

STATE PROPERTIES REVIEW BOARD

Minutes of Meeting Held On April 3, 2023 – remotely via telephone conference –

Pursuant to Governor Lamont's Executive Order No. 7B regarding suspension of In-Person Open Meeting requirements, the State Properties Review Board conducted its Regular Meeting at 9:30AM on April 3, 2023 remotely via telephone conference at (860)-840-2075 and use passcode 284890492#.

Members Present:

Edwin S. Greenberg, Chairman
Bruce Josephy, Vice Chairman
John P. Valengavich, Secretary
Jack Halpert
Jeffrey Berger
William Cianci

Members Absent:

Staff Present:

Dimple Desai
Thomas Jerram

Guests Present

Barbara Cosgrove, DAS/DCS-PM
Sarah Tierney, DAS/DCS-ADPM
Nicholas Ross, DAS/DCS-PM

Mr. Halpert moved and Mr. Berger seconded a motion to enter into Open Session. The motion passed unanimously.

OPEN SESSION

1. ACCEPTANCE OF MINUTES

Mr. Halpert moved and Mr. Berger seconded a motion to approve the minutes of the March 30, 2023 Meeting. The motion passed unanimously.

2. COMMUNICATIONS

3. REAL ESTATE- UNFINISHED BUSINESS

4. REAL ESTATE – NEW BUSINESS

5. ARCHITECT-ENGINEER - UNFINISHED BUSINESS

PRB File #:	22-188
Origin/Client:	DCS/DOE
Transaction/Contract Type	AE / Amendment
Project Number	BI-RT-889
Contract	BI-RT-889-ARC
Consultant:	JCJ Architecture, PC
Property	Bridgeport, Palisade Ave (500)
Project purpose:	New Bullard-Havens Technical High School
Item Purpose	Amendment #1 for Expanded ARC/CA Services & Contract Credit

At 9:32 Ms. Cosgrove and Ms. Tierney, both of the DAS Division of Construction Services, joined the Meeting to participate in the Board's discussion of this Proposal. Both left the Meeting at 9:39.

CONSULTANT FEE: \$387,257 (NTE) ~~\$417,257~~

At the State Properties Review Board meeting held on December 1, 2022, the Board voted to suspend this file pending Board clarification of the following issues:

1. Receipt of an updated Form 1105 approved by the agencies involved.
2. Adding a section to eliminate \$30,000 contingency reference from the original A/E contract or revising this amendment #1 to eliminate \$30,000 and revising the fee.
3. OLAPP review of Article F of Amendment #1 for numbering of the sub-categories.

On March 2, 2023, DCS responded as follows:

You had emailed questions on the above-referenced amendment to the Project Manager and received two sets of responses. I trust you are satisfied with those responses. Please note for clarification that this project was initiated under a prior policy involving the Office of School Construction Grants and Review (OSCG&R) being involved with setting a budget for CT Technical High Schools. As you know, the original budget was insufficient. As it stands now, the only interaction between a CTECs project and the OSCG&R is for funding purposes. Statute requires legislative approval of the project funding and any changes to that funding. Because of that requirement, there was a significant lapse in time before the project could proceed with the appropriate budget.

Also at the Board's request, the contingency has been removed. Please note this is unique to this amendment and is done against the judgement of the agency as the inclusion of a contingency gives the professional project management team a certain degree of flexibility and our contracts build in approval parameters for the use of any such contingency.

Staff reviewed the revised Amendment #1 and concluded the following with respect to the three issues listed in the Action Memo:

1. Receipt of an updated Form 1105 approved by the agencies involved.
Staff Response: No updated Form 1105 was provided.
2. Adding a section to eliminate \$30,000 contingency reference from the original A/E contract or revising this amendment #1 to eliminate \$30,000 and revising the fee.
Staff Response: Section 1(F) of the Amendment removes Section 2E (contingency) from the original Contract. OK
3. OLAPP review of Article F of Amendment #1 for numbering of the sub-categories.
Staff Response: Section 1(F) of the Amendment removes Section 2E (contingency) from the original Contract. OK Staff reviewed the revised Amendment #1 along with the original Contract and Article F appears to be correctly numbered. OK

RECOMMENDATION: Staff recommend approval of Amendment #1 in the amount of \$387,257 ~~\$417,257~~ to provide expanded ARC and CA Services for the Project. The revised Amendment #1 reflects a reduction of \$30,000 in the Consultant's Design and Construction Phase services, considered savings to the State.

- DCS & OSCGR have confirmed for that funding is available for this Amendment.

At 9:32 Ms. Tierney and Ms. Cosgrosve, both from DCS, and Mr. Poulin from the Department of Education (DOE) CT Technical Education and Career System (CTECS) joined the Meeting to participate in the Board's discussion of this Proposal. All left the Meeting at 10:42.

CONSULTANT FEE: \$417,257 (NTE)

At the February 25, 2021 SPRB Meeting, the Board approved, under PRB #21-007, the Consultant's Contract (BI-RT-889-ARC) for the Bullard Havens Technical High School project with the completion of a pre-design study and then the initiation of a schematic design phase through the construction document phase and subsequent completion of construction. The overall compensation rate approved for this basic service was \$4,573,722 with an additional \$613,632 for special services, for a total fee of \$5,187,354. The contract includes an additional \$30,000 for A/E Design and Construction Phase Contingency.

The following are the salient dates with respect to this Proposal:

- 4-07-2021 – AG approval of BI-RT-889-ARC Contract
- 4-14-2021 – Predesign Phase commenced (due 60 days)
- 6-13-2021 – Predesign Phase due date to DCS
- 8-01-2021 – OSCGR issues Revised Education Specifications reducing GBA by 61,649 sq.ft.
- 8-13-2021 – NTP for Schematic Design Document issued (due 90 days)
- 9-07-2021 – AG approval of CMR (Gilbane) Contract
- 11-10-2021 – Schematic Design due date to DCS
- 12-8-2021 – NTP for Design Development issued (due 90 days)
- 1-04-2022 – DCS email (PM) discussing WAO for structural steel and stating expectation that CD will be completed by 9-01-2022. ADPM to notify OSBI & OSFM that Early Steel Bid Package will require review/approval on or before 9-22-2022.
- 1-04-2022 – ARC Letter to DCS for additional \$4,975 fee for WAO/Bid Docs for structural steel
- 1-10-2022 – ARC Letter to DCS for additional \$92,700 fee for geothermal design to meet carbon reduction measures (Eos 1 & 3)
- 3-08-2022 – Design Development due date to DCS
- 5-01-2022 – NTP for Contract Documents (due 159 days – up from 120 days - granted due to redesign issues)
- 5-07-2022 – Governor signs PA 22-118 including additional funding for Project

(2) Previously Authorized Projects For the Technical Education and Career System That Have Changed Substantially in Scope or Cost which are Seeking Reauthorization.

School District	Authorized	Requested
School		
Project Number		
CTECS (Bridgeport)		
Bullard-Havens		
900-0015 VT/N		
Estimated...		
Total Project Costs	\$139,447,195	\$199,000,000
Total Grant	\$139,447,195	\$199,000,000

- 5-18-2022 (revised letter) – ARC Letter to DCS for expanded design services stating 'design efforts are complete through the design development phase' need 30 days for redesign and extend CD phase to 150 days (up from 120 days)
- 5-18-2022 (revised letter) – ARC Letter to DCS for extended CA services for 5.5 additional months @ \$25,250/month for a total of \$138,875.
- 10-07-2022 – Contract Documents due to DCS
- 10-20-2022 – CMR Invitation to Bid to qualified Subcontractors
- 11-07-2022 – Bid Opening Date
- 1-07-2023 – GMP Proposal due to DCS (not more than 60 days from Bid due date)

- TBD – Notice to Proceed (1,248 construction days + 90 days to Acceptance)
- TBD – Substantial Completion
- \$6,345/day – Liquidated Damages beyond Substantial Completion
- TBD – Final Acceptance
- \$3,225/day – Liquidated Damages beyond Final Acceptance

Under this proposal (PRB #22-188), DCS is now seeking Board approval of Amendment #1 to the Consultant Contract to expend an additional \$417,257 (NTE) for additional Design Services, extended CA Services and provision of a Credit, all related to the construction of the new Bullard Havens Technical High School project, not included in the Scope of the original ARC Contract.

DCS provided the following support for the expanded Design and CA services:

- Ninety-Two Thousand Seven Hundred Dollars (\$92,700.00), for **carbon reduction design and wellfield(s)** and is intended to compensate the Architect for the following services:

Carbon Reduction Design/Geothermal Mechanical System Design, utilizing a geothermal design approach to implement carbon reduction measures for the Bullard Havens THS new facility per the Governor's Executive Orders #1 and #3.

Prepare Design Development and Contract Document plans and specifications for the installation of mechanical, electrical, and plumbing (MEP) systems design to implement Carbon Reduction measures within the new building and geothermal wellfield(s).

Calculate the minimum number of wells required using thermal conductivity test results.

- Four Thousand Nine Hundred Seventy-Five Dollars (\$4,975.00), for **early structural steel bid documents** and is intended to compensate the Architect for the following services:

The Early Structural Steel package is to include the entire building superstructure, specs, decking, joists, structural model, framing for screens for the main building and all ancillary buildings, such as the bus storage, field house, and bus garage, etc. Annotate the selected bid date on pertinent drawings and FYI on drawing being provided for reference only.

- A Credit of Ninety-Seven Thousand Six Hundred Seventy-Five Dollars (\$97,675.00), for **reduction in design services scope** and is intended to compensate for the following services:

Provide a credit for design for the reduction in the overall gross square footage, reduction in gross square footage was calculated at 61,649 gross square foot reduction and is per the revised Education Specifications dated 8/1/21 issued by OSCGR and CTECs and Agency Request #2.

- Two Hundred Seventy-Eight Thousand Three Hundred Eighty-Two Dollars (\$278,382.00) and is intended to compensate the Architect for the following services:

Construction document design phase services to accommodate the scope of work outlined in Agency Request #2 and add thirty (30) calendar days to the duration of the Contract Document Phase.

- One Hundred Thirty-Eight Thousand Eight Hundred Seventy-Five Dollars (\$138,875.00) and is intended to compensate the Architect and subconsultants for the following services:

Provide additional construction administration services per the Terms and Conditions of The Contract between the State and Architect and per the Connecticut Department of Administrative Consultant Procedure Manual requirements for the Architect Construction Administration Phase Services for a monthly rate of Twenty-Five Thousand Two Hundred Fifty Dollars (\$25,250.00) for an additional one hundred sixty-four (164) calendar days.

DCS & OSCGR have confirmed for that funding is available for this contract.

With this contract amendment DCS states that the construction budget is increased to \$163,292,579 and the total project budget is increased to \$199,999,000. The original budgets were \$95,580,000 and \$135,000,194 respectively.

JCJ Basic Service Fee (#21-007)	ARC Base Fees (\$)	Special Services	Total Fee	Construction Budget (\$)	% of Budget
Schematic Design Phase	\$693,533				
Design Development Phase	\$923,545				
Construction Document Phase	\$1,371,066				
Bidding and Review Phase	\$226,512				
Construction Administration Phase	\$1,359,066				
TOTAL BASIC SERVICE FEE (#21-007) (A)	\$4,573,722			\$95,580,000	4.79%
JCJ Fee for Extended Basic Services (PRB 22-188) (A1)	<u>\$319,582</u>				
TOTAL BASIC SERVICE FEE (#22-188) (A+A1)	\$4,893,304			\$163,292,579	3.00%
JCJ Special Services Fee (#21-007)					
Pre-Design (3 concept plans)	\$50,000				
Boundry/Topo/Wetlands Survey	\$15,400				
Geotechnical Services	\$60,445				
Special Inspection Services	\$8,800				
Acoustical Engineering Consultant	\$21,945				
Civil Engineering Supplemental Services	\$48,400				
Electronic/Audio Visual Services	\$41,635				
HAZMAT & Environmental Cons. Svs.	\$214,027				
Kitchen/Food Service Design Consultant	\$73,480				
Security/Telecom/Data Design Consultant	\$49,500				
Design Allowance/contingency	\$30,000				
TOTAL SPECIAL SERVICE FEE (#21-007) (B)	\$613,632				
JCJ Fee for Extended Special Services (PRB 22-188) (B1)					
Carbon Reduction Design (EOs 1 & 3)	\$92,700				
WAO Structural Steel Design/Bid	\$4,975				
TOTAL SPECIAL SERVICE FEE (#22-188) (A+A1)	\$711,307			\$163,292,579	0.44%
TOTAL FEE (PRB #22-188) (A) + (A1) + (B) + (B1)			\$5,604,611	\$163,292,579	3.43%

Staff have requested clarification of the following issues:

1. The approved Form 1105 identifies a \$95,580,000 Construction Budget and in this Amendment #1 it identifies a \$163,292,579 Project Budget, an increase of \$67,712,579 (+70.8%). Please clarify the following:

a) What is the correct Construction Budget?

DCS Response: \$163,292,579

Staff Response: OK

b) If the higher Construction Budget is correct, please provide an updated Form 1105 and confirm and identify the source of funding for construction.

DCS Response: I have requested a revised 1105 from CTECs and DAS Management.

Staff Response: Staff will wait for the amended document.

11-30-22 - CA-Arcadis Response: Amendment is underway and will be forwarded as soon as document is fully executed by all parties

c) Please provide the initial cost estimates included from both the SD and DD Phases.

DCS Response: Please see attached.

Staff Response:

Phase	Issued	Firm	Cost of Work
SD	12-3-2021	Unknown	\$155,448,933
DD	4-9-2022	AM Fogarty	\$152,928,139
CD	10-10-2022	Gilbane Cons.	\$164,591,411

d) The original Construction Budget indicated a \$341/sf project cost. The new cost is \$747/sf. Please clarify if this increase is within reason when compared to other DCS Projects.

DCS Response: The original 1105 was prepared by Kosta Diamantis is incorrect. \$341/sf cost is not correct for a technical high school building and based on 2010/2011 funding values. \$747/sf is in line with Grasso and Platt Technical High School and includes drilling approximately 250 geothermal wells to comply with the Governor's Executive Order #1 and #3

Staff Response:

#1. What is the process at OSCG&R for preparing B1105 and associated estimates?

11-30-22 - CA-Arcadis Response: Unfortunately, we are unaware of the process that was used to create the 1105 and estimate. At the time this was being executed by Kosta Diamantis.

#2. What is DCS's role/process in assisting user agency in preparing estimates/B1105, etc. as it is the final approving authority?

11-30-22 - CA-Arcadis Response: In the original submission of the 1105 DAS did not have a role in the creation of the document but the final document was reviewed and approved by DAS based on the recommendations of OSCG&R. For the revised 1105 DAS and CTECS prepared the documents based on the SD Estimate.

#3. Does DCS have any say in the estimates prepared by the user agency?

11-30-22 - CA-Arcadis Response: In the original 1105 there was not collaboration on the preparation of the funding request. In the revised 1105, DAS and CTECS had the ability to opine on the value based on the SDE estimates.

2. Article 2.E of the original ARC Contract provided a \$30,000 Design and Construction Phase. Please clarify what, if any, draws have been made from the Contingency.

DCS Response: No draws have been made from the \$30K contingency.

Staff Response: DCS should draw down this contingency. Pl amend the documents accordingly.

11-30-22 - CA-Arcadis Response: Barbara Cosgrove to reach out directly to discuss the usage of contingency

3. Please provide copies of Notice to Proceed (NTP) for SD, DD and CD Phases.

DCS Response: Please see attached.

Staff Response: DCS provided NTP for each Phase stating initial Total Construction Budget was \$95,580,000 per terms of Contract, and included the following salient information contained within each NTP:

Phase	NTP Issued	Due	Days to Complete	Construction Cost Est.
SD	8-13-2021	11-10-2021	89 (90/ARC)	\$116,207,572
DD	12-8-2021	3-8-2022	90 (90/ARC)	\$155,448,933
CD	5-1-2022	10-7-2022	159 (120/ARC)	\$163,292,578

4. Please provide copies of the WAO and NTP provided to the ARC and CA for the structural steel.

DCS Response: The WAO was submitted by the CMR on 11/14/2022 and is currently under review by OPLAPP. No Notice to Proceed to the ARC and CA have been issued relative to the structural steel.

Staff Response: OK

5. In 2018, Northeast Collaborative Architects prepared an ED SPEC for this Project that was incorporated into the Project and utilized in the initial design (likely already approved by OSCGR at the time), and in August 2021, OSCGR revised the ED SPECS and reduced the size of the Project by 61,649 sf. Please clarify the following:

a) Did this occur during the SD or DD phase?

DCS Response: The ED spec was revised during schematic design phase.

Staff Response: OK

b) What are the reasons for reducing the size of the project?

DCS Response: Inflation and the original 1105 budget prepared by Kosta Diamantis did not provide sufficient funding to construct a 260,000-sf school.

Staff Response: See 1d above.

c) Please clarify how the credit in the amount of \$97,675 was calculated and provide communications from the ARC to that effect.

DCS Response: Per JCJ proposal dated 12/23/2021, the dollar value credit for the decrease in the overall square footage off set the design work by the design of the geothermal well and carbon natural design, specific calculation were not provided.

Staff Response: OK

6. The CA Consultant Contract (Arcadis) was approved in May 2021 and the CMR Contract (Gilbane) was approved in September 2021. Both firms identified a 1,248-day construction phase, plus closeout. Please clarify the following:

a) What is the correct Construction Duration?

DCS Response: At the time this Amendment was prepared in June of 2022, the revised construction duration was 1,414 calendar days.

Staff Response: OK

b) Please identify the issues that led the ARC to request an addition 5.5 months (164 days) CA Services?

DCS Response: The delay associated with funding at the predesign phase, the inclusion of Carbon neutral requirements requested by David Barkin during the schematic design phase, and Agency Request #2 that was issued during the design development phase. All attributed to the construction duration extension to accommodate constraints on the construction schedule as it related to building occupancy and weather-related constructability.

Staff Response: Pl provide specific time frame for each that led to 5.5 months of delay. How did the funding delay at the predesign phase and carbon neutral requirements affect CA services? Also, if the design related to carbon neutral requirements is not complete, how was the time delay calculated for the CA phase?

11-30-22 - CA-Arcadis Response:

Per the executed contract issued to JCJ Architecture the following schedule was included

- A. Schematic Design Phase: Ninety (90) calendar days after receipt of written notice to proceed;
- B. Design Development Phase: Ninety (90) calendar days after receipt of written notice to proceed;
- C. Contract Documents Phase: One Hundred Twenty (120) calendar days after receipt of written notice to proceed

JCJ Architecture Contract Execution Date 2/26/21

Predesign Phase Notice to Proceed - Form 3001 - 4/14/21 (due 60 days from NTP)
Schematic Design Phase Notice to Proceed – Form 3090 – 8/13/21 Included Revised Education Specification dated 8/4/21
Design Development Phase Notice to Proceed – Form 3090 – 12/8/12
Construction Document Phase Notice to Proceed – Form 3090 – 5/11/22

Phase	NTP Issued	Due	Days to Complete
SD	8-13-2021	11-10-2021	89 (90/ARC)
DD	12-8-2021	3-8-2022	90 (90/ARC)
CD	5-1-2022	10-7-2022	159 (120/ARC)

c) What are the impacts to the CA and CMR Contracts?

DCS Response: The same as JCJ, the CA is in the process of providing a revised cost proposal for the longer construction phase. The GMP will address the additional construction duration in for the CMR.
Staff Response: See above.

7. Please clarify if Article F of Amendment #1 should be reviewed for numbering of the sub-categories.

DCS Response: I defer to OPLAPP for document layout and numbering.

Staff Response: Staff will wait for the response.

RECOMMENDATION: Staff recommend suspension of Amendment #1 in the amount of \$417,257 to provide expanded ARC and CA Services for the Project pending responses from DCS.

FROM PRB #21-007

PROPOSED AMOUNT: \$5,187,354

Project Background:

The Architect will provide all design discipline services to the DAS/CS in support of the Bullard Havens Technical High School located at 500 Palisade Avenue, Bridgeport, CT.

The Architect shall design and create complete and accurate contract documents for a completely new technical high school at the existing Bullard Havens THS site.

Construction of a new +/- 260,000 gross sf facility on the current site to accommodate 13 separate shop programs, plus associated classrooms and theory rooms, per the Educational Specifications (ED Spec). New construction will also include a field house, bus garage, and new ball fields per ED Spec, and construction of storage and out-buildings to provide

ancillary space as described in the ED Spec and building program.

This project includes the demolition of the existing buildings on the site: “A” Building consisting of classrooms, the “B” building consisting of shop/lab/classroom spaces, and the “C” Building, consisting of shop/storage spaces in their entirety.

Project delivery will be a Construction Manager at Risk (CMR). The Site is within a residential area.

Hazardous materials abatement will be required.

The existing building will remain occupied during construction and school functions must not be interrupted.

The project will meet CT High Performance Building requirements.

The architect is required to design in accordance with the school construction standards established by the Office of School Construction Grants and Review (OSCGR).

The project will meet FM Global standards as well as current Connecticut State Building/Fire Safety Code and other state agency (DAS, DEEP, DPH) & utility company requirements. The Authority Having Jurisdiction will be Connecticut Office of the State Building Inspector (OSBI) / Office of the State Fire Marshal (OSFM). The project will be reviewed by the OSCGR.

In May 2020 DAS/DCS (“DCS) issued a Request for Qualifications for Architect/Engineer (A/E) Consultant Services related to the Construction Manager at Risk project – Bullard-Havens Technical High School in Bridgeport. DCS elicited 14 responses to the advertisement of which all submittals were considered “responsive”. DCS then proceeded to review the submittals and after the completion of the internal review process, five (5) firms were selected for short-listed interviews. These firms were as follows, TSKP Studio, LLC, Moser Pilon Nelson, Architects, LLC, JCJ Architecture, PC, Quisenberry Arcari Malik, LLC, and Kaestle Boos Associates, Inc. The State Selection Panel consisted of 5 members and interviewed each firm for evaluation purposes based upon an established weighted ranking system. At the conclusion of the process DCS identified JCJ Architecture, PC (“JCJ”) as the most qualified firm.

This contract is for Architect/Engineer Consultant Design Team Services for the Construction Manager at Risk project – Bullard-Havens Technical High School in Bridgeport with the completion of a pre-design study consisting of three design concepts/pre-design layouts for consideration and approval by DAS, OSCGR and CTECS. Upon selection of the predesign, the consultant will continue through the initiation of a schematic design phase through the construction document phase, bidding and the subsequent completion of construction. The overall construction and total project budget have been established at **\$95,580,000** and **\$135,000,194** respectively. DCS confirmed bond funding is available. The current legislative authorization for this project has \$27,331,000 for Total Project Costs.

The overall compensation rate for this basic service is \$4,573,722 with an additional \$613,632 for special services, for a total fee of **\$5,187,354**. The contract includes an additional \$30,000 for A/E Design and Construction Phase Contingency.

JCJ Basic Service Fee (#21-007)	ARC Base Fees (\$)	Special Services	Total Fee	Construction Budget (\$)	% of Budget
Schematic Design Phase	\$693,533				
Design Development Phase	\$923,545				
Construction Document Phase	\$1,371,066				
Bidding and Review Phase	\$226,512				
Construction Administration Phase	<u>\$1,359,066</u>				
TOTAL BASIC SERVICE FEE (#21-007) (A)	\$4,573,722			\$95,580,000	4.79%
JCJ Special Services Fee (#21-007)					
Pre-Design (3 concept plans)		\$50,000			
Boundary/Topo/Wetlands Survey		\$15,400			
Geotechnical Services		\$60,445			
Special Inspection Services		\$8,800			
Acoustical Engineering Consultant		\$21,945			
Civil Engineering Supplemental Services		\$48,400			
Electronic/Audio Visual Services		\$41,635			
HAZMAT & Environmental Cons. Svcs.		\$214,027			
Kitchen/Food Service Design Consultant		\$73,480			
Security/Telecom/Data Design Consultant		\$49,500			
Design Allowance/contingency		<u>\$30,000</u>			
TOTAL SPECIAL SERVICE FEE (#21-007) (B)		\$613,632			
TOTAL FEE (PRB #21-007) (A)+(B)			\$5,187,354	\$95,580,000	5.43%

- The May 2020 RFQ elicited 14 responses. The Selection Panel interviewed five firms and ultimately recommended the appointment of JCJ Architecture, PC (JCJ). The selection was approved by Deputy Commissioner Petra on 12/7/2020.
- JCJ is located in Hartford. This firm was established in 1975 and became JCJ Architecture in 2005. JCJ has 117 employees which includes 42 registered Architects. JCJ is operating under its corporate license No. ARC.0000442. The license is valid until 07/31/2021.
- Ames & Gough reported that over the past 5 years JCJ has been exposed to one general liability or professional liability claims, which was closed. The claim was not involved with State projects
- The submittal is accompanied by a Consulting Agreement Affidavit notarized on 1/07/21.

Staff inquired with DCS regarding the following issues:

1. DAS/DCS Form 1105 for this new Project was initiated by CTTHS Superintendent of Schools on September 1, 2018. Please clarify what transpired between April 23, 2018 (approval #18-049) and September 1, 2018 that ultimately led to the termination of the prior renovation project.

DCS Response: OSCGR requested the development of an Educational Specification (ED SPEC) for the comprehensive planning of the entire Bullard Havens Technical High School and provide a space program to accompany and support the Educational Specifications.

The ED SPEC was prepared by Northeast Collaborative in conjunction with CTTECHS and OSCGR.

OSCGR - the original project was proposed to be an alteration of the "A" building only, which is an existing 3 story 1970's era facility currently used primarily as classroom and administrative space, with an underutilized school nurse/community health component

and two large non-useable assembly spaces. The original project did not adequately address the primary functional problem of this school, which was the long-term viability of the existing shop spaces. It was economically infeasible to commit state funding to a project that did not fully address both the deferred maintenance issues and all of the programmatic issues at this site, including the technical shop learning environments, administrative requirements, exterior site improvements including unusable ball fields, tennis courts and running track, and ongoing problems with existing out-buildings, grandstand, and bus garage.

As a result of enrollment number, program viability, unusable condemned, and eliminating outside use of the building, OSCGR deemed the need for new school construction for the entire Bullard Havens Technical High School. OSCGR elected to cancel the original project (BI-RT-880) which consisted of a gut renovation of Building A, ball fields and ancillary buildings and create a new project (BI-RT-889) for construction of a brand-new school in its entirety, new ballfields, and ancillary buildings.

After consultation with Attorney General's Office, readvertisement for design consultant services was required due to the material and substantial change in the scope of work. As a result, DAS provided formal notification to Northeast Collaboratives canceling the project prior to advertisement for design consultants for the new project. Project was canceled by OSCGR at the 50% schematic design phase.

Staff Response: OK

2. What services were provided under previous approvals – PRB 17-202 and PRB 18-049?

DCS Response: The following services were provided for PRB 17-202: Preparation of Study, Schematic Design Phase Services, HAZ MAT Report, Geotech Report, Phase 1 Environmental Study, Property Survey, and Wetlands Report. The following services were provided for PRB 18-049: The ED SPEC, Space Program, and building utilization and suitability.

Staff Response: OK

- a. How much of the approved \$4,539,795 Consultant Fees were expended and what stage of design was completed?

DCS Response: Approximately \$540K of cost were incurred. Exact values can be provided upon request. The Architect completed 50% schematic design phase.

Staff Response: OK

- b. Provide a list of deliverables and cost incurred by each consultants under these approvals

DCS Response: Deliverables: Study, HAZ MAT Report, Geotech Report, Phase 1 Environmental Study, Property Survey, Wetlands Report, 50% schematic design documents, and ED SPEC.

Costs incurred by consultants

\$ 5,074,000.00	A/E Fees Funding
\$ 102,000.00	Art Funding
\$ 612,500.00	DCS Fees Funding
\$ 5,788,500.00	Bonded PA 15-3 Sec. 2 (3)
\$ (96,659.00)	DCS Fees
\$ (6,232.60)	GZA GeoTech & Wetland Report Reviews
\$ (535,164.40)	NCA Schematic Design, Land Survey, Education Spec, Geo Tech
\$ (1,750.00)	SES Commissioning Services
\$ 5,148,694.00	Balance Remaining

Staff Response: OK

c. Are consultant contracts approved under these two proposals still active or cancelled?

DCS Response: For PRB 17-202 the contract was canceled per Noel Petra's Letter dated May 6, 2020 to Northeast Collaboratives, see attached. PRB 18-049 Services were rendered by Northeast Collaborative by issuance of the ED SPEC and Space Program.

Staff Response: OK

d. Is this project terminated?

DCS Response: The project was formally canceled by Connecticut State Department of Education form 7988 Notice of Project Cancellation, see attached.

Staff Response: Notice dated May 6, 2020, signed by DOE Chief of Engineering Services on August 31, 2020. OK

3. Why is DCS hiring two architects to perform certain tasks? Is JCJ not qualified to provide the services being provided by NCA?

DCS Response: DCS is only hiring/contracting with one Architect, that is JCJ. Yes, JCJ is qualified for this project. JCJ has hired Northeast Collaborative as a sub consultant, just like JCJ hired MEP and other subconsultants for base fee services. DCS considers Northeast Collaborative a subconsultant.

Staff Response: OK

4. NCA is not mentioned in the DCS contract with JCJ. What is the contractual relationship between JCJ and NCA?

DCS Response: DCS does not identify the names of subconsultants for base fee services, for example the MEP subconsultants are not identified either. Only special services consultants are identified. NCA's contractual relationship to JCJ is a subconsultant.

Staff Response: OK

5. Under Attachment 1 to the contract:

a. Pg. 1 of 12-II(C) – what is this language referencing?

DCS Response: With regard to provision Attachment 1, Article II.C. the language references the Architect's duty to understand those existing, specific and atypical conditions, e.g., the building will remain occupied, the need to maintain daily operations, or space limitations that will need to be addressed in plans and specifications for the successful execution of the work by the contractor. These conditions may require phasing, working off-hours, special security measures, etc. and it is the responsibility and duty of the architect, working with the project manager and client agency to identify such project specific conditions and develop plans and specifications that allow the project to be completed without issue caused by the conditions.

Staff Response: OK

b. Pg. 4 of 12 (E) – why pay the architect for “Reuse” of the plans? Doesn't State own the plans/design?

DCS Response: Concerning Article V. E., while the State may “own” the documents and the building, under the Architectural Works Copyright Protection Act, the architect is the originator and holder of the copyright to the design and/or building. If such design is imitated or transcribed in whole or in part, infringement occurs. In addition, under C.G.S. Sec. 20-293, the working drawings and specifications prepared for a building and structure shall be stamped by the seal of the author of such drawings and specifications. No person can designate or imply that he or she is the author of working drawings or specifications unless he or she was in responsible charge of their preparation. To address both issues, if we are going to reuse the plans the State will pay a fee to the architect, essentially a license fee to use the copyrighted design, as well as a fee for any changes

that may be required as determined by the Commissioner. Another architect, who is not the author of the working drawings and specifications, cannot make a few changes and place his or her stamp on the drawings and specifications. I am unaware of any instance in fourteen years where we wanted to reuse plans and specifications to build a duplicate building. It makes no sense to negotiate or pay a license fee or an assignment fee on every project. If we should ever decide to do so, the architect has agreed that the Commissioner will determine the reuse fee and the fee for any changes.

Staff Response: OK

6. On Form 1200, under section 3.4 - Interview Procedure - it says New Procedure for Ranking and Fees

DCS Response: Old procedure.

a. Provide what was the former procedure

7. 18 QBS Selection Interview Rating Criteria Categories:	The QBS Selection Panel shall conduct Selection Interviews with the Shortlisted Firms. At the end of all of the Selection Interviews, the Selection Panel shall "Rate" each of the Firms in accordance with the "Selection Interview Rating Criteria Categories" table below and create a "Certified List" of the three (3) "most highly qualified Firms" to be submitted to the Departments Director of Project Management for consideration.	
	Item No.	Selection Interview Rating Criteria Categories:
	1	Proposed Team's Experience with Projects of Similar Size & Scope as this Project (See 1212 QBS Submittal Booklet Requirements – Division 1 – Letter of Interest & Narrative, Division 7 – CT 330 Part I, Sections D, E, F, & G, and Division 8 – CT 330 Part II, Sections 8, 9, & 10; and the Team's Selection Interview Presentation)
	2	Proposed Team's Approach to the Work Required for this Project (See 1212 QBS Submittal Booklet Requirements – Division 1 Letter of Interest & Narrative; and the Team's Selection Interview Presentation)
	3	Proposed Team's Organizational Structure for this Project (See 1212 QBS Submittal Booklet Requirements – Division 7 – CT 330 Part I, Sections D, E, F, and G; and the Team's Selection Interview Presentation)
	4	Prime Firm's Past Performance Record with State & Other Clients (RCSA 4-134e-6(c)) (Including, but not limited to, Control of Costs, Quality of Work, Conformance with Program, Cooperation with Client, and Supervision of Construction) (See 1212 QBS Submittal Booklet Requirements – Division 7 – CT 330 Part I, Sections E, F, I, & J; Active (past 5 years) DAS/CS Consultant Performance Evaluations; Prime Firm's Reference Checks, and the Team's Selection Interview Presentation)
	Maximum Total Possible Rating Points per Selection Panel Member:	
	Three (3) Member Selection Panel - Maximum Total Possible Rating Points:	
	Five (5) Member Selection Panel - Maximum Total Possible Rating Points:	

New procedure.

3. QBS Longlist, Shortlist, Interview, and Fee Proposal Procedures	
3.4 Interview Procedure (Selection):	
• Shortlisted firms will be invited to attend a mandatory site visit, scope meeting, and interview . Each firm's interview presentation will be evaluated by the QBS Selection Panel in accordance with the following "Selection Interview Rating Criteria Categories".	Selection Interview Rating Criteria Categories <ul style="list-style-type: none">➢ Proposed Team's Experience With Projects Of Similar Size & Scope As This Project➢ Proposed Team's Approach To The Work Required For This Project➢ Proposed Team's Organizational Structure and Availability For This Project➢ Prime Firm's Geographic Proximity To & Familiarity With The Area In Which The Project Is Located➢ Proposed Team's Relevant Knowledge Of Connecticut Building & Fire Codes
• NEW PROCEDURE – RANKING: No "Rating Points" will be assigned per category, in the place of Rating Points, the QBS Selection Panel will independently "rank" each of the Consultant Teams on a scale of 1 st (most qualified for this Contract) to 5 th (least qualified for this Contract) at the conclusion of all interviews.	
• NEW PROCEDURE – CONSULTANT SERVICES FEE PROPOSAL: The top three most qualified firms will be notified and required to submit a "Consultant Services Fee Proposal" within ten (10) calendar days of the notification. Details will be included in the notification.	
• The DAS/CS Policy & Procurement Unit will create a "Certified List" of the most highly qualified firms and, along with the total volume of work awarded to each firm in the previous five years* and the Consultant Services Fee Proposals, will furnish a "Selection Approval Memorandum" to the DAS Deputy Commissioner or his delegated individual for his review and approval. . ("NOTE: In order to achieve an equitable distribution of contracts, the Deputy Commissioner or his delegated individual may utilize the total volume of work to determine the final selection of the most qualified firm.)	
3.5 Conditional Selection Procedure:	
• The DAS/CS Policy & Procurement Unit will email the selected firm a "Conditional Selection Notification Letter" which will provide instructions regarding additional information that must be submitted for the processing of its contract.	

Staff Response:

b. When was this new procedure implemented and is this for all the selections across the board?

DCS Response: This was the first project this New Ranking and Fee Proposal was Implemented. At this time, these processes will only be applicable for Architectural/Engineering and Construction Administration contracts.

Staff Response: OK

c. Why was this new procedure implemented?

DCS Response: The new ranking procedure provides a more accurate and consistent way of determining the 3 most highly qualified firms, and less subject to the vagaries of disparate scores among panelists in one or more rating categories.

New Fee Proposal Procedure: In the past once a first-place firms have been determined; Project Management would enter into Contract Negotiations with the firm. If DAS/CS could not agree on an acceptable Fee and scope of work, it and would then have to go to the next highest ranked firm and hope that the 2nd ranked firm had not already reassigned/committed the previously proposed staff to another project. The current fee proposal process requires each firm to submit proposals simultaneously, with scope reviews of each firm to follow. This allows for competitive proposals and a process that results in a best value selection. To date we have found a significant savings by negotiating with the highest ranked firms before actual contract signing. The fee, in addition, is not based upon a percentage guideline but a competitive proposal comparison.

Staff Response: OK

7. Pl provide Screening scoring for all the 14 firms reviewed.

DCS Response: Please see attached Screening Rating Calculation Spreadsheet for the above project.

Staff Response: OK

8. PA 15-3, Section 1(3) provides authorization for \$27,331,000. Please clarify if there is proposed legislation authorizing additional funding to cover the total costs of this Project and when and how much funding was authorized by the Bond Commission.

DCS Response: KOSTA DIAMANTIS TO PROVIDE A FORMAL ANSWER AS A FOLLOW UP TO HIS PHONE CONVERSATION WITH DIMPLE DESAI ON 2/22/21 WITHIN THE NEXT OR TWO.

Staff Response: Have sufficient funds for this proposal. Usually the construction funds will come later when the prices are finalized. OK

RECOMMENDATION: Staff recommends APPROVAL of this consultant contract in the amount of \$5,187,354, of which \$4,573,722 is for basic services and an additional \$613,632 for special services. The A/E basic fee of 4.79% of construction cost is within the DCS guideline of 5.0%.

6. ARCHITECT-ENGINEER – NEW BUSINESS

PRB File #:	23-034
Origin/Client:	DCS/DAS
Transaction/Contract Type	AE / Task Letter
Project Number	BI-T-619N
Contract	OC-DCS-MDE-0047
Consultant:	Fuss & O'Neill, Inc.
Property	Hartford, Capitol Ave (410) – DPH

Project purpose: Energy Audit Implementation Program
Item Purpose Task Letter #1

At 9:35 Mr. Ross, of the DAS Division of Construction Services joined the Meeting to participate in the Board's discussion of this Proposal, as well as the Proposals under PRB #23-035 and #23-036. He left the Meeting at 10:05.

PROPOSED AMOUNT: \$155,790

Under prior PRB Files #20-013 and 20-014, the State Properties Review Board approved two Task Letters – TL #1 (OC-DCS-ENGY-0026) and TL #1 (OC-DCS-ENGY-0027) to the On Call Contracts to have both Consultants provide the following professional services:

- To perform Level 2 Commercial Energy Audits of a total of 23 Executive Branch facilities in compliance with ASHRAE Standard 211 requirements.
- To provide separate Audit Reports for each facility.
- Reports shall include a description of the condition of energy and water conserving systems and equipment; an analysis of energy and water cost trends and usage patterns; EUI benchmarking and associated coordination regarding the State's EnergyCAP database; a determination of the potential for energy and water savings; and if applicable, investigate and report on the installation feasibility of renewable energy systems on the audited property. Audit reports will be used as stand-alone documents to provide information about a facility's energy/water usage, and as a basis for planning energy cost reduction projects.

And, at the August 15, 2022 SPRB Meeting the Board, under PRB File #22-124, approved Task Letter #4 to the On Call Contract OC-DCS-CA-0033 to assist in the management of multiple design teams in developing design and construction documents based on measures recommended by audit reports.

Under this Proposal (#23-034), DCS is now seeking Board approval to retain the Consultant - Fuss & O'Neill, Inc. – under their On-Call Contract OC-DCS-MDE-0047 to provide multi-disciplined engineering design and construction administration services. The negotiated fee for the Consultant's services is \$155,790. The scope of work includes:

The facility at 410 Capitol Avenue is one of five which make up the approximately 400,000 ft² 410-474 Capitol Avenue Complex. The 410 building is roughly 220,000 gross ft².

The scope of work for this project, which is part of a program intended to reach annual greenhouse gas (GHG) emissions and water reduction milestones and final 2050 goal levels per the GreenerGov initiative, shall include:

- Review and understand information and Energy and Cost Reduction Measures (ECRMs) contained within the "Energy Audit Report – 410 Capitol Avenue" prepared by van Zelm Heywood & Shadford, dated November 19, 2020.
- Either by following the previously procured energy audit recommendations or otherwise developing engineered design solutions, provide building systems modifications and upgrades within an originally estimated construction budget of \$1,296,000 that will result in approximate annual reductions of:
 - 99 metric tons of CO2e emissions
 - \$53,918 utility costs
- Provide an estimate of the CO2e emissions reduction after the completion of the design.
- Within the contract documents, provide a means for the proposed savings to be measured and verified (and associated emissions reductions calculated/derived) at a minimum of 6, 12 and 18 months after project completion.
 - Propose and potentially include within the contractor's scope of work, the installation of permanent submetering capabilities throughout the facility(ies) which provide relevant, valuable feedback.

The engineered design of ECRMs shall be validated by design-phase calculation which are anticipated to achieve or exceed the above stated metrics. Metrics were derived from ECRMs recommended by the previously procured energy audit, as listed below.

In alliance with the Governor's EO1 and State sustainability goals, building HVAC decarbonization and/or electrification shall be pursued to the maximum extent feasible. Before the further development of any ECRM which proposes the installation of fossil fuel using equipment, design consultants shall investigate and provide a preliminary overview of renewable, carbon neutral, and/or fully electric alternatives to such design elements as part of the SD deliverable.

- Include an estimate of the alternative's level of greenhouse gas emissions reductions for comparison purposes.

The scope of work for the ECRMs referenced in the audit and included within this task letter are as follows:

Mechanical ECRMs and Related Work:

- Design for the replacement of the four (4) existing gas-fired, heating only rooftop makeup air units (MAUs) with high-efficiency dedicated outdoor air system (DOAS) units.
 - Optimize the installation of unites to minimize ductwork modifications while providing the new configuration to serve the DOAS energy recovery ventilators (ERVs).
- Design for the upgrade of the perimeter heat pump condenser water loop
 - Replace two (2) existing cooling towers with multi-cell units that have variable frequency drives on high efficiency condenser water pumps and motors.
 - Install 2-way isolation valves on all, approximately two hundred fifty (250), perimeter heat pump units.
 - Abandon two (2) below-grade 15,000-gallon sump tanks in place.
 - Investigate existing mechanical equipment noted for replacement.
 - Perform Code review for the replacement or modified equipment and heating and ventilation.
 - Perform heating, cooling, and ventilation load calculations associated with the equipment to be replaced.
 - Show on the drawings required clearances of new equipment, installation details, specifications, and utility requirements.

Related Electrical Work:

- Electrical design shall support the removal of existing and installation of new mechanical equipment, as well as fire alarm interface where required by code, including:
 - Investigation of existing power sources and size of electrical components to mechanical equipment.
 - Perform electrical load calculations for anticipated new mechanical equipment.
 - Investigation of existing fire alarm interface to existing mechanical equipment.
 - Show on the drawings layout of power source for new mechanical equipment.

Related Structural Work:

- Structural design shall support the removal of the old HVAC equipment and rigging of the new equipment.
- Include detailing connections for the new HVAC equipment to the existing supporting structural elements in the structural design.

In June 2022, SPRB approved (PRB #22-083) Fuss & O'Neill, Inc. (F&O) as one of five firms under the latest *On-Call MDE (Multi-Disciplined) Engineer Series* of consultant contracts. These contracts expire on September 30, 2024 and have a maximum cumulative fee of \$1,000,000.

F&O was approved for the following task(s) under this series:

• Task Letter #1	410 Cap Ave – Energy Implementation	\$155,790	(#23-034)
• Task Letter #2	Rowland Center – Energy Implementation	\$146,360	(#23-035)
• Task Letter #3	450-460 Cap Ave – Energy Implementation	\$276,890	(#23-036)
Total Fee to Date:			\$0

DCS and DEEP have confirmed funding is in place for this Task Letter.

The Construction Budget and total Project Budget are estimated at \$1,512,000 and \$2,026,080, respectively.

Task Letter #1 – F&O- Basic Services (PRB #23-034)	Base Fees (\$)	Special Services (\$)	Total Fee	Construction Budget (\$)	% of Budget
Combined SD/DD Phase (112 days)	\$38,855				
Construction Document Phase (84 days)	\$49,875				
Bidding Phase	\$14,980				
Construction Administration Phase (est. 18 months)	<u>\$52,080</u>				
TOTAL BASIC SERVICE FEE (#23-034) (A)	\$155,790			\$1,512,000	10.30%

RECOMMENDATION: It is recommended that SPRB approve Task Letter #1 in the amount of \$155,790 for the Consultant to provide Engineering Design and CA services for the ECRMs.

- DCS and DEEP confirmed \$155,790 is available for the Task Letter.
- The Board approved the current On-Call Contract with a maximum total cumulative fee of \$1,000,000/contract and an expiration date of September 30, 2024.
- The submittal is accompanied by a Gift & Campaign Contribution Certification notarized on 5/11/2022.

PRB File #: 23-035
Origin/Client: DCS/DAS
Transaction/Contract Type AE / Task Letter
Project Number BI-T-619J
Contract OC-DCS-MDE-0047
Consultant: Fuss & O'Neill, Inc.
Property Waterbury, West Main St (55) – Rowland Government Center
Project purpose: Energy Audit Implementation Program
Item Purpose Task Letter #2

PROPOSED AMOUNT: \$146,360

Under prior PRB Files #20-013 and 20-014, the State Properties Review Board approved two Task Letters – TL #1 (OC-DCS-ENGY-0026) and TL #1 (OC-DCS-ENGY-0027) to the On Call Contracts to have both Consultants provide the following professional services:

- To perform Level 2 Commercial Energy Audits of a total of 23 Executive Branch facilities in compliance with ASHRAE Standard 211 requirements.
- To provide separate Audit Reports for each facility.
- Reports shall include a description of the condition of energy and water conserving systems and equipment; an analysis of energy and water cost trends and usage patterns; EUI benchmarking and associated coordination regarding the State's EnergyCAP database; a determination of the potential for energy and water savings; and if applicable, investigate and report on the installation feasibility of renewable energy systems on the audited property. Audit reports will be used as stand-alone documents to provide information about a facility's energy/water usage, and as a basis for planning energy cost reduction projects.

And, at the August 15, 2022 SPRB Meeting the Board, under PRB File #22-124, approved Task Letter #4 to the On Call Contract OC-DCS-CA-0033 to assist in the management of multiple design teams in developing design and construction documents based on measures recommended by audit reports.

Under this Proposal (#23-035), DCS is now seeking Board approval to retain the Consultant - Fuss & O'Neill, Inc. – under their On-Call Contract OC-DCS-MDE-0047 to provide multi-disciplined engineering design and construction administration services. The negotiated fee for the Consultant's services is \$146,360. The scope of work includes:

The Rowland Government Center is an approximately 100,000ft² DAS-owned facility consisting mostly of office spaces.

The scope of work for this project, which is part of a program intended to reach annual greenhouse gas (GHG) emissions and water reduction milestones and final 2050 goal levels per the GreenerGov initiative, shall include:

- Review and understand information and Energy and Cost Reduction Measures (ECRMs) contained within the "Energy Audit Report – Rowland Government Center" prepared by van Zelm Heywood & Shadford, dated January 22, 2021
- Either by following the previously procured energy audit recommendations or otherwise developing engineered design solutions, provide building systems modifications and upgrades within an originally estimated construction budget of \$1,296,000 that will result in approximate annual reductions of:
 - 115 metric tons of CO₂e emissions
 - \$48,238 utility costs
 - Scope of work shall include the RTU replacement measure
- Provide an estimate of the CO₂e emissions reduction after the completion of the design.
- Within the contract documents, provide a means for the proposed savings to be measured and verified (and associated emissions reductions calculated/derived) at a minimum of 6, 12 and 18 months after project completion.
- Propose and potentially include within the contractor's scope of work, the installation of permanent submetering capabilities throughout the facility(ies) which provide relevant, valuable feedback.

The engineered design of ECRMs shall be validated by design-phase calculation which are anticipated to achieve or exceed the above stated metrics. Metrics were derived from ECRMs recommended by the previously procured energy audit, as listed below.

In alliance with the Governor's EO1 and State sustainability goals, building HVAC decarbonization and/or electrification shall be pursued to the maximum extent feasible. Before the further development of any ECRM which proposes the installation of fossil fuel using equipment, design consultants shall investigate and provide a preliminary overview of renewable, carbon neutral, and/or fully electric alternatives to such design elements as part of the SD deliverable.

- Include an estimate of the alternative's level of greenhouse gas emissions reductions for comparison purposes.

The scope of work for the ECRMs referenced in the audit and included within this task letter are as follows:

Lighting ECRMs and Related Electrical:

- Design for the retrofit of the remaining interior non-LED bulbs and fixtures with LED units and the addition of occupancy and vacancy sensor controls throughout the system as appropriate
 - Electrical design shall support the removal of existing and installation of new mechanical equipment, as well as fire alarm interface where required by code, including:
 - Investigation of existing power sources and size of electrical components to mechanical equipment.
 - Performing electrical load calculations for anticipated new mechanical equipment.
 - Investigation of existing fire alarm interface to existing mechanical equipment.
 - Layout of power source for new mechanical equipment.

Mechanical ECRMs and Related Work:

- Design for the replacement of the two (2) existing gas-fired hot water boilers with high-efficiency condensing boilers and associated direct digital controls (DDC), combustion air, exhaust, hydronic piping, and specialties replacement within the mechanical room. The new boilers will be sized based on connected loads.
 - Review ventilation requirements for the mechanical room to accommodate the new boilers.
- Design for the replacement of the four (4) existing gas-fired, rooftop units with high-efficiency variable speed fans. The new RTUs will be sized based on ventilation calculations. Provide direct digital controls by updating DDC points lists and building ventilation sequence of operation to meet current code requirements, including designing for demand-controlled ventilation where appropriate.
- Update building ventilation sequence of operation to meet current code requirements, including designing for demand-controlled ventilation where appropriate, and performing ventilation load calculations associated with the equipment to be replaced.
 - Perform Code review for the replacement or modified equipment.
 - Show on the drawings required clearances of new equipment, installation details, specifications, and utility requirements.

Related Architectural Work:

- Design for the removal and replacement of a section of exterior wall to accommodate the demolition and removal of existing boilers.

Related Structural Work:

- Structural design shall support the removal of the old HVAC equipment and rigging of the new equipment.
- The structural design shall include detailing connections for the new HVAC equipment to the existing supporting structural elements.
- Coordinate the structural components of any new lintel openings with the architect.

In June 2022, SPRB approved (PRB #22-083) Fuss & O'Neill, Inc. (F&O) as one of five firms under the latest *On-Call MDE (Multi-Disciplined) Engineer Series* of consultant contracts. These contracts expire on September 30, 2024 and have a maximum cumulative fee of \$1,000,000.

F&O was approved for the following task(s) under this series:

• Task Letter #1	410 Cap Ave – Energy Implementation	\$155,790	(#23-034)
• Task Letter #2	Rowland Center – Energy Implementation	\$146,360	(#23-035)
• Task Letter #3	450-460 Cap Ave – Energy Implementation	\$276,890	(#23-036)
Total Fee to Date:			\$0

DCS and DEEP have confirmed funding is in place for this Task Letter.

The Construction Budget and total Project Budget are estimated at \$1,296,000 and \$1,736,640, respectively.

Task Letter #2 – F&O- Basic Services (PRB #23-035)	Base Fees (\$)	Special Services (\$)	Total Fee	Construction Budget (\$)	% of Budget
Combined SD/DD Phase (112 days)	\$38,855				
Construction Document Phase (84 days)	\$49,875				
Bidding Phase	\$14,980				
Construction Administration Phase (est. 18 months)	<u>\$52,080</u>				
TOTAL BASIC SERVICE FEE (#23-035) (A)	\$146,360			\$1,296,000	11.29%

RECOMMENDATION: It is recommended that SPRB approve Task Letter #2 in the amount of \$146,360 for the Consultant to provide Engineering Design and CA services for the ECRMs.

- DCS and DEEP confirmed \$146,360 is available for the Task Letter.
- The Board approved the current On-Call Contract with a maximum total cumulative fee of \$1,000,000/contract and an expiration date of September 30, 2024.
- The submittal is accompanied by a Gift & Campaign Contribution Certification notarized on 5/11/2022.

PRB File #: 23-036
Origin/Client: DCS/DAS
Transaction/Contract Type AE / Task Letter
Project Number BI-T-619K
Contract OC-DCS-MDE-0047
Consultant: Fuss & O'Neill, Inc.
Property Hartford, Capitol Ave (450-460) – OPM
Project purpose: Energy Audit Implementation Program
Item Purpose Task Letter #3

PROPOSED AMOUNT: \$276,890

Under prior PRB Files #20-013 and 20-014, the State Properties Review Board approved two Task Letters – TL #1 (OC-DCS-ENGY-0026) and TL #1 (OC-DCS-ENGY-0027) to the On Call Contracts to have both Consultants provide the following professional services:

- To perform Level 2 Commercial Energy Audits of a total of 23 Executive Branch facilities in compliance with ASHRAE Standard 211 requirements.
- To provide separate Audit Reports for each facility.
- Reports shall include a description of the condition of energy and water conserving systems and equipment; an analysis of energy and water cost trends and usage patterns; EUI benchmarking and associated coordination regarding the State's EnergyCAP database; a determination of the potential for energy and water savings; and if applicable, investigate and report on the installation feasibility of renewable energy systems on the audited property. Audit reports will be used as stand-alone documents to provide information about a facility's energy/water usage, and as a basis for planning energy cost reduction projects.

And, at the August 15, 2022 SPRB Meeting the Board, under PRB File #22-124, approved Task Letter #4 to the On Call Contract OC-DCS-CA-0033 to assist in the management of multiple design teams in developing design and construction documents based on measures recommended by audit reports.

Under this Proposal (#23-036), DCS is now seeking Board approval to retain the Consultant - Fuss & O'Neill, Inc. – under their On-Call Contract OC-DCS-MDE-0047 to provide multi-disciplined engineering design and construction administration services. The negotiated fee for the Consultant's services is \$276,890. The scope of work includes:

The facilities at 450-460 Capitol Avenue are two of five which make up the approximately 400,000 ft² 410-474 Capitol Avenue Complex. The 450 and 460 buildings are 120,000ft² and 60,000ft², respectively.

The scope of work for this project, which is part of a program intended to reach annual greenhouse gas (GHG) emissions and water reduction milestones and final 2050 goal levels per the GreenerGov initiative, shall include:

- Review and understand information and Energy and Cost Reduction Measures (ECRMs) contained within the "Energy Audit Report – 450 & 460 Capitol Avenue" prepared by Colliers Project Leaders, dated November 5, 2020.
- Either by following the previously procured energy audit recommendations or otherwise developing engineered design solutions, provide building systems modifications and upgrades within an originally estimated construction budget of \$2,554,000 that will result in approximate annual reductions of:
 - 141 metric tons of CO₂e emissions
 - \$67,543 utility costs
- Provide an estimate of the CO₂e emissions reduction after the completion of the design.
- Within the contract documents, provide a means for the proposed savings to be measured and verified (and associated emissions reductions calculated/derived) at a minimum of 6, 12 and 18 months after project completion.
- Propose and potentially include within the contractor's scope of work, the installation of permanent submetering capabilities throughout the facility(ies) which provide relevant, valuable feedback.

The engineered design of ECRMs shall be validated by design-phase calculation which are anticipated to achieve or exceed the above stated metrics. Metrics were derived from ECRMs recommended by the previously procured energy audit, as listed below.

In alliance with the Governor's EO1 and State sustainability goals, building HVAC decarbonization and/or electrification shall be pursued to the maximum extent feasible. Before the further development of any ECRM which proposes the installation of fossil fuel using equipment, design consultants shall investigate and provide a preliminary overview of renewable, carbon neutral, and/or fully electric alternatives to such design elements as part of the SD deliverable.

- Include an estimate of the alternative's level of greenhouse gas emissions reductions for comparison purposes.

The scope of work for the ECRMs referenced in the audit and included within this task letter are as follows:

Mechanical ECRMs and Related Work:

- Design for the replacement of fifteen (15) constant volume air handling units (AHUs) to those with variable speed supply fans, chilled water cooling, hot water heating and full economizer capability.
 - Coordinate AHUs steam conversion to hot water heating work under this contract with the concurrent Capitol Area System (CAS) district heating and cooling loop project BI-2B-414.
 - Provide for any required changes within the building related to the hot water conversion of equipment being installed under this contract.
 - Include steam to hot water heat exchangers and associated controls and replace steam piping within each mechanical room.
- Design for the replacement of AHU-9 and eight (8) associated VAV boxes on the 5th floor of the 450 building.
 - Replacement AHU shall incorporate variable speed supply fan, chilled water cooling, hot water heating and full economizer capability.
 - Incorporate DDC control and implement discharge air static pressure reset in design.
- Design for the replacement of pneumatically actuated air handling unit hydronic control valves as well as similar units on the steam to hot water heat exchangers, specifically:
 - Nine (9) 3-way chilled water, seven (7) 2-way chilled water, sixteen (16) steam valves, and thirty-two (32) associated actuators shall be replaced with electric 2-way modulating control valves.
 - Three (3) 2-way steam control valves associated with the buildings' hot water heat exchangers shall be replaced with electric 2-way steam control valves.
- Provide construction drawings which include layout and required clearances of new equipment, installation details, materials, and utility requirements.

Plumbing ECRM and Related Work:

- Design for the conversion of seven (7) 6-gallon, one (1) 120-gallon, and one (1) 60-gallon electric resistance domestic hot water heaters with heat pump water heaters.
 - Verify condition of the 6-gallon storage tanks, and design for the installation of air source water heaters plumbed to existing storage tanks.
 - Design for the replacement of the two (2) larger capacity units with hybrid heat pump water heaters.
 - Specify condensate drain, pump and neutralizer as required.
- Investigate existing plumbing equipment noted for replacement.
- Perform Code review for plumbing infrastructure noted for replacement.
- Size new equipment using engineering calculations.

- Provide construction drawings which include layout and required clearances of new equipment, installation details, materials, and utility requirements.

Electrical ECRM and Related Work:

- Design for the replacement of all ten (10) main building electrical transformers at building 450 and one (1) in the basement of building 460 with high performance non-linear low-voltage units.
- Electrical design will support the removal of existing and installation of new mechanical equipment, as well as fire alarm interface where required by code, including:
 - Investigation of existing power sources and size of electrical components to mechanical equipment.
 - Electrical load calculations for anticipated new mechanical equipment.
 - Investigation of existing fire alarm interface to existing mechanical equipment.
 - Layout of power source for new mechanical equipment.

Related Structural Work:

- Structural design will support the removal of the old HVAC equipment and rigging of the new equipment.
- The structural design will include detailing connections for the new HVAC equipment to the existing supporting structural elements.

In June 2022, SPRB approved (PRB #22-083) Fuss & O'Neill, Inc. (F&O) as one of five firms under the latest *On-Call MDE (Multi-Disciplined) Engineer Series* of consultant contracts. These contracts expire on September 30, 2024 and have a maximum cumulative fee of \$1,000,000.

F&O was approved for the following task(s) under this series:

• Task Letter #1	410 Cap Ave – Energy Implementation	\$155,790	(#23-034)
• Task Letter #2	Rowland Center – Energy Implementation	\$146,360	(#23-035)
• Task Letter #3	450-460 Cap Ave – Energy Implementation	\$276,890	(#23-036)
Total Fee to Date:			\$0

DCS and DEEP have confirmed funding is in place for this Task Letter.

The Construction Budget and total Project Budget are estimated at \$2,554,000 and \$3,422,360, respectively.

Task Letter #3 – F&O- Basic Services (PRB #23-036)	Base Fees (\$)	Special Services (\$)	Total Fee	Construction Budget (\$)	% of Budget
Combined SD/DD Phase (112 days)	\$79,765				
Construction Document Phase (84 days)	\$91,585				
Bidding Phase	\$20,240				
Construction Administration Phase (est. 18 months)	<u>\$85,300</u>				
TOTAL BASIC SERVICE FEE (#23-036) (A)	\$276,890			\$2,554,000	10.84%

RECOMMENDATION: It is recommended that SPRB approve Task Letter #3 in the amount of \$276,890 for the Consultant to provide Engineering Design and CA services for the ECRMs.

- DCS and DEEP confirmed \$276,890 is available for the Task Letter.
- The Board approved the current On-Call Contract with a maximum total cumulative fee of \$1,000,000/contract and an expiration date of September 30, 2024.
- The submittal is accompanied by a Gift & Campaign Contribution Certification notarized on 5/11/2022.

7. OTHER BUSINESS

8. VOTES ON PRB FILE:

PRB FILE #22-188 – Mr. Halpert moved and Mr. Berger seconded a motion to approve PRB FILE #22-188. The motion passed unanimously.

PRB FILE #23-034 – Mr. Berger moved and Mr. Halpert seconded a motion to approve PRB FILE #23-034. The motion passed unanimously.

PRB FILE #23-035 – Mr. Berger moved and Mr. Halpert seconded a motion to approve PRB FILE #23-035. The motion passed unanimously.

PRB FILE #23-036 – Mr. Berger moved and Mr. Valengavich seconded a motion to approve PRB FILE #23-036. The motion passed unanimously.

9. NEXT MEETING – Thursday, April 6, 2023.

The meeting adjourned.

APPROVED: _____ **Date:** _____
John Valengavich, Secretary