Task Catalog® (CTC)
 - Construction tasks with unit prices
 - Unit prices based:
 - Local prevailing wage rates
 - Local material and equipment costs
- 2. Technical Specifications
 - Standard technical specifications
- 3. Bid Documents
 - Form of contract, bid forms, general conditions, etc.



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