21-020

RESOLUTION APPROVING BUDGET MODIFICATION TO JACOBS FOR SERVICES DURING CONSTRUCTION FOR THE H6/H7 LTCP PROJECT

MOTIONED BY: Marotta
SECONDED BY: Friedrich

WHEREAS, the North Hudson Sewerage Authority (hereinafter "Authority") is a public body, duly formed under the Sewerage Authorities law, constituting Chapter 138 of the Laws of New Jersey of 1946, as amended (Chapter 14A of Title 40 of the New Jersey Statutes Annotated) and possesses the powers set forth therein; and

WHEREAS, JACOBS has been selected under resolution 16-142 to plan and design a complex system to resolve CSO Long Term Control Plan issues for the H6/H7 drainage basin in Hoboken; and

WHEREAS, JACOBS has submitted a request (Exhibit "A") for additional compensation in the amount of an additional $570,485 related to additional engineering services performed for out of scope items related to the H6/H7 LTCP Project; and

WHEREAS, the Authority has determined to undertake, and hereby amend the scope of, the H6/H7 Combined Sewer Overflow Long Term Control Plan Design as described in Appendix B hereto (the "Project") pursuant to Resolution No. 17-062 adopted on July 20, 2017;

WHEREAS, the Authority has determined that the total estimated cost of the Project will be an amount not to exceed $3,300,000; and

WHEREAS, the Chief Financial Officer has certified that funding is available through the Authority's Capital Improvement Program; and

WHEREAS, the capital budget of the Authority is hereby amended to conform with the provisions of this resolution to the extent of any inconsistency herewith; and

WHEREAS, the Facilities Review Board has reviewed the proposal and recommends the approval of the request.

NOW THEREFORE, BE IT RESOLVED that the Authority, as recommended by the Facilities Review Board, approves of JACOBS provision of additional professional engineering and construction services as outlined in Exhibit "A" and shall be compensated in an amount not to exceed an additional $570,485.00.

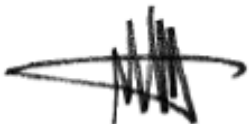
21-020

DATED: FEBRUARY 18, 2021

RECORD OF COMMISSIONERS' VOTE

	YES	NO	ABSENT
\Commissioner Soares	x		
Commissioner Kappock			x
Commissioner Marotta	x		
Commissioner Gardiner	x		
Commissioner Friedrich	x		
Commissioner Guzman	x		
Commissioner Velazquez	x		
Commissioner Roque	x		
Commissioner White	x		

THIS IS TO CERTIFY THAT THIS RESOLUTION WAS DULY ADOPTED BY THE NORTH HUDSON BOARD OF COMMISSIONERS ON FEBRUARY 18, 2021.



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SECRETARY

Water Business Group
Jacobs New Jersey Office
412 Mt Kemble Avenue
Morristown, NJ 07962
O+1 973 267 0555

February 9, 2021

Mr. Fredric J. Pocci, P.E.
Authority Engineer
North Hudson Sewerage Authority
1600 Adams Street
Hoboken, New Jersey 07030

Subject: Budget Increase
H8 Stormwater System Design for the Long-Term Control Plan and the H6 / H7 Study to Resolve CSO LTCP issues for the H6 / H7 Drainage Basin

Dear Mr. Pocci:

CH2M (now Jacobs) and Mott-MacDonald prepared and submitted a proposal on January 4, 2017 for the H8 Stormwater and Long-Term Control Plan design. We were authorized by the Authority to provide final design services, under resolution 16-134, for a total fee in the amount of $2,653,249, for the H8 Stormwater System Design for the Long-Term Control Plan and the H6 / H7 Study to Resolve CSO LTCP issues for the H6 / H7 Drainage Basin. Design work on this project continues as the project has evolved since the original proposal, and we have exceeded our authorized budget and will require additional funds to complete the design and continue servicing the project.

Primary reasons for the budget changes are as follows:

- Design timeframe increased from sixteen (16) months to forty-three (43) months to run concurrently with City's park design project.
- City requested removal of the CSO storage tank from park site which significantly reduced the site size and increased the iterations of system performance on stormwater system, pump station and pretreatment system.
- Phased approach to pump station and stormwater system due to the timeframe for construction of a new stormwater outfall and capacity of the existing plant outfall to take storm flows.
- Footprint changes to the pump station and pretreatment units to minimize park landscape design, architectural design for pumping station and accommodate park engineer design concepts including ice rink equipment and site entrance.
- Optimization of the stormwater system and pump station design, depth and size to provide technical analysis for the benefit to cost analysis required to capture $8 million in grants for the project
- Redesign of the foundation for the pump station to accommodate power line conflicts due to PSE&G requirements.
- Licensed site professional updates of our documents to accommodate the City's LSRP requirements for park site.

We worked diligently and proactively to keep our design on track even though our design was being impacted by the City's park design process and park site constraints.

In the aggregate, the out of scope work impacted the budget to the point where we cannot continue to provide design services without continuing to exceed the authorized budget. Table 1, attached, summarizes the out of scope work and the associated cost to provide these services

If you have any questions or require additional information regarding this proposal, please contact me at 862.242.4067.

Sincerely,
CH2M

Shivani Patel

Shivani Patel, P.E.
Client Service Manager

Table 1:
Summary of Out of Scope Work

Task	Description	Engineering Fee
1	Project Management and Stakeholder Coordination due to Extended Project Schedule The original proposal noted a project schedule of 16 months. The project began in March 2017 and is expected to be completed before the end 2021. We are asking for an additional 10 hours per month to manage the project for the additional 27 months	$81,000
2	Grant Support At the request of the Authority provided additional support for grant applications by the City (1) and the Authority (2, Pretreatment and 13th Street). This required additional meetings and technical documentation. Additionally, modifications were required to the specifications to accommodate FEMA's requirements.	$49,400
3	Memorandum of Understanding Support At the request of the Authority provided support in the formulation of the Memorandum of Understanding between the City of Hoboken and the Authority.	$11,500
4	Multi-Phase Approach At the request of the Authority, the project was broken into multiple phases. This has required additional effort to break out the project into multiple contract documents.	$56,000[1]
5	Coordination with the City's Park Engineer At the request of the Authority, coordinated with the City's Park Engineer, which included multiple meetings and calls in regards to the 1MG Tank materials of construction, O&M concerns and constructability requirements.	$31,600

Task	Description	Engineering Fee
6	Review of City' Engineer's Contract Documents Reviewed general concepts and physical layout of the tank with the City's Park Engineer's contract document submission to the NJDEP for coordination issues related to the proposed pre-treatment facility, stormwater pump station, and control building designs.	$8,600
7	Architectural and Lighting Design At the request of the Authority, subcontracted with the City's Architect for the design of the controls building façade and lighting that was integrated with the park design project.	$120,885[1]
8	Ice Rink and Fountain Design Support Coordinated with the park engineer to accommodate their fountain and ice rink support equipment in the pump station basement.	$36,400
9	Park Entrance Design Support Coordinated with the park engineer to accommodate the grand entrance and access issues to the seasonal ice rink chiller.	$11,500
10	LSRP Requirements Revised the contract documents to conform to the City's LSRP's design requirements for the park.	$23,900
11	Redesign due to Power Line Conflict Initial design concept was within the safety zone of overhead electrical lines . The park project was to relocate these overhead lines, however, it would have come at a great cost and would have been an impact to the overall construction schedule. In order to continue to move the project moving forward, CH2M revisited the design of the treatment units, excavation support system limits and wetwell/valve vault to eliminate work in the safety zone.	$56,700

Task	Description	Engineering Fee
12	<u>Value Engineering</u> Revisited the design to reduce the construction cost by $2M. The value engineering and redesign effort removed 2 vortex units from the projects and minimized the site excavation/shoring systems.	$45,000
13	<u>13th Street Redesign Effort</u> Since the NHSA was eligible for grant from the Federal Emergency Management Administration, 13th Street was added to the project. We assisted the Authority's grant consultant with preparing the grant application. Also, 13th Street was added to the bid documents of Phase 1 of the project. This required the redesign of the high-level storm system to allow for the for areas north of 13th Street to drain properly prior to full build out of the high level storm system. Also, the bid documents for 13th Street were added just prior to project being advertised, so much of the design was prepared as an addendum to the contract.	$38,000[2]
	Total	$570,485

Table Notes:

*[1] – $30,000 for CH2M and $26,000 for Mott MacDonald
*[2] – $43,385 Subcontract with E&LP (City's Architect) for conceptual design and $77.500 for CH2M for detailed design
*[3] – Additional effort by Mott MacDonald.