BOARD OF SELECTMEN REGULAR MEETING
Monday, March 6, 2023
4:00 pm
Via Webex & In-Person at
BOE Conference Room 295 A/B
501 King Hwy E. (across from Goodwill)
Fairfield, CT 06825

A recording of this meeting can be found here: BOS Penfield Funding Meeting 3.6.23.

DRAFT MINUTES

MEMBERS PRESENT: First Selectwoman Brenda L. Kupchick, Selectman Thomas Flynn, Selectwoman Nancy E. Lefkowitz
OTHERS PRESENT: CEO Tom Bremer, Planning Director James Wendt, Project Engineer Elias Ghazal, Attorney John Stafstrom, Town Attorney James Baldwin, CFO Jared Schmitt, Interim DPW Director John Marsilio, Parks and Recreation Director Anthony Calabrese, FairTV, members of the public

1) CALL TO ORDER
First Selectwoman Kupchick called the meeting to order at 4:00 pm.

2) PLEDGE OF ALLEGIANCE
First Selectman Kupchick led the Pledge of Allegiance.

First Selectwoman Kupchick then said, "It is with deep sadness the Town of Fairfield, CT shares the passing of retired Assistant Fire Chief Chris Tracy. Chris was the driving force behind the Fairfield Regional Fire School. Chris will always be remembered as a consummate gentleman and passionate about proper training for the department. Please keep Chris' family and the Fairfield Fire Department in your thoughts and prayers during this very sad time. Godspeed Chris."

First Selectwoman Kupchick asked for a moment of silence.

3) FIRST SELECTWOMAN/CAO/ENGINEERING DEPARTMENT *(requires Board of Finance and RTM approval)*
To hear, consider and adopt a bond resolution entitled, "A resolution appropriating $3,000,000 FOR THE PENFIELD PAVILION FOUNDATION AND CONSTRUCTION PROJECT AND AUTHORIZING THE ISSUANCE OF BONDS TO FINANCE SUCH APPROPRIATION."
See Full Resolution in Backup

First Selectwoman Kupchick introduced the panel of Town personnel involved in the Penfield Pavilion project. She also introduced Attorney John Stafstrom as Bond Counsel regarding bonds that have been put aside to help pay for Fill Pile issues. First Selectwoman Kupchick went through a Powerpoint presentation that addressed questions as to the why and how the Town is in this situation and the why and how the Town will pay for it and what options are on the table. She said there are two scenarios at this point:

Option 1 – Maintain Building and remediate and fix foundations - FEMA Notice of Violation (NOV) - which comes to a total estimated cost of $11.5 million.

Option 2 – Demolition the building and remediate and rebuild basic necessities which comes to a total estimated cost of $8.5 million.

First Selectwoman Kupchick said FEMA will look at the Penfield building as two separate sections - the locker rooms and the main building. She said the main building needs to be fixed, but the locker rooms do not.

First Selectwoman Kupchick discussed the process that brought the Administration where it is now. She said there has been constant contact with FEMA for two years to try and downgrade the NOV without success and now a decision has to be made by March 31, 2023 so FEMA can see action is being taken to fix the situation. She said if the Town does not meet the deadline of March 31st and does nothing, FEMA can take other action that would negatively impact the Town. First Selectwoman Kupchick said almost 1800 residents are eligible for the 10% discount on their Flood Insurance and there is a strong possibility that FEMA will take away the eligibility of Town residents using the flood insurance discount now and then the Town would have to reapply for eligibility that could take years.

Selectman Flynn made a motion to adopt the resolution appropriating $3 million for the Penfield Pavilion project. Selectwoman Lefkowitz seconded the motion.

Selectman Flynn made a motion to amend the original resolution to the new resolution that has been presented. Selectwoman Lefkowitz seconded the amendment. (See Full Resolution Below).

Selectwoman Lefkowitz said has many concerns regarding the resolution. First Selectwoman Kupchick said the Judge in the Fill Pile case said this is the worst case in the Town of Fairfield and the most complicated case in the State. Selectwoman Lefkowitz referred to the March 31st deadline and said she is not denying that it is a horrible situation, but feels the Administration should not rush into a decision.

There was discussion with Planning Director James Wendt, Project Engineer Eli Ghazal and the others on the panel regarding the NOV and the March 31st deadline. The comments were passionate for both options and regarding finances. The panel explained that they used local contractors to provide feedback on all costs in proposals. CEO Tom Bremer expressed his concern that there might be more fill under the building to be removed than is thought now. Selectwoman Lefkowitz reiterated her original suggestion to buy time to make a decision. The others on the Town panel did not think that decision would be in the best interest of the Town as there were many residents who participate in the discount program who don't live near the beach and wouldn't want the Penfield situation to have an effect on their flood insurance. It was also mentioned that if FEMA moved the Town to suspension of the program it could have a catastrophic effect on the marketplace.

The First Selectwoman opened the meeting to public comment:

- Katie Lawrence – 6 Carlton Street

- Elizabeth Zezima – RTM – District 4 - 160 Fairfield Woods Road #22
- Ken Camarro – 345 Carroll Road
- Warren Lapa – 200 Lalley Boulevard
- Jim Bowen – 44 Fox Street
- Jill Vergara – RTM – District 7 - 271 Old Post Road
- Dick Dmochowski – Flood & Erosion Control Board member, 241 Colonial Drive
- Rick Grauer – 268 Rowland Road
- Karen McCormack – RTM – District 2 - 305 Winnepoge Drive
- Meghan McCloat – 2815 Redding Road
- Becky Bunnell – Flood & Erosion Control Board Chair - 2005 Fairfield Beach Road
- John Kuhn – RTM – District 7 - 125 Mayweed Road
- Ed Humiston – 25 Fox Street
- Alex Durrell – RTM –District 3 - 64 Woodcrest Road

Public comment closed at 6:56 pm. The public comments can be heard in their entirety by accessing the link here: BOS Penfield Funding Meeting 3.6.23.

There was a short break and the meeting resumed at 7:01 pm.

After comments and more of the same discussion from the BOS members the vote was taken.

The amended resolution:

A RESOLUTION APPROPRIATING $10,500,000 FOR COSTS RELATED TO CONSTRUCTION, REMEDIATION, AND ADDRESSING THE NOTICE OF VIOLATION AT PENFIELD PAVILION

WHEREAS, contaminated fill from the (Julian) fill pile was illegally deposited beneath Penfield Pavilion during construction;

WHEREAS, by state and federal law, the Town of Fairfield, Connecticut (the "Town") is required to remove the fill in accordance with DEEP & EPA standards under a Consent Order;

WHEREAS, FEMA has determined the Town installed horizontal grade beams at a height that is in violation of federal floodplain management regulations;

WHEREAS, under federal law, the Town is required to bring Penfield Pavilion into compliance with FEMA regulations;

WHEREAS, the Town has received Notices of Violation from federal and state agencies that must be addressed.

WHEREAS, if the Town does not take corrective action by the end of March regarding the Notice of Violation, the Town faces a myriad of negative consequences that will impact residents and the Town;

WHEREAS, Penfield Pavilion is an asset to the community enjoyed by residents year round and cleaning the contaminated fill and lowering the grade beams is necessary to comply with

all state and federal laws;

WHEREAS, the total costs for the remediation and construction at Penfield Pavilion, as well as, the cost to address the Notices of Violation is $11,500,000 (the "Total Costs"); and

WHEREAS, the Town previously allocated and approved $1,000,000 in American Rescue Plan Act funding to be applied towards the Total Costs; and

WHEREAS, the Town is holding funds (the "Funds") in its Capital Non-Recurring Fill Pile Remediation Account (the "Account") and desires to appropriate $10,500,000 of the Funds to finance the balance of the Total Costs; and

NOW, THEREFORE, **BE IT RESOLVED**:

As recommended by the Board of Finance and the Board of Selectmen, the Town hereby appropriates the following sums from the Capital Non-Recurring Fill Pile Remediation Account for the following purposes:

$4,000,000 related to remediation at Penfield Pavilion
$3,500,000 related to construction at Penfield Pavilion
$3,000,000 related to work to address the Notices of Violation

The motion to amend the original resolution carried unanimously.

The main motion, as amended, carried 2-1-0 (Lefkowitz opposed).

4. Adjourn
Selectwoman Lefkowitz made a motion to adjourn. Selectman Flynn seconded the motion which carried unanimously.

The meeting adjourned at 7:37 pm.

Respectfully submitted,

Pru O'Brien
Recording Secretary

BOARD OF SELECTMEN REGULAR MEETING
Monday, April 17, 2023, 4:00 pm
Via Webex& In-Person in the
First Floor Conference Room, Independence Hall
725 Old Post Road, Fairfield, CT 06824

A recording of this meeting can be found here: BOS Meeting 4/17/2023.

DRAFT MINUTES

MEMBERS PRESENT: First Selectwoman Brenda L. Kupchick, Selectman Thomas M. Flynn, Selectwoman Nancy E. Lefkowitz
OTHERS PRESENT: Peter Collins, CAO Tom Bremer, CFO Jared Schmitt, Controller Caitlin Bosse, Senior VP Client Relations Hooker & Holcomb Stuart Herskowitz, HR Benefits Manager Megan Brant, DPW Interim Director John Marsilio, Engineer Eli Ghazal, Bismark Construction President Greg Raucci, Flood and Erosion Control Board Chair Becky Bunnell

1) CALL TO ORDER
First Selectwoman Brenda Kupchick called the meeting to order at 4:00 pm.

2) PLEDGE OF ALLEGIANCE
First Selectwoman Kupchick led the Pledge of Allegiance. First Selectwoman Kupchick then requested a moment of silence for the sad passing of the brother of Assistant Fire Chief Kyran Dunn - retired Yonkers Assistant Fire Chief Larry Dunn. Larry was a Fairfield resident and is survived by his wife Arlene and their three daughters.

3) MINUTES
To consider and act upon the minutes of March 9, 2023, April 3, 2023 and April 10, 2023

Selectman Flynn made a motion to approve the minutes of 3/9/23, 4/3/23 and 4/10/23. Selectwoman Lefkowitz seconded the motion which carried unanimously.

Selectwoman Lefkowitz stated that she stands by her comments at the last BOS meeting regarding the draft minutes of the March 6th BOS meeting. The Recording Secretary is reviewing the meeting recording and will amend the minutes as requested.

4) RESIGNATION
Town Plan and Zoning Commission
Steven Leahy (R) 110 Ross Hill Road, term 11/21-11/25
(Resigned March 29, 2023)

The Selectpersons thanked Mr. Leahy for his service.

5) APPOINTMENT
Town Plan and Zoning Commission
Peter S. Collins (R), 29 Newton Street, term 11/21-11/25
(To fill a vacancy for Steven Leahy (R) who resigned)

Selectman Flynn made a motion to approve the appointment of Peter Collins to the Town Planning and Zoning Commission. Selectwoman Lefkowitz seconded the motion.

Mr. Collins said he is looking forward to working with the Town.

The motion carried unanimously.

6) HUMAN RESOURCES DEPARTMENT
To hear an overview from the Independent Investment Discretionary Advisor of the 457(b) and 401(a) Fiduciary Review Committee and an Update on the Defined Contribution Retirement Savings Plans

Stuart Herskowitz explained his role in the Town contribution plans (Mission Square), not the pension plans. Mr. Herskowitz gave packets to the Selectpersons and explained the funds being used and said investment plans offered to employees. Mr. Herskowitz said he works with HR Benefits Manager Megan Brant and they will return to the BOS meetings on a regular basis for updates. Mr. Herskowitz stated there is oversight of this program. He said he works with 25-30 municipalities in the State of CT. Selectman Flynn said he would like to see this under the Retirement Investment Board, but Megan Brant said this money is from participant contributions where the pension is Town funds. There was a lengthy discussion about this. Selectwoman Lefkowitz stated for the record that she echoes the concerns of other Selectpersons.

7) To Hear an Update on Penfield Pavilion
First Selectwoman Kupchick said there have been previous discussions on whether or not the Town would establish a building committee for Penfield Pavilion. It was determined that a building committee is not required for this project as the Town is not constructing a new building; but repairing the grade beams and removing the contaminated fill. She said it is a unique project and one that will certainly be under scrutiny by the regulatory agencies involved.

After a lot of discussion, First Selectwoman Kupchick felt the best way forward to keep the community informed of the project is for the Town to provide an update on Penfield to the BOS at least monthly. She said there is a Town webpage dedicated to the project which has been created for posting all updates and corresponding documents. It is www.fairfieldct.org/penfieldpavilion.

The Town's CAO Tom Bremer, Project Manager from Engineering, Eli Ghazal, DPW Interim Director Bucky Marsilio and Greg Raucci from Bismark Construction gave an overview of the project, including where we are and next steps. The backup includes the initial contracts which the Board won't be voting on until the next BOS meeting.

CAO Tom Bremer gave an update on the status of Penfield Pavilion. He said he will have more details at the May 1st meeting and every month going forward. Mr. Bremer gave an overview of the four contracts included in the backup and said the Town will need to submit very detailed design drawings to FEMA. He said schematics and conceptual drawings have already been submitted. Mr. Bremer said RACE still needs to do more analysis and data points will be included in design contracts. Mr. Bremer went through the steps of the project and its schedule. He said there will be regular meetings and monthly reports to the BOS.

Selectman Flynn suggested a Finance person be added to the Committee to give budget updates and an Owner's Rep should be added as well to see if it will be helpful. Interim DPW Director John Marsilio spoke about Owner's Reps. Flood and Erosion Control Board Chair Becky Bunnell asked when the RFP would be done with RACE Coastal Engineering and thinks it will involve things the Flood and Erosion Control Board will need to know regarding resiliency. Mr. Bremer said he will speak with RACE about a resiliency plan and will then speak to Ms. Bunnell.

8) COMPENSATION RECOMMENDATION COMMITTEE FOR THE BOARD OF SELECTMEN
To hear, consider and approve a Charge for the Compensation Recommendation Committee for the Board of Selectmen (CRCBOS)

First Selectwoman Kupchick told the BOS that the last time a CRCBOS met was in 2019 before the election, which is when this Committee usually meets. She said the CRCBOS has been made up of two BOF members and two RTM members to determine the compensation for the three BOS.

Selectwoman Lefkowitz made a motion to approve the Charge for the CRCBOS. Selectman Flynn seconded the motion which carried unanimously.

9) COMPENSATION RECOMMENDATION COMMITTEE FOR THE BOARD OF SELECTMEN
To hear, consider and act upon the following appointments to the Compensation Recommendation Committee for the Board of Selectmen (CRCBOS):

i. Edward Bateson (R) 2195 North Street (RTM)
ii. John Mitola (D) 21 Surrey Lane (BOF)
iii. Sharon B. Pistilli (D) 107 Lota Drive (RTM)
iv. James Walsh (R) 85 Pratt Street (BOF)

Selectwoman Lefkowitz made a motion to approve the appointments to the CRCBOS. Selectman Flynn seconded the motion which carried unanimously.

10) TAX COLLECTOR
To consider and act upon tax refunds as recommended by the Tax Collector in the amount of $9,675.84

Selectman Flynn made a motion to approve Item 10. Selectwoman Lefkowitz seconded the motion which carried unanimously.

11) To hear, consider and act upon any other business which shall properly come before this meeting

First Selectwoman Kupchick announced that tonight, there will be an information session about the Age Friendly initiative our Town is undertaking at 7:00 PM at the Bigelow Center. She said Fairfield has recently become one of seven towns in the State to join this network that aims to make our community a great place to grow up *and* grow old by assessing the challenges of our aging population and identifying policies, programs and new ideas that will improve the quality of life for all ages in our community.

First Selectwoman Kupchick also spoke of the following:

On Thursday, April 20th at 6:30 pm at Osborn Hill School, the Town is hosting a public workshop on the Plan of Conservation and Development. This is an opportunity to have your voice heard with regard to planning for future development in Town.

Holocaust Commemorations:
The Fairfield Public Library's Fairfield Holocaust Commemoration Program will take place on Wednesday, April 19th at 6:30 pm at the Main Library.

All residents are invited to gather to commemorate the Holocaust on Wednesday, May 3, 2023 at 7:30 pm at First Church Congregational with an interfaith ceremony. This is an annual event hosted by the Fairfield Holocaust Committee that always includes a meaningful speaker.

- Shop & Stroll
  The annual Shop & Stroll Into Spring will take place on Thursday, April 27th in downtown Fairfield to support our local businesses. This could be a nice opportunity to do some shopping including buying Mother's Day presents! As a part of this year's event, the Town will be collecting food pantry items and raising funds for Operation Hope.
- Earth Day

Fairfield's Earth Day Celebration will take place on Saturday, April 29th from 10 am to 1 pm, rain or shine at the Fairfield YMCA in conjunction with the Town's observance of Drive Electric Earth Day and the YMCA's Healthy Kids Day® -- a national initiative aimed at encouraging healthy kids and families and a healthy start to the summer season. The day also will feature a safety-focused "Bike Rodeo" sponsored by the Fairfield Boy Scouts, Fairfield Police and Yale New Haven Health/Children's Hospital.

Please refer to Friday's newsletter, which is up on the Town website for more details, town news and upcoming events.

12) Adjourn
Selectman Flynn made a motion to adjourn. Selectwoman Lefkowitz seconded the motion which carried unanimously.

The meeting adjourned at 5:25 pm.

Respectfully submitted,

Pru O'Brien
Recording Secretary

A/C Building Committee Charge

As required by the State of Connecticut HVAC Indoor Air Quality Grants for Public Schools (Public Act 22-118), the Town of Fairfield's Board of Selectman is establishing the A/C Building Committee.

In order to facilitate school A/C construction projects, the A/C Building Committee is created and charged with implementing all A/C construction projects that have received HVAC Indoor Air Quality Grants and/or OSCGR Construction Grants as assigned to them by the Board of Selectmen. The Committee is charged with the preparation of schematic drawings and outline specifications and is authorized to file for grant applications with the State of Connecticut or any other sources offering reimbursements or grants.

The Committee shall consist of three members. In addition, the Superintendent of Schools shall appoint a designee to serve as an ex-officio member whose primary responsibilities will be to plan projects, coordinate pre-construction and construction activities and to file all necessary paperwork required for State reimbursement or other grants.

From: null@town.fairfield.ct.us
To: Board of Selectmen
Subject: New submission for form: Boards and Commissions Interest Form (ID #303)
Date: Wednesday, April 26, 2023 11:38:52 AM

Boards and Commissions Interest Form

Record #303 submitted from IP address 67.80.18.8 on 4/26/2023 11:37 AM

View form

ID	303
First Name	David
Last Name	Becker
Street Address	164 Taintor Drive
Zip Code	06890
Email Address	david@davidbecker.com
Cell Phone	203-394-8285
Home Phone	
Work Phone	
Voter Registration Status	Yes
Political Party Affiliation	Republican Party
Board or Commission	AC Building Committee
Read the Boards Role	No
How You Learned About the Position	I've generally following the progress with the overall project and goals for many years along with the more recent developments and funding options.
Who You Have Spoken To	Department Head

Explanation of Interest and Contribution	The project is an important topic and I believe that the addition of my background to the committee may be beneficial to the project outcome and if so would like to assist.
Resume or Bio	David Becker AC Bldg Bio Ffld 4-26-23.pdf
Additional Comments	

Manage

David Becker
Bio for AC Building Committee
4/26/23

Lifelong Fairfield resident, married with two children. Owner of several businesses in town. Background is primarily in finance and business though also includes emergency management and public safety. Currently active in leadership role with one of the volunteer fire departments in our town. Service to our community also includes many past and current non-profit board roles often assisting with finances. Former member of both the RTM and Board of Finance and the many committees related to that service.

From: null@town.fairfield.ct.us
To: Board of Selectmen
Subject: New submission for form: Boards and Commissions Interest Form (ID #305)
Date: Wednesday, April 26, 2023 3:19:18 PM

Boards and Commissions Interest Form

Record #305 submitted from IP address 216.2.193.1 on 4/26/2023 3:19 PM

View form

ID	305
First Name	Jason
Last Name	Li
Street Address	245 Sunnyridge Ave
Zip Code	06824
Email Address	jasonli.fairfield@gmail.com
Cell Phone	203-895-5424
Home Phone	
Work Phone	
Voter Registration Status	Yes
Political Party Affiliation	Republican Party
Board or Commission	Other
Read the Boards Role	Yes
How You Learned About the Position	BOE
Who You Have Spoken To	Other Person(s)
Explanation of Interest and Contribution	Past experience as chairman of two school building committees
Resume or Bio	JASON Resume 3.doc

Additional Comments	I am currently the Chairman of the Mill Hill Building Committee and past Chairman of the Holland Hill Building Committee

Manage

JASON LI

245 Sunnyridge Ave Unit 35 ❖ Fairfield, Connecticut 06824
(203) 895.5424 ❖ jasonli.fairfield@gmail.com

Sports Marketing and Advertising Sales / Sales Management

Proven leader with track record of developing and growing local advertising accounts. Customer-focused sales professional who achieves results through a creative, problem solving approach aimed at generating measurable results for key clients. Experienced in digital media, new media, and traditional media.

EXPERIENCE:

Aug 2019-Present **Altice Media Group**
News12
Senior Multi Media Account Executive

Responsible for generating revenue for the area through advertising sales of local News12 programming and the entire Cable network such as but not limited to Sports broadcasts, New broadcast in English and Spanish, multi digital platforms.

Mar 2015- 2019 **CUMULUS RADIO, BRIDGEPORT, CT: WEBE 108/WICC 600**
Director of Sports Sales
NY YANKEE RADIO NETWORK
UNIVERSITY OF CONNECTICUT RADIO NETWORK
Senior Multi Media Account Executive
Cumulus Radio is the second largest operator in the United States
WEBE 108 is a 50,000 watt station that reaches the entire state of CT
WICC 600 has been a broadcast partner of the NY Yankees for over 20 years

Responsible for generating revenue for the area through advertising sales of local programming, NY Yankee broadcasts in English, multi digital platforms and events.

- *Exceeded digital budget in the year by 112%*
- *Achieved NY Yankee broadcast budget annual 3% growth*
- *Increased client involvement and spend by over 75%*
- *Increase key client spending by an average 24%*

July 2013 – July 2015 **CBS SPORTS RADIO NEW YORK: 660/101.9 WFAN;**
NY YANKEE RADIO BROADCAST; CBSLOCAL.COM
Senior Multi Media Account Executive
WFAN is the number one billing radio station in the United States
CBS Radio is the broadcast partner for the NY Yankees
CBS Sports Radio is a CBS Broadcasting with offices throughout the United States

Responsible for generating revenue for the number one sports station and billing station in the United State and NY tri state area through advertising sales of local programming, NY Yankee broadcasts in English and Spanish, multi digital platforms and events.

- *Developed new Spanish NY Yankee business*
- *Developed new cross over WFAN, NY Yankee and NY Spanish business*
- *Re-introduced digital business not billing in over (8) quarters*

okJuly 2012-July 2013 **ESPN NEW YORK: 98.7FM; Deportes 1050AM; ESPNNY.COM**
Project Account Executive

ESPN is a joint venture of The Walt Disney Company and Hearts Corporation operated by ABC. ESPN is headquartered in Bristol, CT with offices throughout North America, Europe and South America.

Responsible for generating revenue for English and Spanish ESPN NY properties through advertising sales of local programming, play –by-play, and multi digital platforms for ESPNNY.com and four other local sites. Created and managed accounts by generating new ideas for clients on ESPN New York's multiplatforms.

- 41% over annual ESPN Deportes budget
- 58% over annual ESPNNY.com budget

Sept – Jul 2012 **ReachLocal – New York City**
Internet Marketing Consultant

ReachLocal (NASDAQ: RLOC) mission is to help small and medium sized businesses(SMBs) acquire, maintain and retain customers via the Internet. ReachLocal is headquartered in Woodland Hills, CA, with offices throughout North America and in Australia, the United Kingdom, Germany and the Netherlands.

Responsible for generating revenue through sales of digital SEO and SEM. Created and managed accounts using marketing and advertising platforms through search, social, display and remarketing platforms.

Activities: Current Vice Chairman for the Holland Hill Building Committee and Mill Hill Building Committee (Appointed)
Former Elected RTM (Regional Town Meeting) District 8, Fairfield, CT
Former Executive Board, Connecticut Sports Commission

Language: English, Spanish and Chinese

EDUCATION: **UNIVERSITY OF BRIDGEPORT**, Bridgeport, Connecticut.

From: null@town.fairfield.ct.us
To: Board of Selectmen
Subject: New submission for form: Boards and Commissions Interest Form (ID #304)
Date: Wednesday, April 26, 2023 2:49:26 PM

Boards and Commissions Interest Form

Record #304 submitted from IP address 66.81.57.210 on 4/26/2023 2:49 PM

View form

ID	304
First Name	Rodney
Last Name	Van Deusen Jr
Street Address	157 Longdean Road
Zip Code	06824
Email Address	rvandu1993@gmail.com
Cell Phone	203-395-8121
Home Phone	
Work Phone	
Voter Registration Status	Yes
Political Party Affiliation	Democratic Party
Board or Commission	AC Building Committee
Read the Boards Role	Yes
How You Learned About the Position	I was contacted by Sal Morabito.
Who You Have Spoken To	Other Person(s)
Explanation of Interest and Contribution	Always interested in serving the community. I have served on Building Committees and commissions for the Town. I am an engineer and contractor.

Resume or Bio	Copy of 20190920 Van Deusen CV.pdf
Additional Comments	

Manage

Rodney J. Van Deusen, Jr.

Construction Executive / Project Manager
157 Longdean Road, Fairfield, CT 06824
Cell: 203-395-8121 - Vandu76@optonline.net

Career Summary/Qualifications:

Over the course of my career I have held many positions including General Manager Construction, Division Chief - Marine /Diving/Construction, Senior Consultant - Marine Engineering and Construction, Project Manager - Marine and Building Engineering, Owner's Representative - Marine and Building Construction, Construction Quality Control Manager, Construction Manager, Engineer Diver, and Engineering Design. These positions have allowed me to gain extensive experience in leadership, design, management, engineering and construction management/administration. Completed projects include 400 + commercial projects, 125+ ferry terminal and landing developments, 200+ waterfront engineering/inspection and construction assignments, 150+ educational and industrial facilities, 300+ curtain wall and skylight projects, 200+ High end residential projects and multiple ADA compliance investigations and upgrades for public and private clients. A demonstrated ability to build long-term client relationships and determine cost effective solutions to design, construction and regulatory issues.

Key Strengths Include:

Forensic Investigations	Property Condition Assessment
Construction Management / Administration	Glass and Curtain Wall Design
Commercial Structural Damage Investigations	Knowledge of Building Codes
Residential Damage Evaluations	Engineering Design and Management
Certified Surface Air Supplied Diver	Waterfront Design, Permitting, and Construction
Quality Control / Quality Assurance	Proposal Generation
Specification and Bid Preparation	Design Liaison
Timber, Steel and Concrete Design	Above and Below Water Inspections
Business Development	Report Writing
Team Building	MEP Coordination

Professional Experience:

Weston & Sampson Engineers, Inc. 2020 - Present

Position: General Manager
Department: Construction Management

Responsibilities included construction management, managing water and wastewater construction projects, inspections, permitting and field observation during construction.

Responsibilities:

- Business Development – Development of the strategic plan and direction, providing and guiding the firm's direction, vision and mission.
- Marketing – Coordinating marketing efforts for this firm.
- Project Management – Managing and implementing the overall project and program management for the firm. This includes project scheduling, estimating, report generation, review of change orders, review and generation of RFPs, client interaction and support.
- Investigations – Inspections include residential structural evaluation, commercial structural evaluation and waterfront structures.
- Construction Management– Preparation of bid documents, bid review and evaluation, Quality Control and Quality Assurance, review of shop drawings, attending construction progress meetings, onsite supervision to assure adherence to design documents, and project closeout.

Rodney J. Van Deusen, Jr.
Project Manager / Construction Professional

GZA GeoEnvironmental, Inc. 2015 - 2020
Position: Senior Consultant
Department: Water / Construction Management

Responsibilities included construction management, property condition assessments, managing numerous waterfront and demolition projects, inspections, permitting and field observation during construction. I am responsible for structural engineering for a wide range of projects including ferry terminals, piers, docks, bulkheads, relieving platforms, revetments, retaining walls, marinas, and specialized structures.

Responsibilities:

- Business Development – Development of the strategic plan and direction, providing and guiding the firm's direction, vision and mission.
- Marketing – Coordinating marketing efforts for this firm.
- Project Management – Managing and implementing the overall project and program management for the firm. This includes project scheduling, estimating, report generation, review of change orders, review and generation of RFPs, client interaction and support.
- Investigations – Inspections include residential structural evaluation, commercial structural evaluation and waterfront structures.
- Design – Design oversight including staff scheduling, reviewing calculations, preparing or reviewing permitting applications for local, state and federal agencies, reviewing drawings and specifications.
- Construction Administration– Preparation of bid documents, bid review and evaluation, Quality Control and Quality Assurance, review of shop drawings, attending construction progress meetings, onsite supervision to assure adherence to design documents, and project closeout.

Permasteelisa Group 2014 - 2015
Position: Project Manager Curtain Wall Construction
Department: Project Management

I was brought on board to manage the design fabrication and construction of a curtainwall system for a 52 story residential tower in Manhattan, New York City, New York.

Responsibilities:

- Project Management – Managing and implementing the overall project and program management for a specific project in Manhattan, New York. This includes project scheduling, estimating, report generation, review of change orders, review and generation of RFPs, client interaction and support.
- Investigations – Inspections include residential structural evaluation, commercial structural evaluation and waterfront structures.
- Design – Design oversight including staff scheduling, reviewing calculations, preparing or reviewing permitting applications for local, state and federal agencies, reviewing drawings and specifications.
- Construction Management– Quality Control and Quality Assurance, review of shop drawings, attending construction progress meetings, onsite supervision to assure adherence to design documents, and project closeout.

ARGE Consulting LLC 2012 – 2014
Position: Principal/Senior Project Manager
Department: Project/Program Management, Construction Quality Control and Design

Accountable for the development and guidance of a small consultancy that specializes in project and program management, Construction Quality Control, waterfront design, permitting, inspection, residential design and construction management. Developed and directly responsible for design concepts, supervision of office and field personnel, client interaction and satisfaction, generation of proposals, and development of marketing materials.

Recent projects include Design Liaison, Quality Control Management, Project Management and MEP coordination for a $58 million project at West Point, Design of a 300 linear foot gravity seawall in West Haven, CT, review of the timber structure for a turn of the century residence in Southport, CT and consultation for a 1200 foot steel bulkhead in Norwalk, CT.

Responsibilities:

- Business Development – Development of the strategic plan and direction, providing and guiding the firm's direction, vision and mission.
- Marketing – Coordinating all marketing efforts for this firm.
- Project Management – Managing and implementing the overall project and program management for the firm. This includes project scheduling, estimating, report generation, review of change orders, review and generation of RFPs, client interaction and support.
- Construction Quality Control – Management and implementation of USACOE CQC plans for complex US Military projects.
- Investigations – Inspections include residential structural evaluation, commercial structural evaluation and waterfront structures.
- Design – Design oversight including staff scheduling, reviewing calculations, preparing or reviewing permitting applications for local, state and federal agencies, reviewing drawings and specifications.
- Construction Administration– Preparation of bid documents, bid review and evaluation, Quality Control and Quality Assurance, review of shop drawings, attending construction progress meetings, onsite supervision to assure adherence to design documents, and project closeout.

CSE, LLC 2010 – 2012

Position: Sr. Project Manager/Senior Engineer
Department: Structural Engineering/Waterfront

Charges included the management of multiple projects for architectural, engineering, commercial, insurance and residential clients. Design work included conceptual development of structural systems, analysis and design of new and existing structures, design of complex curtain wall structures, complete design documents, specifications, code compliance, cost estimating and construction administration. Completed over 50 condition surveys and reports after hurricanes Irene and Sandy

Responsibilities:

- Project Management
- Property Condition Assessment
- Forensic Engineering
- Engineering Design
- Residential Damage Investigation and Evaluations
- Forensic Engineering Investigations
- Construction Management / Administration

Ocean and Coastal Consultants, Inc. 2005 – 2010

Position: Project Manager/ Lead Engineer Diver
Department: Structural Engineer/Waterfront/Transportation

Provided management and engineering for waterborne transportation projects and above and below water condition assessments. Was marketing liaison and member of the firms Executive Management Team that provided overall direction and oversight. Project management assignments included overall management of projects, scheduling of personnel, project estimating and cost control, proposal generation, business development and marketing. Construction cost for the successfully completed projects ranged between $100k and $15 million with average fees generated per year that ranged between 0.75 to 1.5 million per year.

Rodney J. Van Deusen, Jr.
Project Manager / Construction Professional

McLaren Engineering Group 1992 - 2005
Position: Division Chief/Project Manager/Staff Engineer
Department: Marine/Waterborne Transportation

In the position of Division Chief for the Marine and Waterborne Transportation Divisions duties included leading and directing a staff of six engineer divers, four engineers and four commercial divers. Duties included full P&L responsibility, overall day-to-day operations, business development, marketing, client interaction, staff scheduling, generation of proposals and design oversight. Annual fee generation for these divisions was a combined $2.5 to $3.5 million dollars per year.

As Project Manager responsibilities included management of projects, proposal generation, design, condition assessment of marine and building structures, construction administration and review of designs and specifications.

Staff Engineer – was responsible for the design, specifications and construction administration for commercial, educational, industrial, retail, curtainwall, skylight, and residential structures.

Thune Associates Structural Engineering 1982 - 1992
Position: Design Engineer/Draftsman
Department: Structural Engineering - Buildings

As design engineer, reporting directly to the Chief Structural Engineer, tasks included the complete structural design of commercial and residential structures.

Education:

Wentworth Institute of Technology, B.S./Architectural Engineering
Wentworth Institute of Technology, A.D./Architectural Engineering Technology
Wentworth Institute of Technology, A.D./Building Construction Technology

Certifications:

PSMJ – Project Management Course
SAS Work Diving Safety and Supervision Course/ 2005/Florida Keys Community College
TWIC Card
Certified Diver - SDI
Certified USACOE Quality Control Systems Administrator / Quality Control Manager
OSHA 10 Hour
American Red Cross CPR/AED Adult
Dan O2 training
American Red Cross First Aid
American Red Cross Bloodborne Pathogens

Professional and Other Affiliations:

Town Facilities Commission – Town of Fairfield, CT – Member
First Taxing District Parks Commission – Norwalk, CT - Member
Structural Engineer's Association of NY
The Society of Naval Architects and Marine Engineers - Member
American Society of Civil Engineers - Member
Coasts, Oceans, Ports and Rivers Institute - Member
Connecticut Maritime Association, Inc.
Metropolitan Waterfront Alliance
Board of Directors for the Cranbury Chapel – Norwalk, CT – Member

Awards/Recognition:

Design Award – First Place for the design of repurposing of the main sanctuary of the United Methodist Church located in Rutland, VT.

Certificate of Appreciation - Department of Design and Construction in appreciation for efforts during the clean up of the World Trade Center Site.

Letter of Appreciation - Port Authority of New York and New Jersey for the design and installation of a temporary ferry terminal at Pier A in lower Manhattan.

Letter of Appreciation – The Thornton Tomasetti Group, Inc. for the work completed during the clean up of the World Trade Center site.

Certificate of Appreciation - Assistance in the construction of the first recycled plastic bridge over Hannacroix Creek in Greene County, New York.

Computer Skills:

Microsoft - Word	Microsoft - Project	Bentley Systems – RAM
Microsoft – Excel	AutoCAD	
Microsoft – PowerPoint	Bentley Systems – STAAD Pro	

Town of Fairfield

Sullivan Independence Hall
725 Old Post Road

Fairfield, Connecticut 06824
Purchasing Department

(203) 256-3060
FAX (203) 256-3080

Award Recommendation Resolution:

On Monday, 17th April 2023, the Purchasing Authority awarded Bid number 2023-122 Boiler Replacement-Burr Elementary School, to Southport Contracting, Inc., Bridgeport, CT, to provide all labor, materials, equipment and all else necessary, to perform a boiler replacement including Bid Alternate #1, removing and replacing the existing hot water heater at Burr Elementary School as detailed in the bid specifications.

Total Original Bid: $495,000.00
$ 95,000.00 (Alternate #1-Remove and Replace Hot Water Heater)
Total Bid: $590,000.00

Southport Contracting, Inc. has provided the Town with a comprehensive schedule that fully addresses all the requirements outlined in the Bid scope of work.

The award of this contract to Southport Contracting, Inc. shall be subject to the review and approval of the Board of Selectmen.

Brenda L. Kupchick, First Selectwoman

Adam B. Tulin, Director of Purchasing

Town of Fairfield

Sullivan Independence Hall
725 Old Post Road

Fairfield, Connecticut 06824
Purchasing Department

(203) 256·3060
FAX (203) 256·3080

BID #2023-122

Boiler Replacement - Burr Elementary School

TOWN OF FAIRFIELD
PURCHASING AUTHORITY
725 OLD POST ROAD
INDEPENDENCE HALL
FAIRFIELD, CT 06824.

Date Submitted 3/20 2023

SEALED BIDS are subject to the standard instructions set forth on the attached sheets. Any modifications must be specifically accepted by the Town of Fairfield, Purchasing Authority.

Thomas R. Bra
First Selectwoman

Director of Purchasing

2/24/2023
Date

Bidder:
Southport Contracting Inc
Doing Business As (Trade Name)
1730 Commerce Drive
Address
Bridgeport, CT. 06605
Town, State, Zip
Marianne Scinto President
(Mr/Ms) Name and Title, Printed
Marianne Scinto
Signature
203-334-2323
Telephone ~~Fax~~
southportcontracting@gmail.com
E-mail

Sealed bids will be received by the Purchasing Authority at the office of the Director of Purchasing, First Floor, Independence Hall, 725 Old Post Road, Fairfield, Connecticut 06824, up to:

11:00am, Wednesday, 22nd March, 2023

To provide labor, materials, equipment and all else necessary for the Boiler Replacement project at Burr Elementary School as detailed in the attached specifications.

NOTES:

1. Bidders are to complete all requested data in the upper right corner of this page and must return this page and the Proposal page with their bid.
2. No bid shall be accepted from, or contracts awarded to, any person/company/affiliate or entity under common control who is in arrears to the Town of Fairfield upon debt, or contract or who has been within the prior five (5) years, a defaulter as surety or otherwise upon obligations to the Town of Fairfield, and shall be determined by the Town.
3. Bid proposals are to be submitted in a sealed envelope and clearly marked **"BID #2023-122"** on the outside of the envelope, including all outer packaging, such as, DHL, FedEx, UPS, etc.
4. It is the sole responsibility of the bidder to see that the bid is received by the Fairfield Purchasing Department prior to the time and date noted above. Bid proposals are not to be submitted via email or fax.
5. Bid proposals are not to be submitted with plastic binders or covers, nor may the bid proposal contain any plastic inserts or pages.

INVITATION TO BID

The Town of Fairfield (Town) on behalf of Fairfield Public Schools (FPS) is seeking competitive bids from qualified contractors to provide all materials, labor and equipment necessary for the boiler replacement project located at Burr Elementary School, 1960 Burr Street, Fairfield as specified in the Bid document.

PRE-BID CONFERENCE

A site meeting will commence at **4:00pm**, main lobby at **Burr Elementary School, 1960 Burr Street, Fairfield, Connecticut**, on **Tuesday, 14th March, 2023**, for prospective bidders to scope the conditions.

- While the meeting is non-mandatory, prospective bidders will be required to sign-in at commencement of the meeting. The sign-in sheet will be posted on the Purchasing Department website as below. Copies will not be made available at the meeting, nor will they be faxed out.
- All requests for information will be answered in writing as specified below under Addenda.

ADDENDA / REQUESTS FOR INFORMATION (RFI)

Addenda concerning important information and/or modifications to specifications will be posted on the Fairfield Purchasing Department website at **www.fairfieldct.org/purchasing.htm**

- It is each Bidder's sole responsibility to monitor the above website for all updated information.
- Addenda will not be mailed, e-mailed or faxed out.
- Written requests for information will not be accepted after **11:00am Wednesday, 15th March, 2023.**
- Verbal requests for information via phone or other means will not be accepted.
- Failure to comply with these conditions will result in the bidder waiving the right to dispute bid specifications and conditions, no exceptions.

Questions concerning this bid must be submitted in writing and directed only to:
Pru O'Brien, Junior Buyer
pobrien@fairfieldct.org

Response will be in the form of an addendum that will be posted approximately **16th March, 2023** to the Town of Fairfield website, which is www.fairfieldct.org. It is the responsibility of each bidder to retrieve addenda from the website. Any contact about this bid between a Bidder and any other Town official and/or department manager and/or Town of Fairfield employee, other than as set forth above, may be grounds for disqualification of that Bidder. No questions or clarifications shall be answered by phone, in person or in any other manner than specified above.

REQUIREMENTS

A. Any sizes or estimate of quantities as shown on drawings are approximate and are not guaranteed in any respect. Prospective bidders are to visit the site to verify scope of the work, measurements, quantities, etc., prior to bidding. The Town reserves the right at all times to increase or decrease the amount of work if deemed in its best interest.

B. Price is to include all labor, materials, tools, equipment, plant, mobilization, permits, insurances, etc., required to properly complete the project.

C. The Town of Fairfield reserves the right to award the bid with multiple items:
   - to more than one bidder, based on meeting the item(s) specification, cost, availability, or any combination of these criteria;
   - to a single bidder who meets the specifications for all items, and offers the best combination of lowest cost, best availability, and broadest product range;
   - and may add, subtract or delete any item and/or quantity as deemed in the best interest of the Town.

D. The Bidder must not discriminate, nor permit discrimination, against any person on the grounds of race, color, national origin, religion, sex, handicap, or veteran status, in their employment practices, in any of their contractual arrangements, in all service and accommodations they offer to the public, and in any of their other business operations.

E. The successful bidder MUST secure all required permits (local, state, federal) prior to commencing work on the site.

F. The awarded Contractor will have access to the site immediately upon award of contract and all work must be completed in a timely manner. Time is of the essence. All work time must be coordinated with the Project Engineer.

G. Award of the project, either partial or in its entirety, is contingent upon funding approval by the applicable boards of the Town of Fairfield, including state and federal agencies.

H. **Upon Award, all bidding documents shall constitute a legal contract including but not limited to the following; Bid Invitation, Addendum, CT DOL Prevailing Wage Documents, Award Resolution, Town Purchase Order, and AIA Contract or equivalent when applicable.**

I. In the instance the Contactor discovers unanticipated hazardous material, whether it be in nature or capacity, the Town reserves the right to terminate the Contract and regain possession of the project site.

ENCLOSURES

1. Project Manual provided by VanZelm Engineers, Farmington, CT
2. Project Drawings provided by VanZelm Engineers, Farmington, CT
3. CT Department of Labor Prevailing Wage Rates

BID PROPOSAL FORM

PROPOSAL TO: Town of Fairfield, Purchasing Department
First Floor, Sullivan Independence Hall
725 Old Post Road, Fairfield, Connecticut 06824

I, Marianne Scinto/Southport Contracting *have received the following contract documents,*

1. BID Document **#2023-122,**
2. Posted addenda (if any) numbered 1 *thru* 3, posted at **www.fairfieldct.org/purchasing.htm**

and have included their provisions in my Proposal. I shall provide all labor, materials, equipment, technical service, insurances, warranties, applicable taxes and licenses, etc, to supply and deliver materials as specified:

Base Bid: Lump Sum to Complete all work listed: $ 495,000.

Add/Alternate #1: Alternate shall be provided to replace the existing domestic hot water heater with a new water heater, as specified within the documents. The scope includes the replacement of the existing water heater, new intake and exhaust venting and all associated piping and controls to the BMS.

$ 95,000.

The Town has the right to add or remove items and/or quantities from this bid. Unbalanced bids will not be accepted.
The Town of Fairfield reserves the right to award the bid with multiple items:

a) To more than one bidder, based on meeting the item(s) specification, cost, availability, or any combination of these criteria;

b) To a single bidder who meets the specifications for all items, and offers the best combination of lowest cost, best availability, and broadest product range;

c) May add, subtract or delete any item and/or quantity as deemed in the best interest of the Town.

d) All pricing shall include the cost of labor, materials, equipment, tools, mobilization, incidentals, delivery, (where not waived by the Town), licenses, overhead and profit, taxes (except from which the Town is exempt) and insurances.

CHECKLIST
The following must be submitted with proposal:

- ☑ Cover page, completed and signed.
- ☑ Addenda acknowledged per Item 2 on Bid Proposal Form, or
- ☑ Signed and submitted with modified pricing if requested.
- ☑ List of references where projects performed of comparable size and scope within the past three years.
- ☑ Schedule of values.
- ☑ List of all sub-contractors identifying each trade, hourly rates, and Tax ID number.
- ☑ **Bid Bond as specified in this document – no exceptions**

The Bidder hereby certifies that any and all defects, errors, inconsistencies or omissions of which he/she is aware, either directly or by notification from any sub-bidder or material supplier found in the Contract Documents are listed herewith in this Bid Form.

Marianne Scinto President — Name and Title of Authorized Representative (Printed)
Marianne Scinto — Signature
3/21/23 — Date

PURCHASING AUTHORITY
TOWN OF FAIRFIELD
INSTRUCTIONS FOR BIDDERS
TERMS AND CONDITIONS OF BID

BID PROPOSALS
Bid proposals are to be submitted in a sealed envelope and clearly marked on the outside "**BID #2023-122**" with company name, including all outer packaging such as DHL, FedEx, UPS, etc. All prices and notations must be printed in ink or typewritten. No erasures are permitted. Bid proposals are to be in the office of the Purchasing Authority, First Floor, Independence Hall, 725 Old Post Road, Fairfield, Connecticut, prior to date and time specified, at which time they will be publicly opened.

RIGHT TO ACCEPT / REJECT
AFTER REVIEW OF ALL FACTORS, TERMS AND CONDITIONS, INCLUDING PRICE, THE PURCHASING AUTHORITY OF THE TOWN OF FAIRFIELD RESERVES THE RIGHT TO REJECT ANY AND ALL BIDS, OR ANY PART THEREOF, OR WAIVE DEFECTS IN SAME, OR ACCEPT ANY PROPOSAL DEEMED TO BE IN THE BEST INTEREST OF THE TOWN OF FAIRFIELD.

QUESTIONS
Questions concerning conditions, bidding guidelines and specifications should only be directed in writing to:

Ms. Pru O'Brien, pobrien@fairfieldct.org

Inquiries must reference date of bid opening, requisition or contract number, and must be received no later than as indicated in the bid documents prior to date of bid opening. Failure to comply with these conditions will result in the bidder waiving the right to dispute the bid specifications and conditions.

PRICES
Prices quoted must be firm, for acceptance by the Town of Fairfield, for a period of ninety (90) days. Prices shall include all applicable duties. Bidders shall be required to deliver awarded items at prices quoted in their original bid.

F.O.B. DESTINATION
Prices quoted shall be Net – Delivered to destination. Bids quoting other than F.O.B. Destination may be rejected.

BID BOND
The BID BOND furnished, as bid security, must be duly executed by the bidder as principal. It must be in the amount equal to five percent (5%) of the total estimated bid, as guarantee that, in case the contract is awarded to the bidder, the bidder will, within ten days thereafter, execute such contract and furnish a Performance Bond and Payment Bond.

Small businesses may elect to obtain an irrevocable letter of credit or cashier's check in lieu of the Bid Bond. Such surety must also be in an amount equal to at least five percent (5%) of the total estimated bid.

All bid bonds shall be written by a surety company or companies licensed in the State of Connecticut, and shall have at least an A-VII policy holders rating, as reported by A.M. Best Rating Services, or otherwise deemed acceptable by the Town. The Town always reserves the right to reject surety companies, if an approved surety bond cannot be provided, the bidder shall be deemed non-responsive.

A complete list of certified surety companies can be accessed on the U.S. Government Department of Treasury website: https://www.fiscal.treasury.gov/fsreports/ref/suretyBnd/c570_a-z.htm

NOTE: Failure to provide a Bid Bond or equivalent security is not cause for a waiver defect. Any bid not accompanied by such security will be excluded from consideration.

PERMITS
The contractor will be responsible for securing all necessary permits, state and local, as required by the Town of Fairfield. The Town will waive its application and permit fees for Town of Fairfield projects.

PAYMENT PROCEDURES
No voucher, claim or charge against the Town shall be paid without the approval of the Fiscal Officer for correctness and legality. Appropriate checks shall be drawn by the Fiscal Officer for approved claims or charges and they shall be valid without countersignature unless the Board of Selectmen otherwise prescribed.

PAYMENT PERIOD
The Town of Fairfield shall put forth its best effort to make payment within thirty days (30) after delivery of the item acceptance of the work, or receipt of a properly completed invoice, whichever is later. Payment period shall be net thirty days (30) unless otherwise specified. For projects that do not require a performance or bid bond, The Town of Fairfield reserves the right to retain five percent (5%) of total bid amount, which is payable ninety (90) days after final payment or acceptance of the work.

THE CONTRACTOR
The Contractor for the work described shall be thoroughly familiar with the requirements of all specifications, and the actual physical conditions of various job sites. The submission of a proposal shall be construed as evidence that the Contractor has examined the actual job conditions, requirements, and specifications. Any claim for labor, equipment, or materials required, or difficulties encountered which could have been foreseen had such an examination been carefully made will not be recognized.

ASSIGNMENT OF CONTRACT
No contract may be assigned or transferred without the consent of the Purchasing Authority.

AWARD OF BIDS
Contracts and purchases will be made or entered into with the lowest responsible bidder meeting specifications, except as otherwise specified in the invitation. If more than one item is specified in the invitation, the Town of Fairfield reserves the right to determine the low bidder on an individual basis or on the basis of all items included in the Invitation for Bids, unless otherwise expressed by the Town. Additionally, the Town reserves the right to consider other factors in an award, such as the Town's prior experience with a vendor for services previously provided.

PERFORMANCE AND LABOR AND MATERIAL BOND
The successful bidder, within seven (7) business days after notification of award, will be required to furnish Performance and Labor and Material Bond provided by a company authorized to issue such bonds in the State of Connecticut, or Certified Check or properly executed Irrevocable Letter of Credit equal to a hundred per cent (100%) of the award.

In the event that the Contractor where required to provide evidence of insurance and a performance bond does not do so before beginning work, the Town of Fairfield reserves the right to withhold payment from such supplier until the evidence of insurance and performance bond has been received by the Town.

All payment and performance bonds shall be written by a surety company or companies licensed to issue bonds in the State of Connecticut, and shall have at least an A-VIII policy holders rating, as reported by A.M. Best Rating Services, or otherwise deemed acceptable by the Town. The Town always reserves the right to reject surety companies, if approved surety bonds cannot be provided the contract shall be terminated.

A complete list of certified surety companies can be accessed on the U.S. Government Department of Treasury website: https://www.fiscal.treasury.gov/fsreports/ref/suretyBnd/c570_a-z.htm

BOND REQUIREMENT – NON-RESIDENT CONTRACTORS

1. Non-resident contractors are required to deposit with the Department of Revenue Services a sum equivalent to 5% of the total contract value, as assurance that personal property taxes and/or any other State taxes assessed and due the State during the contract will be paid.
2. If this surety is not deposited with the State, the Town is required to deduct and submit to the State 5% of the total contract value.

GUARANTEE
Equipment, materials and/or work executed shall be guaranteed for a minimum period of one (1) year against defective material and workmanship. The cost of all labor, materials, shipping charges and other expenses in conjunction with the replacement of defective equipment, and/or unsatisfactory work, shall be borne by the Contractor.

CATALOGUE REFERENCE
Unless expressly stated otherwise, any and all reference to commercial types, sales, trade names and catalogues are intended to be descriptive only and not restrictive; the intent is to indicate the kind and quality of the articles that will be acceptable. Bids on other equivalent makes, or with reference to other catalogue items will be considered. The bidder is to clearly state exactly what will be furnished. Where possible and feasible, submit an illustration, descriptive material, and/or product sample.

INSURANCE

A. The Town of Fairfield is requiring insurance coverage as listed below for this work.

Note: The term "General Contractor" (hereinafter called the "Contractor") shall also include their respective agents, representatives, employees and subcontractors; and the term " Town of Fairfield" (hereinafter called the "Town") shall include their respective officers, agents, servants, officials, employees, volunteers, boards and commissions.

Note: The term "Town of Fairfield" or "Town" is to be taken to mean Town of Fairfield and the Fairfield Board of Education when the project includes the Board of Education.

At least five days before the Contract is executed and prior to commencement of work there under the Contractor will be required to submit to the Town of Fairfield, Purchasing Director, 725 Old Post Road, Fairfield, CT 06824 a certificate of insurance, executed by an authorized representative of the insurance company, satisfactory to the Town's Risk Manager and in an acceptable form. The Town always reserves the right to reject insurance companies, if approved insurance policies cannot be provided the contract shall be terminated.

INSURANCE RIDER

Without limiting the Contractor's liability, the Contractor shall provide and maintain in full force and effect at all times until all work required by the contract has been fully completed, except that Products/Completed Operations coverage shall be maintained for five (5) years, insurance coverage related to its services in connection with the project in compliance with the following requirements.

The insurance required shall be written for not less than the scope and limits of insurance specified hereunder, or required by applicable federal, state and/or municipal law, regulation or requirement, whichever coverage requirement is greater. It is agreed and understood that the scope and limits of insurance specified hereunder are minimum requirements and shall in no way limit or preclude the Town from requiring additional limits and coverage to be provided under the Contractor's policies.

B. Minimum Scope and Limits of Insurance:

Worker's Compensation Insurance:

- In accordance with the requirements of the laws of the State of Connecticut.
- Five hundred thousand dollars ($500,000) Employer Liability each accident.
- Five hundred thousand dollars ($500,000) Employer Liability each employee by disease.
- Five hundred thousand dollars ($500,000) Employer Liability policy limit coverage for disease.

Commercial General Liability Insurance:

- Bodily Injury, Personal Injury and Property Damage one million dollars ($1,000,000) each occurrence, two million dollars ($2,000,000) aggregate.
- Products/Completed Operations one million dollars ($1,000,000) each occurrence, two million dollars ($2,000,000) aggregate.

Automobile Liability Insurance:

- A combined single limit of one million dollars ($1,000,000). This policy shall include all liability of the Contractor arising from the operation of all self-owned motor vehicles used in the performance of the Contract; and shall also include a "non-Ownership" provision covering the operation of motor vehicles not owned by the Contractor, but used in the performance of the work, and, rider CA9948 or equivalent

Pollution Liability:

- One million dollars ($1,000,000) each occurrence, one million dollars ($1,000,000) aggregate.

Umbrella/Excess Liability Insurance:

- Five million dollars ($5,000,000) each occurrence, five million dollars ($5,000,000) aggregate. Such coverage must be follow form over Worker's Compensation, Commercial General Liability, Pollution Liability and Automobile Liability.

Indemnification: The Contractor shall defend, indemnify and save harmless the Town and its officers, agents, servants, officials, employees, volunteers, boards and commissions from and against any and all claims, demands, suits, proceedings, liabilities, judgments, awards, losses, damages, costs and expenses of any nature, including attorneys' fees, on account of bodily injury, sickness, disease, death or any other damages or loss sustained by any person or persons or injury or damage to or destruction of any property, directly or indirectly arising out of, relating to, or in connection with the work called for in the Contract, whether or not due or claimed to be due in whole or in part to the active, passive or concurrent negligence, fault or contractual default of the Contractor, its officers, agents, servants or employees, any of its sub-contractors, the Town, any of its respective officers, agents, servants, officials, employees, volunteers, boards and commissions and/or any other person or persons, and whether or not such claims, demands, suits or proceedings are just, unjust, groundless, false, or fraudulent, and the Contractor shall and does hereby assume and agrees to pay for the defense of all such claims, demands, suits and proceedings, provided, however, that the Contractor shall not be required to indemnify the Town, its officers, agents, servants, officials, employees, volunteers, boards and commissions, against any such damages occasioned solely by acts or omissions

of the Town, its officers, agents, servants, officials, employees, volunteers, boards and commissions, other than supervisory acts or omissions of the Town, its officers, agents, servants, officials, employees, volunteers, boards and commissions, in connection with the work called for in the Contract.

"Tail" Coverage: If any of the required liability insurance is on a claims-made basis, "tail" coverage will be required at the completion of this contract for a duration of 36 months, or the maximum time period reasonably available in the marketplace. The Contractor shall furnish certification of "tail" coverages described or continuous "claims made" liability coverage for 36 months following Contract completion.

Continuous "claims made" coverage will be acceptable in lieu of "tail" coverage provided its retroactive date is on or before the effective date of this Contract. If continuous "claims made" coverage is used, the Contractor shall be required to keep the coverage in effect for duration of not less than 36 months from the end of the Contract.

Acceptability of Insurers: The Contractor's policies shall be written by insurance companies licensed to do business in the State of Connecticut, with an A.M. Best rating of A- XV or otherwise acceptable by the Town's Risk Manager.

Subcontractors: The Contractor shall require subcontractors to provide the same "minimum scope and limits of insurance" as required herein, with the exception of Errors and Omissions/Professional Liability insurance/Fiduciary Liability, unless Errors and Omissions/Professional Liability/Fiduciary Liability insurance is applicable to the work performed by the subcontractor. All Certificates of Insurance shall be provided to and approved by the Town's Risk Manager prior to the commencement of work, as required herein.

Aggregate Limits: It is agreed that the Contractor shall notify the Town when fifty percent (50%) of the aggregate limits are eroded during the contract term. If the aggregate limit is eroded for the full limit, the Contractor agrees to reinstate or purchase additional limits to meet the minimum limit requirements stated herein. The premium shall be paid by the Contractor.

Deductibles and Self-Insured Retentions: Any deductible or self-insured retention must be declared to, and approved by, the Town. All deductibles or self-insured retentions are the sole responsibility of the Contractor to pay and/or to indemnify. Under no circumstances will the Town be responsible for paying any deductible or self-insured retentions related to this Contract

Notice of Cancellation or Non-renewal: Each insurance policy required shall be endorsed to state that coverage shall not be suspended, voided, cancelled, or reduced in coverage or in limits except after 30 days prior written notice by certified mail, return receipt requested, has been given to the Town, (provided ten (10) days' prior written notice shall be sufficient in the case of termination for nonpayment).

Waiver of Governmental Immunity: Unless requested otherwise by the Town, the Contractor and its insurer shall waive governmental immunity as defense and shall not use the defense of governmental immunity in the adjustment of claims or in the defense of any suit brought against the Town.

Additional Insured: The liability insurance coverage, except Errors and Omissions, Professional Liability or Workers Compensation, if included, required for the performance of the Contract shall include the Town as Additional Insured but only with respect to the Contractor's activities to be performed under this Contract. Coverage shall be primary and non-contributory with any other insurance and self-insurance and contain no special limitations on the scope of protection afforded to the Town of Fairfield. The Town and/or its representative retain the right to make inquiries to the Contractor, its agents or broker and insurer directly.

Waiver of Subrogation: A waiver of subrogation in favor of the Town is required on all policies.

Waiver/Estoppel: Neither approval by the Town nor failure to disapprove the insurance furnished by the Contractor shall relieve the Contractor of the Contractor's full responsibility to provide insurance as required under this Contract.

Contractor's Insurance Additional Remedy: Compliance with the insurance requirements of this Contract shall not limit the liability of the Contractor or its Sub-Contractors/Firms, employees or agents to the Town or others. Any remedy provided to the Town shall be in addition to, and not in lieu of, any other remedy available under this Contract or otherwise.

Certificate of Insurance: As evidence of the insurance coverage required by this Contract, the Contractor shall furnish Certificate(s) of Insurance to the Town's Risk Manager prior to the award of the Contract if required by the Bid document, but in all events prior to Contractor's commencement of work under this Contract. The Certificate(s) will specify all parties who are endorsed on the policy as Additional Insured (or Loss Payees). The certificates and endorsements for each insurance policy are to be signed by a person authorized by the insurer to bind coverage on its behalf. Renewals of expiring certificates shall be filed thirty (30) days prior to expiration. The Town reserves the right to require complete, certified copies of all required policies at any time. All insurance documents required should be mailed to Town of Fairfield, Chief Financial Officer, 725 Old Post Road, Fairfield, CT 06824 and Town of Fairfield, Risk Manager, 725 Old Post Road, Fairfield, CT 06824.

OSHA

The bidder will certify all equipment complies with all regulations and conditions stipulated under the Williams-Steiger Occupational Safety and Health Act of 1971, as amended. The successful bidder will further certify that all items furnished under this project will conform and comply with Federal and State of Connecticut OSHA standards. The successful bidder will agree to indemnify and hold harmless the Town of Fairfield for any and all damages that may be assessed against the Town.

LIFE CYCLE COSTING
Where applicable, Life Cycle Costing will be used as a criterion for awarding bids. This is a method of calculating total cost of ownership of an item over the life of the product, which may include operation and maintenance expenses, transportation, salvage value, and/or disposal costs.

FEDERAL, STATE, AND LOCAL LAWS
All applicable Federal, State and local laws, rules and regulations of all authorities having jurisdiction over the locality of the project shall apply to the contract and are deemed to be included herein. If the total amount of the project, including any current or future change orders, exceeds $100,000.00 all work is to be done in accordance with Connecticut Department of Labor (CT-DOL) rules and regulations. More information may be obtained from: www.ctdol.state.ct.us

The Davis-Bacon and Related Acts, shall apply to contractors and subcontractors performing on federally funded or assisted contracts in excess of $2,000 for the construction, alteration, or repair (including painting and decorating) of public buildings or public works. More information may be obtained from: https://www.dol.gov/whd/govcontracts/dbra.htm

NOTE: The Town shall apply the most current wage decision applicable at the time of contract award.

CONFLICT OF INTEREST
No officer or employee or member of any elective or appointive board, commission or committee of the Town, whether temporary or permanent, shall have or acquire any financial interest gained from a successful bid, direct or indirect, aggregating more than one hundred dollars ($100.00), in any project, matter, contract or business within his/her jurisdiction or the jurisdiction of the board, commission, or committee of which he/she is a member. Nor shall the officer / employee / member have any financial interest, direct or indirect, aggregating more than one hundred dollars ($100.00) in any contract or proposed contract for materials or services to be furnished or used in connection with any project, matter or thing which comes under his/her jurisdiction or the jurisdiction of the board, commission, committee of which he/she is a member.

NON-WAIVER CLAUSE
The failure by the Town to require performance of any provision of this bid shall not affect the Town's right to require performance at any time thereafter, nor shall a waiver of any breach or default of a contract award constitute a waiver of any subsequent breach or default or a waiver of the provision itself.

ATTORNEY FEES
In the event of litigation relating to the subject matter of this bid document or any resulting contract award, the non-prevailing party shall reimburse the prevailing party for all reasonable attorney fees and costs resulting therefrom.

SCOPE OF WORK/SITE INSPECTIONS
The bidder declares that the scope of the work has been thoroughly reviewed and any questions resolved (see above for name and number of individual to contact for questions). If applicable, the bidder further declares that the site has been inspected as called for in the specifications (q.v.).

EXCEPTION TO SPECIFICATIONS
No protest regarding the validity or appropriateness of the specifications or of the Invitation for Bids will be considered, unless the protest is filed in writing with the Purchasing Authority prior to the closing date for the bids. All bid proposals rendered shall be considered meeting the attached specifications unless exceptions are noted on a separate page dated and signed by the bidder.

UNLESS OTHERWISE NOTED
It will be assumed that all terms and conditions and specifications will be complied with and will be considered as part of the Bid Proposal.

TAX EXEMPT
Federal Tax Exemption 06-6001998.
Exempt from State Sales Tax under State General Statues Chapter 219-Section 12-412 Subsection A.
No exemption certificates are required and none will be issued.

REFERENCES

Provide reference details of most recent similar scope projects performed.

REFERENCE #1:

Name of Company See Attached Phone _____

Contact Person _____ Cell _____

Company Address _____ Email _____

Project, Location, & Date Completed _____

_____

REFERENCE #2:

Name of Company _____ Phone _____

Contact Person _____ Cell _____

Company Address _____ Email _____

Project, Location, & Date Completed _____

_____

REFERENCE #3:

Name of Company _____ Phone _____

Contact Person _____ Cell _____

Company Address _____ Email _____

Project, Location, & Date Completed _____

_____

REFERENCE #4:

Name of Company _____ Phone _____

Contact Person _____ Cell _____

Company Address _____ Email _____

Project, Location, & Date Completed _____

_____

REFERENCE #5:

Name of Company _____ Phone _____

Contact Person _____ Cell _____

Company Address _____ Email _____

Project, Location, & Date Completed _____

_____

SUBCONTRACTORS
Provide subcontractor details if any are to be employed as part of this contract, including labor rates:

SUBCONTRACTOR #1:

Name of Company A+R Electric Inc — Fed ID # 06-1351211
Contact Person Americo Gloria — Title President
Company Address 31 Miles Street. Bridgeport, CT — Phone 203-368-3912
Trade Electrical — Email arelectric3k@gmail.com
Rates: Supervisor $ 125 /hr Foreman $ 115 /hr Journeyman $ 105 /hr Apprentice $ 85 /hr

SUBCONTRACTOR #2:

Name of Company Silktown Roofing Inc — Fed ID # 06-1350674
Contact Person Sean Morrissey — Title Senior Estimating
Company Address 151 Water Street. Derby, CT 06418 — Phone 203-735-0552
Trade Roofing — Email sean@silktownroofing.com
Rates: Supervisor $ DAC /hr Foreman $ DAC /hr Journeyman $ DAC /hr Apprentice $ DAC /hr

SUBCONTRACTOR #3:

Name of Company Automated Logic Contracting Services, Inc — Fed ID # 820540614
Contact Person Leo Perritano — Title Sr. Sales Engineer
Company Address 23 Village Lane. Wallingford, CT — Phone 860-883-7867
Trade Controls — Email leo.perritano@carrier.com
Rates: Supervisor $ — /hr Foreman $ — /hr Journeyman $ 154 /hr Apprentice $ — /hr

SUBCONTRACTOR #4:

Name of Company Mayan Insalation — Fed ID # 83-0793389
Contact Person Mike Langan — Title Mechanical Insulator
Company Address 92 Weston St. unit 5. Hartford, CT — Phone 203-707-9666
Trade Insulator — Email mike@mayaninsulation.com
Rates: Supervisor $ — /hr Foreman $ 115. /hr Journeyman $ — /hr Apprentice $ — /hr

NOTE: All sub-Contractors are subject to approval by the Town of Fairfield and are required to provide Fed ID #.

AIA® Document A310™ – 2010

Bid Bond

CONTRACTOR:
(Name, legal status and address)
Southport Contracting, Inc.
1730 Commerce Drive
Bridgeport, CT 06605

SURETY:
(Name, legal status and principal place of business)
Great Midwest Insurance Company
800 Gessner Road, Suite 600
Houston, TX 77024

OWNER:
(Name, legal status and address)
Town of Fairfield
725 Old Post Road
Fairfield, CT 06824

BOND AMOUNT: $ Five Percent of the Amount Bid (5%)

PROJECT:
(Name, location or address, and Project number, if any)
Boiler Replacement at Burr Elementary School
1960 Burr Street, Fairfield, CT
Bid No.: 2023-122

The Contractor and Surety are bound to the Owner in the amount set forth above, for the payment of which the Contractor and Surety bind themselves, their heirs, executors, administrators, successors and assigns, jointly and severally, as provided herein. The conditions of this Bond are such that if the Owner accepts the bid of the Contractor within the time specified in the bid documents, or within such time period as may be agreed to by the Owner and Contractor, and the Contractor either (1) enters into a contract with the Owner in accordance with the terms of such bid, and gives such bond or bonds as may be specified in the bidding or Contract Documents, with a surety admitted in the jurisdiction of the Project and otherwise acceptable to the Owner, for the faithful performance of such Contract and for the prompt payment of labor and material furnished in the prosecution thereof; or (2) pays to the Owner the difference, not to exceed the amount of this Bond, between the amount specified in said bid and such larger amount for which the Owner may in good faith contract with another party to perform the work covered by said bid, then this obligation shall be null and void, otherwise to remain in full force and effect. The Surety hereby waives any notice of an agreement between the Owner and Contractor to extend the time in which the Owner may accept the bid. Waiver of notice by the Surety shall not apply to any extension exceeding sixty (60) days in the aggregate beyond the time for acceptance of bids specified in the bid documents, and the Owner and Contractor shall obtain the Surety's consent for an extension beyond sixty (60) days.

If this Bond is issued in connection with a subcontractor's bid to a Contractor, the term Contractor in this Bond shall be deemed to be Subcontractor and the term Owner shall be deemed to be Contractor.

When this Bond has been furnished to comply with a statutory or other legal requirement in the location of the Project, any provision in this Bond conflicting with said statutory or legal requirement shall be deemed deleted herefrom and provisions conforming to such statutory or other legal requirement shall be deemed incorporated herein. When so furnished, the intent is that this Bond shall be construed as a statutory bond and not as a common law bond.

ADDITIONS AND DELETIONS:
The author of this document has added information needed for its completion. The author may also have revised the text of the original AIA standard form. An *Additions and Deletions Report* that notes added information as well as revisions to the standard form text is available from the author and should be reviewed. A vertical line in the left margin of this document indicates where the author has added necessary information and where the author has added to or deleted from the original AIA text.

This document has important legal consequences. Consultation with an attorney is encouraged with respect to its completion or modification.

Any singular reference to Contractor, Surety, Owner or other party shall be considered plural where applicable.

Init.

Signed and sealed this 22nd day of March, 2023

Southport Contracting, Inc.
(Principal) *(Seal)*

President
(Title)

(Witness)

Great Midwest Insurance Company
(Surety) *(Seal)*

(Witness)

(Title) Michael E. Watts, Attorney-in-Fact

POWER OF ATTORNEY

Great Midwest Insurance Company

KNOW ALL MEN BY THESE PRESENTS, that **GREAT MIDWEST INSURANCE COMPANY**, a Texas Corporation, with its principal office in Houston, TX, does hereby constitute and appoint:

Michael E. Watts, Paul A. Simeon, Linda A. Damon

its true and lawful Attorney(s)-In-Fact to make, execute, seal and deliver for, and on its behalf as surety, any and all bonds, undertakings or other writings obligatory in nature of a bond.

This authority is made under and by the authority of a resolution which was passed by the Board of Directors of **GREAT MIDWEST INSURANCE COMPANY**, on the 1st day of October, 2018 as follows:

Resolved, that the President, or any officer, be and hereby is, authorized to appoint and empower any representative of the Company or other person or persons as Attorney-In-Fact to execute on behalf of the Company any bonds, undertakings, policies, contracts of indemnity or other writings obligatory in nature of a bond not to exceed Ten Million dollars ($10,000,000.00), which the Company might execute through its duly elected officers, and affix the seal of the Company thereto. Any said execution of such documents by an Attorney-In-Fact shall be as binding upon the Company as if they had been duly executed and acknowledged by the regularly elected officers of the Company. Any Attorney-In-Fact, so appointed, may be removed in the Company's sole discretion and the authority so granted may be revoked as specified in the Power of Attorney.

Resolved, that the signature of the President and the seal of the Company may be affixed by facsimile on any power of attorney granted, and the signature of the Secretary, and the seal of the Company may be affixed by facsimile to any certificate of any such power and any such power or certificate bearing such facsimile signature and seal shall be valid and binding on the Company. Any such power so executed and sealed and certificate so executed and sealed shall, with respect to any bond of undertaking to which it is attached, continue to be valid and binding on the Company.

IN WITNESS THEREOF, **GREAT MIDWEST INSURANCE COMPANY**, has caused this instrument to be signed by its President, and its Corporate Seal to be affixed this 11th day of February, 2021.

GREAT MIDWEST INSURANCE COMPANY — CORPORATE SEAL — TEXAS CORPORATION

GREAT MIDWEST INSURANCE COMPANY

BY _____
Mark W. Haushill
President

ACKNOWLEDGEMENT

On this 11th day of February, 2021, before me, personally came Mark W. Haushill to me known, who being duly sworn, did depose and say that he is the President of **GREAT MIDWEST INSURANCE COMPANY**, the corporation described in and which executed the above instrument; that he executed said instrument on behalf of the corporation by authority of his office under the By-laws of said corporation.

NOTARY PUBLIC STATE OF TEXAS
CHRISTINA BISHOP
Notary Public, State of Texas
Comm. Expires 04-14-2025
Notary ID 131090488

BY _____
Christina Bishop
Notary Public

CERTIFICATE

I, the undersigned, Secretary of **GREAT MIDWEST INSURANCE COMPANY**, A Texas Insurance Company, DO HEREBY CERTIFY that the original Power of Attorney of which the foregoing is a true and correct copy, is in full force and effect and has not been revoked and the resolutions as set forth are now in force.

Signed and Sealed at Houston, TX this 22nd Day of March, 2023.

GREAT MIDWEST INSURANCE COMPANY — CORPORATE SEAL — TEXAS CORPORATION

BY _____
Leslie K. Shaunty
Secretary

"WARNING: Any person who knowingly and with intent to defraud any insurance company or other person, files and application for insurance of claim containing any materially false information, or conceals for the purpose of misleading, information concerning any fact material thereto, commits a fraudulent insurance act, which is a crime and subjects such person to criminal and civil penalties.

Town of Fairfield

Sullivan Independence Hall
725 Old Post Road

Fairfield, Connecticut 06824
Purchasing Department

(203) 256-3060
FAX (203) 256-3080

ADDENDUM #1
BID #2023-122
Boiler Replacement – Burr Elementary School

13th March 2023 – It is intended that this Addendum incorporating the following corrections, revisions, additions, deletions and clarifications become part of the Contract Documents, including pricing as submitted.

New Information:

We have scheduled a Site Walk at Burr Elementary School at 4:00pm tomorrow, March 14th. Regarding the weather, if Fairfield Schools are canceled, the Site Walk is canceled also. If school is not canceled, the Site Walk will take place as scheduled. If you have any questions or you would like to make an appointment for a tour, please call Ms. Kim Barber at 203-255-8115.

End of Addendum #1

Company: Southport Contracting Inc. Name: Marianne Saint Signature: Marianne Saint Date: 3/21/22

Town of Fairfield

Sullivan Independence Hall
725 Old Post Road

Fairfield, Connecticut 06824
Purchasing Department

(203) 256-3060
FAX (203) 256-3080

ADDENDUM #2
BID #2023-122
Boiler Replacement – Burr Elementary School

16th March 2023 – It is intended that this Addendum incorporating the following corrections, revisions, additions, deletions and clarifications become part of the Contract Documents, including pricing as submitted.

Questions:

1. **Is a project schedule required with this bid?**

   Response: Yes, a project schedule is required with this bid.

2. **Are there any Liquidated Damages?**

   Response: There are no liquidated damages in this bid.

3. **Do you require a Maintenance schedule? If so, for how long?**

   Response: No, we do not require a maintenance schedule.

4. **How many copies of the Bid Proposal do you require?**

   Response: We only require one original submission of the bid.

5. **There is no specification for combustion air intake pipe/duct materials. The basis of design boiler manufacturer (Patterson-Kelley) recommends any of the following: single wall galvanized steel with duct sealed joints, PVC or CPVC pipe with solvent cement joints. Please advise what materials are to be used for round combustion air intakes, and will they require any pipe/duct insulation?**

   Response: Any of these materials can be used for the combustion air intakes. Insulation is not required. Note that PVC is only acceptable for the intake, it is not permitted for the exhaust. The exhaust shall be stainless steel as listed in specification section 235100 – Breechings, Chimneys and Stacks

6. **There is no completion date listed for the project. This will depend on equipment lead time. Is the intent to have heating operational by Oct. 15th?**

   Response: The intent is to have the heating operational by September 30th, 2023.

7. **Please identify the manufacturer, local rep. and warranty status of the roofing to be flashed for new penetrations.**

   Response: The roof is manufactured by GAF and was installed by Silktown Roofing -Steve Pumphrey 203.735.0552

ADDENDUM #2
BID #2023-122
Boiler Replacement – Burr Elementary School

8. **Please identify the manufacturer and local rep. for the existing ATC-BMS system for controls integration.**

   Response: The manufacturer of the existing ATC-BMS system is Johnson Controls.

9. **There is no reference to concrete house-keeping pads for new boilers. The existing boilers have pads, but the pad footprint will need to be modified for (3) new boilers by extending the existing pads. Please clarify.**

   Response: Remove, modify or construct new concrete pads as required and coordinate with location and sizes of new boiler. See specification 235216 – Condensing Boilers sections 1.7 and 3.2.A for construction information on new house-keeping pads

End of Addendum #2

Company: Southport Contracting Inc. Name: Marianne Scinto Signature: Marianne Scinto Date: 3/21/23

Town of Fairfield

Sullivan Independence Hall
725 Old Post Road

Fairfield, Connecticut 06824
Purchasing Department

(203) 256·3060
FAX (203) 256·3080

ADDENDUM #3
BID #2023-122
Boiler Replacement – Burr Elementary School

21st March 2023 – It is intended that this Addendum incorporating the following corrections, revisions, additions, deletions and clarifications become part of the Contract Documents, including pricing as submitted.

New Information:

1. The Town has elected to extend the deadline date for this bid solicitation from Wednesday, March 22, 2023 at 11:00 am to ***Tuesday, March 28, 2023 at 11:00 am****.*

Question:

1. **Can Automated Logic be listed as an approved vendor for ATC-BMS controls for this project?**

   Response*: Yes.*

End of Addendum #3

Company: Southport Contracting Inc. Name: Marianne Scirto Signature: Marianne Scirto Date: 3/22/23
Marianne Scirto

State of Connecticut

Department of Administrative Services

Construction Contractor Prequalification Program

This certifies

Southport Contracting Inc.

1730 Commerce Drive Suite B, Bridgeport, CT 06605

As a

Prequalification Construction Contractor

March 2, 2023 through March 1, 2024

CONTACT INFORMATION

Name: Jefferson A. Scinto
Phone: 203-334-2323
Fax: 203-334-2321
Email: southportcontracting@gmail.com

Name: Marianne Scinto
Phone: 203-334-2323
Fax: 203-334-2321
Email: southportcontracting@gmail.com

Effective Date	Aggregate Work Capacity (AWC)	Single Limit (SL)	Classifications
3/2/2023	$6,000,000.00	$3,000,000.00	FIRE PROTECTION SPRINKLER SYSTEMS, GENERAL BUILDING CONSTRUCTION (GROUP A), GENERAL BUILDING CONSTRUCTION (GROUP C), HVAC, PLUMBING

This certificate prequalifies the named company to bid. It is not a statement of the Contractor's capacity to perform a specific project. That responsibility lies with the awarding authority.

Company Licenses/Registrations: It is the Contractor's responsibility to update their license information by editing their electronic application. Licenses are confirmed by the Department of Administrative Services (DAS) at the time of initial application and at each renewal.

For information regarding the DAS Contractor Prequalification Program visit http://portal.ct.gov/dasprequal or call (860) 713-5280.

Classification Name	Description
FIRE PROTECTION SPRINKLER SYSTEMS	Installation, renovation, repairs and maintenance of fire protection sprinklers in buildings, including such incidental or related work as is customarily performed by those in the Fire Protection/Sprinkler System trades.To prequalify for Fire Protection Sprinkler Systems you must have a Fire Protection Contractor License through the State of Connecticut Department of Consumer Protection.
GENERAL BUILDING CONSTRUCTION (GROUP A)	The undertaking of general contracts for the construction of buildings(i.e. new construction, renovation, rehabilitation, alteration, addition, etc. The contract must include a variety of construction practices and supervision of a minimum of three sub-trades. Includes those designs that are repetitive, conventional in character, require minimum design based on pre-engineered components/systems, and that pose minimum effort by the design professional. Examples include repetitive designs, dormitories, warehouses, basic building structures without interior finishes, ceiling replacement, pre-engineered components, recreation facilities, etc.Note: If you are prequalified for General Building Construction under Group B and or Group C, you are automatically prequalified for Group A. ALSO If you are prequalified for General Building Group A you will automatically be prequalified for GENERAL TRADES.Note: For the purposes of DAS Construction Contractor Prequalification, contractors in this classification are not required to be registered as a major contractor with the Department of Consumer Protection. However, there may be specific projects within this classification that require a major contractor registration from the Department of Consumer Protection.

GENERAL BUILDING CONSTRUCTION (GROUP C)	The undertaking of general contracts for the construction of buildings i.e. new construction, renovation, rehabilitation, alteration, addition, etc. The contract must include a variety of construction practices and supervision of a minimum of three sub-trades. Includes buildings that are truly custom, requiring extensive detailing, or that have large amounts of integrated scientific or complex mechanical/electrical equipment in order for them to function. Examples include hospitals, chemistry buildings, special collections buildings, historic preservation to a landmark structure, and/or any other structure that is truly one of a kind within the State's inventory.Note: If you are prequalified for General Building Construction under Group C, you are automatically prequalified for Group A and Group B. Also if you are prequalified for General Building Group C you will automatically be prequalified for General Trades.Note: For the purposes of DAS Construction Contractor Prequalification, contractors in this classification are not required to be registered as a major contractor with the Department of Consumer Protection. However, there may be specific projects within this classification that require a major contractor registration from the Department of Consumer Protection.Projects that are threshold buildings may require a Major Contractor Registration.
HVAC	Installation, renovation, repair and maintenance of the systems and apparatus required, collectively or individually, to provide comfort heating, ventilation and/or cooling within or associated with a building, including such incidental or related work as is customarily performed by those in the HVAC trade. This category does not include sheet metal work by itself.To prequalify for HVAC you must have a Heating, Piping & Cooling Contractor License through the State of Connecticut Department of Consumer Protection.
PLUMBING	Installation, repair and maintenance of pipes, fixtures and other apparatus in buildings for bringing in and distributing the water supply and removing liquid and water-borne waste, including such incidentals or related work as is customarily performed by those in the plumbing trade.To prequalify for Plumbing you must have a Plumbing Contractor License through the State of Connecticut Department of Consumer Protection.

STATE OF CONNECTICUT ✦ DEPARTMENT OF CONSUMER PROTECTION

Be it known that

JOHN D SCINTO

61 AMERIDGE DR

BRIDGEPORT, CT 06606-6037

has been certified by the Department of Consumer Protection as a licensed

HEATING, PIPING & COOLING UNLIMITED CONTRACTOR

License # HTG.0410300-S1

Effective: 09/01/2022

Expiration: 08/31/2023

Michelle Seagull

Michelle Seagull, Commissioner

STATE OF CONNECTICUT
DEPARTMENT OF CONSUMER PROTECTION

This is your Major Contractor registration certificate for your records. Such registration shall be shown to any properly interested person on request. Do not attempt to make any changes or alter this certificate in any way. This registration is not transferable. Questions regarding this registration can be emailed to the Occupational & Professional Licensing Division at dcp.occupationalprofessional@ct.gov.

In an effort to be more efficient and Go Green, the department asks that you keep your email information with our office current to receive correspondence. You can update your email address or print a duplicate certificate by logging into your account with your User ID and Password at www.elicense.ct.gov.

Mailing address:

SOUTHPORT CONTRACTING INC
1730 COMMERCE DR STE B
BRIDGEPORT, CT 06605-2206

Email on file to be used for receiving all notices from this office:

southportcontracting@gmail.com

889460

STATE OF CONNECTICUT ✦ DEPARTMENT OF CONSUMER PROTECTION

Be it known that

SOUTHPORT CONTRACTING INC

1730 COMMERCE DR STE B
BRIDGEPORT, CT 06605-2206

has satisfied the qualifications required by law and is hereby registered as a

MAJOR CONTRACTOR

Registration #: MCO.0902268
Effective Date: 07/01/2022
Expiration Date: 06/30/2023

verify online at www.elicense.ct.gov

Michelle Seagull

Michelle Seagull, Commissioner

STATE OF CONNECTICUT
DEPARTMENT OF CONSUMER PROTECTION

LIMITED SHEET METAL CONTRACTOR

JEFFERSON A SCINTO SR

19 Hawks Ridge Drive

Shelton, CT 06824

License #	Effective	Expiration
SHM.0005783-SM1	09/26/2022	08/31/2023

SIGNED

STATE OF CONNECTICUT
DEPARTMENT OF CONSUMER PROTECTION

HEATING, PIPING & COOLING LIMITED CONTRACTOR

JEFFERSON A SCINTO SR

19 Hawks Ridge Drive

Shelton, CT 06824

License #	Effective	Expiration
HTG.0207281-S3	09/26/2022	08/31/2023

SIGNED

STATE OF CONNECTICUT
DEPARTMENT OF CONSUMER PROTECTION

JEFFERSON A SCINTO SR

19 Hawks Ridge Drive

Shelton, CT 06824

License #	Effective	Expiration
PLM.0202457-P1	11/01/2022	10/31/2023

SIGNED

STATE OF CONNECTICUT
DEPARTMENT OF CONSUMER PROTECTION

FIRE PROTECTION UNLIMITED CONTRACTOR

JEFFERSON A SCINTO SR

19 Hawks Ridge Drive

Shelton, CT 06824

License #	Effective	Expiration
FRP.0011113-F1	11/01/2022	10/31/2023

SIGNED

State of Connecticut

Department of Administrative Services
Supplier Diversity Program

This Certifies

Southport Contracting Inc.

1730 Commerce Drive Suite B Bridgeport CT 06605

As a

Woman Owned

Small/Minority Business Enterprise

September 29,2022 through September 29,2024

Owner(s): Jefferson A. Scinto; Marianne Scinto

Contact: Jefferson A. Scinto **Telephone:** 203-334-2323 Ext: **FAX:** 203-334-2321

E-Mail: southportcontracting@gmail.com **Web Address:**

****Affiliate Companies:**

Meg Yetishefsky

Supplier Diversity Director

Supplier Diversity Specialist

** A contractor awarded a contract or a portion of a contract under the set-aside program shall not subcontract with any person(s) with whom the contractor is affiliated.

STATE OF CONNECTICUT

DEPARTMENT OF CONSUMER PROTECTION

PLUMBING & PIPING UNLIMITED JOURNEYPERSON

JOHN D SCINTO
61 AMERIDGE DR
BRIDGEPORT, CT 06606-6037

License #	Effective	Expiration
PLM.0289858-P2	11/01/2021	10/31/2022

SIGNED

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esco Institute
Program EPA Approved December 28, 1993

Certificate No.: **1171175700410**

John Scinto

has successfully passed a

UNIVERSAL

exam on how to responsibly handle refrigerants as required by EPA's National Recycling and Emission Reduction Program

www.escogroup.org (800)726-9696

STATE OF CONNECTICUT

DEPARTMENT OF CONSUMER PROTECTION

HEATING, PIPING & COOLING UNLIMITED CONTRACTOR

JOHN D SCINTO
61 AMERIDGE DR
BRIDGEPORT, CT 06606-6037

License #	Effective	Expiration
HTG.0410300-S1	09/01/2022	08/31/2023

SIGNED

CURRENT JOBS

Project Title	**Boiler Replacement at Blackham Elementary School**
Owner/Title	City of Bridgeport
Contact Person	Michele Otero
Contract Amount	$175,000.00
Scope	Boiler Replacement
Start Date	Upon Contract
Completion Date	April 30, 2023
Bond	Yes

Project Title	**Condensate Tank Replacement at Bunnell High School**
Owner/Title	Town of Stratford
Contact Person	Brian Snyder
Contract Amount	$156,000.00
Scope	Condensate Tank Replacement, Steam Trap Replacement
Start Date	October 24, 2022
Completion Date	January 2023
Bond	No

Project Title	**Boiler Replacement at the Greenwich Library**
Owner/Title	Town of Greenwich
Contact Person	To be determined
Contract Amount	$339,500.00
Scope	Boiler Replacement
Start Date	Upon Contract
Completion Date	June 1, 2023
Bond	Yes

Project Title	**Organizational Storage Building Boiler Replacement & UST Removal**
Owner/Title	Diversity Construction Group
Contact Person	Mike Daegle
Contract Amount	$180,000.000
Scope	Unit Heater Replacement
Start Date	Upon Contract
Completion Date	February 28, 2023
Bond	No

SOUTHPORT CONTRACTING, INC

1730 Commerce Drive, Suite B
Bridgeport, CT 06605
Phone 203-334-2323
(Fax) 203-334-2321

COMPLETED JOBS

Project Title	**The Old State House**
Owner/Client	State of Connecticut
Contact Person	Tina Mohr
Contract Amount	$379,000
Scope	Piping Repair
Start Date	June 18, 2022
Completion Date	November 15, 2022
Bond	Yes

Project Title	**Boiler Replacement at Agriscience & Biotechnology**
Owner/Client	Trumbull Board of Education
Contact Person	Dave Cote
Contract Amount	$343,000.00
Scope	Boiler Replacement
Start Date	April 18, 2022
Completion Date	October 15,2022
Bond	Yes

Project Title	**Replacement of Grease Interceptors at Hart & Roxbury Schools**
Owner/Title	City of Stamford
Contact Person	Luda Fuks
Contract Amount	$171,000
Scope	Replacement of Grease Interceptors
Start Date	June 20 ,2022
Completion Date	August 29, 2022
Bond	Yes

Project Title	**Heating Plant Upgrades at Rippowam Middle School**
Owner/Client	City of Stamford
Contact Person	Dominic Tramontozzi
Contract Amount	$1,484,575.00

Scope	HVAC
Start Date	July 15, 2021
Completion	June 30, 2022
Bond	Yes

Project Title	**Boiler Replacement at Eli Whitney Middle School**
Owner/Client	Town of Stratford
Contact Person	Brian Snyder
Contract Amount	$275,000.00
Scope	Plumbing
Start Date	June 21, 2021
Completion Date	March 31,2022
Bond	Yes

Project Title	**Boiler Replacement at Flood Middle School**
Owner/Client	Town of Stratford
Contact Person	Brian Snyder
Contract Amount	$298,500.00
Scope	Plumbing
Start Date	June 22,2021
Completion Date	May31,2022
Bond	Yes

Project Title	**Barn Building Reconstruction at 200 Strawberry Hill Ave. Stamford, CT**
Owner/Client	Kronenberger & Sons Restoration
Contact Person	Morgan McMahon
Contract Amount	$65,000
Scope	Plumbing
Start Date	September, 1, 2020
Completion	December 31, 2021
Bond	No

Project Title	**HVAC Upgrades at Stillmeadow School**
Owner/Client	City of Stamford
Contact Person	Pervej Rahman
Contract Amount	$262,000
Scope	HVAC
Start Date	June 1, 2021
Completion	October 31, 2021
Bond	Yes

Project Title:	**HVAC Upgrades at Stark Elementary School**
Owner/Client	City of Stamford
Contact Person	Dominic Tramontozzi
Contract Amount	$287,200.00
Scope	HVAC
Start Date	June 1, 2021
Completion Date	December 1, 2021
Bond	Yes

Project Title	**Supplemental Cooling Upgrade for 911 Center**
Owner/Client	City of Stamford
Contact Person	Pervej Rahman
Contract Amount	$595,000
Scope	HVAC
Start Date	February, 1, 2021
Completion	August 30, 2021
Bond	Yes

Project Title	**Boiler Replacement at Sullivan Independence Hall**
Owner/Client	Town of Fairfield
Contact Person	James Ryan
Contract Amount	$105,000
Scope	Heating
Start Date	September, 1, 2020
Completion	November 30, 2020
Bond	Yes

Project Title	**Condensate Replacement: Stratford Academy-Johnson House**
Owner/Client	Town of Stratford.
Contact Person	Phil Ryan
Contract Amount	$75,900.00
Scope	Heating
Start Date	June 1, 2020
Completion	September 30, 2020
Bond	Yes

Project Title	**Northeast Elementary School Underground Oil Tank Removal**
Owner/Client	City of Stamford
Contact Person	Parjeev Rahman
Contract Amount	$51,550.00
Scope	Plumbing
Start Date	July 1, 2020
Completion	September 30, 2020
Bond	Yes

Project Title	**Condensate Replacement: Stratford Academy-Johnson House**
Owner/Client	Town of Stratford.
Contact Person	Phil Ryan
Contract Amount	$75,900.00
Scope	Heating
Start Date	June 1, 2020
Completion	September 30, 2020
Bond	Yes

Project Title	**Northeast Elementary School Underground Oil Tank Removal**
Owner/Client	City of Stamford
Contact Person	Parjeev Rahman
Contract Amount	$51,550.00
Scope	Plumbing
Start Date	July 1, 2020
Completion	September 30, 2020
Bond	Yes

Project Title	**Grease Interceptors at Stamford High School & West Hill High School**
Owner/Client	City of Stamford
Contact Person	Luda Fuks
Contract Amount	$197,000.00
Scope	Plumbing
Start Date	June 1, 2020
Completion	August 31, 2020
Bond	Yes

Project Title	**Mill Hill Elementary School Boiler Replacement Fairfield Public Schools**
Contact Person	Lee Flaherty 203-256-3060
Contract Amount	$62,000.00
Scope	Plumbing
Start Date	December, 2019
Completion	January, 2020
Bond	Yes

Project Title	**Main Lobby Restroom Renovations at Stamford Government Center**
Owner/Client	City of Stamford
Contact Person	Lyudmila Fuks Clerk of the Works II (203) 977-4135
Contract Amount	$37,500.00
Scope	Restroom Renovations
Start Date	September, 2019
Completion	November, 2019
Bond	Yes

Project Title	**Steam Heating System Alterations at Wooster Middle School**
Owner/Client	Town of Stratford
Contact Person	Phil Ryan (203) 385-4044
Contract Amount	$79,000.00
Scope	Plumbing
Start Date	September, 2019
Completion	December, 2019
Bond	Yes

Project Title	**Marina Core Building DMO- Wet Heat**
Owner/Client	ABM Air Conditioning & Heating, Inc
Contact Person	Bill Haskel (914) 747- 0910 ext 18
Contract Amount	$100,000.00
Scope	Plumbing
Start Date	November, 2017
Completion	February, 2019
Bond	No

Project Title	**Marina Core Building DMO**
Owner/Client	Bismark Construction
Contact Person	Tim Tarini (203) 876-8331
Contract Amount	$466,000.00
Scope	Plumbing
Start Date	November, 2017
Completion	April, 2019
Bond	No

Project Title	**Steel Point Restaurant**
Owner/Client	Steel Point Restaurant Group
Contact Person	Pete Prizio Jr. (203)395-6301
Contract Amount	$65,000.00
Scope	Plumbing
Start Date	February 2019
Completion	May, 2019
Bond	No

Project Title	**Supply & Install Grease Interceptors at 3 Schools Newfield, K.T. Murphy and Turn of River**
Owner/Client	City of Stamford
Contact Person	Dominic Tramatozzi (203-977-4107)
Contract Amount	$209,000.00
Scope	Plumbing
Start Date	June 3, 2019
Completion	August 15, 2019
Bond	Yes

Project Title	**New Dishwashing Room & Store Upgrade at Kendall Elementary School**
Owner/Client	City of Norwalk
Contact Person	Mike Faenza
Contract Amount	$49,900.00
Scope	Plumbing
Start Date	June 24, 2019
Completion	August 15, 2019
Bond	Yes

Project Title	**Steel Point Marina Phase I**
Owner/Client	RCI Marine, Inc.
Contact Person	Mark Summers (305)672-5588
Contract Amount	$20,000.00
Scope	Plumbing
Start Date	February, 2020
Completion	30 Days
Bond	No

Project Title	**Housatonic Lafayette Hall Toilet Room Renovations**
Owner/Client	Millennium Builders, Inc.
Contact Person	Ron Stacey (860) 571-0555
Contract Amount	$157,000.00
Scope	Bathroom Renovation
Start Date	January, 2017
Completion	October, 2018
Bond	Yes

Project Title	**Demo of Boiler Systems & Equipment** Tashua, Middlebrook & Daniels Farm Schools
Owner/Client	Trumbull Board of Education
Contact Person	Mark Deming (203) 452 - 4310
Contract Amount	$158,000.00
Scope	Boiler Replacement
Start Date	June, 2017
Completion	August, 2017
Bond	No

Project Title	**Westconn Generator Replacement**
Owner/Client	A&R Electric, Inc
Contact Person	Americo Gloria (203) 368 - 3912
Contract Amount	$47,000.00
Scope	Generator Replacement
Start Date	February, 2017
Completion	August, 2017
Bond	No

Project Title	**West Rocks Middle School**
Owner/Client	A&R Electric, Inc
Contact Person	Americo Gloria (203) 368 - 3912
Contract Amount	$12,500.00
Scope	Generator Replacement
Start Date	April, 2017
Completion	August, 2017
Bond	No

Project Title	**Edison School**
Owner/Client	City of Bridgeport BOE Maintenance Office
Contact Person	Joe Venturelle (203) 395-2971
Contract Amount	$160,000.00
Scope	G.C. – Boiler Replacement
Start Date	July, 2016
Completion	September, 2016
Bond	Yes

Project Title	**Klein Memorial Boiler Replacement**
Owner/Client	City of Bridgeport
Contact Person	Joe Gambino (203) 576-7676
Contract Amount	$81,700.00
Scope	G.C. - Boiler Replacement
Start Date	July, 2015
Completion	September, 2015
Bond	Yes

Project Title	**Ralphola Taylor Community Center**
Owner/Client	City of Bridgeport
Contact Person	Joe Gambino 203-576-7676
Contract Amount	$47,900.00
Scope	G.C. - Bathroom Renovation
Start Date	May 2013
Completion	August 2013
Bond	Not Required

Project Title	**Department of Mental Health and Addiction Servs.**
Owner/Client	State of Connecticut
Contact Person	Tom White 203-974-7197
Contract Amount	$295,000.00
Scope	G.C. - Mechanical Room Repairs
Start Date	June 15th 2012
Completion	February, 2013
Bond	Yes

Project Title	**Pilgrim Towers**
Owner/Client	City of Stamford
Contact Person	Sarah Pour 203-977-5731
Contract Amount	$246,000.00
Scope	G.C. - Bathroom Renovation
Start Date	July 2012
Completion	April, 2013
Bond	Not Required

Project Title	**Sedgewick Middle School Boiler Replacement**
Owner/Client	Town of West Hartford
Contact Person	Mike Longo 860-538-7732
Contract Amount	$821,000.00
Scope	G.C. - Boiler Replacement
Start Date	July 2012
Completion	February15th, 2012
Bond	Yes

Project Title	**JFK**
Owner/Client	City of Bridgeport
Contact Person	Joe Ventuarelle (203) 330-2425
Contract Amount	$39,450.00
Scope	G.C. - Replaced the Feed Tank
Start Date	November 2012
Completion	February, 2013
Bond	No

Project Title	**Dwight Elementary Boiler Replacement**
Owner/Client	Town of Fairfield
Contact Person	Phil Ryan 203-256-3060
Contract Amount	$225,000.00
Scope	G.C. - Boiler Replacement
Start Date	July 2012
Completion	October 2012
Bond	Yes

Project Title	**Cromwell Boiler Replacement**
Owner/Client	Town of Cromwell
Contact Person	Rick Mandeville 860-632-4837
Contract Amount	$239,900.00
Scope	G.C. - Boiler Replacement
Start Date	June 20
Completion	April 2012
Bond	Yes

Project Title	**Burroughs Library Boiler & Chiller Replacement**
Owner/Client	City of Bridgeport
Contact Person	Bob Hedman 203-576-7984/ 203-395-9206 (c)
Contract Amount	$469,900.00
Scope	G.C. - Heating-Boiler Chiller Replacement
Start Date	July 2011
Completion	April 2012
Bond	Yes

Project Title	**Hurlbutt School Boiler Demolition & Installation**
Owner/Client	Town of Weston
Contact Person	Dan Clark 203-515-2998
Contract Amount	$154,129.00
Scope	G.C. - Steam Boilers
Architect	Kohler Ronan, LLC
Start Date	June, 2011
Bond	Yes
Completion	November, 2011

Project Title	**Install Energy Efficient Boilers for ARRA** Weatherization Program
Owner/Client	ABCD (Action for Bridgeport Community Development)
Contact Person	Luisa Rodriguez
Contract Amount	Varies, Average $6,000.00
Scope	G.C. - Replace Energy Efficient Boilers and Furnaces
Bond	No

Project Title	**Boiler Replacement at Producto**
Owner/Client	City of Bridgeport
Contact Person	John Tristine 203-395-6267
Contract Amount	$149,900.00
Scope	G.C. - Heating-Boiler Replacement
Start Date	February 2011
Completion Date	June 2011
Bond	Yes

Project Title	**Havemeyer Boiler Replacement**
Owner/Client	Greenwich Board of Education
Contact Person	Munroe Anderson 917-484-2387
Contract Amount	$253,624
Scope	G.C. - Replacement of Boiler
Architect	No
Start Date	July, 2010
Completion	November, 2010
Bond	Yes

Project Title	**"Old Jail" Boiler Upgrade**
Owner/Client	City of Danbury
Contact Person	Rick Palanzo203-797-4584
Contract Amount	$45,700.00
Scope	G.C. - Boiler Replacement
Architect	N/A
Start Date	July, 2010
Completion	October, 2010
Bond	Yes

Project Title	**Harding High School/Read Middle School**
Owner /Client	City of Bridgeport
Construction Manager	The Liro Group
Contact Person	Jeff Fogel (203) 296-4374
Contract Amount	$2,387,500.00
Scope	G.C. - Boiler Replacement
Architect	URS Corporation
Start Date	June 2008
Completion	100%
Bond :	Yes

Project Title	**Install Energy Efficient Boilers As Need Basis**
Owner/Client	ABCD (Action for Bridgeport Community Development, Inc)
Contact Person	Luisa Rodriguez
Contract Amount	Varies, Average $6,000.00
Scope	G.C. - Replace Energy Efficient Boilers
Bond	No

Project Title	**Cheshire Center Boiler Replacement**
Owner/Client	Department of Developmental Services West Region
Contact Person	Robert Klingner
Contract Amount	$85,975.00
Scope	G.C. - Boiler Replacement
Start Date	August 2009
Completion	August 31,200
Bond	Yes

Equipment Release Approval Form

SUBMITTAL NOTES

Product Type:

Unit Tags:

The following table must be completed prior to releasing the equipment for fabrication. Please initial the column indicating the information contained in this submittal has been verified or indicate to refer to a marked-up page.

SUBMITTAL VERIFICATION	
	Purchaser Initials
Electrical voltage and electrical connections are compatible with jobsite requirements.	
Piping connections shown in this submittal are correct.	
(Water-cooled chillers only) Hinge locations are appropropriate.	
Unit tag designations are correct.	
Equipment dimensions (length, width, and height) and weights have been verified to comply with jobsite conditions and rigging requirements. Please indicate approval by your initials on all included drawings.	

Please fill out the following table and refer to the receiving/rigging instructions in this submittal to help ensure a smooth delivery and installation of the equipment.

DELIVERY INFORMATION	
	Please fill out information below
Contact name for coordinating delivery of equipment with transportation company	Jefferson Santo 203-895-6616 John Santo 203-414-8449
Contact phone number	203-895-6616 / 203-414-8449
Advance notice required from transportation company prior to delivering equipment (typically 48 hours)	48 hours
Ship to address:	A Quick Pick Crane + Rigging Service 205 Water street. Derby, CT 06418
Other special shipping instructions or requirements	

Date Totals Were Run: Sep 6 2022 12:57am
Today's Date: Sep 6 2022 12:00am

Job: NEW HAVEN WILBUR CROSS HS

Systems:
GAS GAS PIPE
HYD HYDRONIC PIPE

Floors:
1

Drawings:
M1

Areas:
Entire Job Area

Hanger Generation: Totals

EXTENSIONS

Job: NEW HAVEN WILBUR CROSS HS
Systems: GAS,HYD
Floors: 1
Drawings: M1
Areas: Entire Job Area

Diameter	Qty or Length	PRICE Unit	Disc	Net	Total	LABOR Unit	Mult	Net	Total	Weight
3/4	2	12.12	0.61	7.39	14.79	1.06	1.00	1.06	2.12	0.7
SubTotal	2				14.79				2.12	0.7
BLACK MALLEABLE THRD COUPLINGS, THRD										
Black Mall Thrd Coupling										
3/4	1	7.39	0.17	1.26	1.26	0.48	1.00	0.48	0.48	0.3
1	3	11.06	0.17	1.88	5.64	0.59	1.00	0.59	1.77	1.4
SubTotal	4				6.90				2.25	1.7
BLACK MALLEABLE GROOVED COUPLINGS, GRVD										
Standard Grooved Flexible Coupling										
8	15	345.00	0.67	231.15	3467.25	0.24	1.00	0.24	3.60	301.5
12	10	639.00	0.67	428.13	4281.30	0.40	1.00	0.40	4.00	342.0
SubTotal	25				7748.55				7.60	643.5
BLACK STEEL NIPPLES, THRD										
Black Steel Nipple - 4 Inch										
1	12	5.20	0.90	4.68	56.16	0.03	1.00	0.03	0.36	0.0
SubTotal	12				56.16				0.36	0.0
BLACK MALLEABLE THRD UNIONS, THRD										
Black Mall Brass Seat Union 150#										
1	3	31.90	0.44	14.04	42.11	0.56	1.00	0.56	1.68	2.7
SubTotal	3				42.11				1.68	2.7
BLACK MALLEABLE FLANGES										
Black Mall Companion Flange										
8	2	505.12	0.64	323.28	646.55	3.44	1.00	3.44	6.88	0.0
SubTotal	2				646.55				6.88	0.0
AWWA GROOVED FLANGES										
Vic 341 Black Flange Grvd										
12	1	888.00	0.64	568.32	568.32	0.36	1.00	0.36	0.36	0.0
SubTotal	1				568.32				0.36	0.0
CARBON STEEL WELDNECK FLANGES										
CS Weldneck Flange RF 150#										
6	1	75.03	0.33	24.76	24.76	2.99	1.00	2.99	2.99	0.0
SubTotal	1				24.76				2.99	0.0
MACHINE BOLTS										
Bolt _ Gasket Set										
6	1	0.00	1.00	0.00	0.00	0.00	0.00	0.00	0.00	0.0
8	2	0.00	1.00	0.00	0.00	0.00	0.00	0.00	0.00	0.0
12	1	0.00	1.00	0.00	0.00	0.00	0.00	0.00	0.00	0.0
SubTotal	4				0.00				0.00	0.0

SOUTHPORT CONTRACTING, Bridgeport, CT 09-06-2022

EXTENSIONS

Job: NEW HAVEN WILBUR CROSS HS
Systems: GAS,HYD
Floors: 1
Drawings: M1
Areas: Entire Job Area

Diameter	Qty or Length	PRICE Unit	Disc	Net	Total	LABOR Unit	Mult	Net	Total	Weight
					CONNECTIONS					
CONNECTIONS										
No Connection Material										
8	47	0.00	1.00	0.00	0.00	0.00	0.00	0.00	0.00	0.0
12	31	0.00	1.00	0.00	0.00	0.00	0.00	0.00	0.00	0.0
SubTotal	78				0.00				0.00	0.0
CONNECTIONS										
Pipe Dope										
3/4	15	0.02	1.00	0.02	0.30	0.00	0.00	0.00	0.00	0.3
1	63	0.03	1.00	0.03	1.89	0.00	0.00	0.00	0.00	1.6
SubTotal	78				2.19				0.00	1.9
CONNECTIONS										
Standard Carbon Steel Butt Weld										
5	1	0.59	1.00	0.59	0.59	0.00	0.00	0.00	0.00	0.6
6	12	0.71	1.00	0.71	8.52	0.00	0.00	0.00	0.00	8.5
SubTotal	13				9.11				0.00	9.1
Totals	169				11.30				0.00	11.0
					INSULATION					
INSULATION										
FG Preform ASJ 3 Lb 1 Inch Thick										
3/4	56	1.25	1.00	1.25	70.00	0.0300	1.00	0.0300	1.68	0.0
FG Preform ASJ 3 Lb 2 Inch Thick										
8	110	12.41	1.00	12.41	1365.10	0.0300	1.00	0.0300	3.30	0.0
12	68	0.00	1.00	0.00	0.00	0.0500	1.00	0.0500	3.40	0.0
Totals	234			12.41	1435.10				8.38	0.0
GrdTotal	850				29217				174	5589

27782

166

1257
1430
2687

APPLICATION AND CERTIFICATE FOR PAYMENT

CONSTRUCTION MANAGER-ADVISER EDITION

TO: Town of fairfield
725 Old Post Road
Fairfield, CT 06824

FROM: SOUTHPORT CONTRACTING, INC.
1730 Commerce Drive, Suite B
Bridgeport, CT. 06605

PROJECT: Boiler Replacement
Burr Elementary School
1960 Burr Street
Fairfield, CT 06824

VIA CONSTRUCTION MANAGER:
VIA ARCHITECT: VanZelm Heywood & Shadford, Inc
VIA ENGINEER VanZelm Engineers

CONTRACT For: Boiler Replacement

APPLICATION	0	Distribution to:
PERIOD TO:	3/31/2023	
PROJECT NO:	2023-122	
Contract No:		
Contract Date:		

Application is made for payment, as shown below, in connection with the Contract.
Continuation Sheet, AIA Document G703, is attached.

1. ORIGINAL CONTRACT SUM		$ 495,000.00
2. Net change by Change Orders		$ $0.00
3. CONTRACT SUM TO DATE (Line 1 ± 2)		$ 495,000.00
4. TOTAL COMPLETED & STORED TO DATE (Column G on G703)		$ $0.00
5. RETAINAGE:		
a. 5%	0.00	
b.		
Total Retainage (Lines 5a + 5b or		$ -
6. TOTAL EARNED LESS RETAINAGE		$ -
7. LESS PREVIOUS CERTIFICATES FOR PAYMENT (Line 6 from prior Certificate)		$ -
8. CURRENT PAYMENT DUE		$ -
9. BALANCE TO FINISH, INCLUDING RETAINAGE		$ 495,000.00

CHANGE ORDER SUMMARY	ADDITIONS	DEDUCTIONS
SEE SCHEDULE BELOW	$0.00	$0.00
NET CHANGES by Change Order	$0.00	

The undersigned Contractor certifies that to the best of the Contractor's knowledge, information and belief the Work covered by this Application for Payment has been completed in accordance with the Contract Documents, that all amounts have been paid by the Contractor for Work for which previous Certificates for Payment were issued and payments received from the Owner, and that current payment shown herein is now due.

CONTRACTOR: SOUTHPORT CONTRACTING INC.

By: _____ Date: _____

State of: Connecticut
Subscribed and sworn to before me this
Notary Public:
My Commission expires:

CERTIFICATE FOR PAYMENT

In accordance with the Contract Documents, based on on-site observations and the data comprising this application, the Construction Manager and Architect certify to the Owner that to the best of their knowledge, information and belief the Work has progressed as indicated, the quality of the Work is in accordance with the Contract Documents, and the Contractor is entitled to payment of the AMOUNT CERTIFIED.

AMOUNT CERTIFIED $ _____

(Attach explanation if amount certified differs from the amount applied for. Initial all figures on this Application and on the Continuation Sheet that changed to conform to the amount certified.)

CONSTRUCTION MANAGER:
By: _____ Date: _____
ARCHITECT:
By: _____ Date: _____

This Certificate is not negotiable. The AMOUNT CERTIFIED is payable only to the Contractor named herein. Issuance, payment and acceptance of payment are without prejudice to any rights of the Owner or Contractor under this Contract.

AIA DOCUMENT G703

APPLICATION NUMBER 0
APPLICATION DATE: 3/28/2023
PERIOD FROM: 3/1/2023
PERIOD TO: 3/31/2023

A	B	C	D	E	F	G		I
ITEM NO.	DESCRIPTION OF WORK	WORK COMPLETED SCHEDULED VALUE	Previous Applications	This Application Work in Place	This Application Stored Materials (not in D or E)	TOTAL COMPLETED AND STORED TO DATE (D + E + F)	% (G/C)	RETAINAGE 5.0%
	General Conditions:							
	Project Management	$ 20,000.00		$ -		$ -	0%	$ -
	Bond	$ 13,000.00		$ -		$ -	0%	$ -
	Insurance	$ 6,500.00		$ -		$ -	0%	$ -
	Scheduling	$ 5,000.00		$ -		$ -	0%	$ -
	Permit	$ 500.00		$ -		$ -	0%	$ -
	Submittals	$ 2,500.00		$ -		$ -	0%	$ -
	Mobilization	$ 4,000.00		$ -		$ -	0%	$ -
		$ -		$ -		$ -	#DIV/0!	$ -
	Demo Existing Boiler	$ 80,000.00		$ -		$ -	0%	$ -
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		$ -		$ -		$ -	#DIV/0!	$ -
	Concrete Pads	$ 5,000.00		$ -		$ -	0%	$ -
	Boilers: Material	$ 125,000.00		$ -		$ -	0%	$ -
	Labor	$ 30,000.00						
	Pumps: Material	$ 30,000.00		$ -		$ -	0%	$ -
	Labor	$ 15,000.00		$ -		$ -	0%	$ -
	Pipe Valves & Fittings	$ -		$ -		$ -	#DIV/0!	$ -
	Material	$ 25,000.00		$ -		$ -	0%	$ -
	Labor	$ 21,500.00		$ -		$ -	0%	$ -
		$ -		$ -		$ -	#DIV/0!	$ -
	Breaching	$ 40,000.00		$ -		$ -	0%	$ -
	Controls	$ 50,000.00		$ -		$ -	0%	$ -
	Electrical	$ 22,000.00		$ -		$ -	0%	$ -
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	Total	**$495,000.00**	**-**	**$0.00**	**$0.00**	**$0.00**		**$0.00**	
				$ -		$ -		-	

CHANGE ORDER SUMMARY	ADDITIONS	DEDUCTIONS
Total changes approved in previous months by Owner	$0.00	$0.00
	$0.00	$0.00
	$0.00	$0.00
TOTALS	$0.00	$0.00
NET CHANGES by Change Order	$0.00	

Town of Fairfield

Sullivan Independence Hall
725 Old Post Road

Fairfield, Connecticut 06824
Purchasing Department

(203) 256·3060
FAX (203) 256·3080

ADDENDUM #1
BID #2023-122
Boiler Replacement – Burr Elementary School

13th March 2023 – It is intended that this Addendum incorporating the following corrections, revisions, additions, deletions and clarifications become part of the Contract Documents, including pricing as submitted.

New Information:

We have scheduled a Site Walk at Burr Elementary School at 4:00pm tomorrow, March 14th. Regarding the weather, if Fairfield Schools are canceled, the Site Walk is canceled also. If school is not canceled, the Site Walk will take place as scheduled. If you have any questions or you would like to make an appointment for a tour, please call Ms. Kim Barber at 203-255-8115.

End of Addendum #1

Company: _____ Name: _____ Signature: _____ Date: _____

Town of Fairfield

Sullivan Independence Hall
725 Old Post Road

Fairfield, Connecticut 06824
Purchasing Department

(203) 256·3060
FAX (203) 256·3080

ADDENDUM #2
BID #2023-122
Boiler Replacement – Burr Elementary School

16th March 2023 – It is intended that this Addendum incorporating the following corrections, revisions, additions, deletions and clarifications become part of the Contract Documents, including pricing as submitted.

Questions:

1. **Is a project schedule required with this bid?**

   Response: Yes, a project schedule is required with this bid.

2. **Are there any Liquidated Damages?**

   Response: There are no liquidated damages in this bid.

3. **Do you require a Maintenance schedule? If so, for how long?**

   Response: No, we do not require a maintenance schedule.

4. **How many copies of the Bid Proposal do you require?**

   Response: We only require one original submission of the bid.

5. **There is no specification for combustion air intake pipe/duct materials. The basis of design boiler manufacturer (Patterson-Kelley) recommends any of the following: single wall galvanized steel with duct sealed joints, PVC or CPVC pipe with solvent cement joints. Please advise what materials are to be used for round combustion air intakes, and will they require any pipe/duct insulation?**

   Response: Any of these materials can be used for the combustion air intakes. Insulation is not required. Note that PVC is only acceptable for the intake, it is not permitted for the exhaust. The exhaust shall be stainless steel as listed in specification section 235100 – Breechings, Chimneys and Stacks

6. **There is no completion date listed for the project. This will depend on equipment lead time. Is the intent to have heating operational by Oct. 15th?**

   Response: The intent is to have the heating operational by September 30th, 2023.

7. **Please identify the manufacturer, local rep. and warranty status of the roofing to be flashed for new penetrations.**

   Response: The roof is manufactured by GAF and was installed by Silktown Roofing -Steve Pumphrey 203.735.0552

8. **Please identify the manufacturer and local rep. for the existing ATC-BMS system for controls integration.**

   Response: The manufacturer of the existing ATC-BMS system is Johnson Controls.

9. **There is no reference to concrete house-keeping pads for new boilers. The existing boilers have pads, but the pad footprint will need to be modified for (3) new boilers by extending the existing pads. Please clarify.**

   Response: Remove, modify or construct new concrete pads as required and coordinate with location and sizes of new boiler. See specification 235216 – Condensing Boilers sections 1.7 and 3.2.A for construction information on new house-keeping pads

End of Addendum #2

Company: _____ Name: _____ Signature: _____ Date: _____

Town of Fairfield

Sullivan Independence Hall
725 Old Post Road

Fairfield, Connecticut 06824
Purchasing Department

(203) 256·3060
FAX (203) 256·3080

ADDENDUM #3
BID #2023-122
Boiler Replacement – Burr Elementary School

21st March 2023 – It is intended that this Addendum incorporating the following corrections, revisions, additions, deletions and clarifications become part of the Contract Documents, including pricing as submitted.

New Information:

1. The Town has elected to extend the deadline date for this bid solicitation from Wednesday, March 22, 2023 at 11:00 am to ***Tuesday, March 28, 2023 at 11:00 am****.*

Question:

1. **Can Automated Logic be listed as an approved vendor for ATC-BMS controls for this project?**

   Response*: Yes.*

End of Addendum #3

Company: _____ Name: _____ Signature: _____ Date: _____

BID #	2023-122	**Town of Fairfield - Bid Results**			
DESC	Boiler Replacement-Burr Elementary School				
DATE	3/28/2023				
TIME	11:00 AM				
Item	**Description**	**Southport Contracting Inc.** Bridgeport, CT	**West State Mechanical, Inc.** Torrington, CT	**McKenney Mechanical Contractors** Newtown, CT	**All State Construction** Farmington, CT
Total Base Bid:	**Lump Sum to Complete all work listed:**	**$495,000.00**	**$596,700.00**	**$715,133.00**	**$764,000.00**
Add/Alternate #1	Alternate shall be provided to replace the existing domestic hot water heater, as specified within the documents. The scope includes the replacement of the existing water heater, new intake and exhause venting and all associated piping and controls to the BMS.	$95,000.00	$99,500.00	$100,625.00	$81,000.00
	Total with Add/Alternate	$590,000.00	$696,200.00	$815,758.00	$845,000.00
	BID BOND	YES	YES	YES	YES

SERVICE AGREEMENT
Bid #2023-122
Boiler Replacement – Burr Elementary School

This AGREEMENT, made this day of __ _____ 2023, by and between the **TOWN OF FAIRFIELD**, in the County of Fairfield, a municipal Corporation of the State of Connecticut (hereinafter "**TOWN**"), and **Southport Contracting, Inc.,** a Connecticut Corporation with its principal place of business at 1730 Commerce Drive, Bridgeport, Connecticut, (hereinafter "**CONTRACTOR**").

WITNESSETH, that for and in consideration of the premises and the agreement herein contained, and the payments herein provided to be made, the parties hereto agree as follows:

FIRST: Statutes.

The Contractor agrees to accept and abide by the provisions of Title 31, Section 53 of the 1965 Supplement to the General Statutes, State of Connecticut, which require "The wages paid on an hourly basis to any person performing the work of any mechanic, laborer or worker on the work herein contracted to be done and the amount of payment or contribution paid or payable on behalf of each such person to any employee welfare fund, as defined in subsection (h) of this section, shall be at a rate equal to the rate customary or prevailing for the same work in the same trade or occupation in the town in which such public works project is being constructed. Any Contractor who is not obligated by agreement to make payment or contribution on behalf of such persons to any such employee welfare fund shall pay to each mechanic, laborer or worker as part of such person's wages the amount of payment or contribution for such person's classification on each pay day."

The Contractor agrees and warrants that in the performance of the Contract such Contractor will not discriminate or permit discrimination against any person or group of persons on the grounds of race, color, religious creed, age, marital status, national origin, ancestry, sex, gender identity or expression, intellectual disability, mental disability or physical disability, including, but not limited to, blindness, unless it is shown by such Contractor that such disability prevents performance of the work involved, in any manner prohibited by the laws of the United States or of the State of Connecticut; and the Contractor further agrees to take affirmative action to insure that applicants with job-related qualifications are employed and that employees are treated when employed without regard to their race, color, religious creed, age, marital status, national origin, ancestry, sex, gender identity or expression, intellectual disability, mental disability or physical disability, including, but not limited to, blindness, unless it is shown by the Contractor that such disability prevents performance of the work involved; (b) the Contractor agrees, in all solicitations or advertisements for employees placed by or on behalf of the Contractor, to state that it is an "affirmative action equal opportunity employer" in accordance with regulations adopted by the Commission; (c) the Contractor agrees to provide each labor union or representative of workers with which the Contractor has a collective bargaining agreement or other contract or understanding and each vendor with which the Contractor has a contract or understanding, a notice to be provided by the Commission, advising the labor union or workers' representative of the Contractor's

commitments under this section and to post copies of the notice in conspicuous places available to employees and applicants for employment; (d) the Contractor agrees to comply with each provision of this Section and Connecticut General Statutes §§ 46a-68e and 46a-68f and with each regulation or relevant order issued by said Commission pursuant to Connecticut General Statutes §§ 46a-56, 46a-68e and 46a-68f; and (e) the Contractor agrees to provide the Commission on Human Rights and Opportunities with such information requested by the Commission, and permit access to pertinent books, records and accounts, concerning the employment practices and procedures of the Contractor as relate to the provisions of this Section and Connecticut General Statutes § 46a-56. If the contract is a public works contract, the Contractor agrees and warrants that he will make good faith efforts to employ minority business enterprises as subcontractors and suppliers of materials on such public works projects.

The Contractor agrees and warrants that in the performance of the Contract such Contractor will not discriminate or permit discrimination against any person or group of persons on the grounds of sexual orientation, in any manner prohibited by the laws of the United States or the State of Connecticut, and that employees are treated when employed without regard to their sexual orientation; (b) the Contractor agrees to provide each labor union or representative of workers with which such Contractor has a collective bargaining Agreement or other contract or understanding and each vendor with which such Contractor has a contract or understanding, a notice to be provided by the Commission advising the labor union or workers' representative of the Contractor's commitments under this section, and to post copies of the notice in conspicuous places available to employees and applicants for employment; (c) the Contractor agrees to comply with each provision of this section and with each regulation or relevant order issued by said Commission pursuant to Connecticut General Statutes § 46a-56; and (d) the Contractor agrees to provide the Commission with such information requested by the Commission, and permit access to pertinent books, records and accounts, concerning the employment practices and procedures of the Contractor which relate to the provisions of this Section and Connecticut General Statutes § 46a-56.

SECOND: Engagement and Authorization.

Subject to the terms and conditions set forth in this Agreement, Town does hereby engage and authorize Contractor — and Contractor does hereby accept such engagement and authorization, as an independent contractor for Town — to construct the Construction Project, as here in defined, and to manage such construction for Town. The Contractor further covenants and agrees at its own proper cost, charge, and expense to furnish all machinery, appliances, tools, labor and materials necessary or proper to do all the work necessary to construct all the works equipment and fixtures, appurtenant thereto, as set forth in the Contractor's proposal, annexed hereto, as Exhibit A and known as PURCHASE ORDERS, and as described in the Invitation to Bid #2023-122 Plans and Specifications, attached hereto as Exhibit B, made and prepared by the Town of Fairfield Purchasing Department, in the County of Fairfield; and in the Contract Documents, as defined below in this Contract, which are incorporated by reference and wholly made a part of this Contract to the same extent as though the same were herein expressly written, in a first-class workmanlike manner, and in strict accordance with the plans, drawings and specifications therefore, invitation for bid, and the Contractor's proposal all of which plans, drawings,

specifications, invitation to bid, proposal, award resolution and other Contract Documents. Such work will be performed under the supervision of the Responsible Town Official (herein "RTO"), who for the purposes of this Contract, shall be the Director of Public Works of the Town of Fairfield and/or his appointed agent.

THIRD. In consideration of the Contractor faithfully complying with all the terms and stipulations of this Contract as set forth herein, or in the plans and specifications therefore, advertisement, proposal and other Contract Documents, the Town of Fairfield covenants and agrees to pay the said Contractor at the time and times, and in the manner more particularly set forth in the General Conditions as accepted in the bid submission attached hereto as Exhibit C.

FOURTH. The Contractor agrees to indemnify, defend and hold harmless the Town of Fairfield, its employees, agents and servants from any and all claims or demands for damages or injuries to either person or property which arise or may arise out of the performance of this contract, and shall indemnify and insure the Town of Fairfield in the manner more particularly set forth in the Insurance Requirements attached herein as Exhibit D, which are made part of this Contract.

FIFTH. The term "Contract Documents" shall mean and include the following:

Advertisement for Bid

1. Instructions to Bidders
2. Bid Proposal
3. All Contract Forms:
    a. Bid Bond
    b. Certificate of Surety
    c. Statement of Compliance with Bidding Requirements
    d. Contract
    e. Acknowledgement of Officer of Town Executing Contract
    f. Acknowledgement of Corporate Contractor
    g. Acknowledgement of Contractor, if an Individual
    h. Performance and Labor and Material Bond
    i. Certificate of Insurance
    j. Non-Collusion Affidavit of Prime Bidder
    k. Non-Collusion Affidavit of Subcontractor
    l. Notice of Award
    m. Notice to Proceed
    n. Change Orders
    o. Town of Fairfield, Standard Insurance Requirements
4. General Conditions
5. Supplemental General Conditions
6. Special Conditions
7. Contract Specifications

IN WITNESS WHEREOF, the Town Council of the Town of Fairfield, in the County of Fairfield

has authorized the Corporate Seal of the Town of Fairfield to be hereto affixed and this Contract to be signed by the Purchasing Authority and that same attested to by the Town Clerk and the Contractor has caused this Contract to be signed by its duly authorized officer, and its corporate seal to be hereunto affixed on the day and year first above written.

TOWN OF FAIRFIELD

By_____

Its: _____
Date: _____, 2023

By_____

Its: _____
Date: _____, 2023

Southport Contracting, Inc.

By_____

Its:
Date: _____, 2023

EXHIBIT A
PURCHASE ORDER FY 2023

EXHIBIT B
INVITATION TO BID #2023-122

EXHIBIT C
CONTRACTOR'S BID SUBMISSION

EXHIBIT D
CERTIFICATE OF INSURANCE

VAN ZELM ENGINEERS

VAN ZELM HEYWOOD & SHADFORD, INC.

CT: 860.284.5064 MA: 617.218.9976

10 TALCOTT NOTCH, FARMINGTON, CT 06032 - 1800

Connecticut | Massachusetts | North Carolina

PROJECT NO.: 2022036.00

DRAWING LIST

BURR ELEMENTARY SCHOOL
BOILER REPLACEMENT

1960 BURR STREET
FAIRFIELD, CT

BID DOCUMENTS
FEBRUARY 17, 2023

PLUMBING PIPING LEGEND

SYMBOL	DESCRIPTION
DCW	COLD WATER
DHW	HOT WATER
DHWR	HOT WATER RECIRCULATION
140F	HOT WATER 140°F
GV	GAS VENT
C	CONDENSATE WASTE
NG	NATURAL GAS
	EXISITNG PIPING OR EQUIPMENT TO BE REMOVED
	EXISTING PIPING OR EQUIPMENT TO REMAIN
FOS	FUEL OIL SUPPLY
FOR	FUEL OIL RETURN
	PIPE DOWN
	PIPE DROP
	PIPE RISE

PLUMBING DEMOLITION NOTES

THE PLUMBING CONTRACTOR IS RESPONSIBLE FOR THE FOLLOWING:

A. REMOVE ALL PLUMBING FIXTURES, CARRIERS, TRIM, ACCESSORIES, EQUIPMENT, FLOOR DRAINS AND PIPING AS SHOWN OR INDICATED ON THE DRAWINGS.

B. REMOVE ALL PIPING COMPLETELY OR AS OTHERWISE SHOWN OR INDICATED ON DOCUMENTS. ALL PIPE HANGERS, SLEEVES, RISER CLAMPS, ETC. SHALL BE REMOVED COMPLETELY WITH PIPING. NO EXISTING HANGER SYSTEMS SHALL BE REUSED FOR NEW PIPING.

C. REMOVE ALL PIPING TO BELOW FLOOR, ABOVE CEILING OR IN WALLS AND BACK TO MAINS OR SHUT OFF VALVES AT MAINS, CAP AND SECURE PER CODE WITHOUT LEAVING DEAD ENDED PIPING.

D. NO EQUIPMENT OR DEVICES THAT HAVE BEEN DISCONNECTED AND OR ABANDONED SHALL REMAIN.

E. ALL EXISTING PIPING AND EQUIPMENT SHOWN HAS BEEN TAKEN FROM THE BEST AVAILABLE SOURCES. THE DOCUMENTS ARE DIAGRAMMATIC AND ALL FIXTURES, PIPING, AND DEVICES MAY NOT BE SHOWN. THE INTENT OF THESE DRAWINGS IS THAT SYSTEM EQUIPMENT AND PIPING IS TO BE REMOVED IN ALL RENOVATED AREAS AS NOTED AND MAY NOT ALL BE SHOWN.

F. VISIT THE SITE AND BECOME FAMILIAR WITH THE EXISTING SYSTEMS AND CONDITIONS IN AREAS OF RENOVATION.

G. ANY SYSTEMS OR EQUIPMENT TO REMAIN ACTIVE DURING RENOVATION SHALL BE KEPT IN OPERATION BY PROVIDING TEMPORARY PIPING CONNECTIONS AS REQUIRED UNTIL NEW SYSTEMS ARE INSTALLED AND OPERATIONAL.

H. ALL PHASING OF THE PLUMBING DEMOLITION WORK SHALL BE COORDINATED WITH THE OWNER AND CONSTRUCTION MANAGER (OR GENERAL CONTRACTOR) IN ORDER TO SATISFY THE CONSTRUCTION SCHEDULE AND OWNER'S OCCUPANCY REQUIREMENTS.

I. ANY FIXTURE OR EQUIPMENT TO BE REMOVED AND REUSED SHALL BE TURNED OVER TO THE OWNER. AT OWNERS REQUEST, FIXTURES AND EQUIPMENT SHALL BE STORED TO PREVENT DAMAGE. DAMAGED EQUIPMENT SHALL BE REPLACED BY THIS CONTRACTOR.

J. REVIEW THE ARCHITECTURAL DEMOLITION DRAWINGS AS PART OF THIS CONTRACT FOR ADDITIONAL INFORMATION AND REQUIREMENTS.

K. ALL SERVICE INTERRUPTIONS SHALL BE COORDINATED AND APPROVED WITH THE OWNER PRIOR TO COMMENCEMENT OF ANY WORK.

L. COORDINATE DEMOLITION WORK WITH THAT OF OTHER TRADES IN ORDER TO AVOID CONFLICTS.

MECHANICAL PIPING SYSTEMS LEGEND

SYMBOL	DESCRIPTION
	AUTOMATIC CONTROL VALVE
	BACKFLOW PREVENTER ASSEMBLY (RPZ) WITH SHUTOFF VALVES
	BALANCE VALVE
	BALL VALVE
	BUTTERFLY VALVE
	CHECK VALVE
	ISOLATION VALVE
	GAS VALVE
	OUTSIDE SCREW & YOKE GATE VALVE (OS&Y)
	PRESSURE REDUCING VALVE
	PRESSURE RELIEF VALVE
	3-WAY CONTROL VALVE
	ELBOW, TURNED DOWN
	ELBOW, TURNED UP
	BRANCH OFF TOP OF MAIN
	BRANCH OFF BOTTOM OF MAIN
	PIPING TO BE REMOVED
CA	COMBUSTION AIR
CE	COMBUSTION EXHAUST
DR	DRAIN
G	NATURAL GAS
GV	NATURAL GAS VENT
HWR	HOT WATER RETURN
HWS	HOT WATER SUPPLY
CW	CITY WATER
	AIR VENT (MANUAL OR AUTOMATIC)
	PRESSURE GAUGE
	PUMP
	STRAINER
	THERMOMETER
	UNION
	DEMOLITION WORK: POINT OF REMOVAL NEW WORK: POINT OF ATTACHMENT TO EXISTING

MECHANICAL GENERAL NOTES

A. ALL MATERIALS, METHODS AND EQUIPMENT INSTALLED UNDER THIS CONTRACT SHALL BE IN COMPLIANCE WITH ALL APPLICABLE CODES AND REGULATIONS.

B. COORDINATE EXACT LOCATIONS, MOUNTING HEIGHTS, AND FINISHES WITH THE ARCHITECTURAL DRAWINGS.

C. ALL EQUIPMENT SHALL BE INSTALLED IN ACCESSIBLE LOCATIONS. IN THE INSTANCE WHERE EQUIPMENT MUST BE INSTALLED BEHIND A WALL OR ABOVE AN INACCESSIBLE CEILING, AN APPROPRIATELY SIZED ACCESS DOOR SHALL BE PROVIDED. REFER TO ARCHITECTURAL PLANS FOR ACCESS DOOR LOCATIONS IN WALLS, CEILINGS AND FLOORS.

D. IN THE EVENT OF A CONFLICT BETWEEN DOCUMENTS, ARCHITECT SHALL BE NOTIFIED AND THE LARGER QUANTITY AND/OR MORE EXPENSIVE ITEMS SHALL BE CARRIED AS PART OF THE BID.

E. THERMOSTAT AND SWITCH LOCATIONS SHALL BE GENERALLY AS SHOWN. ACTUAL LOCATIONS SHALL BE COORDINATED WITH ARCHITECTURAL ELEVATIONS.

F. ALL FLOOR MOUNTED EQUIPMENT SHALL BE INSTALLED ON A 4" CONCRETE HOUSEKEEPING PAD, UNLESS OTHERWISE NOTED.

G. PROVIDE SEISMIC RESTRAINTS ON ALL EQUIPMENT AND PIPING IN COMPLIANCE WITH PROJECT SPECIFICATIONS AND APPLICABLE CODES.

H. THESE PLANS ARE DIAGRAMMATIC IN NATURE. EVERY ELBOW, FITTING, ETC. ARE NOT SHOWN. PROVIDE SUCH COMPONENTS AS REQUIRED FOR COMPLETE INSTALLATION, PROPERLY COORDINATED WITH ALL TRADES.

I. THE HVAC SYSTEMS FOR THIS BUILDING HAVE BEEN DESIGNED AND MODELED FOR LOW TRANSPORT ENERGY (LOW VELOCITY AND LOW PRESSURE DROP). WHEN OFFSETTING PIPING IS REQUIRED, THE CONTRACTOR SHALL MAKE EVERY EFFORT TO MINIMIZE THE NUMBER OF FITTINGS AND TRANSITIONS AND TO PROVIDE FITTING TYPES WITH THE LEAST POSSIBLE PRESSURE DROP.

J. ANY PIPING NOT SERVING STAIRWELLS, SHAFTS, ELEVATOR MACHINE ROOMS OR EMERGENCY ELECTRICAL ROOMS SHALL NOT PENETRATE THOSE WALLS.

K. PIPING SHALL NOT BE INSTALLED OVER ELECTRICAL PANELS.

L. COORDINATE PIPING WITH OTHER TRADES. CONTRACTOR SHALL FIELD VERIFY AVAILABLE CEILING CLEARANCE PRIOR TO BID.

M. SUPPORT ALL PIPING FROM STRUCTURE ABOVE. WHEN PIPE RUNS ARE PERPENDICULAR TO BEAMS, INSTALL PIPING TIGHT TO BOTTOM OF BEAM TO MAXIMIZE SPACE. WHEN PIPE RUNS ARE PARALLEL TO BEAMS, INSTALL PIPING TIGHT TO FLOOR SLAB. PROVIDE ALL NECESSARY TRANSITIONS AND FITTINGS.

N. PROVIDE EXPANSION COMPENSATORS, LOOPS, ANCHORS AND GUIDES FOR ALL PIPING SYSTEMS OPERATING ABOVE AMBIENT CONDITIONS AND INSTALL AS DICTATED BY CODE AND INDUSTRY STANDARDS. EQUIPMENT AND INSTALLATION DETAILS SHALL BE SUBMITTED FOR APPROVAL. THE CONTRACTOR SHALL HIRE AN ENGINEER TO REVIEW DETAILS AND PREPARE COMPLETE DESIGN FOR EXPANSION COMPENSATION SYSTEMS.

O. AIR VENTS SHALL BE PROVIDED AT ALL HIGH POINTS AND DRAINS SHALL BE PROVIDED AT ALL LOW POINTS FOR HYDRONIC SYSTEMS.

LEGEND NOTE

THESE ARE THE GENERAL LEGENDS OF SYMBOLS AND ABBREVIATIONS, AND SHALL BE USED AS A REFERENCE TO DEFINE ITEMS INDICATED ON DRAWINGS. NOT ALL SYMBOLS OR ABBREVIATIONS DEFINED ARE NECESSARILY USED ON THIS PROJECT.

MECHANICAL DEMOLITION NOTES

A. EXISTING MECHANICAL ITEMS THAT ARE BEING DISCONNECTED AND REMOVED SHALL BE DISPOSED OF PROPERLY.

B. NOTIFY CONSTRUCTION MANAGER OF OPENINGS CAUSED BY REMOVAL OF EXISTING EQUIPMENT. ENSURE THE PATCHING IS COMPLETE.

C. REMOVE AND PROPERLY DISPOSE OF EQUIPMENT INCLUDING ELECTRICAL CONNECTIONS BACK TO PANEL.

MECHANICAL ABBREVIATIONS LEGEND

AC	AIR CURTAIN
ACCU	AIR COOLED CONDENSING UNIT
ACD	AUTOMATIC CONTROL DAMPER
ACV	AIRFLOW CONTROL VALVE
AFF	ABOVE FINISHED FLOOR
AHU	AIR HANDLING UNIT
AS	AIR SEPARATOR
B	BOILER
BMS	BUILDING MANAGEMENT SYSTEM
CA	COMBUSTION AIR
CE	COMBUSTION EXHAUST
CFM	CUBIC FEET PER MINUTE
CH	CHILLER
CP	CONDENSATE PUMP
CUH	CABINET UNIT HEATER
DN	DOWN
DOAS	DEDICATED OUTDOOR AIR SYSTEM
DX	DIRECT EXPANSION
EA	EXHAUST AIR
EF	EXHAUST FAN
EMH	ELECTRICAL MANHOLE
ERV	ENERGY RECOVERY VENTILATOR
ET	EXPANSION TANK
FCU	FAN COIL UNIT
FTR	FINNED TUBE RADIATION
GEN	GENERATOR
GEX	GENERAL EXHAUST
GPM	GALLONS PER MINUTE
HS	HYDRAULIC SEPARATOR
HUM	HUMIDIFIER
HWC	HOT WATER COIL
HX	HEAT EXCHANGER
LEA	LABORATORY EXHAUST AIR
LSA	LABORATORY SUPPLY AIR
M	MANIFOLD FOR RADIANT FLOOR
NLEA	NON-LAB EXHAUST AIR
NLSA	NON-LAB SUPPLY AIR
OA	OUTSIDE AIR
P	PUMP
RA	RETURN AIR
RCP	RADIANT CEILING PANEL
RHC	REHEAT COIL
SA	SUPPLY AIR
SATT	SOUND ATTENUATOR
SF	SUPPLY FAN
SMH	STEAM MANHOLE
TYP	TYPICAL
UH	UNIT HEATER
VAV	VARIABLE AIR VOLUME
VFD	VARIABLE FREQUENCY DRIVE
VRF	VARIABLE REFRIGERANT FLOW

VANZELM ENGINEERS
VAN ZELM HEYWOOD & SHADFORD, INC.
CT: 860.284.5064 MA: 617.218.9976
10 TALCOTT NOTCH, FARMINGTON, CT 06032 - 1800
Connecticut | Massachusetts | North Carolina

CONSULTANTS:

PROJECT NAME:

BURR ELEMENTARY SCHOOL
BOILER REPLACEMENT
1960 BURR STREET
FAIRFIELD, CT

KEYPLAN

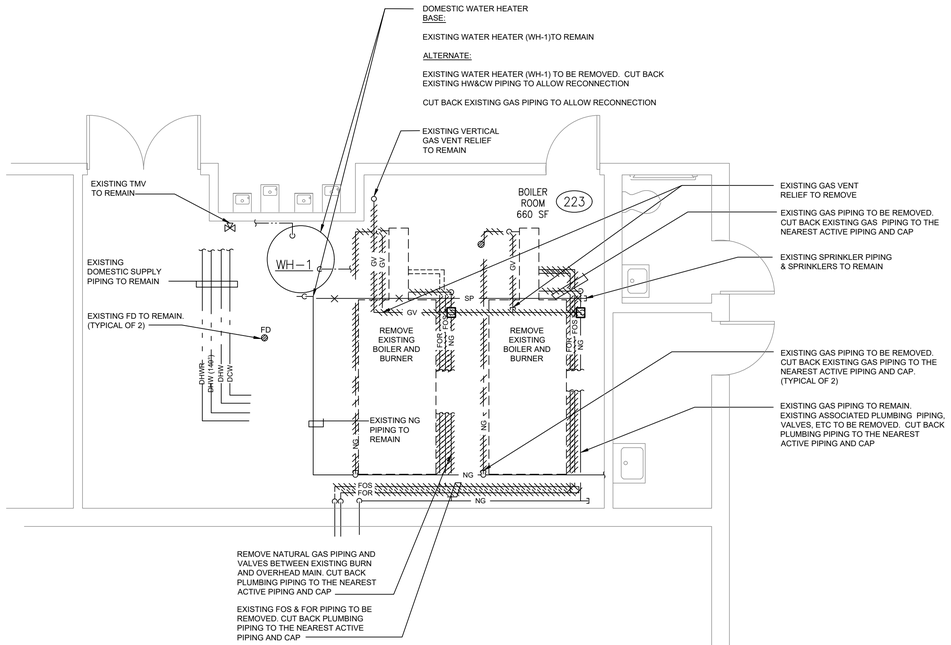
REVISIONS / ISSUANCES

REV. NO.	DATE	DESCRIPTION
	2/17/2023	BID DOCUMENTS

DRAWING TITLE:
MECHANICAL LEGENDS AND GENERAL NOTES

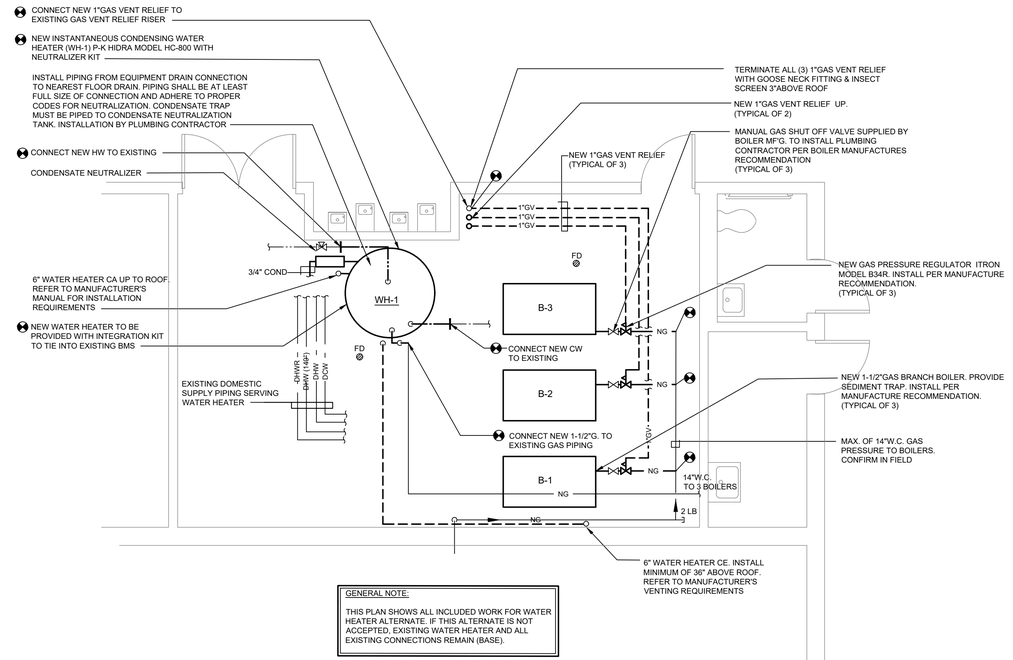
DATE: 2/17/2023
DRAWN BY: XXXXX
CHECKED BY:XXXXX
SCALE: NTS
PROJ #: 2022036.00

DRAWING NUMBER:
M-0



PLUMBING DEMOLITION PLAN

SCALE: 1/4"=1'-0"

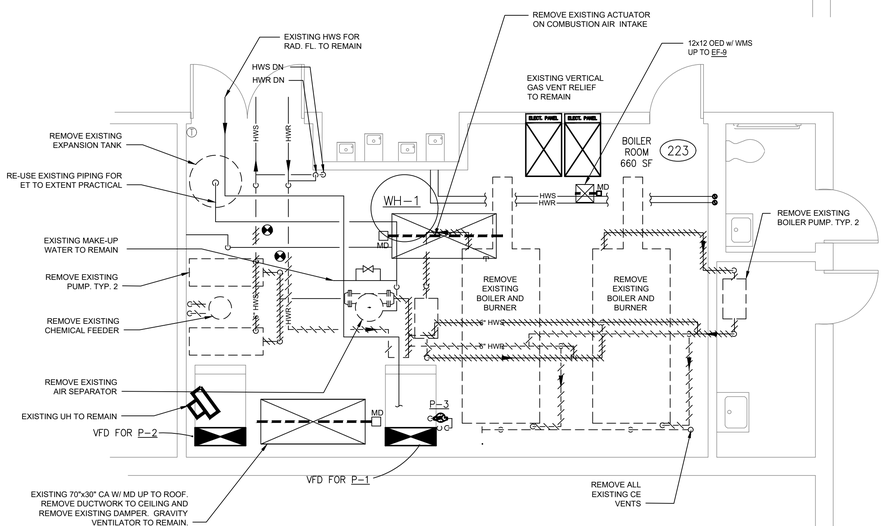


GENERAL NOTE:

THIS PLAN SHOWS ALL INCLUDED WORK FOR WATER HEATER ALTERNATE. IF THIS ALTERNATE IS NOT ACCEPTED, EXISTING WATER HEATER AND ALL EXISTING CONNECTIONS REMAIN (BASE).

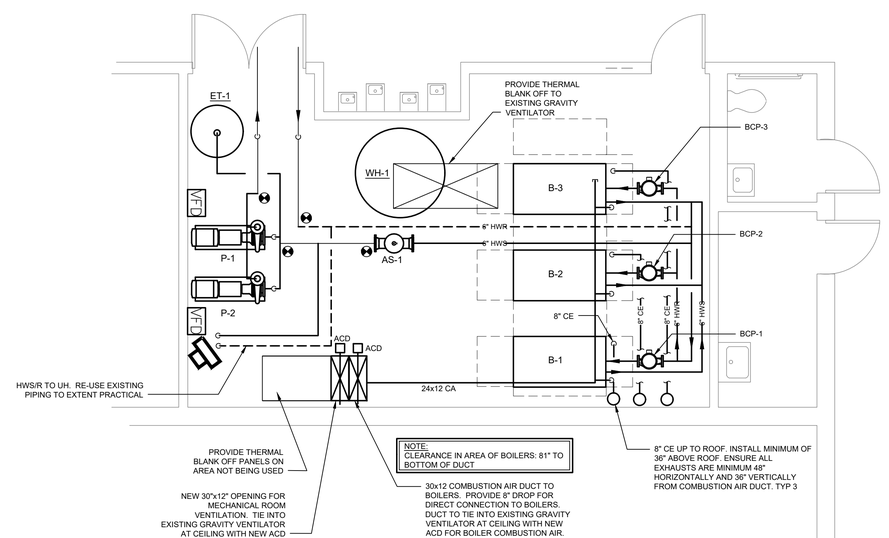
PLUMBING NEW WORK PLAN

SCALE: 1/4"=1'-0"



MECHANICAL DEMOLITION PLAN

SCALE: 1/4"=1'-0"



NOTE:
CLEARANCE IN AREA OF BOILERS: 81" TO BOTTOM OF DUCT

MECHANICAL NEW WORK PLAN

SCALE: 1/4"=1'-0"

VAN ZELM ENGINEERS
VAN ZELM HEYWOOD & SHADFORD, INC.
CT: 860.284.5064 MA: 617.218.9976
10 TALCOTT NOTCH, FARMINGTON, CT 06032 - 1800
Connecticut | Massachusetts | North Carolina

CONSULTANTS:

PROJECT NAME:

BURR ELEMENTARY SCHOOL
BOILER REPLACEMENT
1960 BURR STREET
FAIRFIELD, CT

KEYPLAN

REVISIONS / ISSUANCES

REV. NO.	DATE	DESCRIPTION
	2/17/2023	BID DOCUMENTS

DRAWING TITLE:

MECHANICAL DEMOLITION AND NEW WORK PLANS

DATE: 2/17/2023
DRAWN BY: XXXXX
CHECKED BY:XXXXX
SCALE: AS NOTED
PROJ #: 2022036.00

DRAWING NUMBER:

M-1

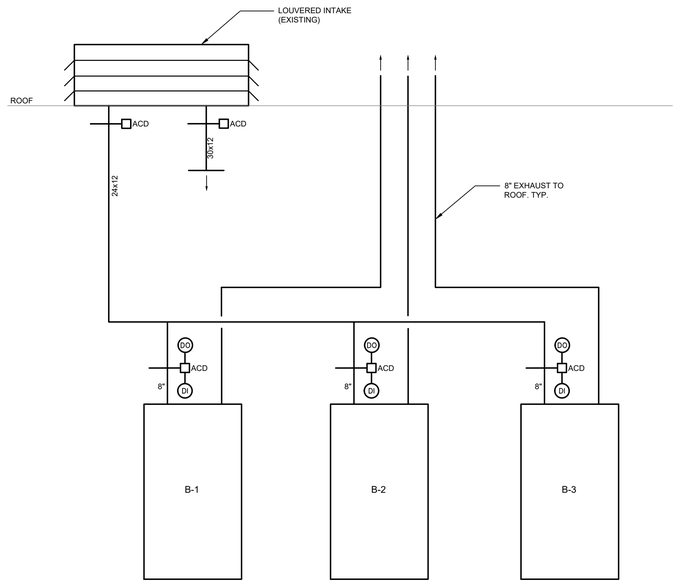
File Name:M-1 - Mechanical Demo and New Work Plans.dwg 2/17/2023 8:51:50 AM User ID: Andel, Matthew W.
File Path: U:\2022\2022036.00\BIM\CAD\Mechanical

SEQUENCE OF OPERATION: BOILER ROOM VENTILATION

A. Overview: There is one ventilation system for the penthouse mechanical space. The room has a connection to an outdoor air source and an existing exhaust fan to move ventilation air for cooling.

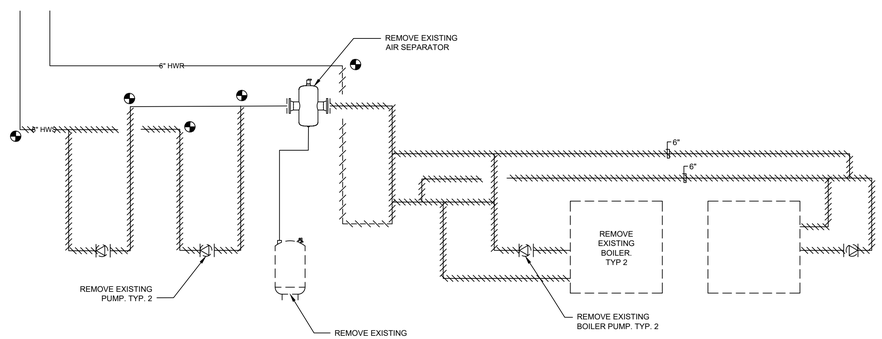
B. Start/Stop:
1. Outdoor air damper opens when outdoor temperature rises to 65°F and closes if room drops below 60°F.
2. Room exhaust fan starts to maintain a room setpoint of 80 °F or the outdoor temperature, whichever is higher.

C. Heating Control Loop:
1. If the temperature in the room drops below 55, OA dampers shall be closed, and shall stay closed until room temperature reaches 70°F.
2. For room temperatures below 50°F, unit heater starts by commanding control valve open; actuator end switch will enable fan motor. The opposite happens when the room reaches setpoint (60-65°F).
3. If temperature drops below 45°F, report an alarm.



MECHANICAL ROOM COMBUSTION AIR/VENTILATION CONTROL DIAGRAM

SCALE: NTS



DEMOLITION PIPING SCHEMATIC

SCALE: NTS

SEQUENCE OF OPERATION: BOILERS AND HOT WATER PUMPS

A. Overview: System consists of three hot water condensing boilers with primary pumps and two base-mounted secondary system hot water pumps. The hot water load is satisfied with the operation of two boilers, while the third one provides backup capacity. Distribution loop is variable flow type with pump speed varying to maintain the DP setpoint. Boilers and pumps alternate to equalize runtime. Building Management System (BMS) shall monitor boiler firing rate, hot water (HW) supply and return temperatures, HW flow (GPM), HW DP, HW pump suction pressure (leak detection), pump KW and alarms as listed below. Trends and energy reports are required.

B. Control Loops: The system has the following 4 control loops:
1. HW pump start/stop
2. HW pump speed
3. Boiler enable / disable
4. Boiler leaving water setpoint reset

C. HW pumps stop/start

1. HW system is ON for all hours during heating season enabled through a building master controller. Heating system operation shall be enabled/disabled via BMS input. This input shall be accepted only from an authorized user (password protected).
2. If primary pump fails to start, BMS shall start the standby pump and an alarm shall be generated.
3. Lead HW pump (least runtime) shall be changed on weekly bases.

D. HW pumps speed:

1. Pump modulates from 20-100% to maintain the differential pressure set point set in current BMS.

E. Boilers enable/disable:

1. Before a boiler is started its primary pump and combustion air damper shall open. Whenever a boiler is stopped its primary pump and combustion air damper shall close, subject to a 1-minute delay.
2. Lead boiler controls with input from BMS will modulate its burner to maintain the HW temperature set point.
3. If HW temperature drops by 5°F for 5 minutes from the set point, with one boiler operating at full capacity, a second boiler will be started, after its primary pump and damper open and flow through boiler is established. The second boiler will be the one with least runtime of the two standby boilers. Both boiler burners shall operate at same firing rate.
4. Second boiler will be stop when HW temperature set point is maintained with both boilers operating at 25% capacity for at least 15 minutes, but not less than 30 minutes after the second boiler was started.
5. If a boiler fails to start, BMS shall start the standby boiler and an alarm shall be generated.
6. Lead boiler shall be changed on weekly bases (e.g., Monday morning lead equipment switch after building warm up).

F. Boiler leaving water setpoint reset: HW supply temperature shall be reset from 160°F at 0°F OAT to 100°F at 60°F OAT.

G. Alarms:

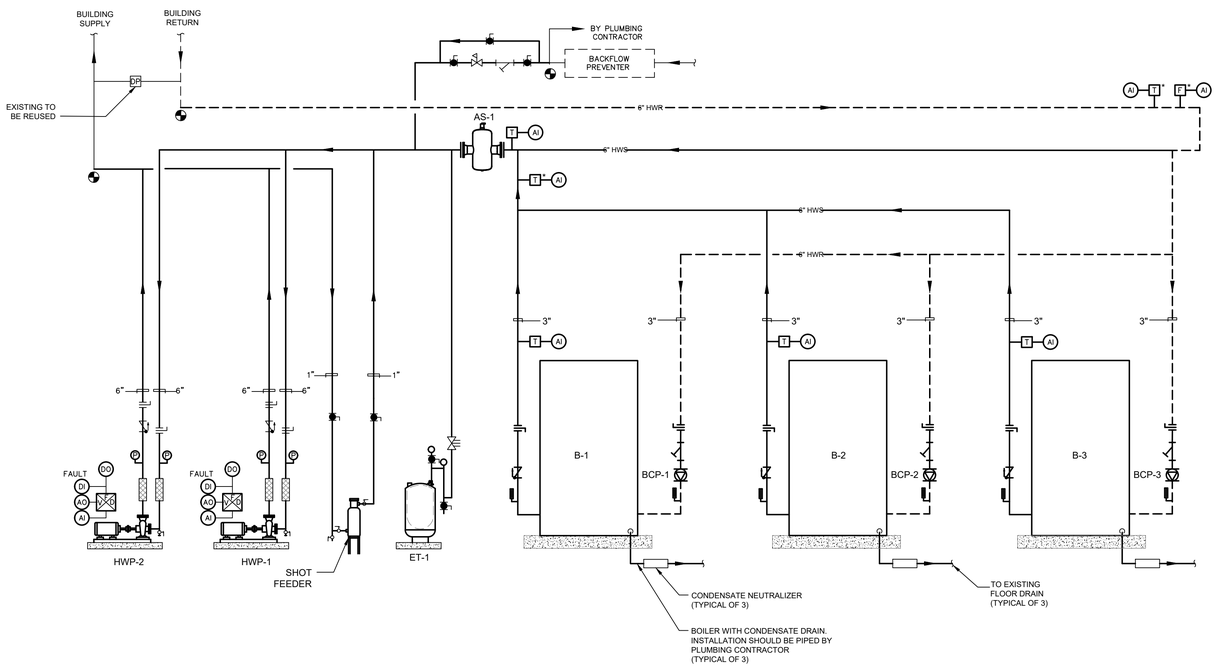
1. Boiler Failure: commanded ON, but the status is OFF. The boiler shall be clearly identified.
2. Boiler Running in Hand: commanded OFF, but the status is ON. The boiler shall be clearly identified.
3. Boiler Safeties (i.e., high limit, low water cutoff): general alarm from boilers control. The nature of alarm will be identified at boiler control display.
4. HW Pump Failure: Commanded ON, but the status is OFF. The pump shall be clearly identified.
5. HW Pump Running in Hand: Commanded OFF, but the status is ON. The pump shall be clearly identified.
6. HW Pump VFD fault. The pump shall be clearly identified.
7. High temperature: HWS if greater than 210°F (adj.)
8. Low temperature: HWR 10°F (adj.) less than set point for more then 30 minutes.
9. High DP: If 25% (adj.) greater than set point for 5 minutes.
10. Low DP: If 25% (adj.) less than set point for 5 minutes.
11. Flow detected (FS) in the make-up water line. Possible leak.
12. System static pressure has dropped to 5 psig - System flow in danger of stopping. Possible leak.

H. Trend Setups:

1. OAT
2. HW GPM
3. HWS temperature set point
4. HWS temperature
5. HWR temperature
6. HW MBTU delivered: MBTU = GPM x 500 x (HWST-HWRT)/1,000
7. Boiler firing rate
8. Pump kW
9. Pump speed %

I. Energy Report:

1. Tabulate HWS & R temp, GPM and MBTU's for each hour with total for the day in a spreadsheet form (trended data in columns, time in rows). Include equivalent pumps Btu's (3413 BTU/ kWh) from the VFD KW output. Include maximum, minimum and average hourly use in addition to the daily totals. Show day of week in title.
2. Tabulate HWS & R temp, GPM and MBTU's for each day with total for the month in a spreadsheet form (trended data in columns, date & day in rows) that includes equivalent pumps BTU's (3413 BTU/KWh) from the VFD KW. Include maximum, minimum and average for the month and the average daily use for weekends and weekdays. Include a day of week column next to date. Show month in title.
3. Tabulate HWS & R temp, GPM and MBTU's for each month with total for the year in a spreadsheet form (trended data in columns, months in rows) that includes equivalent pump MBTU's (3,413 MBTU/KWh) from the VFD kW output. Show a running total for this year of MBTU's, along the last year running total for the same period for comparison.
4. Pass data to Total Building Energy Use Report.



NEW WORK PIPING SCHEMATIC

SCALE: NTS

* SYSTEM FLOW METER TO BE USED ALONG WITH MAIN HWS/R TEMP SENSORS TO CALCULATE SYSTEM BTUs. BMS SHALL PROVIDE THIS CALCULATION AND TREND FOR USE BY TOWN.

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10 TALCOTT NOTCH, FARMINGTON, CT 06032 - 1800
Connecticut | Massachusetts | North Carolina

CONSULTANTS:

PROJECT NAME:

BURR ELEMENTARY SCHOOL
BOILER REPLACEMENT
1960 BURR STREET
FAIRFIELD, CT

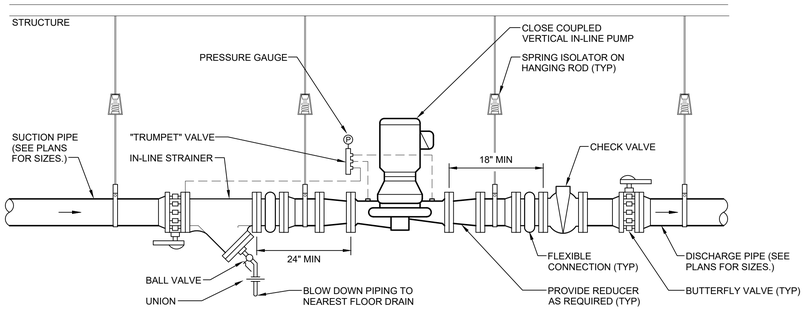
KEYPLAN

REVISIONS / ISSUANCES		
REV. NO.	DATE	DESCRIPTION
	2/17/2023	BID DOCUMENTS

DRAWING TITLE:

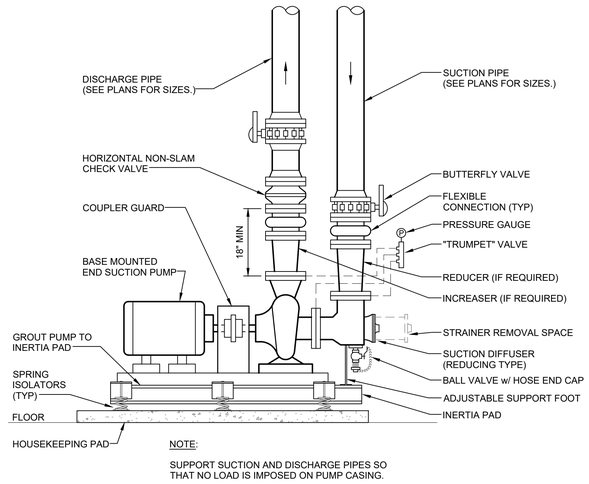
MECHANICAL HW PIPING SCHEMATIC, CONTROL DIAGRAMS AND SEQUENCES

DATE: 2/17/2023	DRAWING NUMBER: M-2
DRAWN BY: XXXXX	
CHECKED BY:XXXXX	
SCALE: NTS	
PROJ #: 2022036.00	



2 VERTICAL IN-LINE PUMP PIPING DETAIL VARIABLE SPEED, STRUCTURE SUPPORTED

SCALE: NOT TO SCALE



1 END SUCTION PUMP PIPING DETAIL VARIABLE SPEED, ISOLATED BASE

SCALE: NOT TO SCALE

PUMP SCHEDULE

UNIT NO.	LOCATION	SERVING	MANUFACTURER	MODEL & SIZE	TYPE	GPM	HEAD FT.	FLUID	RPM	PUMP EFF.	IMP. SIZE IN.	BHP	CONTROL	ELEC. DATA			REMARKS
														MOTOR HP	VOLTS	PH	
P-1	2ND FL BOILER ROOM	HW SYSTEM	BELL & GOSSETT	e-1510 3BD	BASE MT END SUCT	575	75	WATER	1769	84.6	9.5	12.7	VFD	15	208	3	-
P-2	2ND FL BOILER ROOM	HW SYSTEM	BELL & GOSSETT	e-1510 3BD	BASE MT END SUCT	575	75	WATER	1769	84.6	9.5	12.7	VFD	15	208	3	-
BCP-1	2ND FL BOILER ROOM	B-1	BELL & GOSSETT	e-80 3x3x7C	INLINE	146	30	WATER	1750	72.6	6	1.57	CONS. SPD.	2.0	208	3	-
BCP-2	2ND FL BOILER ROOM	B-2	BELL & GOSSETT	e-80 3x3x7C	INLINE	146	30	WATER	1750	72.6	6	1.57	CONS. SPD.	2.0	208	3	-
BCP-3	2ND FL BOILER ROOM	B-3	BELL & GOSSETT	e-80 3x3x7C	INLINE	146	30	WATER	1750	72.6	6	1.57	CONS. SPD.	2.0	208	3	-

NOTES:
1. INTEGRATE ALL PUMPS INTO EXISTING BUILDING BMS. SEE M-4 FOR MORE INFORMATION.

HOT WATER BOILER SCHEDULE

UNIT NO.	LOCATION	SERVING	MANUFACTURER	MODEL & SIZE	GAS			GENERAL			ELECTRICAL DATA			REMARKS
					GROSS OUTPUT (MBH)	MAX. INPUT (MBH)	THERMAL EFFICIENCY	GAS PRESS. REQ'D. "WC	INLET TEMP	OUTLET TEMP	VENT/ INTAKE	AMP	PH	VOLTS	
B-1	2ND FL. BOILER ROOM	HOT WATER SYSTEM	PATTERSON-KELLEY	STORM ST-1500	1455	1500	--	3.5-14	140°F	160°F	8"	20	1	208-240	-
B-2	2ND FL. BOILER ROOM	HOT WATER SYSTEM	PATTERSON-KELLEY	STORM ST-1500	1455	1500	--	3.5-14	140°F	160°F	8"	20	1	208-240	-
B-3	2ND FL. BOILER ROOM	HOT WATER SYSTEM	PATTERSON-KELLEY	STORM ST-1500	1455	1500	--	3.5-14	140°F	160°F	8"	20	1	208-240	-

NOTES:
1. PROVIDE CONDENSATE NEUTRALIZATION SYSTEM FOR EACH BOILER.
2. PROVIDE NORMALLY CLOSED MOTORIZED DAMPER WITH END LIMIT SWITCH IN THE COMBUSTION AIR INTAKE DUCTWORK FOR EACH BOILER.
3. INTEGRATE ALL BOILERS INTO EXISTING BUILDING BMS. SEE M-4 FOR MORE INFORMATION.

AIR SEPARATOR SCHEDULE

UNIT NO.	MANUFACTURER	MODEL	DESIGN CAPACITY (GPM)	INLET/OUTLET SIZE (IN)	REMARKS
AS-1	BELL & GOSSETT	SRS-6F	860	6	--

EXPANSION TANK SCHEDULE

UNIT NO.	MANUFACTURER	MODEL	TANK VOLUME (GAL)	MINIMUM ACCEPTANCE (GAL)	DIAMETER (IN.)	HEIGHT (IN.)	REMARKS
ET-1	BELL & GOSSETT	B-1000	264	264	36	76	-

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Connecticut | Massachusetts | North Carolina

CONSULTANTS:

PROJECT NAME:

BURR ELEMENTARY SCHOOL
BOILER REPLACEMENT
1960 BURR STREET
FAIRFIELD, CT

KEYPLAN

REVISIONS / ISSUANCES

REV. NO.	DATE	DESCRIPTION
	2/17/2023	BID DOCUMENTS

DRAWING TITLE:

MECHANICAL DETAILS AND SCHEDULES

DATE: 2/17/2023
DRAWN BY: XXXXX
CHECKED BY: XXXXX
SCALE: NTS
PROJ #: 2022036.00

DRAWING NUMBER:

M-3

GENERAL ELECTRICAL NOTES

A. ALL HOMERUNS/CIRCUITS TO BE 2#12, 1#12G., 3/4"C TO A 20A-1P CIRCUIT BREAKER IN DESIGNATED PANEL, UNLESS NOTED OTHERWISE. NUMBERS SHOWN AT EACH DEVICE/HOMERUN REPRESENT CIRCUIT NUMBER IN PANELBOARD.

B. WIRE AND RACEWAY SIZES INDICATED ON HOMERUNS/CIRCUITS SHALL BE CONTINUOUS FOR ENTIRE LENGTH, UNLESS NOTED OTHERWISE.

C*. ALL WIRING (CONDUITS, ETC.) TO BE CONCEALED. NO SURFACE WIRING SHALL BE INSTALLED IN FINISHED AREAS.

C*. ALL WIRING (CONDUITS, ETC.) TO BE CONCEALED. NO SURFACE WIRING SHALL BE INSTALLED IN FINISHED AREAS. THIS CONTRACTOR IS RESPONSIBLE FOR COORDINATING ALL CHANNELING REQUIRED OF EXISTING WALLS AND FLOORS TO ACCOMMODATE NEW WIRING. SEE PATCHING SPECIFICATIONS, FLOOR PLANS AND ELEVATIONS FOR ADDITIONAL INFORMATION ON ARCHITECTURAL AND WIRING ROUTING.

D. ALL WIRING ABOVE CEILING THAT IS NOT IN CONDUIT AND IS LOCATED IN A PLENUM SPACE SHALL BE PLENUM RATED. REFER TO MECHANICAL PLANS FOR PLENUM AREAS.

E. ELECTRICAL CONDUITS, WIRING, BOXES, ETC. SHALL NOT PENETRATE STAIR ENCLOSURE, UNLESS THEY ARE FEEDING DEVICES LOCATED WITHIN THE STAIR ENCLOSURE.

F. PROVIDE ELECTRICAL OUTLET PLATE GASKET SEALS AT RECEPTACLES, SWITCHES AND OTHER ELECTRICAL BOXES ON EXTERIOR WALLS AND INTERIOR WALLS BETWEEN CONDITIONED AND NON-CONDITIONED SPACES.

G. ALL INDIVIDUAL OR GENERAL PURPOSE BRANCH 120 VOLT CIRCUITS OVER 100'-0" IN CONDUCTOR LENGTH SHALL BE INCREASED ONE WIRE SIZE (i.e. FROM #12AWG TO #10AWG) AND CIRCUITS OVER 170'-0" IN CONDUCTOR LENGTH SHALL BE INCREASED TWO WIRE SIZES (i.e. FROM #12AWG TO #8AWG) UNLESS NOTED OTHERWISE.

H. ALL INDIVIDUAL OR GENERAL PURPOSE BRANCH 277 VOLT CIRCUITS OVER 230'-0" IN CONDUCTOR LENGTH SHALL BE INCREASED ONE WIRE SIZE (i.e. FROM #12AWG TO #10AWG) AND CIRCUITS OVER 380'-0" IN CONDUCTOR LENGTH SHALL BE INCREASED TWO WIRE SIZES (i.e. FROM #12AWG TO #8AWG,) UNLESS NOTED OTHERWISE.

I. PROVIDE UNIVERSAL BLANK PLUGS ON ALL SPARE CONDUITS.

J. RACEWAY AND WIRING INDICATED ON DRAWINGS ARE RECOMMENDATIONS FOR SPECIFIC ROUTES OR SPECIAL CONDITIONS. CONTRACTOR IS RESPONSIBLE FOR DETERMINING ACTUAL ROUTING.

K. ALTHOUGH ALL FEEDER AND BRANCH CIRCUIT WIRE AND CONDUIT IS NOT SPECIFICALLY SHOWN, IT IS THE INTENT OF THESE DOCUMENTS THAT A COMPLETE FEEDER AND BRANCH CIRCUIT WIRING SYSTEM BE INSTALLED.

L. ENSURE THAT NO PIPING, DUCTWORK, LEAK PROTECTION APPARATUS OR OTHER EQUIPMENT FOREIGN TO THE ELECTRICAL TRADE PASSES THROUGH THE SPACE EQUAL TO THE WIDTH AND DEPTH OF THE ELECTRICAL DISTRIBUTION EQUIPMENT AND EXTENDING FROM THE FLOOR TO THE STRUCTURAL CEILING.

161028

GENERAL ELECTRICAL DEMOLITION NOTES

A*. ALL ELECTRICAL DEVICES SHOWN CROSS HATCHED SHALL BE REMOVED UNLESS NOTED OTHERWISE.

A*. REMOVE ALL EXISTING ELECTRICAL EQUIPMENT WITHIN DESIGNATED AREA, EXCEPT WHERE MARKED OTHERWISE, i.e. LIGHTING, SWITCHES, OUTLETS, PANELBOARDS, ASSOCIATED WIRING BACK TO SOURCE OR TO LAST ACTIVE DEVICE, CONDUIT, ETC. IN PREPARATION FOR NEW WORK. THIS WORK INCLUDES COMPLETE DEMO AND IS NOT LIMITED TO THE EQUIPMENT SHOWN ON DEMO PLANS.

B. REMOVE ALL EXISTING LOW VOLTAGE SYSTEMS AND EQUIPMENT WITHIN DESIGNATED AREA, INCLUDING BUT NOT LIMITED TO, TELEPHONE, DATA, TV, A/V, P.A., CLOCK AND SECURITY SYSTEMS (INCLUDING OUTLETS, ETC. AND ASSOCIATED WIRING) BACK TO SOURCE OR TO LAST ACTIVE DEVICE.

C*. REMOVE EXISTING FIRE ALARM SYSTEM COMPLETELY INCLUDING BUT NOT LIMITED TO, FIRE ALARM DEVICES, WIRING, CONDUIT, BOXES, PANELS, ETC. COORDINATE REMOVAL WORK WITH INSTALLATION OF NEW FIRE ALARM SYSTEM SUCH THAT AN OPERATIONAL FIRE ALARM SYSTEM IS MAINTAINED THROUGHOUT PERIODS OF BUILDING OCCUPATION. COORDINATE ANY SERVICE SHUT-DOWN WITH LOCAL FIRE OFFICIAL AND OWNER. PROVIDE FIRE WATCH AS REQUIRED.

C*. REMOVE EXISTING FIRE ALARM SYSTEM IN AREA DESIGNATED INCLUDING BUT NOT LIMITED TO, FIRE ALARM DEVICES, WIRING, CONDUIT, BOXES, PANELS, ETC. COORDINATE REMOVAL WORK WITH INSTALLATION OF NEW FIRE ALARM SYSTEM SUCH THAT AN OPERATIONAL FIRE ALARM SYSTEM IS MAINTAINED THROUGHOUT PERIODS OF BUILDING OCCUPATION. COORDINATE ANY SERVICE SHUT-DOWN WITH LOCAL FIRE OFFICIAL AND OWNER. PROVIDE FIRE WATCH AS REQUIRED.

D. DISCONNECT AND REMOVE EXISTING WIRING, CONDUIT, BOXES, ETC. SERVING ALL EQUIPMENT BEING REMOVED BY MECHANICAL AND OTHER TRADES. REFER TO PLUMBING, MECHANICAL AND ARCHITECTURAL DRAWINGS FOR COORDINATION OF REQUIRED WORK. REMOVALS SHALL BE BACK TO SOURCE PANEL COMPLETE.

E. EXISTING ELECTRICAL ITEMS THAT ARE BEING DISCONNECTED AND REMOVED AND NOT BEING REUSED SHALL BE DISPOSED OF PROPERLY.

F. ALL ABANDONED ELECTRICAL WIRING AND DEVICES SHALL BE REMOVED.

G. IF CONTINUITY OF WIRING TO EXISTING ELECTRICAL ITEMS IS INTERRUPTED BY REMOVAL OF DEVICES, CONTRACTOR SHALL INSTALL ALL NECESSARY WIRING AND RACEWAY TO ENSURE THE CONTINUITY OF CIRCUITRY IN OTHER AREAS.

H. WIRING FOR ITEMS BEING REMOVED SHALL BE REMOVED BACK TO POWER SOURCE OR LAST DEVICE TO REMAIN ACTIVE UNLESS NOTED OTHERWISE.

I. NOTIFY CONSTRUCTION MANAGER OR GENERAL CONTRACTOR OF OPENINGS CAUSED BY REMOVAL OF EXISTING EQUIPMENT NOT BEING REPLACED. ENSURE THE PATCHING IS COMPLETE.

J. REFER TO ARCHITECTURAL DRAWINGS FOR ADDITIONAL RELATED WORK.

K. ALL EXISTING EXPOSED RACEWAY THAT IS SERVING DEVICES IN FINISHED AREAS THAT ARE TO REMAIN SHALL BE REMOVED AND REPLACED WITH NEW CONCEALED CONDUIT/RACEWAY AND CONDUCTORS TO SERVE DEVICES.

L. INSTALL BLANK COVER PLATES ON RECESSED OUTLET BOXES ABANDONED UNDER THIS CONTRACT IN WALLS THAT ARE TO REMAIN.

M. WHERE POWER AND TEL/DATA OUTLETS EXIST ON WALLS TO BE FURRED OUT, THE ELECTRICAL CONTRACTOR SHALL REMOVE AND REINSTALL DEVICES AND PLATES AND PROVIDE BOX EXTENSIONS AS NECESSARY TO EXTEND THE OUTLETS TO THE NEW SURFACES.

N. REMOVE DEVICE PLATES (AND DEVICES WHERE NECESSARY) TO ACCOMMODATE NEW WALL FINISHES. REINSTALL COVER PLATES AND DEVICES AFTER NEW FINISHES ARE COMPLETE.

O. THE BUILDING WILL BE OCCUPIED DURING DEMOLITION. COORDINATE PHASING OF DEMO WORK WITH CONSTRUCTION MANAGER OR GENERAL CONTRACTOR. EXISTING PANELS MAY NEED TEMPORARY RE- FEED. ENSURE CONTINUITY OF SERVICES.

160220

NOTES:

1. COORDINATE PARAGRAPH 'A' WITH REPRESENTATION OF DEMOLITION DRAWINGS. DELETE THE PARAGRAPH THAT DOES NOT APPLY.

2. MODIFY PARAGRAPH 'B' TO SUIT PROJECT SCOPE. DELETE SYSTEMS THAT DO NOT APPLY.

LEGEND NOTE

THESE LEGENDS AND ABBREVIATIONS DEFINE ITEMS INDICATED ON DRAWINGS. NOT ALL SYMBOLS OR ABBREVIATIONS DEFINED ARE NECESSARILY USED ON THIS PROJECT.

150915

POWER DEVICES

SYMBOL	DESCRIPTION
	ELECTRICAL PANEL 480 / 277 VOLT
	ELECTRICAL PANEL 208 / 120 VOLT
	SPECIAL-PURPOSE ELECTRICAL PANEL OR EQUIPMENT CABINET
Tx	ELECTRICAL POWER TRANSFORMER
	MAGNETIC STARTER
F	FUSED DISCONNECT SWITCH
	COMBINATION MAGNETIC STARTER AND DISCONNECT SWITCH
	ELECTRIC MOTOR
VFD	VARIABLE FREQUENCY DRIVE
AHF	ACTIVE HARMONIC FILTER
J	JUNCTION BOX
	ELECTRIFIED BUSDUCT WITH FUSIBLE, PLUG-IN BRANCH CIRCUIT DEVICE
	HARD-WIRED EQUIPMENT CONNECTION
R	RELAY
Tx_{EF}	ELECTRONIC FAUCET / FLUSH VALVE CONTROL TRANSFORMER
Tx_{TP}	TRAP PRIMER SOLENOID TRANSFORMER
J_{PS}	MOTORIZED PROJECTION SCREEN POWER CONNECTION BOX
J_{MS}	MOTORIZED SHADE POWER CONNECTION BOX
J_{FC}	FAN COIL UNIT POWER CONNECTION BOX
J_{HD}	ELECTRIC HAND DRYER POWER CONNECTION BOX
J^{3}_{AV}	AUDIO / VISUAL SYSTEM JUNCTION BOX - REFER TO SPECIFICATIONS AND / OR DETAILS FOR ADDITIONAL INFORMATION
P_{CP}	COMBINATION POWER / DATA SERVICES POLE
S_{B}	SPLICE BOX, (FEEDERS)
P_{B}	PULL BOX, (FEEDERS)
FB	RECESSED MULTI-SERVICE FLOOR BOX
PT	MULTI-SERVICE POKE-THRU ASSEMBLY
$P_{F.W}$	FLUSH POWER OUTLET WITH LFMC WHIP CONNECTION TO FURNITURE PARTITION SYSTEM (WALL OR FLOOR)

180906

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REVISIONS / ISSUANCES

REV. NO.	DATE	DESCRIPTION
	2/17/2023	BID DOCUMENTS

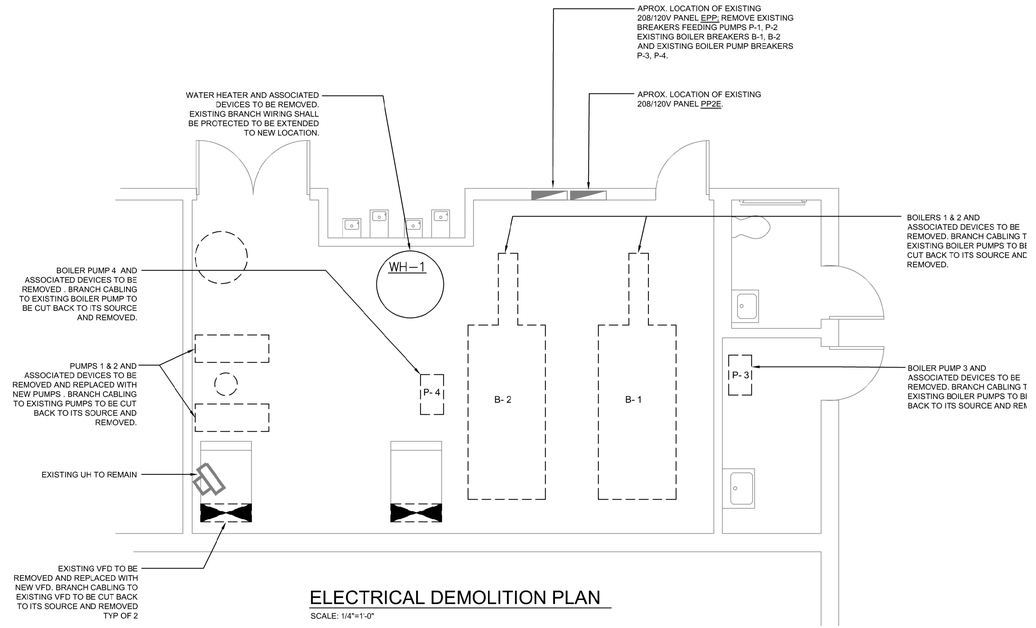
DRAWING TITLE:

ELECTRICAL LEGENDS AND GENERAL NOTES

DATE: 2/17/2023
DRAWN BY: XXXXX
CHECKED BY: XXXXX
SCALE: NTS
PROJ #: 2022036.00

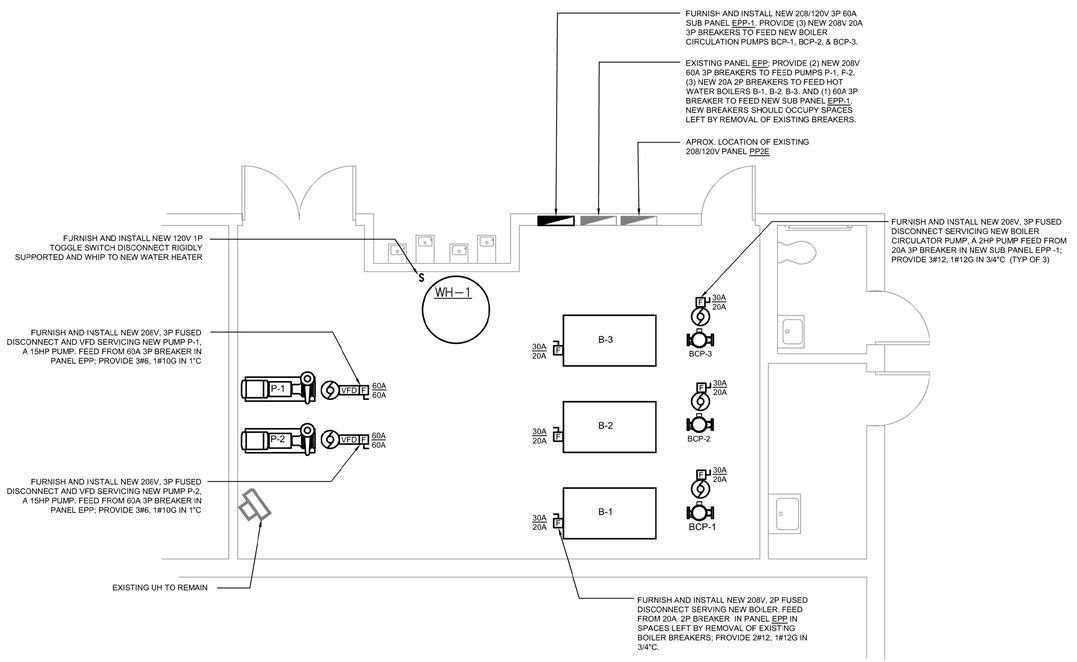
DRAWING NUMBER:

E-0



ELECTRICAL DEMOLITION PLAN

SCALE: 1/4"=1'-0"



ELECTRICAL NEW WORK PLAN

SCALE: 1/4"=1'-0"

NOTE:

1. VFDs FURNISHED AND INSTALLED BY ELECTRICAL CONTRACTOR. REFER TO ELECTRICAL SPECIFICATIONS FOR FURTHER INFORMATION.

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CONSULTANTS:

PROJECT NAME:

BURR ELEMENTARY SCHOOL
BOILER REPLACEMENT
1960 BURR STREET
FAIRFIELD, CT

KEYPLAN

N

REVISIONS / ISSUANCES

REV. NO.	DATE	DESCRIPTION
	2/17/2023	BID DOCUMENTS

DRAWING TITLE:

ELECTRICAL DEMOLITION AND NEW WORK PLANS

DATE: 2/17/2023
DRAWN BY: XXXXX
CHECKED BY: XXXXX
SCALE: 1/8"=1'-0"
PROJ #: 2022036.00

DRAWING NUMBER:

E-1

Town of Fairfield

Sullivan Independence Hall
725 Old Post Road

Fairfield, Connecticut 06824
Purchasing Department

(203) 256-3060
FAX (203) 256-3080

Award Recommendation Resolution:

On Monday, 17th April, 2023, the Purchasing Authority awarded Phase I of RFQ number 2023-83 to BL Companies Connecticut, Inc. to provide architectural and engineering services for HVAC upgrades at Osborn Hill Elementary School, North Stratfield Elementary School and Fairfield Woods Middle School as detailed in the RFQ specifications.

The award is justified by a combination of the following items:

- BL Companies Connecticut, Inc.'s understanding of the project and specialized experience and technical competence, specifically the proposed team and the capacity and capability to complete all work on time and within budget.
- BL Companies Connecticut, Inc.'s ability to commit the resources necessary to complete the services outlined in the RFQ and the ability to sustain that commitment for the duration of the project.
- BL Companies Connecticut, Inc.'s suggestions for improvement/innovations and management of this project.
- BL Companies Connecticut, Inc.'s extensive examples of work produced for and past performance on similar projects.
- BL Companies Connecticut, Inc.'s is deemed the most qualified firm for these services based on the qualification materials that were submitted for this solicitation, as well as the quality of their follow up interview for this project.

The award of the contract to BL Companies Connecticut, Inc. is subject to the availability of funding and is also subject to the review and approval of the Board of Selectmen.

Brenda L. Kupchick, First Selectwoman

Adam B. Tulin, Director of Purchasing

Town of Fairfield

Sullivan Independence Hall
725 Old Post Road

Fairfield, Connecticut 06824
Purchasing Department

(203) 256·3060
FAX (203) 256·3080

Request for Qualifications #2023-83
Architectural & Engineering Design Services – HVAC Upgrades at Various Fairfield Public School Locations

TOWN OF FAIRFIELD
PURCHASING AUTHORITY
725 OLD POST ROAD
INDEPENDENCE HALL
FAIRFIELD, CT 06824

SEALED QUALIFICATION submissions are subject to the standard instructions set forth on the attached sheets. Any modifications must be specifically accepted by the Town of Fairfield, Purchasing Authority.

First Selectwoman

Director of Purchasing

01/05/2023
Date

Date Submitted 02/02, 2023.

Proposer:
BL Companies Connecticut, Inc.
Doing Business As (Trade Name)

355 Research Parkway
Address

Meriden, CT 06450
Town / State / Zip

Robert Celata
Printed Name (Mr. / Ms.) and Title

Robert E. Celata
Signature

203.630.1406 203.630.2615
Telephone Fax

bcelata@blcompanies.com
E-mail Address

Sealed submissions will be received by the Purchasing Authority at the office of the Director of Purchasing, First Floor, Independence Hall, 725 Old Post Road, Fairfield, Connecticut 06824, up to:

2:00pm, Thursday, 2nd February, 2023

To provide architectural & engineering services for HVAC upgrades at Osborn Hill Elementary School, North Stratfield Elementary School, Fairfield Woods Middle School, Tomlinson Middle School, Fairfield Ludlowe High School, Walter Fitzgerald Campus, Fairfield Warde High School, Timothy Dwight Elementary School and Jennings Elementary School.

NOTES:

1. Proposers are to complete all requested data in the upper right corner of this page and must return this page and the Proposal page with their submission.
2. No submission shall be accepted from, or contracts awarded to, any person/company/affiliate or entity under common control who is in arrears to the Town of Fairfield upon debt, or contract or who has been within the prior five (5) years, a defaulter as surety or otherwise upon obligations to the Town of Fairfield, and shall be determined by the Town.
3. Submissions are to be submitted in a sealed envelope and clearly marked "**RFQ #2023-83**" on the outside of the envelope, including all outer packaging, such as, DHL, FedEx, UPS, etc.
4. It is the sole responsibility of the Proposer to see that the submission is received by the Fairfield Purchasing Department prior to the time and date noted above. Submissions are not to be submitted via email or fax.
5. Submissions are not to be submitted with plastic binders or covers, nor may the submission contain any plastic inserts or pages.

REQUEST FOR QUALIFICATIONS

Town of Fairfield

RFQ #2023-83
Architectural & Engineering Design Services – HVAC Upgrades
at Various Fairfield Public School Locations

February 2, 2023

Employee owned. Client driven.

CT I FL | MD I MA I NJ I NY I NC I OH I PA I RI I TN | TX

BL Companies
Architecture
Engineering
Environmental
Land Surveying

Architecture
Engineering
Environmental
Land Surveying
Companies

An Employee-Owned Company

February 2, 2023

Lee A. Flaherty, Buyer
Town of Fairfield, Purchasing Authority
725 Old Post Road, 1st FL, Independence Hall
Fairfield, CT 06824

Re: Request for Qualifications #2023-83
Architectural & Engineering Design Services - HVAC Upgrades at Various Fairfield Public School Locations

Dear Ms. Flaherty:

BL Companies Connecticut, Inc. ("**BL Companies**") is pleased to submit our proposal to provide architectural and engineering services to design the upgrades to provide air conditioning systems and to perform construction administration services for several Fairfield Public Schools. BL Companies has the expertise, experience, capabilities, and desire to provide all required professional services under this contract with a high level of quality and in a responsive and timely manner.

Your project requires a team of professionals who know the importance of great partners, and BL Companies is that team. BL Companies offers a team of engineers and architects dedicated to the improvement of educational facilities. Ranked #155 among the Top 500 Design Firms in the US by Engineering News-Record, our team is composed of exceptional design professionals with the knowledge and drive to provide the Town of Fairfield with a superior level of service for this assignment.

The **benefits that BL Companies can provide to the Board of Education** on this contract include:

- **Multi-Discipline and Integrated Services** including significant experience and expertise in Architecture, Mechanical Engineering, Electrical Engineering, Plumbing & Fire Protection Engineering, Civil Engineering, Structural Engineering, Traffic and Transportation Engineering, Planning, Environmental Permitting, Environmental Sciences and Engineering, Land Surveying and GIS, Utility Design, Subsurface Utility Engineering and Construction Administration and Inspection.
- **Thorough understanding** of the requirements associated with providing professional services for public schools and municipal buildings.
- **Ample resources** with 40 MEP design professionals and over 375 company-wide employees.

BL Companies brings together a complete multi-discipline team that has worked together on past municipal and state projects. We have several Connecticut licensed senior professionals with more than five years of applicable experience and LEED Accredited Professionals on our engineering staff. Our technical knowledge and expertise in the areas described in the scope of services will prove to be valuable in developing design solutions that are consistent with your schedule and budget. We have shown our ability to provide cost-effective solutions by utilizing the latest technologies and thinking outside the box.

Within our response, we have further demonstrated some of our recent work along with qualifications of the key personnel that will be involved with this project and have previously completed similar related projects.

We are excited about this opportunity and have full-time resources locally available to complete this project quickly. The time for validity of the offer is one hundred twenty (120) days from the due date of the proposal. Thank you for considering us to fulfill your project needs. I look forward to the opportunity of further discussing our qualifications with you in greater detail.

Sincerely,
BL COMPANIES

Robert E. Celata

Robert Celata, Ex. Director of ASMEP, Principal

TABLE OF CONTENTS

BL Companies

EXECUTIVE SUMMARY

EXECUTIVE SUMMARY

INTRODUCTION

Since 1986, BL Companies has provided complete architecture, engineering, environmental and land surveying services for a range of clients including municipalities, state agencies and regional councils of governments. Ranked among the Top 500 Design Firms in the US by Engineering News-Record (#155), our team is composed of exceptional design professionals with the knowledge and drive to provide the Town of Fairfield with a superior level of service for this contract.

Official Firm Name: BL Companies Connecticut, Inc.
Connecticut Tax Identification Number: 2822252-000
FEIN: 34-2021431

Headquarters are located at:
355 Research Parkway
Meriden, CT 06450

QUALIFICATIONS SUMMARY

BL Companies' team brings a wealth of relevant experience with Connecticut Public Schools and HVAC design. We have designed HVAC upgrades for many public schools throughout Connecticut including:

- Stamford Public Schools
- Stonington Public Schools
- Guilford Public Schools
- Waterbury Public Schools
- Ansonia Public Schools
- Coventry Public Schools

PROJECT METHODOLOGY

For our project contracts, BL Companies begins by assigning a senior professional as a primary point of contact for our client. That individual begins by meeting with the client to understand their needs, objectives and established protocols for contracting and executing the project. It will be his or her responsibility to assure that our project staff assigned to the project understands the scope of work, contractual obligations and required protocols to be followed. That individual also becomes the client's single source for delegating project services, regardless of scope or required design disciplines. For the Town of Fairfield, **Jesse Vose, PE** will fill this role, serving as the project lead and main point of contact.

Once proper authorization for work has been executed, the staff assigned to the project would be gathered for a project kick-off, where scope, schedule, budget, and outcomes are discussed. Lines of communication with the specific client representative(s) would also be established.

At all phases of a project, communication is the key to a successful outcome. It will be our primary project contact's responsibility to assure that this occurs. Should the Town of Fairfield representative feel that the services are not meeting expectations, our primary point of contact for the contract is always at the ready to resolve the situation. In addition, a principal is assigned to each contract to check in on our performance and to serve as a high-level contact for our client.

At the end of a project we will follow through on any closeout procedures that the Town of Fairfield has established as part of their project protocol. This will assist in maintaining an accurate record of the project.

FINANCIAL STABILITY

BL Companies is financially stable. For more information on our financial state, a copy of our most recent financial statement is included as a separate attachment to preserve the confidentiality of the information.

CLOSING STATEMENT

BL Companies is very excited for the opportunity to work with the Town of Fairfield on this contract. Our team is immediately available to begin work on this project.

BL Companies

BUSINESS HISTORY

BUSINESS HISTORY

FIRM NAME

BL Companies Connecticut, Inc. // C Corporation

DATE FIRM ORGANIZED

1986

YEARS' OPERATING UNDER CURRENT NAME

BL Companies Connecticut, Inc. was incorporated 16 years ago, in 2004.

CORPORATE OWNERSHIP

BL Companies Connecticut, Inc. is an affiliate company of BL Companies, Inc. BL Companies, Inc. holds no ownership interest in BL Companies Connecticut, Inc. BL Companies Connecticut, Inc. is owned solely by licensed professionals as required by state statute. That being said, as an affiliated company, BL Companies Connecticut, Inc. is tied back to BL Companies, Inc. through voting control agreements.

About BL Companies

FIRM OVERVIEW

BL Companies, an employee-owned firm, is a leader in delivering high-quality, integrated architecture, engineering and related services to public and private clients for land development, building design, and infrastructure projects.

Founded in 1986 as a small transportation planning and civil engineering firm, BL Companies has grown to become a leading multi-discipline firm sought for our quality, creativity and expertise in producing successful project outcomes. We are dedicated to total client satisfaction. Our success is founded in our employee owners and a culture that inspires, challenges and insists on nothing short of professional excellence.

Consistently listed in the Top 500 Design Firms in the country by Engineering News-Record, BL Companies has offices in twelve states, including Connecticut, Florida, Maryland, Massachusetts, New Jersey, New York, North Carolina, Ohio, Pennsylvania, Rhode Island, Tennessee, and Texas.

As an employee-owned company, we advocate a team approach and strive to formulate long lasting relationships with our clients and business partners. We believe there is no limit to what a team can do when working in a true partnership. Supplying clients with creative solutions based on a collaborative process assures a result that is greater than the sum of its parts.

The employees at BL Companies are the foundation of our existence as a firm and a professional community. We help support our employees in finding the right balance between work and life. We are pleased to be an employee-owned, team-oriented company where every individual shares in each other's successes.

DELIVERING INTEGRATED SERVICES:

- Architecture
- Structural Engineering
- MEP Engineering
- Civil Engineering
- Transportation Engineering
- Landscape Architecture
- Planning
- Land Surveying
- Subsurface Utility Engineering
- Environmental Sciences
- Construction Inspection & Administration

BL Companies

MEP Engineering

FIRM OVERVIEW

BL Companies offers a comprehensive approach to designing, managing and maintaining building and facility assets. With full-service capabilities in all aspects of mechanical, electrical, plumbing (MEP) and fire protection engineering, BL provides MEP services for all phases of building design or renovation.

Whether a new system or renovation, a quality system means getting it right in the design process. By understanding a client's requirements and budget, the Mechanical, Electrical and Plumbing Engineering Team at BL Companies can meet the client's needs and develop systems that are energy and cost efficient, safe, reliable and accurate, environmentally sound and easily maintainable. BL Companies is a member of the US Green Building Council with LEED™ accredited professionals on staff.

WE SPECIALIZE IN:

- Mechanical systems
- Electrical systems
- Plumbing systems
- Fire protection systems
- Building system repair and replacement
- Energy conservation studies and sustainability
- Air quality analysis and remediation
- Code compliance studies
- Telecommunications and computer data systems
- Backup power and redundancy
- Heat and energy recovery
- Lifecycle cost analysis
- Lighting systems
- Integrated control systems

BL Companies

Architecture

FIRM OVERVIEW

Thoughtful well–crafted design does more than realize client goals. It builds upon those goals to enhance the character of where we live, learn, work, socialize, relax, shop, vacation, congregate, dine and play. Creativity and innovation are the hallmarks of architectural design at BL Companies. We begin with a clear understanding of our client's strategies, timeframe, requirements, visions and budget. Our in–house, multi–discipline team enables us to coordinate and assimilate architectural and related building and site development elements.

BL Companies provides architectural services for commercial, industrial, municipal, institutional and private clients in all phases of building design or renovation. Whether designing buildings or interiors, the renovation of existing buildings or adaptive re–use, the Architecture and Engineering Design Group actively engages our clients throughout the entire design process to create buildings that reflect core values and goals. We believe architecture can directly affect our clients' bottom line whether in brand identification, increased communication, a better setting for educating future generations or a balanced approach to the community and surrounding areas. Our goal is to balance quality design with the technical expertise to achieve our clients' objectives. BL Companies is a member of the US Green Building Council with LEED accredited professionals on staff.

WE SPECIALIZE IN:

- New construction
- Renovation
- Historic Preservation
- Prototype design/development
- Adaptive re-use
- Interior architecture
- Sustainable design

BL Companies

Structural Engineering

FIRM OVERVIEW

Success begins with a solid foundation and that begins with a structurally sound design. At BL Companies, our structural engineers inspect, analyze, design, plan and research structural components and systems. Our work includes technical, fiscal and environmental concerns and also considers aesthetic and social factors. The goal is to create the framework that makes design solutions as solid as they are attractive.

BL Companies provides structural engineering services for a wide range of building types and sizes. We have extensive experience combined with a hands-on awareness to create practical and constructible designs. BL Companies' Structural Engineering team works on a wide range of projects for public and private clients, including new construction and building renovations. The objectives of each project are consistently realized through a cooperative and collaborative relationship between the project team and the client.

WE SPECIALIZE IN:

- Analysis and design
- Inspections and Investigations
- Building and structure design services
- Third party reviews
- Construction administration

BL Companies

LEGAL HISTORY & DISCLOSURE STATEMENTS

CONFLICT OF INTEREST STATEMENT

No selectmen or other officer, employee, or person who is payable in whole or in part from the Town of Fairfield has any direct or indirect personal interest in BL Companies.

DEFAULT STATEMENT

BL Companies has never been terminated, fired, or replaced on a project due to the fault of the firm. On rare occasions, however, projects are not completed because the client terminates the project prior to completion.

Additionally, the firm has declined to complete projects in which the client breached its obligation to pay for services rendered.

LITIGATION HISTORY

Pending

Estate of Rachel Patterson a/k/a Rachel Patterson, Deceased, by and through Lance Patterson, Administrator 26 Gardenia Drive, Monticello, NY 12701 v. Rockefeller Group International, Inc. 1271 Avenue of the Americas, 24th Fl, NY, NY 10020
Court of Common Please, Lehigh County, Trial Division
This suit is in its infancy. BL will be filing a Motion to Dismiss as we were not involved in this project.

Closed – Either settled or withdrawn

Rosemarie Laviero v. City of Bristol, Inland Wetlands Commission, Walter Veselka, P.E., P.W.L.F., Paul Strawderman, P.E., Raymond A. Rogozinski, P.E., BL Companies, Inc., Derek Kohl, P.E., Shultz Corporation, The Hanover Insurance Company
United States District Court, District of Connecticut; Case No. 3:18-CV-02065-SRU
Dismissed on summary judgment motion August 2022.

Lida DiPalmo v. Rite Aid of New Jersey, Inc.; Rite Aid Corporation; Crane Oil Co., Inc.; Ronald Guarro and Leslie Guarro; Floyd L. Wiita; BL Companies, Inc.; Doe Dischargers (1-10); Doe Owners and Operators (1-10); DOR Remediation Companies (1-10)
Superior Court of New Jersey Gloucester County Law Division; Docket No. GLO-L-230-21
Settled March 2022

PPL Electric Utilities Corporation v. UGI Corporation and Great Western Services, Inc. v. BL Companies, Inc.
Court of Common Pleas, Monroe County, No. 2015-00378
Settled March 2021

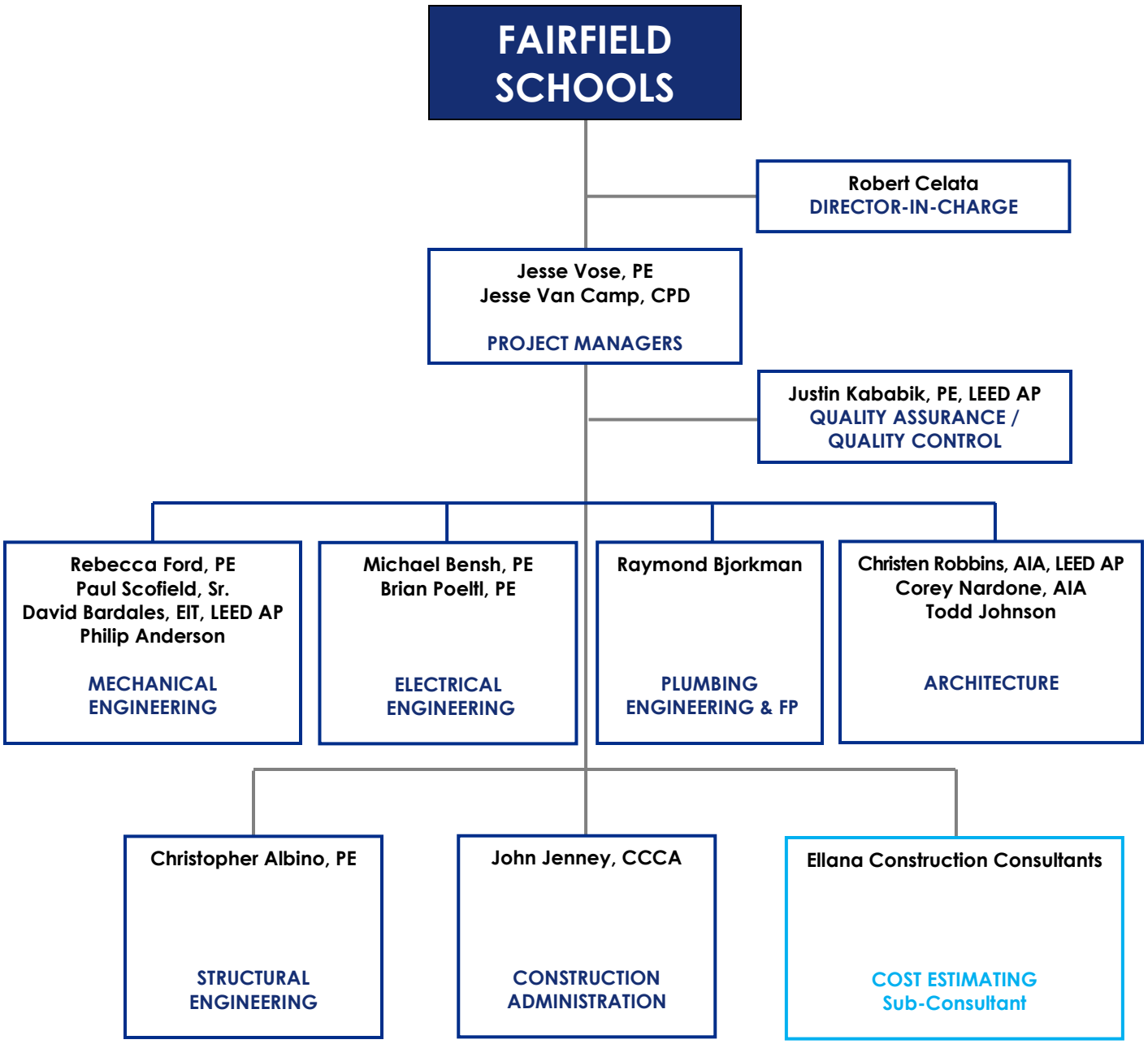
Boch Realty, Inc. v. J.H. Lynch & Sons, Inc. v. United Consultants, Inc.; Chase Precast, Inc., A Division of Oldcastle Precast, Inc.; Oldcastle Precast, Inc.; Robert A. Landino, P.E.; BL Companies, Inc.; Centerplan Companies, LLC; Carlos A. Quintal, P.E.; and CAQ Engineering Associates, Inc.
Superior Court Department, Commonwealth of Massachusetts, Norfork; Docket No. 17-0458
Dismissed on Motion to Strike October 2019

Jacob Bergman, and Mankoff Developments, LLC v. BL Companies, Inc.
Superior Court, Judicial District of New Haven at New Haven
Dismissed on Motion of Non-Suit September 2019

Christina Jackson v Costco, Gary Michael, Dennis Michael, BL Companies & Graham LTD
Superior Court, Judicial District of New Haven at Meriden
Dismissed on summary judgment August 2018

PROJECT TEAM

ORGANIZATIONAL STRUCTURE PROJECT TEAM



BL Companies

ROBERT CELATA

RESUME

PROJECT ROLE
Executive Director, Architecture and Building Engineering, Principal

EDUCATION
Graduate of Porter School of Architecture and Civil Design
Advanced HVAC Design, New England Technical Institute

REGISTRATION
Connecticut Certified Energy Auditor

PROFESSIONAL MEMBERSHIPS
Society for American Military Engineers
American Institute of Architects, Associate
Connecticut Building Congress
ASHRAE
National Fire Protection Association

SUMMARY OF QUALIFICATIONS

Mr. Robert Celata is the Executive Director of Architecture and Building Engineering with over 42 years of experience in building design and construction oversight of retail, commercial, residential, education, public facilities, healthcare, transportation infrastructure and utility infrastructure facilities. As Executive Director of Architecture and Building Engineering, he is responsible for the management / operations and technical oversight of the division that provides design services for architecture, MEP and structural engineering to assure performance standards and clients' expectations are met.

Mr. Celata has a proven ability to work closely with clients in the areas of project management, problem solving, design, quality control, safety and construction oversight. His experience allows him to effectively facilitate communication to all levels of an organization. He has an innate ability to work closely with clients and in a multi-disciplinary environment allows him to manage the investigative process and assist in problem solving.

Mr. Celata's expertise in the areas of construction, mechanical, electrical, plumbing and fire protection design provides the skills required to perform thorough investigative analysis and examinations in electrical, mechanical and reconstruction investigations. He has served as expert witness, forensic engineering in mechanical, electrical, HVAC, plumbing, security, fire alarm and fire sprinkler systems in numerous buildings and projects.

RELEVANT EXPERIENCE

Mary M. Hooker Environmental Sciences Magnet School, Hartford, Connecticut
Served as Director in Charge to the Mary M. Hooker Environmental Sciences Magnet School project. This unique PreK-8 facility is located on 17 pristine acres near downtown Hartford, Connecticut. Six acres are designated as an outdoor nature center and trail system. This extraordinary aspect extends the learning experience beyond the walls of the school and enables the faculty to develop a wide-ranging environmental curriculum. BL Companies designed a new 30,000 square foot addition and renovations to the existing 70,000 square foot school. The project includes ecologically and environmentally inspired spaces such as a butterfly vivarium, planetarium, greenhouse, weather station, aquatics laboratory and an ecological display for the school's main lobby. This is the first public elementary school in New England to earn a LEED Platinum rating level of sustainable design.

Davis Street School, New Haven, Connecticut
Served as Director in Charge to the Davis Street Arts and Academics School, which was built in 1918 with additions in the 1940s and 1950s. The existing school was razed to make way for a new 81,000 square foot, state-of-the-art facility. Some of the notable spaces include a "black box" performance space, converted to an open dance studio, and a music suite with spaces for band, vocal and string programs, and an art room. A full media center, gymnasium, kitchen and cafeteria were included in the design for the Pre-K through eighth grade school. The design also included 54 parking spaces, bus and parent drop off areas, site layout, and athletic field and playground, utility plan, grading plan, erosion and sediment control plan, planting plan and stormwater plan.

University of Connecticut, Arjona Building Renovations, Storrs, Connecticut
Served as Director in Charge to the Arjona Building Renovations project, including the complete refinishing of interior spaces, upgrades to the electrical service, complete building air conditioning, and resolution of cited fire and life safety code violations.

BL Companies

Working in concert with the University of Connecticut, the Office of the State Fire Marshall and a preselected Construction Manager, BL Companies completed construction documents in six weeks, allowing for an early winter construction start.

Storrs Center, Mansfield, Connecticut
Served as Director in Charge to provide design services to Storrs Center to build a mixed-use village at the crossroads of picturesque Mansfield, Connecticut and the University of Connecticut campus. Based on LEED guidelines this 45-acre "green" project includes 1,000,000 square feet of new building construction and creates an inviting Main Street experience featuring a mix of restaurants, cafés, retail shops, a town green, office space, housing and open space. The goal is to create a vibrant walkable and sustainable gathering place for residents, the university community and neighbors from the surrounding region. BL Companies' work in the Master Plan development and as the Architect and Engineer of Record included the preparation of municipal development plan documents, building design, local, state and federal permitting, plaza and park design, underground storm water management design, traffic analysis, roadway and streetscape improvement design.

Yale University Peabody Museum, New Haven, Connecticut
Served as Director in Charge to the Peabody Museum of Natural History at Yale University. This University has the distinction of being among the oldest, largest university natural history museums in the world. Founded in 1866, it is perhaps best known for its Great Hall of Dinosaurs and 110-foot-long mural named *The Age of Reptiles*. BL Companies was awarded a contract to provide MEP engineering services for the Peabody Museum. The project involved the design of a new HVAC system to serve two artifact storage rooms and an upgrade to the existing ventilation system in the basement mechanical room. BL Companies also designed a system to control the heat transfer from the mechanical room up to the display room above. The floor in the display room had been recorded at over 120 degrees Fahrenheit.

Bedford Middle School, Westport, Connecticut
Served as Project Manager responsible for the complete MEP design, state submission and construction management for the new Bedford Middle School in Westport. $35,000,000.

Coleytown Middle School, Westport, Connecticut
Served as Project Manager responsible for the complete MEP design, state submission and construction management for Coleytown Middle School. This project was one of the first completed to the Renovation Status in the State of Connecticut. $10,000,000.

Pomeraug High School, Southbury/Middlebury, Connecticut
Served as Project Manager for Pomeraug High School. This project required the design of a complete new mechanical system to meet ventilation standards for schools. The boiler room needed to be expanded to add the required heating capacity for the increased ventilation.

Yale University, New Haven, Connecticut
Served as Project Manager for 30 to 40 lab renovations. Project responsibilities included architecture, mechanical, electrical, and plumbing engineering.

Cornell University, Westchester, New York
Served as Project Manager responsible for providing construction documents for the medical unit. The project scope consisted of mechanical, electrical, and engineering design services. This included providing contract documents for bidding to remove existing underground fuel oil storage tanks. The design included EPA standard/requirements to excavate and treat contaminated soils. Construction review and inspection was also included during project duration.

Yale University School of Management Dining Hall, New Haven, Connecticut
Served as Project Manager for HVAC Upgrades to the Yale School of Management Dining Hall. Project responsibilities include designing a new HVAC system that provided air conditioning to both the dining area and the serving/cooking stations.

JESSE E. VOSE, PE

RESUME

PROJECT ROLE
Senior Project Manager

EDUCATION
Bachelor of Science in Mechanical Engineering, Rensselaer Polytechnic Institute

REGISTRATION
Professional Engineer: California, Colorado, Connecticut, Florida, Indiana, Massachusetts, New Hampshire, Ohio, Oregon, Rhode Island, Washington

PROFESSIONAL MEMBERSHIPS
American Society of Heating, Refrigerating, and Air-Conditioning Engineers

SUMMARY OF QUALIFICATIONS

Jesse has more than 25 years of experience in the design, analysis, and specification of mechanical systems. He has expertise in the areas of healthcare, K-12 education, college & university, commercial, cultural, residential, retail, and industrial projects. As Senior Project Manager at BL Companies, Jesse's responsibilities include managing mechanical, electrical, plumbing, and fire protection engineers in order to meet or exceed client expectations and schedules. Jesse places great importance on the collaboration and coordination between project team members, including architects, clients, building owners, building end users, various engineering disciplines, consultants, building officials, contractors, and others, in order to successfully design and complete projects.

RELEVANT EXPERIENCE

Holland Hill Elementary School, Fairfield, Connecticut
Client, project, and mechanical department manager for a 55,000 square foot, $15 million renovation and expansion. Mechanical, electrical, plumbing, fire protection, and civil services for a 12,000 square foot addition to the 43,000 square foot existing building. New MEP/FP systems included packaged rooftop air-handling units and dedicated outside air systems, variable refrigerant flow systems, domestic hot water plant, and electrical service. Design services were completed in 2019. Firm of Record: DTC, Inc.

Cutler Elementary School, Groton, Connecticut
Client, project, and mechanical department manager for a 75,000 square foot, $32 million new elementary school. Project included mechanical, electrical, plumbing, and fire protection design and construction administration services. MEP/FP systems included a chilled water plant, hot water plant, modular rooftop air-handling units and dedicated outside air systems, chilled beams, domestic hot water plant, and emergency generator. Design services were completed in 2020. Firm of Record: DTC, Inc.

West Side Elementary School, Groton, Connecticut
Client, project, and mechanical department manager for a 76,000 square foot, $34 million new elementary school. Project included mechanical, electrical, plumbing, and fire protection design and construction administration services. MEP/FP systems included a chilled water plant, hot water plant, modular rooftop air-handling units and dedicated outside air systems, chilled beams, domestic hot water plant, fire pump, and emergency generator. Design services were completed in 2020. Firm of Record: DTC, Inc.

Bennie Dover Jackson Middle School, New London, Connecticut
Client, project, and mechanical department manager for a 140,000 square foot, $40 million renovation and addition project including mechanical, electrical, plumbing, and fire protection services. New MEP/FP systems included a boiler plant, packaged rooftop units, modular dedicated outside air systems, variable refrigerant flow systems, domestic hot water plant, electrical service, and emergency generator. Design services were completed in 2020. Firm of Record: DTC, Inc.

Ponus Ridge School, Norwalk, Connecticut

Client, project, and mechanical department manager for a 141,000 square foot, $41 million renovation and addition to the school. Mechanical, electrical, plumbing, fire protection, structural, and civil services for a new 37,000 square foot addition and 104,000 square foot existing building renovation. New MEP/FP systems included packaged rooftop units, packaged dedicated outside air systems, variable air volume air systems for the new addition, variable refrigerant flow systems for the existing building, electrical service, and emergency generator. Design services were completed in 2020. Firm of Record: DTC, Inc.

Ralph M. T. Johnson Elementary School, Bethel, Connecticut
Client, project, and mechanical department manager for an 89,000 square foot, $34 million renovation and expansion. Mechanical, electrical, plumbing, fire protection, and structural services for a 32,000 square foot addition to the 57,000 square foot existing building. All-new MEP/FP systems included a chilled water plant, hot water plant, packaged rooftop air-handling units and dedicated outside air systems, 4-pipe fan-coil units, domestic hot water plant, electrical service, and emergency generator. Design services were completed in 2020. Firm of Record: DTC, Inc.

Anna. H. Rockwell Elementary School, Bethel, Connecticut
Client, project, and mechanical department manager for a 51,000 square foot, $20 million "renovate as new" project including mechanical, electrical, plumbing, fire protection, and structural services. All-new MEP/FP systems included a chilled water plant, hot water plant, packaged rooftop air-handling units and dedicated outside air systems, 4-pipe fan-coil units, domestic hot water plant, electrical service, and emergency generator. Design services were completed in 2020. Firm of Record: DTC, Inc.

Eaglebrook School, Science, Art and Music Addition, Deerfield, Massachusetts
Manage the mechanical engineering services for a 37,000 square foot, $24 million Science, Arts, and Music center, including mechanical, electrical, plumbing, and fire protection engineering services. MEP/FP systems included geothermal heating and cooling, variable refrigerant flow systems, hydronic radiant floor heating, snow melt systems, photovoltaic solar panels, and full generator backup of the building. Design services were completed in 2017. Firm of Record: DTC, Inc.

Greenwich Country Day School, Greenwich, Connecticut
Client, project, and mechanical department manager for MEP engineering services related to a 9,000 square foot, $1.5-$2.0 million renovation to the main kitchen at Greenwich Country Day School. The kitchen serves freshly prepared meals to approximately 1,500 students and faculty per day. Design services were completed in 2018. Firm of Record: DTC, Inc.

John F. Kennedy and Joseph A. DePaolo Middle Schools, Southington, Connecticut
Mechanical engineering services for two 140,000 square foot, $40 million renovation and expansion, including 107,000 square feet of renovation with a 33,000 square foot addition at each school. Mechanical systems included a chilled water plant, hot water plant, modular rooftop air-handling units and dedicated outside air systems, and chilled beams. Design services were completed in 2015. Firm of Record: Fletcher-Thompson, Inc.

Turn of River Middle School, Stamford, Connecticut
MEP project manager for a boiler and domestic hot water heater replacement project consisting of a completely new boiler plant with condensing boilers. Design services were completed in 2023. Firm of Record: BL Companies.

Scofield Magnet Middle School, Stamford, Connecticut
MEP project manager for a packaged rooftop and building management system (BMS) replacement project. Design services were completed in 2023. Firm of Record: BL Companies.

Board of Education, Stamford, Connecticut
MEP project manager for building management system (BMS) and security system upgrades at 18 schools and Board of Education facilities. Scope of work included connecting numerous pieces of MEP equipment and various sensors to both the BMS and security systems, in order to issue remote alarms upon detection of potential problems. Design services were completed in 2023. Firm of Record: BL Companies.

JESSE VAN CAMP, CPD

RESUME

PROJECT ROLE
Project Manager

EDUCATION
Porter and Chester, Drafting and Design 1996/1997

SUMMARY OF QUALIFICATIONS

Jesse has 24 years of experience in plumbing and fire protection design with several years of experience in project management and as a team leader. He has design and project management expertise in the areas of public/private education, commercial office, retail, public works and healthcare, warehouse /storage building design.

RELEVANT EXPERIENCE

CREC Ana Grace School, Bloomfield, Connecticut
Served as Senior Plumbing/FP Engineer for the design of a 157,000-square foot k-5 school. Project responsibilities included primarily design/modeling of PFP systems and coordination within building. Coordination and approval from local utility companies for installation of new domestic/fire water services and natural gas supply to the building.

CREC Aerospace and Engineering Elementary School, Bloomfield, Connecticut
Served as Senior Plumbing/FP Engineer for the design of a 90,000-square foot k-5 school. Project responsibilities included primarily design/modeling of PFP systems and coordination within building. Coordination and approval from local utility companies for installation of new domestic/fire water services and natural gas supply to the building.

Platt Technical High School, Milford, Connecticut
Served as Senior Plumbing/FP Engineer for the design of a 208,000-square foot k-5 school. Project responsibilities included primarily design/modeling of PFP systems and coordination within building. Coordination and approval from local utility companies for installation of new domestic/fire water services and natural gas supply to the building.

Wethersfield High School, Wethersfield, Connecticut
Served as Senior Plumbing/FP Engineer for the design & renovation of a 255,000-square foot 9-12 high school. Project responsibilities included primarily design of PFP systems and coordination within building, field investigation and documentation. Coordination and approval from local utility companies for installation of new domestic/fire water services and natural gas supply to the building.

West Bristol School, Bristol, Connecticut
Served as Senior Plumbing/FP Engineer for the design of a new 123,000-square foot K-8 school. Project responsibilities included primarily design of PFP systems and coordination within building, field investigation and documentation. Coordination and approval from local utility companies for installation of new domestic/fire water services and natural gas supply to the building.

Waterford High School, Waterford, Connecticut
Served as Senior Plumbing/FP Engineer for the design & renovation of a 231,000-square foot 9-12 high school. Project responsibilities included primarily design of PFP systems and coordination within building, field investigation and documentation. Coordination and approval from local utility companies for installation of new domestic/fire water services and natural gas supply to the building.

BL Companies

Emmett O'Brien Technical High School, Ansonia, Connecticut
Served as Senior Plumbing/FP Engineer for the design & renovation of a 173,000-square foot 9-12 technical high school. Project responsibilities included primarily design of PFP systems and coordination within building, field investigation and documentation. Coordination and approval from local utility companies for installation of new domestic/fire water services and natural gas supply to the building.

Westport Weston Family YMCA, Westport, Connecticut
Served as Project Manager/Sr. Plumbing/Fire Protection Designer for construction of a new 3,000 sq.ft Pool lodge, renovations and additions to the existing building and surrounding summer camp. Project responsibilities included oversee MEP design, coordination with OPM and architect, discuss project at town meeting(s) field investigations.

Northern Dutchess Hospital, Rhinebeck, New York
Served as Senior Plumbing/FP Engineer for the design of a 65,000-square foot medical facility including OR's, Sterilization suite and source medical gas equipment and infrastructure. Project responsibilities included primarily design of PFP systems and coordination within building, field investigation and documentation. Coordination and approval from local utility companies for installation of new domestic/fire water services and 8,000-gallon propane storage plant.

Northampton Police Department Northampton, Massachusetts
Served as Senior Plumbing/FP Engineer for the design of a 31,000-square police department and attached parking garage. Project responsibilities included primarily design of PFP systems and coordination within building, field investigation and documentation. Coordination and approval from local utility companies for installation of new domestic/fire water services and natural gas service.

University of Massachusetts Police Department, Amherst, Massachusetts
Served as Senior Plumbing/FP Engineer for the design of a 27,500-square police department /crime lab. Project responsibilities included primarily design of PFP systems and coordination within building, field investigation and documentation. Coordination and approval from local utility companies for installation of new domestic/fire water services and natural gas service.

Hayden Fire Station, Windsor, Connecticut
Served as Senior Plumbing/FP Engineer for the design of a 6,800 sq.ft building addition and interior renovation to the existing fire station from 1968. Project responsibilities included primarily design of PFP systems and coordination within building, field investigation and documentation. Coordination and approval from local utility companies for installation of new domestic/fire water services and natural gas service.

Blue Hills Fire District, Bloomfield, Connecticut
Served as Senior Plumbing/FP Engineer for the design and construction of a 7,300 sq.ft Fire Station. Project responsibilities included primarily design of PFP systems and coordination within building, field investigation and documentation. Coordination and approval from local utility companies for installation of new domestic/fire water services and natural gas service.

Oak Bluffs Town Hall, Oak Bluffs, Massachusetts
Served as Project Manager/Sr. Plumbing/Fire Protection Designer for renovations and additions to the existing town hall. Project responsibilities included oversee MEP design, coordination with OPM and architect, discuss project at town meeting(s) field investigations,

RIDOT Maintenance Building – Warwick, Rhode Island
Plumbing & Fire Protection Designer for a Department of Transportation Maintenance building. Project responsibilities included, domestic water, sanitary, gas, storm piping, plumbing schedules, details, isometric diagrams, and coordination with all trades involved with design.

JUSTIN S. KABABIK, PE, LEED AP

RESUME

PROJECT ROLE
Sr. Project Manager - MEP
Principal

EDUCATION
Bachelor of Science in Mechanical Engineering, Syracuse University, 1998

REGISTRATIONS
Professional Engineer: Alabama, Arizona, Arkansas, Colorado, Connecticut, Delaware, District of Columbia, Florida, Georgia, Hawai'i, Idaho, Illinois, Indiana, Iowa, Kansas, Kentucky, Louisiana, Maryland, Massachusetts, Michigan, Minnesota, Missouri, Montana, Mississippi, Nebraska, Nevada, New Hampshire, New Jersey, New Mexico, New York, North Carolina, North Dakota, Oklahoma, Oregon, Pennsylvania, Rhode Island, South Carolina, South Dakota, Tennessee, Texas, Utah, Virginia, Washington, West Virginia, Wyoming, Wisconsin
Professional Engineer Canada: British Columbia, Alberta, Ontario
LEED Accredited Professional

SUMMARY OF QUALIFICATIONS

Justin is a Sr. Project Manager of Mechanical, Electrical, and Plumbing/Fire Protection Engineering, in the Architecture and Building Engineering department, Justin leads a team of Mechanical, Electrical and Plumbing Engineers. With over 24 years of experience in HVAC/Mechanical Engineering, his experience includes all phases of design, from preliminary concepts through construction administration. Including working with both internal and external clients and coordination with all design disciplines. He has expertise in the areas of Telecommunications, Data Centers, Medical/Healthcare, K-12 Schools, Higher Education, Retail, Commercial, Warehousing and Research. As a licensed Professional Engineer in nearly all the US states and several Canadian Provinces, he has served as the Engineer of Record while focusing on customer service and exceeding our clients' expectations, while establishing and maintaining the MEP design standards and providing vision to the group.
In addition to his engineering endeavors, Justin has served on the Board of Advisors for the Wheeler Family YMCA in Plainville, CT and assists in their facility maintenance, since 2018.

RELEVANT EXPERIENCE

Harlem Hebrew Language Academy Charter School Renovations and Additions, New York, New York
Serves as the MEP Project Manager of a project to renovate an old church school into a K-8 charter school in Manhattan. The 6-story building will be completely renovated with new technology and lighting for all the classrooms and spaces; new fire protection service with a fire pump; and new water and sanitary service. The building will be served by a Dedicated Outdoor Air System which will ventilate all the spaces. The space conditioning will be done by a Variable Refrigerant Flow system. Filing with the New York City Department of Buildings and coordinating utilities was included in the design.

Toquam, Westhill, and Springdale Schools, Stamford, Connecticut
Served as Senior Mechanical Engineer and Project Manager on a project to replace the chillers at three different schools. Each building had a different chiller/heat rejection type. Designed the systems to receive the maximum utility rebate.

West Bristol K-8 School, Bristol, Connecticut
Served as Project Manager and Senior Mechanical Engineer for a 150,000 SF, new K-8 school. The building was designed to be LEED Silver equivalent and achieved an energy cost budget score 55% better than code. This high-performance building utilizes 150 closed loop geothermal wells to serve a variety of high-performance equipment. Ventilation for the building is provided by roof mounted, water source Dedicated Outside Air systems. The classrooms are served by water cooled VRF units. The building is heated by a radiant floor system feed by water to water heat pumps. The building also incorporates a 90kw solar, photovoltaic array and solar hot water heaters.

Waterford High School Renovations and Additions, Waterford, Connecticut
Served as Senior Mechanical Engineer for the renovation and additions to the existing Waterford High School. The addition consists of a 125,000 SF, three-story, academic wing designed to achieve LEED Silver. The building is served by chilled beams served by a Dedicated Outside Air System. Heating and cooling for the addition is generated by a reversible chiller plant connected to a 150-geothermal well field system.

Bagnall Elementary School, Groveland, Massachusetts
Served as Project Manager for an administrative office renovation and cafeteria, kitchen, and gym addition project.

Asian Studies Academy at Belizzi School, Hartford, Connecticut
Served as Project Manager and Senior Mechanical Engineer for a targeted renovation project to the Belizzi School. The design included lighting upgrades for incentives, DDC control upgrades and a replacement of the original 50-year-old steam boilers with new condensing gas-fired hot water boilers.

Portsmouth Middle School, Portsmouth, New Hampshire
Served as Senior Mechanical Engineer for the Design and Project Manager for the Construction Administration for a renovation and addition project to a 100-year-old school in downtown Portsmouth. The design included a 75,000 SF addition consisting of a double gym, kitchen, and academic wing. The centerpiece of the addition is a large student common which serves as a gathering place, the cafeteria and the auditorium. Design included replacement of all existing MEP equipment and a new boiler and chiller plant.

Bloomfield High School Addition and Renovations, Bloomfield, Connecticut
Served as Senior Mechanical Engineer on a renovation and addition project to the 150,000 SF high school. Design included one of the first full building applications of air cooled VRF air conditioning systems in the state.

Emmett O'Brien Technical High School Addition and Renovations, Ansonia, Connecticut
Served as Senior Mechanical Engineer and Project Manager on a complete renovate-to-new and addition project. The design included packaged air handling equipment to serve the classroom and shop area.

Hamden Public Schools, HVAC Investigations

- **Spring Glen School –** Served as the Senior Mechanical Engineer on a project to investigate the cause of chronic under cooling in the main office and admin suite. Issued a Due Diligence Report based on the heat load calculations, site observations and recommended corrections. Completed in 2015.
- **Dunbar Hill School –** Served as the Senior Mechanical Engineer on a project to investigate the cause of chronic under heating and cooling in the gymnasium. Issued a Due Diligence Report based on the heat load calculations, site observations and recommended corrections. Completed in 2015.

University of Connecticut, Arjona Building, Storrs, Connecticut
Served as Senior Mechanical Engineer for the renovation of the Arjona building on the Storrs campus. The project included a new HVAC system, including modular chillers serving fan coil units and air handling units, new controls system and connection to the campus steam loop.

University of Connecticut, Phillips Communications Building, Storrs, Connecticut
Served as Project Manager on project to update the interior spaces of a sound critical building. The project included conversion from a supply plenum ceiling system to a ducted system with acoustic ceiling tiles and the replacement of one of the air handling units and the upgrading of the lighting to the new LED standard. Due to the critical sound levels in the building, we worked with an acoustical consultant to ensure the new space would be quieter than the existing one.

University of Connecticut, Gant Science Complex, Storrs, Connecticut
Served as Project Manager and Senior Mechanical Engineer on a multi-phase project at UCONN. The Gant Complex is four buildings with a total size of 400,000 SF. Three of the buildings are approaching 40+ years. Phase I was an assessment and inventory of the unit ventilators, lab hoods and exhaust fans. Phase II was designing an approach for replacing and upgrading the laboratory exhaust system. Phase III is designing replacement unit ventilators for 50 classrooms.

Three Rivers Community College, Norwich, Connecticut
Served as Senior Mechanical Engineer for the replacement of the main boiler plant for the campus. The project included replacing the failing boilers with new condensing boilers and pumps and updating the control system.

Southern Connecticut State University, Lyman Center, New Haven, Connecticut
Served as Project Manager and Senior Mechanical Engineer on a project to replace an aging chiller and cooling tower. Project included a roof replacement, control upgrade, pump upgrade, and a new chiller and tower.

REBECCA FORD, PE

RESUME

PROJECT ROLE
Senior Engineer I

EDUCATION
Bachelor of Science in Mechanical Engineering, Lehigh University, 2013
Master of Science in Civil Engineering, Structural Concentration, Auburn University, 2017

REGISTRATION
Professional Engineer: Connecticut (2018), Massachusetts (2022)

SUMMARY OF QUALIFICATIONS

Ms. Ford has 9 years of experience of HVAC design in the field of MEP Engineering. She has expertise in the areas of K-12 schools, public housing, government projects and warehouses. As a senior engineer at BL Companies, Ms. Ford's responsibilities include design of mechanical systems to current building codes while considering the client's needs for the space and generating appropriate drawings and specifications for the work, followed by engineering support through the construction phase.

RELEVANT EXPERIENCE

Holland Hill Elementary School, Fairfield, Connecticut
Served as Mechanical Engineer for the $15 million renovation and expansion of a 55,000 SF elementary school. Project responsibilities included HVAC design, load calculations, equipment selections, Revit drawings, specifications, and construction administration support. New mechanical systems included packaged rooftop air-handling units, dedicated outside air systems, and variable refrigerant flow systems.

Fairfield Ludlowe High School, Fairfield, Connecticut
Served as Mechanical Engineer for the renovation of the high school cafeteria and new addition of the Webster Wing science classroom wing. Project responsibilities included HVAC design, load calculations, equipment selections, Revit drawings, and construction administration.

Cutler Elementary School, Groton, Connecticut
Served as Mechanical Engineer for a 75,000 square foot, $32 million new elementary school. Project responsibilities included HVAC design, load calculations, equipment selections, Revit drawings, specifications, and OSCG&R support. New mechanical systems included a chilled water plant, hot water plant, modular rooftop air-handling units and dedicated outside air systems, and chilled beams.

West Side Elementary School, Groton, Connecticut
Served as Mechanical Engineer for a 76,000 square foot, $34 million new elementary school. Project responsibilities included HVAC design, load calculations, equipment selections, Revit drawings, specifications, and OSCG&R support. New mechanical systems included a chilled water plant, hot water plant, modular rooftop air-handling units and dedicated outside air systems, and chilled beams.

Bennie Dover Jackson Middle School, New London, Connecticut
Served as Mechanical Engineer for a 140,000 square foot, $40 million renovation and addition project. Project responsibilities included HVAC design, load calculations, equipment selections, Revit drawings, and specifications. New mechanical systems included a boiler plant, packaged rooftop units, modular dedicated outside air systems, and variable refrigerant flow systems.

Ponus Ridge School, Norwalk, Connecticut
Served as Mechanical Engineer for the renovation of the existing middle school to convert it to a K-8 school. The project consisted of a renovation of the existing 104,000 building plus the design of a new 37,000 SF addition which included specialty

spaces such as a Math Lab & Engineering Technology Lab. Project responsibilities included HVAC design, load calculations, equipment selections, Revit drawings, specifications, OSCG&R support, and construction administration. New mechanical systems included packaged rooftop units, packaged dedicated outside air systems, variable air volume air systems for the new addition, and variable refrigerant flow systems for the existing building.

Ralph M. T. Johnson Elementary School, Bethel, Connecticut
Served as Mechanical Engineer for an 89,000 square foot, $34 million renovation and expansion, including a 32,000 square foot addition to the 57,000 square foot existing building. Project responsibilities included HVAC design, load calculations, equipment selections, Revit drawings, specifications, and OSCG&R support, and construction administration. All-new mechanical systems included a chilled water plant, hot water plant, packaged rooftop air-handling units and dedicated outside air systems, and 4-pipe fan-coil units.

Anna. H. Rockwell Elementary School, Bethel, Connecticut
Served as Mechanical Engineer for a 51,000 square foot, $20 million "renovate as new" project. Project responsibilities included HVAC design, load calculations, equipment selections, Revit drawings, specifications, and OSCG&R support, and construction administration. All-new mechanical systems included a chilled water plant, hot water plant, packaged rooftop air-handling units and dedicated outside air systems, and 4-pipe fan-coil units.

North Haven Middle School, North Haven, Connecticut
Served as Mechanical Engineer for the renovation and design of a new addition for the middle school. The new addition is approximately 88,000 SF for a total building area of 136,000 SF. Project responsibilities included HVAC design, load calculations, equipment selections, and Revit drawings.

Stillmeadow Elementary School, Stamford, Connecticut
Served as Mechanical Engineer for the design of the HVAC replacement for the school's All-Purpose Room. The original air handling units were removed and replaced with new rooftop units. Project responsibilities included HVAC design, load calculations, equipment selections, drawings, and specifications.

Newtown Community & Senior Center, Newtown, Connecticut
Served as Mechanical Engineer for the design of a combined 41,000 SF community center and senior center, including a 11,000 SF natatorium with a lap pool and therapy pool. Project responsibilities included HVAC design, load calculations, equipment selections, Revit drawings, specifications, and construction administration.

Dixwell Community Center, New Haven, Connecticut
Served as Mechanical Engineer for the design of a new 46,000 SF community center. The community center includes a library, fitness center, art & dance spaces, gymnasium, and a senior center area with ballroom/event space. The building will also house the Cornell Scott Hill Health Center. Project responsibilities included HVAC design, load calculations, equipment selections, Revit drawings, specifications.

University of Rhode Island, Food Science & Nutrition Research Building, West Kingston, Rhode Island
Served as Mechanical Engineer for the design of the HVAC replacement for the school's food science & nutrition research laboratory buildings. The original air handling unit will be removed and replaced with a new air handling unit with dehumidification control and energy recovery. VAV boxes with hydronic reheat were selected to provide zoned temperature/humidity control and to account for exhaust from laboratory hoods. The existing steam boiler will be converted to hot water to support the new project and a new BMS will be installed for controlling the new equipment. Project responsibilities included HVAC design, load calculations, equipment selections, drawings, and specifications.

Community College of Rhode Island, Bipolar Ionization & DCV Upgrades, Various Cities, Rhode Island
Served as Mechanical Engineer for the design of the addition of bipolar ionization units and demand control ventilation to the existing HVAC systems at four Community College of Rhode Island campuses. Project responsibilities included HVAC design, controls sequencing, drawings, and specifications.

PAUL SCOFIELD, SR.

RESUME

PROJECT ROLE
Senior Engineer

EDUCATION
JM Wright Technical High School, Drafting Program, 1975 to 1979
Norwalk Community College, Liberal Arts and Sciences, Advisement Sequence in Math & Science, 1980 to 1984 (Part-time).

SUMMARY OF QUALIFICATIONS

Mr. Scofield has 43 years of experience in Heating, Ventilation & Air-Conditioning design and engineering. Mr. Scofield has expertise in the areas of K-12 Education, College & University, Commercial, Residential, Retail, Industrial, Health Care and Construction Administration. As a Senior Engineer at BL Companies, Mr. Scofield's responsibilities include all aspects of heating, ventilation & air-conditioning design and engineering required for the preparation of complete construction documentation including, but not limited to; load estimation and calculations, HVAC equipment sizing and selection, the design and layout of various ductwork and piping distribution systems, building management and automatic temperature control systems, and specifications required for purchase and installation of HVAC related equipment. Other duties include field investigations for due diligence documentation of existing conditions and conducting field observations of projects under construction and preparing reports that detail the construction process and status.

RELEVANT EXPERIENCE

Longfellow Elementary School, Bridgeport, Connecticut
Served as Senior Engineer for the design and construction for a 76,000 SF Pre-K to 8 school. Project responsibilities include system designs, oversight of, and assistance in the preparation of the construction documents, preparing specifications, field inspections and assisting in construction administration. The air handling systems utilized by the project were central, rooftop air-handling units with chilled and hot water as the cooling and heating mediums. The conditioning was distributed throughout the building using a classic variable air volume distribution system. The chiller plant consisted of an outdoor, air-cooled, high-efficiency chiller with a variable-primary chilled water distribution system. The boiler plant consisted of multiple, high-efficient, condensing type boilers with a variable-primary hot water distribution system.

Achievement First, Amistad High School, New Haven, Connecticut
Served as Senior Engineer for the design of a new college preparatory public charter school. Project responsibilities include system designs, oversight of, and assistance in the preparation of the construction documents, preparing specifications, field inspections and assisting in construction administration. The air handling systems utilized by the project were central, rooftop air-handling units with chilled and hot water as the cooling and heating mediums. The conditioning was distributed throughout the building using a classic variable air volume distribution system. The chiller plant consisted of an outdoor, air-cooled, high-efficiency chiller with a variable-primary chilled water distribution system. The boiler plant consisted of multiple, high-efficient, condensing type boilers with a variable-primary hot water distribution system.

Prospect Elementary School, Prospect, Connecticut
Served as Senior Engineer for the design and construction for a new Pre-K to 8 school. Project responsibilities include system designs, oversight of, and assistance in the preparation of the construction documents, preparing specifications, field inspections and assisting in construction administration. The air handling systems utilized by the project were central, rooftop air-handling units with chilled and hot water as the cooling and heating mediums. The conditioning was distributed throughout the building using a classic variable air volume distribution system. The chiller plant consisted of an outdoor, air-cooled, high-efficiency chiller with a variable-primary chilled water distribution system. The boiler plant consisted of multiple, high-efficient, condensing type boilers with a variable-primary hot water distribution system.

East Hartford Elementary Magnet School, Glastonbury, Connecticut
Served as Senior Engineer for the design and construction of the new $25 million, 66,000 SF inter-district K-5 magnet school serving 420 students. Project responsibilities include system designs, oversight of, and assistance in the preparation of the construction documents, preparing specifications, field inspections and assisting in construction administration. The air handling systems utilized by the project were central, rooftop air-handling units with chilled and hot water as the cooling and heating mediums. The conditioning was distributed throughout the building using a classic variable air volume distribution system. The chiller plant consisted of an outdoor, air-cooled, high-efficiency chiller with a variable-primary chilled water distribution system. The boiler plant consisted of multiple, high-efficient, condensing type boilers with a variable-primary hot water distribution system.

Connecticut River Academy at Goodwin College, East Hartford, Connecticut
Served as Senior Engineer for the design and construction for a 103,000 SF magnet high school along the banks of the Connecticut River at a cost of $57 million. Project responsibilities include system designs, oversight of, and assistance in the preparation of the construction documents, preparing specifications, field inspections and assisting in construction administration. The air handling systems utilized by the project were central, rooftop air-handling units with chilled and hot water as the cooling and heating mediums. The conditioning was distributed throughout the building using a classic variable air volume distribution system. The chiller plant consisted of an outdoor, air-cooled, high-efficiency chiller with a variable-primary chilled water distribution system. The boiler plant consisted of multiple, high-efficient, condensing type boilers with a variable-primary hot water distribution system.

Hamden Hall Country Day School, Science Classroom and Laboratory Expansion, Hamden, Connecticut
Served as Senior Engineer for the design of a 4,000 square foot renovation and expansion project consisting of three new science classrooms, laboratory, and support spaces at the Schiavone Science Center building on campus. Project responsibilities include system designs, oversight of, and assistance in the preparation of the construction documents and specifications. The laboratory and the science classrooms were conditioned using rooftop packaged heat pumps with energy recovery. The classrooms were conditioned using a standard variable air volume (VAV) system with VAV terminal boxes with reheat capabilities.

Turn of River Middle School, Stamford, Connecticut
Served as Senior Engineer for the design of a boiler plant and domestic hot water heater replacement project. The project consisted of a completely new boiler plant utilizing multiple high efficiency gas-fired condensing boilers, along with the replacement of the existing heating hot water pumps, air separator, expansion tanks and assorted hydronic specialties.

Norwalk Community College Health & Science Center, Norwalk, Connecticut
Served as Senior Engineer for the design and construction of the new $20 million, 48,000 SF science wing and renovation of 30,000 SF of existing classroom spaces. Project responsibilities include system designs, oversight of, and assistance in the preparation of the construction documents, preparing specifications, field inspections and assisting in construction administration. For the new Science wing, the project included the demolition of the existing gymnasium and the design and construction of state-of-the-art science wing, housing various laboratory and nurse training classrooms. The air handling system utilized by the Science wing was a central, rooftop air-handling unit with chilled and hot water as the cooling and heating mediums. The system was a 100% outdoor air, once-through system. A complex variable volume air valve system was used to supply conditioned air, in conjunction with a variable volume laboratory exhaust fan system to maintain the spaces to specific air exchanges for proper space pressurization. The chiller plant consisted of an outdoor, air-cooled, high-efficiency chiller dedicated to the new air-handing unit. Hot water was provided via a new steam-to-hot water convertor system using high pressure steam from their existing steam generating plant. A variable volume hot water distribution system was used to deliver the hot water to be used by the air-handling unit, along with hot water heating terminals located throughout the new addition. The existing classroom renovations included the replacement of existing rooftop air-handers with new packaged DX rooftop air-handling units with steam heating. New variable air volume distribution system was provided throughout the area of scope to condition the individual classrooms.

DAVID BARDALES, EIT, LEED AP BD+C

RESUME

PROJECT ROLE
Project Engineer

EDUCATION
Bachelor of Science in Mechanical Engineering, New York Institute of Technology, 2013

REGISTRATION
Engineer-in-Training: Connecticut, 2017
LEED Green Associate, Green Business Certification Inc., 2017, License 11184729-GREEN-ASSOCIATE
LEED AP BD+C License 11184729-AP-BD+C

PROFESSIONAL MEMBERSHIPS
American Society of Heating, Refrigerating and Air-Conditioning Engineers (ASHRAE)
American Society of Mechanical Engineers (ASME)

SUMMARY OF QUALIFICATIONS

Mr. Bardales has 7+ years of experience in heating, ventilation, and air conditioning (HVAC) design. David has expertise in the areas of high-performance buildings such as schools (K-12) and colleges, to smaller building system design projects such as commercial, retail, office, businesses, and municipal buildings across the United States, including, but not limited, to Connecticut, Massachusetts, New York, New Hampshire, and others. As a Project Engineer at BL Companies, David's responsibilities include assisting Project Managers in developing project fees, schedules, and scope. Responsible for the daily running of assigned projects. Assist Project Managers in developing overriding project concepts and constraints. Design and manage projects using assigned staff.

RELEVANT EXPERIENCE

Stonington Middle School, Mystic, Connecticut
Served as Mechanical Engineer for the HVAC design. Project responsibilities included load calculations, coordinating with local codes, mechanical system design of entire building, and production of construction drawings and specifications. Firm of Record: BL Companies.

Scofield Magnet Middle School, Stamford, Connecticut
Served as Mechanical Engineer for the HVAC design. Project responsibilities included load calculations, coordinating with local codes, mechanical system design of entire building, and production of construction drawings and specifications. Firm of Record: BL Companies.

Rocky Hill Intermediate School, Rocky Hill, Connecticut
Served as Mechanical Engineer for the HVAC design of this building. Project responsibilities included load calculations, coordinating with local codes, mechanical system design of entire building, and production of construction drawings and specifications.

Ann Antolini Elementary School, New Hartford, Connecticut
Served as Mechanical Engineer for the HVAC design of this building. Project responsibilities included load calculations, coordinating with local codes, mechanical system design of entire building, and production of construction drawings and specifications.

High Road School of Wallingford, Wallingford, Connecticut
Served as Mechanical Engineer for the HVAC design of this building. Project responsibilities included load calculations, coordinating with local codes, mechanical system design of entire building, and production of construction drawings and specifications.

Moylan Montessori School, Hartford, Connecticut
Served as Mechanical Engineer for the HVAC design of this building. Project responsibilities included load calculations, coordinating with local codes, mechanical system design of entire building, and production of construction drawings and specifications.

BL Companies

Wilderness School, East Hartland, Connecticut
Served as Mechanical Engineer for the HVAC design of this building. Project responsibilities included load calculations, coordinating with local codes, mechanical system design of entire building, and production of construction drawings and specifications.

CREC Arts Middle School, Bloomfield, Connecticut
Served as Mechanical Engineer for the HVAC design of this building. Project responsibilities included load calculations, coordinating with local codes, mechanical system design of entire building, and production of construction drawings and specifications.

North Stonington High School & Middle School, North Stonington, Connecticut
Served as Mechanical Engineer for the HVAC design of this building. Project responsibilities included load calculations, coordinating with local codes, mechanical system design of entire building, and production of construction drawings and specifications.

North Stonington Elementary School, North Stonington, Connecticut
Served as Mechanical Engineer for the HVAC design of this building. Project responsibilities included load calculations, coordinating with local codes, mechanical system design of entire building, and production of construction drawings and specifications.

Newington High School, Newington, Connecticut
Served as Mechanical Engineer for the HVAC design of this building. Project responsibilities included load calculations, coordinating with local codes, mechanical system design of entire building, and production of construction drawings and specifications. Design services were completed in 2015. Firm of Record: RZ Design Associates, Inc.

Choate Rosemary Hall, Quantrel Building, Wallingford, Connecticut
Served as Mechanical Engineer for the HVAC design of this building. Project responsibilities included load calculations, coordinating with local codes, mechanical system design of entire building, and production of construction drawings and specifications.

Choate Rosemary Hall, Clinton Knight Building, Wallingford, Connecticut
Served as Mechanical Engineer for the HVAC design of this building. Project responsibilities included load calculations, coordinating with local codes, mechanical system design of entire building, and production of construction drawings and specifications.

Southern Connecticut State University, Lyman Center, New Haven, Connecticut
Served as Mechanical Engineer for the HVAC design of this building. Project responsibilities included load calculations, coordinating with local codes, mechanical system design of entire building, and production of construction drawings and specifications.

UCONN, Bishop Center First Floor Fine Arts, Storrs, Connecticut
Served as Mechanical Engineer for the HVAC design of this building. Project responsibilities included load calculations, coordinating with local codes, mechanical system design of entire building, and production of construction drawings and specifications.

UCONN, Biology Physics Building, Storrs, Connecticut
Served as Mechanical Engineer for the HVAC design of this building. Project responsibilities included load calculations, coordinating with local codes, mechanical system design of entire building, and production of construction drawings and specifications.

Smith College, College Hall, Northampton, Massachusetts
Served as Mechanical Engineer for the HVAC design of this building. Project responsibilities included load calculations, coordinating with local codes, mechanical system design of entire building, and production of construction drawings and specifications.

PHILIP ANDERSON

RESUME

PROJECT ROLE
Project Engineer

EDUCATION
Bachelor of Science in Mechanical Engineering, University of Connecticut, 2018

SUMMARY OF QUALIFICATIONS

Mr. Anderson has over 4 years of experience in HVAC engineering design. He has expertise in the areas of K-12 schools, municipal projects, public housing, and industrial warehouses. As a Project Engineer at BL Companies, Mr. Anderson's responsibilities include verifying existing project conditions, preparing construction drawings, designing mechanical systems in conformity with client requirements and engineering standards, coordinating design with other trades, implementing code analysis, and assisting in construction administration.

RELEVANT EXPERIENCE

Cutler Elementary School, Groton, Connecticut
Served as a Mechanical Engineer for the design of a new 75,000 square foot school employing four-pipe chilled beam systems. Project responsibilities included HVAC load calculations, the design of boiler and chiller systems, new piping layouts, HVAC equipment selections, new ductwork and VAV layouts, generating miscellaneous details, schedules, and diagrams, preparing construction documents, and coordination with all trades involved with design.

West Side Elementary School, Groton, Connecticut
Served as a Mechanical Engineer for the design of a new 76,000 square foot school employing four-pipe chilled beam systems. Project responsibilities included HVAC load calculations, the design of boiler and chiller systems, new piping layouts, HVAC equipment selections, new ductwork and VAV layouts, generating miscellaneous details, schedules, and diagrams, preparing construction documents, and coordination with all trades involved with design.

Bennie Dover Jackson Middle School, New London, Connecticut
Served as a Mechanical Engineer for the renovation and expansion of a 140,000 square foot school. Project responsibilities included surveying existing conditions, HVAC load calculations, the design of DOAS and VRF systems, new piping layouts, HVAC equipment selections, new ductwork and VAV layouts, generating miscellaneous details, schedules, and diagrams, preparing demolition and construction documents, and coordination with all trades involved with design.

Melissa Jones Elementary School, Guilford, Connecticut
Served as a Mechanical Engineer for the replacement of existing HVAC units. Project responsibilities included surveying existing conditions, specifying new HVAC equipment, generating miscellaneous details, schedules, and diagrams, preparing demolition and construction documents, coordination with all trades involved with design, as well as construction administration.

Ponus Ridge Middle School, Norwalk, Connecticut
Served as a Mechanical Engineer for the renovation and expansion of a 141,000 square foot school. Project responsibilities included surveying existing conditions, HVAC load calculations, the design of DOAS and VRF systems, new piping layouts, HVAC equipment selections, new ductwork layouts, generating miscellaneous details, schedules, and diagrams, preparing demolition and construction documents, and coordination with all trades involved with design.

BL Companies

Ralph M. T. Johnson Elementary School, Bethel, Connecticut
Served as a Mechanical Engineer for the renovation and expansion of an 89,000 square foot school. Project responsibilities included HVAC load calculations, equipment selections, new ductwork layouts, generating miscellaneous details, schedules, and diagrams, preparing demolition and construction documents, and coordination with all trades involved with design.

Anna. H. Rockwell Elementary School, Bethel, Connecticut
Served as a Mechanical Engineer for the renovation of an 89,000 square foot school. Project responsibilities included HVAC load calculations, equipment selections, new ductwork layouts, generating miscellaneous details, schedules, and diagrams, preparing demolition and construction documents, and coordination with all trades involved with design.

Waterford Town Hall, Waterford, Connecticut
Served as a Mechanical Engineer for existing facility renovations. Project responsibilities included the design of DOAS and VRF systems, new ductwork layouts, generating miscellaneous details, schedules, and diagrams, preparing demolition and construction documents, and coordination with all trades involved with design. Design services were completed in 2018.
Firm of Record: DTC, Inc.

Dixwell Community Center "Q-House", Hamden, Connecticut
Served as a Mechanical Engineer for the design of a new public community center. Project responsibilities included HVAC load calculations, the design of DOAS and VRF systems, new ductwork and VAV layouts, generating miscellaneous details, schedules, and diagrams, preparing construction documents, and coordination with all trades involved with design. Design services were completed in 2018.
Firm of Record: DTC, Inc.

Ralph Walker Skating Rink and Warming Hut, New Haven, Connecticut
Served as a Mechanical Engineer for the renovation and expansion of existing facilities. Project responsibilities included HVAC load calculations, the design of DOAS, VRF, and ERV systems, new piping layouts, HVAC equipment selections, new ductwork layouts, generating miscellaneous details, schedules, and diagrams, preparing demolition and construction documents, and coordination with all trades involved with design. Design services were completed in 2019.
Firm of Record: DTC, Inc.

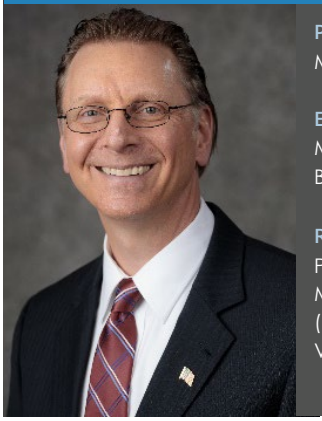
Mary D. Stone & Julia Bancroft Apartments, Auburn, Massachusetts
Served as a Mechanical Engineer for the transformation of two historic school buildings into apartment complexes. Project responsibilities included HVAC load calculations, the design of VRF and ERV systems, HVAC equipment selections, new ductwork layouts, generating miscellaneous details, schedules, and diagrams, preparing demolition and construction documents, and coordination with all trades involved with design. Design services were ongoing.
Firm of Record: DTC, Inc.

Lyman Terrace Housing, Holyoke, Massachusetts
Served as a Mechanical Engineer for the design of a new residential community center. Project responsibilities included HVAC load calculations, the design of ERV and VRF systems, new piping layouts, HVAC equipment selections, new ductwork layouts, generating miscellaneous details, schedules, and diagrams, preparing construction documents, and coordination with all trades involved with design. Design services were completed in 2019.
Firm of Record: DTC, Inc.

Farnam Courts Housing, New Haven, Connecticut
Served as a Mechanical Engineer for the design of a new residential community center. Project responsibilities included HVAC load calculations, the design of ERV and VRF systems, new piping layouts, HVAC equipment selections, new ductwork layouts, generating miscellaneous details, schedules, and diagrams, preparing construction documents, and coordination with all trades involved with design. services were completed in 2018.
Firm of Record: DTC, Inc.

MICHAEL BENSH, PE

RESUME



PROJECT ROLE
Manager MEP - Principal Electrical Engineer

EDUCATION
Master of Business Administration, University of Connecticut, 2000
Bachelor of Science in Electrical Engineering, New Jersey Institute of Technology, 1992

REGISTRATION
Professional Engineer: Arizona, California (Electrical), Colorado, Delaware, Georgia, Iowa, Kansas, Maryland, Massachusetts (Electrical), Missouri, Nevada (Electrical), New Hampshire, New Jersey (Electrical), North Carolina, Oklahoma, Rhode Island (Electrical), South Carolina, Tennessee, Texas, Vermont (Electrical)

SUMMARY OF QUALIFICATIONS

Michael Bensh has over 30 years of experience in electrical systems design for numerous building types including warehouses, office buildings, schools, self-storage facilities, hospitals, industrial facilities, retail properties, apartment buildings (dwelling units), manufacturing facilities, data centers, etc. Michael has expertise in all areas of building electrical design including: electrical service sizing/calculations; medium-voltage, pad-mounted distribution switches/fuses; radial-fed, medium-voltage primary, pad-mounted, liquid-cooled transformers; underground infrastructure and duct-bank systems; 480V and 208V, 3ph-4w electrical service-entrance switchboards (multiple services per building in many cases); life-safety and optional load stand-by systems including generator(s), ATS(s), and any required distribution panels; legally-required stand-by systems including generator(s), ATS(s), and motor control center(s) for smoke exhaust and stair pressurization systems; three-phase, central battery inverter systems for life-safety egress lighting; power distribution; hydrogen refueling stations for the forklifts (Class I, Division 2 areas); high-bay, LED lighting with photo-metrics calculations; electrical busway systems for HVAC units and other mechanical equipment power; receptacle and lighting branch circuitry; lighting controls incorporating day-light harvesting, occupancy sensors, and other energy efficient controls; MDF room power and grounding; lightning protection; material handling equipment power; voltage drop calculations for feeders and branch circuits; available short-circuit current calculations for all equipment; emergency egress lighting to meet NFPA 101 Life-Safety code requirements; grounding; fire alarm systems; other low-voltage systems/cabling; site lighting (parking lot, pathway, roadway, building accent), writing all required division 26 and 28 specifications; and construction administration support.

Prior to becoming a degreed engineer, Michael received extensive hands-on training working as an electrical contractor throughout the Northeast. This experience has provided him with the ability to visualize how buildings are constructed while in the design process, to help limit conflicts in the field and constructability issues.
As Principal Electrical Engineer at BL Companies, Michael's duties include: electrical power and lighting design; supporting HVAC and P/FP engineers; fire alarm design; proposal writing; specification writing; interview participation; construction administration; the supervision of engineers and designer's daily activities; and estimating.

RELEVANT EXPERIENCE

Longfellow Elementary School, Bridgeport, Connecticut
Served as electrical engineer for the design/construction of a 76,000 SF elementary school within the city limits. The design included: power, lighting, and low-voltage systems throughout the building; a 500kW generator; a 1000A, 480V, 3ph-4w electrical service; theatrical lighting and audio systems for the cafetorium; site lighting; a fire pump; etc. Project responsibilities included all aspects of electrical engineering/design.

John F. Kennedy Middle School, Southington, Connecticut
Served as electrical engineer for the like-new renovation and expansion of the 106,000 SF middle school plus several small additions including new media center and shop wings totaling 34,000 square feet. The design included: all new power, lighting, and low-voltage systems throughout the building; new 500kW generator; new 2000A, 480V, 3ph-4w electrical service; new theatrical lighting and audio systems; site lighting; etc. Project responsibilities included all aspects of electrical engineering/design.

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Joseph A. DePaolo Middle School, Southington, Connecticut
Served as electrical engineer for the like-new renovation of the 106,000 SF middle school plus several small additions including new media center and shop wings totaling 34,000 square feet. The design included: all new power, lighting, and low-voltage systems throughout the building; new 500kW generator; new 2000A, 480V, 3ph-4w electrical service; new theatrical lighting and audio systems; site lighting; etc. Project responsibilities included all aspects of electrical engineering/design.

Achievement First, Amistad High School, New Haven, Connecticut
Served as electrical engineer for the design/construction of a new 80,000 SF college preparatory public charter school within the city limits. The project included includes instruction space, staff space, and assembly / cafeteria / gymnasium space as well as on-site parking and outdoor recreation amenities. The design included: power, lighting, and low-voltage systems throughout the building; mechanical and plumbing equipment feeders; a new 480V, 3ph-4w electrical service; site lighting; etc. Project responsibilities included all aspects of electrical engineering/design.

East Hartford Elementary Magnet School, Glastonbury, Connecticut
Served as electrical engineer for the design/construction of the new $25 million, 66,000 SF inter-district K-5 magnet school serving 420 students. The project consists of a new one-story elementary school with a 40-foot diameter planetarium. The design included: power, lighting, and low-voltage systems throughout the building; mechanical and plumbing equipment feeders; a new 480V, 3ph-4w electrical service; site lighting; etc. Project responsibilities included all aspects of electrical engineering/design.

Connecticut River Academy at Goodwin College, East Hartford, Connecticut
Served as electrical engineer for the design/construction of a 103,000 SF magnet high school along the banks of the Connecticut River at a cost of $57 million. The project consists of a new one-story elementary school with a 40-foot diameter planetarium. The design included: power, lighting, and low-voltage systems throughout the building; mechanical and plumbing equipment feeders; a new 480V, 3ph-4w electrical service; site lighting; etc. Project responsibilities included all aspects of electrical engineering/design.

Norwalk Community College Health & Science Center, Norwalk, Connecticut
Served as electrical engineer for the design/construction of the new $20 million, 48,000 SF science wing and renovation of 30,000 SF of existing classroom spaces. The 55,000 s/f brick and glass structure consist of three levels of laboratory, classroom, studio, and office space and houses cutting edge technology for the Sciences, Nursing, Allied Health, Fitness & Exercise programs, as well as the Wellness Center. The design included: power, lighting, and low-voltage systems throughout the building; mechanical and plumbing equipment feeders; a new 480V, 3ph-4w electrical service; site lighting; etc. Project responsibilities included all aspects of electrical engineering/design.

St. Luke's School, New Canaan, Connecticut
Served as electrical engineer and project manager for the new 30,000 SF athletic center. It provides the school with a world-class athletic facility including four (4) international sized squash courts, a multi-purpose room, and a fitness room. Also, a main basketball court has two retractable batting cages and a folding curtain which allows the cross courts to be used simultaneously. There is a total of 600 seats for spectators. The design included: all new power, lighting, and low-voltage systems throughout the building; new 1600A, 208V, 3ph-4w electrical service; support of HVAC and plumbing equipment; site lighting; etc. Project responsibilities included all aspects of electrical engineering/design and project management.

St. Luke's School, New Canaan, Connecticut
Served as electrical engineer and project manager for the renovation of the performing art center. The project included new construction within the existing building envelope and state-of-the-art theatrical lighting and audio systems. The design included: all new power, lighting and low-voltage systems throughout the building; a new 1200A, 208V feeder and distribution panel; support of HVAC and plumbing equipment; a new fire pump; a new standby generator; coordination with the audio/visual consultant; etc. Project responsibilities included all aspects of electrical engineering/design and project management.

BRIAN POELTL, PE

RESUME

PROJECT ROLE
Senior Engineer I

EDUCATION
Bachelor of Science in Electrical Engineering, University of Connecticut, 2009

REGISTRATION
Professional Engineer: Connecticut (2022)

SUMMARY OF QUALIFICATIONS

Mr. Poeltl has 8 years of experience in electrical engineering design. Brian has expertise in the areas of high-performance buildings such as elementary and middle schools, community and senior centers, and large multi-story apartment buildings. He also has experience in designing solar PV systems which have been incorporated in large retail commercial buildings and small municipal buildings, as well as stand-alone ground mounted systems. Brian has experience in Electric Vehicle charger fleet design. As a Senior Engineer at BL Companies, Brian's responsibilities include electrical building systems design, detailed design calculations, and assisting Senior Project Engineers.

RELEVANT EXPERIENCE

Holland Hill Elementary School, Fairfield, Connecticut
Served as electrical engineer for a 55,000 square foot renovation and expansion. Project responsibilities included lighting layout and circuiting, lighting controls layout and details, equipment and receptacle power, fire alarm system design, generator design, riser diagram design, and the electrical system design of entire building. Other responsibilities included production of electrical specifications and coordination with local utility companies and codes.

Cutler Elementary School, Groton, Connecticut
Served as electrical engineer for a 75,000 square foot new elementary school. Project responsibilities included lighting layout and circuiting, lighting controls layout and details, equipment and receptacle power, fire alarm system design, generator design, riser diagram design, and the electrical system design of entire building. Other responsibilities included production of electrical specifications and coordination with local utility companies and codes.

West Side Elementary School, Groton, Connecticut
Served as electrical engineer for a 76,000 square foot new elementary school. Project responsibilities included lighting layout and circuiting, lighting controls layout and details, equipment and receptacle power, fire alarm system design, generator design, riser diagram design, and the electrical system design of entire building. Other responsibilities included production of electrical specifications and coordination with local utility companies and codes.

Ponus Ridge Middle School, Norwalk, Connecticut
Served as electrical engineer for a 141,000 square foot renovation and addition. Project responsibilities included lighting layout and circuiting, lighting controls layout and details, equipment and receptacle power, fire alarm system design, generator design, riser diagram design, and the electrical system design of entire building. Other responsibilities included production of electrical specifications and coordination with local utility companies and codes.

Ralph M. T. Johnson Elementary School, Bethel, Connecticut
Served as electrical engineer for an 89,000 square foot renovation and expansion. Project responsibilities included lighting layout and circuiting, lighting controls layout and details, equipment and receptacle power, fire alarm system design, generator design, riser diagram design, and the electrical system design of entire building. Other responsibilities included production of electrical specifications and coordination with local utility companies and codes.

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Anna. H. Rockwell Elementary School, Bethel, Connecticut
Served as electrical engineer for a 51,000 square foot renovation. Project responsibilities included lighting layout and circuiting, lighting controls layout and details, equipment and receptacle power, fire alarm system design, generator design, riser diagram design, and the electrical system design of entire building. Other responsibilities included production of electrical specifications and coordination with local utility companies and codes.

North Haven Middle School Renovation, North Haven, Connecticut
Served as electrical engineer for a 136,000 square foot renovation and expansion. Project responsibilities included lighting layout and circuiting, lighting controls layout and details, equipment and receptacle power, fire alarm system design, generator design, riser diagram design, and the electrical system design of entire building. Other responsibilities included production of electrical specifications and coordination with local utility companies and codes.

Newtown Community Center, Newtown, Connecticut
Served as electrical engineer for a new 46,000 square foot community center and senior center. Project responsibilities included lighting layout and circuiting, lighting controls layout and details, equipment and receptacle power, fire alarm system design, generator design, riser diagram design, and the electrical system design of entire building. Other responsibilities included production of electrical specifications and coordination with local utility companies and codes.

Branford Community Center Renovation, Branford, Connecticut
Served as electrical engineer for the electrical design. Project responsibilities included lighting layout and circuiting, lighting controls layout and details, equipment and receptacle power, fire alarm system design, generator design, riser diagram design, and the electrical system design of entire building. Other responsibilities included production of electrical specifications and coordination with local utility companies and codes.

Farnam Courts Housing, New Haven, Connecticut
Served as electrical engineer for the electrical design. Project responsibilities included lighting layout and circuiting, lighting controls layout and details, equipment and receptacle power, fire alarm system design, generator design, riser diagram design, and the electrical system design for two buildings (5 stories) with a total of 96 low-income tenants and 3 retail spaces. Other responsibilities included production of electrical specifications and coordination with local utility companies and codes.

Meriden TOD Housing, Meriden, Connecticut
Served as electrical engineer for the electrical design. Project responsibilities included lighting layout and circuiting, lighting controls layout and details, equipment and receptacle power, fire alarm system design, generator design, riser diagram design, and the electrical system design of entire building. Other responsibilities included production of electrical specifications and coordination with local utility companies and codes.

Electric Vehicle Charging Sites – USA
Serves as lead design electrical engineer for eleven 2MW-5MW electric vehicle fleeting charging installations location in FL, MA, NC and NJ. Each site has between 150 and 400 chargers. Components included MV switchgear, loop-fed VFI transformers, Integrated power centers, and L2 and L3 EV chargers. Project responsibilities included all aspects of electrical engineering/design including panelboard and transformer sizing to reduce short-circuit current at charger, sizing switchboards and switchgear, sizing wire to fit in existing conduit systems, voltage drop calculations and available short-circuit current calculations.

Target and Walmart Rooftop Solar PV Systems, Various Stores in Connecticut, New York, New Jersey, and Maryland
Served as electrical engineer for rooftop PV system design. Project responsibilities included building evaluation, building interconnection and metering, riser diagrams, inverter sizing, equipment layouts, and entire system connections (over 20MW of solar PV installed). Other responsibilities included coordination with local utility companies and codes and commissioning of each system.

RAYMOND BJORKMAN

RESUME

PROJECT ROLE
Senior Engineer

EDUCATION
Porter and Chester Institute, Drafting and Design Certificate, 1975 to 1977

TRAINING
Confined Space Entry Initial Training (02/02/17)

SUMMARY OF QUALIFICATIONS

Mr. Bjorkman has over 40 years of experience in Plumbing and Fire Protection design and engineering. Mr. Bjorkman has expertise in the areas of Education, Retail, Industrial, Health Care and Construction Administration. As Senior Plumbing Engineer at BL Companies, Raymond's responsibilities include all aspects of plumbing and fire protection design engineering for various projects throughout the office, field investigation and construction administration.

RELEVANT EXPERIENCE

Longfellow Elementary School, Bridgeport, Connecticut
Served as Senior Plumbing Engineer for the design and construction for a 75,680 SF Pre-K to 8 school. Project responsibilities included the primarily design, specifications, field inspections and assisting in construction administration.

Achievement First, Amistad High School, New Haven, Connecticut
Served as Senior Plumbing Engineer for the design of from the ground up a new college preparatory public charter school. Project responsibilities included primarily design, field inspections and contract administration work.

Prospect Elementary School, Prospect, Connecticut
Served as Senior Plumbing Engineer for the design and construction for a new Pre-K to 8 school. Project responsibilities included the primarily design, specifications, field inspections and assisting in construction administration.

East Hartford Elementary Magnet School, Glastonbury, Connecticut
Served as Senior Plumbing Engineer for the design and construction of the new $25 million, 66,000 SF inter-district K-5 magnet school serving 420 students. Work included the design and construction of a new 100-seat planetarium, library, gymnasium, cafeteria, kitchen, classrooms, and utilities. In addition to the planetarium, this project was unique because it was partially built upon an existing mill foundation to help reduce costs and minimize the environmental impact. Project responsibilities included the primarily design, specifications, field inspections and assisting in construction administration.

Connecticut River Academy at Goodwin College, East Hartford, Connecticut
Served as Senior Plumbing Engineer for the design and construction for a 103,000 SF magnet high school along the banks of the Connecticut River at a cost of $57 million. Project responsibilities included the primarily design, specifications, field inspections and assisting in construction administration. In addition, special systems were designed into the project such as solar domestic hot water system and a rainwater reclamation system for flushing toilets and urinals.

Maloney High School, Meriden, Connecticut
Served as Senior Plumbing Engineer for the design of renovations and additions to the 270,000-square foot high school. Project responsibilities included primarily design, field inspections and coordination.

Connecticut Juvenile Training School, Middletown, Connecticut
Served as Senior Plumbing Engineer for the design and construction of a new $6 million, 14,000 SF, single-story academic building for incarcerated students. Responsibilities included primarily design, specifications, field inspections and assisting in construction administration services. Construction phase services involved.

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Norwalk Community College Health & Science Center, Norwalk, Connecticut
Served as Senior Plumbing Engineer for the design and construction of the new $20 million, 48,000 SF science building and renovation of 30,000 SF of existing classroom spaces. Responsibilities included primarily design, specifications, field inspections and assisting in construction administration. The project included the demolition of the existing gymnasium and the design and construction of state-of-the-art science and nurse training classrooms.

Three Rivers Community College, Norwich, Connecticut
Served as Senior Plumbing Engineer for the design and construction of $66 million, 300,000 SF school on the Norwich campus. The design involved the demolition of the existing high school building and the consolidation of the two remote college campuses into a single campus, including all site utilities and surface improvements. Work included the construction of a new three-story academic wing housing science, administrative, lecture and technical training spaces, construction of a new two-story library with faculty offices, construction of a new cafeteria and kitchen, and a new dedicated central utility plant. Work also included a like-new renovation of the existing classroom wings and gymnasiums. Responsibilities included primarily design, specifications, field inspections and assisting in construction administration services. Construction phase services involved significant interaction with the State of Connecticut, faculty, and staff.

Vaughn College of Aeronautics & Engineering, Flushing, New York
Served as Senior Plumbing Engineer for the design and construction of a new $15 million, 45,000 SF, and a three-story residence building for on-site housing of students. To accommodate commodity prices and time constraints, the building was designed with the use of precast-plank and masonry bearing walls, and to accommodate sub-surface conditions, the foundation system was designed using grade beams and steel H-piles. Responsibilities included primarily design, specifications, field inspections and assisting in Construction Administration services.

United States Merchant Marine Academy, Kings Point, New York
Served as Senior Plumbing Engineer for the design and renovation of six existing student dormitories and the associated dining facility. Responsibilities included primarily design, specifications, field inspections and assisting in construction administration. The project included the complete demolition and replacement of all interior finishes, electrical systems, plumbing and HVAC systems. The project also included the design and installation of a closed-loop geothermal system to accommodate all HVAC cooling and heating loads in the dormitory complex.

Rutgers University, Piscataway, New Jersey
Served as Senior Plumbing Engineer for the design of three multi-story dormitories with campus retail on ground level and a Central Utility Plant on the Livingston Campus. Project responsibilities included primarily design, field inspections and coordination.

Queens Hospital, Queens, New York
Served as Senior Plumbing Engineer for the additions and renovations to the Queens Hospital Physic ER addition, renovation of the present ER into a Trauma ER. The project was constructed in phases to allow the hospital to keep functioning. Project responsibilities included primarily design, field inspections and coordination. Under slab drainage system design and coordination with site/civil engineers.

FDNY, Manhattan, Queens, Bronx, Staten Island, New York
Served as Senior Plumbing Engineer for the design of renovations at various fire house locations throughout the boroughs of New York City with an emphasis on keeping the houses operational along with field inspections and shop drawings.

FedEx, Middletown, Connecticut
Served as Plumbing/Fire Protection Engineer for a new distribution hub in Middletown, Connecticut. Project responsibilities included load calculations, overall system design, and specifications. The building consisted of a large sorting area with 4 load wings, 3 story office area, and a maintenance building.

FedEx Ground Distribution Facility & Parking Garage, Maspeth, New York
Served as Plumbing/Fire Protection Engineer for the design of a proposed 120,000 sf FedEx Ground distribution facility, with five-story, 210-car precast concrete parking garage, in the Borough of Queens, New York City.

CHRISTEN ROBBINS, AIA, LEED AP, MBA

RESUME

PROJECT ROLE
Senior Project Manager

EDUCATION
Bachelor of Architecture, Roger Williams University, 2006
Master of Business Administration, Post University, 2021

REGISTRATION
Registered Architect: Connecticut (2022), Massachusetts (2022), New Jersey (2022)
Rhode Island (2011)

PROFESSIONAL MEMBERSHIPS
American Institute of Architects (AIA); NCARB; USGBC LEED AP BD+C

SUMMARY OF QUALIFICATIONS

Christen has 16 years of experience in Architecture and Project Management. Christen has expertise in the areas of multi-family, self-storage, retail, higher education, hospitality, healthcare, and commercial industries. As Project Manager at BL Companies, Christen's responsibilities include overseeing and managing the entire project delivery process to ensure a quality project is delivered meeting the Client's design requirements, on time and on budget. Christen also provides technical expertise and quality control reviews to provide coordinated and constructable documents.

RELEVANT EXPERIENCE

Blackstone Valley Regional Vocational Technical High School, Upton, Massachusetts
Served as Project Manager/Project Architect for the renovation of existing classrooms to accommodate a new-bio-technology program and modernize the chemistry classroom space. As a vocational school, the goal was to simulate a lab experience in the biotechnology program with a glass room, gowning area, and clean room, as well as two combination lab/lecture classrooms, approximately 3,500 SF. Project responsibilities included architectural services from concepting through construction.

East Greenwich School District, East Greenwich, Rhode Island
Served as Project Manager for facility assessments of all six public schools within the East Greenwich school district. The project included schematic design drawings to modify restrooms to be accessible and upgrade existing finishes, doors, and casework. Project responsibilities included coordination of the scope with completion of the drawings and outline specifications to provide a cost estimate to the Client.

Roger Williams University School of Engineering, Computing & Construction Management – Labs, Bristol, Rhode Island
Served as Project Manager/Project Architect for the construction of a 30,000 sf classroom and labs building to foster collaborative and hands-on learning. Project responsibilities included completion of the construction drawings and quality control review and oversight during construction. Responsibilities during construction included review of submittals, RFIs, change proposals, and cost impact, as well as site observations and reports.

Roger Williams University School of Engineering – Adaptive Reuse: Science Program, Bristol, Rhode Island
Served as Project Manager/Project Architect for the renovation of the existing engineering building to accommodate the expansion of the school's science program. The project included classroom designs to accommodate CORE Science, Physics, and a hands-on Design Lab for the Arts/Graphics program. Project responsibilities included interfacing with the user groups to develop the program and requirements, providing plan concepts, and then further developing one design. In addition, responsibilities included coordination with the Construction Manager to provide a cost estimate within the Client's budget. Design services were completed in 2020. Firm of Record: Brewster Thornton Group Architects

University of Rhode Island – Bliss Hall, Kingston, Rhode Island
Served as Project Manager/Project Architect for the design and construction of the Bliss Hall engineering building. The project included a complete interior renovation of 57,583 SF, preservation of the historic exterior, and an addition. Project

BL Companies

responsibilities included coordination with the client, partner-architect, and engineers for the interior renovation and historic preservation. Oversaw production of documents and developed construction details. Responsible for completing and coordinating LEED documentation.

University of Rhode Island – Food Science, Kingston, Rhode Island
Served as the Architecture project manager for the replacement of mechanical systems in the 16,000 square foot Food Science and Nutrition Research Center, which includes numerous research laboratories along with offices and other support spaces. Architectural team provided drawings and specifications for the repairs required to the building as a result of the mechanical modifications.

University of Rhode Island – Fine Arts Center, Kingston, Rhode Island
Served as Project Manager/Project Architect in partnership with the prim firm for the exterior renovation of the Fine Arts Center. The project included the cladding of the existing concrete walls with insulation and brick and replacement of the roof on the buildings to remain in preparation for the next phase. Project responsibilities included code assessment and specification writing for all architectural sections for the design documents. Construction administration services included submittal review and periodic site visits.

University of Rhode Island – On-Call Projects, Kingston, Rhode Island

Sycamore Lodge—Alton Jones, West Greenwich, Rhode Island
Served as Project Manager/Project Architect for the renovation of the exterior façade and roof deck at the conference center. The project included reconstruction of the exterior wall and new windows, replacement of rotting joists and traffic coating over the roof deck/balcony, and a new railing and gutter system. Responsibilities included the oversight of the construction drawings and execution of construction administration services.

Chaffee Hall—Dean's Suite, Kingston, Rhode Island
Served as Project Manager/Project Architect for the renovation of the office suite for the Dean of Arts and Sciences in the Chaffee Building. The project included renovation of the office layout, upgrade of finishes, and providing an identify and sense of arrival for the office suite. Responsible for construction administration services which included review of RFIs/submittals, change requests, and final punchlist.

Peckham Farms and Hart House, Kingston, Rhode Island
Served as Project Manager/Project Architect for the renovation of the buildings at Peckham Farms and Hart House for accessibility upgrades. The project included the renovation of bathrooms to be ADA compliant and the construction of a ramp on the exterior to provide accessible access at both buildings.

Community College of Rhode Island – Liston Campus: Atrium and Dining Renovation, Providence, Rhode Island
Served as Project Manager/Project Architect for the renovation of CCRI's dining and kitchen facilities at the Providence campus. The project included renovation to the 250 seats dining room within their main atrium with the incorporation of a video wall, redesign of the servery, and upgrades to the kitchen to support a new food concept. Project responsibilities included design concept, renderings, oversight of documents and consultants, and cost control to remain with the Client's budget. Held several coordination meetings with Client and their user groups, including students and faculty to incorporate a range of perspectives.

Johnson and Wales University – Grace Welcome Center, Harborside Campus, Providence, Rhode Island
Served as Job Captain for the design and construction of a new 7,700 sf welcome center for the campus. Project responsibilities included design and drafting of details for the building.

Johnson and Wales University – Guard Buildings, Harborside Campus, Providence, Rhode Island
Served as Project Architect for the design and construction of two guard buildings for the University's Harborside campus. Project responsibilities included design of details for customizing and applying exterior skin/brick to the exterior of the prefabricated guard buildings as well as oversight during construction.

COREY NARDONE, AIA

RESUME

PROJECT ROLE
Principal Architect

EDUCATION
Bachelor of Architecture, Virginia Polytechnic Institute and State University, 2000

REGISTRATION
Registered Architect: Connecticut (2011), District of Columbia (2021), Maine (2021), Maryland (2021), New Hampshire (2021), New Jersey (2022)

PROFESSIONAL MEMBERSHIPS
American Institute of Architects

SUMMARY OF QUALIFICATIONS

Mr. Nardone has 22 years of experience in a various mix of project types from industrial, commercial, educational, and private residential homes and developments. Mr. Nardone has expertise in the areas of client communications, preparation and supervision of construction documents and specifications, determining technical constraints ensuring designs conformed to applicable codes, coordinating and integrating civil, geotechnical, structural, mechanical, electrical, plumbing and fire protection systems, detailing, project coordination, preparation of cost estimates and construction administration. As Senior Architect at BL Companies, Mr. Nardone's responsibilities include Authoring and delivery of construction documents and serving as the primary contact a wide range of clients.

RELEVANT EXPERIENCE

Roton Middle School, Norwalk, Connecticut
Served as Project Architect for an expansion and alteration to the existing middle school. Alterations and additions included the design of a two-story addition housing cross corridor connectors. This allowed the schools circulation pattern to be complete on both floors. The work included direction of mechanical engineers to retrofit the existing school with new air handling units and a comprehensive window replacement for compliance with energy codes as part of the state of Connecticut's School Construction Grant Program. Coordination with the Department of Administrative services Office of School Construction Grants was required including review of the construction documenting process with the district as well as completing the paperwork required for the local municipality to receive state reimbursement.

Foran High School, Milford, Connecticut
Served as Project Architect for separate multi-phase projects completed over several years. Responsibilities included the expanding the footprint of the school, providing sprinkler protection throughout, window replacement, roof replacement, renovation of the fourth-floor science labs, replacement of the gymnasium flooring and bleachers, and relocation of the art suite into a small addition. This job culminated into a large main entry addition with a parking lot expansion which allowed the relocation of the main office from the first floor to the third while simultaneously allowing a full corridor circulation loop. Design and documenting the project was challenging because the existing building was three stories and built into a two-story sloping hill. This challenge was met with a significantly large retaining wall and stair which provided access and egress to three separate levels of parking including a new bus loop at the relocated main entrance.

Waterbury Alternative High School, Waterbury, Connecticut
Served as Project Architect for a 40,000 square foot Renovate as New educational facility that housed Waterbury Public School's Alternative Educational Program for troubled and displaced youth. The work included collaboration with another architect to provide a facility meeting the state's Renovate as New Guidelines for schools. This program required all spaces to be made fully accessible as well as the site. It also required all the systems, services, and infrastructure of the building as well as furniture, fixtures, and equipment to be certified by the Architect and Engineer of record to have a minimum lifespan of 20 years. The project included re-roofing, window replacement, alterations to the site for accessibility as well as a small stair addition and side entrance which also served as an exit to provide compliance of the existing second floor gymnasium.

BL Companies

Lewis Fox Middle School, Hartford, Connecticut
Served as Project Architect for a level 2 Alteration of and existing school for Achievement First a Charter School based out of New York City, who leases space throughout the state from city school districts such as Hartford, New Haven, and Bridgeport. This project involved alterations inside an existing middle school which included infilling an existing pool and creating subdivided classrooms and therefore a change of use. The project required in depth consultation of the CT IEBC code and direct review with State Fire Marshal and Building Official for compliance.

East Shore Middle School, Milford, Connecticut
Served as Senior Project Architect for an 80,000 square foot Expansion and Alteration to the existing middle school. The work included a rework of the entire site to incorporate a better bus drop off lane and parent drop off and parking as well as three separate substantially sized additions including expansion of the cafeteria, a new media center, and a new music suite. A considerable portion of the existing school building was renovated as well while students and staff occupied the building. Acoustics were a critical component of the design and close coordination and three-dimensional modeling of the spaces was performed as part of that process with an Acoustical Engineer.

West Shore Middle School, Milford, Connecticut
Served as Senior Project Architect for an 80,000 square foot Expansion and Alteration to the existing middle school. The work included minor work on the site to create a bus drop off lane and parking as well as two separate substantially sized additions. The existing gymnasium and stage were expanded, and a music suite added as one addition and the building received a new main entry. In seeking parity across the district, the existing school building was renovated to match the program, size, scope, and features of East Shore Middle School (Above) and was completed while occupied by students and staff.

Central High School, Bridgeport, Connecticut
Served as Senior Project Architect for a 375,000 square foot Renovate as New educational facility that houses one of Bridgeport Public School's three main high schools. This multi-phase, multi-year project was constructed under the state's Renovate as New Guidelines requiring all spaces to be made fully accessible. It also required all the systems, services, and infrastructure of the building as well as furniture, fixtures, and equipment to be certified by the Architect and Engineer of record to have a minimum lifespan of 20 years. The project included re-roofing, window replacement, and a significant overhaul of the complete site. Due to the high volume of walking students, the intent was to present a design which re-established the classic idea of a neighborhood school. Fields, parking, landscaping and site features were introduced reinforcing that theme of the 'Park City.' The building itself received four major additions, a media center, an auxiliary gymnasium complete with health suite, practice rooms, and gym storage which also served as a shell for temporary classrooms during construction, an expanded main entrance complete with an upgraded security vestibule and separate office which allowed full connectivity directly to the Bridgeport Police Department in the spirit of the new standards for school security that were in development at the time of construction, and an expansion of the existing kitchen with a new loading dock.

East Lyme High School, Niantic, Connecticut
Served as Project Architect for a reroofing and air conditioning project including addition of a cooling tower and chillers. Air conditioning was retrofitted through the existing high school, which required significant field coordination and regular reports to a public building committee. A state waiver process was required which allowed design of flat school roofs to be ¼" slope as opposed to state legislation at the time which required all reroof and new education projects to maintain a ½" slope.

Easter Seals Daycare Facility, Waterbury, Connecticut
Served as Job Captain for a new day care facility housing approximately 60 children. Responsibilities included coordinating closely with the American with Disabilities Act Accessibility Guidelines to ensure that the facility was fully accessible for Children of all ages for the Children's Academy program which was required to be accredited by the National Association for the Education of Young Children (NAEYC.)

TODD E. JOHNSON

RESUME

PROJECT ROLE
Job Captain

EDUCATION
Bachelor of Architecture, Wentworth Institute of Technology, 1997

SUMMARY OF QUALIFICATIONS

Mr. Johnson has 25 years of experience in Architecture in the residential, retail, educational and commercial markets. Specifically, he has been involved in providing design services associated with the design of residential, retail, educational and commercial facilities. He has expertise in the areas of design and document preparation. As a Job Captain at BL Companies, Mr. Johnson's responsibilities include designing, programming, and drafting and construction administration.

RELEVANT EXPERIENCE

New Haven Academy, New Haven, Connecticut – LEED Silver Equivalent
Serving as Project Architect, project management and construction administration for the renovate as new of New Haven Academy a 77,000-square foot magnet high school that will conform with the Connecticut High Performance Building Standards. The project is located on an urban site tight to the property line. Due to environmental issues and the goal of providing an energy efficient wall enclosure, the majority of the exterior walls are being removed and replaced with new cavity wall construction. The interior of the building underwent extensive renovations to meet the project's program within a tight footprint. Project responsibilities are planning, design, and construction documents and construction administration. The estimated budget for the project is $44 million.

New Fairfield High School, New Fairfield, Connecticut
Served as Project Architect during design and construction administration of Phase 1 of the additions and renovations to the existing 264,000 square foot middle and high school complex that houses grade six through eight and nine through 12, respectively. Project responsibilities included space planning and construction administration. Attended owner meetings and provided project close out.

Meeting House Elementary School, New Fairfield, Connecticut – LEED Silver Equivalent
Served as Project Architect for the renovation of the MHHS Elementary School. The project consisted of a full renovation of the existing elementary school in New Fairfield and the addition of a new fifth grade wing. The project included the demolition of an existing 12,650 square foot, single-story, butler-type building wing that has surpassed its useful life. Site circulation and parking was addressed including a new bus drop off loop, the creation of additional parking areas and improvements to the parent drop off lane. Project responsibilities included conceptual design, construction documents, State review process, and construction administration. The estimated budget for this project was $27.6 million. The project was completed in 2013 just over $1 million under budget.

New Fairfield High School, New Fairfield, Connecticut
Served as Project Architect. The project consisted of providing security upgrades to the main lobby. A new secure vestibule was designed. Project responsibilities included conceptual design, construction documents and construction administration. The estimated budget for the project was $250,000.

New Fairfield Middle School Media Center, New Fairfield, Connecticut
Served as Project Architect for a new 2,400 square foot media center created within the existing school through the adaption of some underutilized spaces. The project involved the demolition of the existing technology area to create the new media center. The work included all new finishes, new technology, stack areas, workroom and classroom space, and new mechanical and lighting systems. The estimated budget for the first phase of this project was $220,000.

BL Companies

New Fairfield High School, New Fairfield, Connecticut
Served as Project Architect. The project consisted of the renovation of the lower-level bathrooms. Project responsibilities included conceptual design, construction documents and construction administration.

Hinsdale School Code Compliance, Winchester, Connecticut
Served as Project Architect for an evaluation and implementation of required code improvements including the addition of a limited sprinkler system and replacement of fire rated doors and hardware, along with exterior egress and railing work. The project documents were completed under an accelerated schedule to provide the Client with a set of documents to address building official concerns. The estimated budget for the project was $100,000.

Melissa Jones Elementary School Window and Casework Replacement, Guilford, Connecticut
Served as Project Architect for this project. The project consists of replacing the existing wood windows throughout the school with new aluminum double thermally broken, insulated storefront windows. In addition, the casework in eight classrooms and fixed benches within the cafeteria were replaced. Project responsibilities included planning, conceptual design, construction documents and construction administration.

AW Cox Elementary School Window Replacement, Guilford, Connecticut
Serve as Project Architect for this project. The project consists of replacing existing windows and window wall systems with new aluminum double thermally broken storefront and aluminum thermally improved insulated windows. The renovation of the existing office includes security upgrades to main entrance. In addition, several metal doors, frames, and louvers will be replaced. Project responsibilities include planning, conceptual design, construction documents and construction administration.

Milford Academy Master Plan, Milford, Connecticut
Served as Senior Intern Architect for the master and space planning and building survey. Project responsibilities included coordinating a due diligence report for five buildings on site, master planning for the campus and providing documents from conceptual design to design development.

New London High School, Science Class Room Renovations, New London, Connecticut
Served as Senior Intern Architect for the renovation of the existing science classrooms for the New London High School. Project responsibilities included providing drawings from conceptual design through construction documents.

New London High School, Science Class Room Renovations, New London, Connecticut
Served as Senior Intern Architect for partial window replacement for the New London High School. Project responsibilities included providing drawings from conceptual design through construction documents.

Inter-district School for Arts and Communication (ISAAC) Magnet School, New London, Connecticut
Served as Senior Intern Architect for the renovation of an existing WMCA and converted office space to be reused as school space. Design also included reorganization of spaces, design, and roof replacement. Project responsibilities included drawing and designing the building from conceptual design through construction documents.

SCSU Health and Human Services Department Study, New Haven, Connecticut
Served as Project Architect for the Programing and Feasibility Study. The project includes the programing, department interviews and providing detail space requirement for the College of Health and Human Services at Southern Connecticut State University. A Feasibility study including a building assessment of the former gateway community college building located on Long Warf Drive in New Haven, Connecticut was part of the final deliverable.

UCONN – Phillips Communication Lab, Storrs, Connecticut.
Served as Project Architect for the renovation of the Phillips Communication Lab building at UCONN. The project consisted of evaluating the existing acoustical condition of the spaces within the building and provided construction documents to support necessary changes along with resolving pre-existing code issues. Project responsibilities included field verification of spaces, construction documents and construction administration.

CHRISTOPHER ALBINO, PE

RESUME

PROJECT ROLE
Manager of Structural Engineering, Principal

EDUCATION
Bachelor of Science in Civil Engineering, Rensselaer Polytechnic Institute, 1990

REGISTRATION
Professional Engineer: Alabama, Arkansas, Colorado, Connecticut, Delaware, District of Columbia, Florida, Georgia, Indiana, Kentucky, Maine, Maryland, Massachusetts, Michigan, Missouri, Nebraska, New Hampshire, New Jersey, New York, North Carolina, Ohio, Pennsylvania, Rhode Island, South Carolina, Tennessee, Texas, Vermont, Virginia, West Virginia, Wisconsin
Canada: Alberta, British Columbia, Ontario

PROFESSIONAL MEMBERSHIPS
Member of the Association of Professional Engineers and Geoscientists of Alberta, NCEES Record Holder, AISC, ASCE

SUMMARY OF QUALIFICATIONS

Mr. Albino is a Structural Engineer with more than 32 years of experience that covers a broad range of projects in the public and private sectors. He has been involved in the structural design of numerous retail, industrial, municipal and residential buildings. Additionally, Chris is experienced in project management, photovoltaic design, site design, roadway design and geotechnical investigations.

RELEVANT EXPERIENCE

Warde and Ludlowe High Schools Solar Installation, Fairfield, Connecticut
Served as Project Manager and Manager of Structural Engineering for the design of 500kW roof-mounted solar arrays on the roofs of these existing schools, which will be tied into the building's electrical panel. As part of the work, a structural analysis of the existing roof was performed, to verify adequate capacity to carry the additional weight of the solar panels. The system incorporates JA Solar panels on Ecolibrium ballasted solar racking and will include electronic monitoring and net metering for the utility company.

H.B. Flood Middle School, Stratford, Connecticut
Served as Manager of Structural Engineering for the installation of replacement mechanical equipment. The existing mechanical equipment was housed in several penthouse areas throughout the building, which was assessed and modified for the new equipment, and also included supports for new mechanical piping mounted on the existing roof. Investigative work included physical inspection of building structure in the vicinity, and a catalog of framing sizes and locations to be used in the design. Responsible for the structural design and preparation of construction documents, and was coordinated with the mechanical engineers, as well as the building maintenance personnel. Also, performed the structural shop drawing review and structural construction administration.

Hamden High School, Hamden, Connecticut
Served as Manager of Structural Engineering for the installation of replacement mechanical equipment. The existing mechanical supports were assessed and modified for the new equipment. Investigative work included physical inspection of building structure in the vicinity, and a catalog of framing sizes and locations to be used in the design. Responsible for the structural design and preparation of construction documents and was coordinated with the mechanical engineers. Also, performed the structural shop drawing review and structural construction administration.

Interdistrict School for Arts and Communication (ISAAC) Magnet School, New London, Connecticut
Served as Manager of Structural Engineering for the structural additions and alterations of an existing 80-year old office building in New London, CT, as part of a conversion to an arts and communications school. This multi-story building was originally wood joist and steel girder construction with multi-wythe brick walls with numerous additions, alterations and renovations over the years. Investigative work included physical inspection of entire building structure, and a catalog of the structural framing system, which was ongoing through the construction process as areas were uncovered. Responsible for structural design and preparing the construction drawings, depicting the proposed structural modifications, including strengthening of existing floors and walls, as well as new mechanical supports. Also, performed the structural shop drawing review and structural construction administration.

New Haven Board of Education, New Haven, Connecticut
Served as Project Engineer for the structural inspection of four schools in the City of New Haven. These multi-story masonry, steel and wood framed structures were between 50 and 100 years old. Work included physical inspection of entire building structure with interactions with building superintendents, and a report indicating conditions, life expectancies, deficiencies and recommended alterations, including cost estimates.

Academy High School, New Haven, Connecticut
Served as Manager of Structural Engineering for the structural design of an 80,000 SF renovate-as-new school. BL Companies provided multiple services in this project, including architectural, structural, and site engineering. The existing building was constructed in several phases with several different types of construction, with the majority of the exterior wall being removed for environmental reasons. New exterior enclosures of brick veneer with metal stud back-up are being utilized. Structural analysis and design for mechanical supports and miscellaneous alterations are also included in the scope of services.

Maloney High School – Temporary Structures, Meriden, Connecticut
Served as Manager of Structural Engineering and Structural Engineer for the design of a temporary egress stair and connector corridor as part of construction phasing by the Construction Manager. Responsible for the design and preparation of construction documents for the fire-treated wood framed stair and metal stud-framed elevated corridor, along with submitting Code Modifications to the Building Inspector.

Meeting House Hill School, New Fairfield, Connecticut
Served as Manager of Structural Engineering for the structural design of a 20,000 SF classroom addition and the renovation of the existing 100,000 SF school. BL Companies provided multiple services in this project, including architectural, structural, and site engineering. The steel-frame structure incorporated open-web bar joists and reinforced masonry shear walls. Exterior enclosures of brick veneer with reinforced masonry back-up were utilized. Construction Administration was also performed for this project.

Middlesex School, Darien, Connecticut
Served as Project Engineer for the renovations and additions to this school building. Performed both site inspection and structural design for this assignment.

University of Connecticut, Bronwell Building, Storrs, Connecticut
Served as Senior Structural Engineer for the structural design of additions and alterations to the existing engineering building on the UConn Campus. BL Companies also provided architectural, mechanical, electrical and plumbing design for this project.

University of Connecticut – Arjona Building, Storrs, Connecticut
Served as Manager of Structural Engineering for the analysis and design of alterations and mechanical supports to the existing classroom structure on the UConn campus as part of infrastructure upgrades. BL Companies was also the Architect and MEP Engineer for this project.

University of Connecticut, Atwater Building, Storrs, Connecticut
Served as Manager of Structural Engineering for the structural analysis of the existing floor of this laboratory building on the UConn Campus, as it pertained to supporting large water tanks for the Department of Pathobiology and Veterinary Science. The work included providing a floor plan identifying the areas of the proposed tanks, so as not to overload any part of the floor structure.

Fairfield University Combined Heat & Power Facility, Fairfield, Connecticut
Served as Manager of Structural Engineering for the structural design of a 3,500 SF building that houses industrial mechanical equipment. Responsible for coordinating staff for the structural design and preparation of construction documents for this multi-level steel-framed structure with reinforced exterior masonry walls. Foundations included multiple retaining walls, as well as large equipment bases subject to vibrations and torsional forces. Also, performed a structural quality assurance and control for the final construction documents, as well as coordinating staff for the structural shop drawing review and structural construction administration.

JOHN JENNEY, CCCA

RESUME

PROJECT ROLE
Senior Construction Manager

EDUCATION
Southern Connecticut State University, BS - Business Administration - 1991
University of New Haven, Mechanical Engineering

TRAINING
Confined Space Entry (2017)

PROFESSIONAL MEMBERSHIPS
Certified Construction Contract Administration (CCCA) - Construction Specifications Institute
Connecticut Building Congress - Board of Directors 2007-2020

SUMMARY OF QUALIFICATIONS

John has worked in the design and construction industry for the past 37 years, having experience with diverse types of construction including institutional, commercial, and industrial buildings, residential housing, manufacturing processes, mechanical systems, fire suppression systems, building controls and site work. John has expertise in the areas of building design, building construction, and construction contract administration, with a focus on the implementation of the design during the construction phase. Having previous experience as an Owner and Contractor, John is able to use that experience to work with the Client and Contractors to ensure the successful execution of the project from design through construction and closeout. As Senior Construction Coordinator at BL Companies, John works with the technical staff during the design phase to ensure that the final design package is complete and of the high quality that we strive for here at BL Companies. During construction, John is responsible for the administration of the construction contract from award through closeout, providing on-site review of the work to ensure that it conforms to the contract documents and is of the quality expected by the client.

Prior to joining BL Companies, John worked at Fletcher Thompson, Inc., an Architectural/Engineering Firm, as Principal and Manager of Construction Support Services where his responsibilities included oversite of construction support staff, interpretation and enforcement of contract documents, monitoring and maintaining quality control processes, and quality control review of construction documents. In addition, John provided construction phase support on multiple projects and third-party construction loan support to select clients. As Construction Support, John was responsible for construction phase interaction with the Contractor and Client on behalf of the design team, developing responses to Requests for Information, review of shop drawings in support of the technical staff, review of in-place work to ensure conformance to the Contract Documents and Building Code compliance, dispute resolution, and coordination of design support with outside consultants. Prior to serving as Manager of Construction Support Services, John served as a Senior Construction Support Specialist for five years, where he was responsible for construction phase design support and field work. Prior to his employment at Fletcher Thompson, John served as a Project Manager and Construction Coordinator in Facilities Engineering at Sikorsky Aircraft where he was responsible for the development of appropriations for capital project funding, procurement of outside consultants for Architectural and MEP design support, development of bid packages, monitoring and maintenance of project budgets, and monitoring of all construction activities to ensure conformance to the Contract Documents, Building Codes and corporate standards.

RELEVANT EXPERIENCE

Francis T. Maloney High School, Meriden, Connecticut
Served as Construction Administrator for the renovation and new additions at the 270,000 SF, $91 million Francis T. Maloney High School. Project responsibilities included the administration of the contract for construction on behalf of the City of Meriden and as design team representative during the construction phase of the project. Activities included the review and response to shop drawings and Requests for Information (RFI), review and certification/approval of Applications for Payment and Change Order Proposals, review and coordination of Owner initiated design changes, dispute resolution, review and acceptance of installed work, monitoring of the contractor's performance, attendance and participation at public Building Committee meetings, and attendance of regular meetings with the client, Construction Manager, sub-contractors and consultants to ensure timely and proper execution of the work. The project included the construction of a new 82,000 SF addition for new classrooms, science rooms, administrative offices, and utility spaces, as well as the demolition of the existing building down to structure and the like-new renovation of the remaining 188,000 SF of existing building.

BL Companies

Glastonbury – East Hartford Elementary Magnet School, Glastonbury, Connecticut
Served as Construction Administrator for design and construction of the new $25 million, 66,000 SF Interdistrict K-5 magnet school serving 420 students. Work included the design and construction of a new 100 seat planetarium, library, gymnasium, cafeteria, kitchen, classrooms and utilities. In addition to the planetarium, this project was unique because it was partially built upon an existing mill foundation to help reduce costs and minimize the environmental impact. Project responsibilities included the administration of the contract for construction on behalf of the City of Glastonbury and the Capitol Region Education Council (CREC) and as the design team representative for all construction phase activities.

Sterling Community Elementary School, Sterling, Connecticut
Served as Construction Administrator for the design and construction of a new $21 million, 82,300 SF, 530 students, Pre-K to 8 school and all related site development in the rural location. Responsibilities included the administration of the contract for construction on behalf of the Town of Sterling and as the design team representative for all construction phase activities. Activities included attendance at Building Committee meetings, as well as regular meetings with the client, construction manager and sub-contractors to ensure proper execution of the work.

Stonington High School, Stonington, Connecticut
Served as Construction Administrator for the $65 million renovations and new additions at the 174,000 SF, 786 student high school. Responsibilities included the administration of the contract for construction on behalf of the Owner and as the design team representative for all construction phase activities. The project involved the construction of a new 57,000 SF classroom addition and the like-new renovation of the existing 117,000 SF school, which included the construction of all new exterior walls, roof, interior walls, finishes, utilities, and reconfiguration of all site features and infrastructure.

Fairfield College Preparatory School – Xavier, Berchmans, Arrupe Halls and Brissette Athletic Center, Fairfield, Connecticut
Served as Construction Administrator for the design and construction associated with a multi-phase project to upgrade and expand the existing campus. Work included the design and construction of a new gymnasium and locker room addition, additions and renovations to Berchmans and Xavier Halls, renovation of the existing dining hall and kitchen, design and construction of a new two-story addition housing a new library, student life spaces, classrooms and support spaces, and the renovation of 104,000 SF of existing classroom and support spaces. Responsibilities included the administration of the contract for construction on behalf of the Owner and as the design team representative for all construction phase activities.

Regional Multicultural Magnet School, New London, Connecticut
Served as Construction Administrator for design and construction of a new 41,000 SF addition and historic renovation of 36,800 SF at the 475 student, K-5 magnet school. Work included the design and construction of the new addition, complete with classroom spaces, parking garage, cafeteria, kitchen and gymnasium, and renovations and historic preservation of the existing building. In addition to the historic preservation aspects of the project, this project was unique because of the topography and geotechnical aspects of the site overlooking the New London Harbor. Responsibilities included the administration of the contract for construction on behalf of the LEARN Regional Educational Service Center and as the design team representative for all construction phase activities.

Wexler-Grant Community Elementary School, New Haven, Connecticut
Served as Construction Administrator for the design and construction associated with the like-new renovation of the 92,000 SF, 600 students, K-8 school located in the Elm Haven area of New Haven. Responsibilities included the administration of the contract for construction on behalf of the City of New Haven and as the design team representative for all construction phase activities.

Wilton High School, Wilton, Connecticut
Served as Construction Administrator for the renovation of 300,000 SF of academic spaces and the construction of 91,000 SF of Auditorium, Cafeteria, Kitchen and classroom spaces. Work included the design and construction of a new 875 seat performing arts center. Responsibilities included the administration of the contract for construction on behalf of the Town of Wilton and as the design team representative for all construction phase activities.

RELEVANT EXPERIENCE & PROJECT EXAMPLES

RELEVANT PRIOR EXPERIENCE

HISTORY OF FIRM'S EXPERIENCE IN THE DESIGN OF BUILDING INFRASTRUCTURE

Over its 37 years, BL Companies has designed HVAC projects for municipal and educational facilities including:

- **Public Schools**: BL has designed HVAC, code, and energy upgrades for Public Schools in Connecticut including Ansonia, Coventry, Hamden, Stonington, and Stamford, and Waterbury. Additionally, BL has designed new construction, renovations and addition projects such as the Meeting House Hill Elementary School (addition and renovations), the Mary M. Hooker Environmental Magnet School (new construction), and the New Haven Academy School (renovate-as-new).

- **Community Spaces**: BL has design new construction, renovation and addition project as well as code, energy, and HVAC upgrades for community and public use projects including the Calendar House Senior Center (new construction), the Noah Webster Library (HVAC and boiler upgrades), and Hamden Country Day School (COVID Re-Opening Plan/ Recommendations Report).

- **Facility Assessments:** BL has provided equipment condition assessments, facility conditions assessments, and property condition assessments for Stonington High School (HVAC and Building Envelope Assessments), Coventry Public Schools (HVAC, Energy Efficiency, and Architectural Assessments), Guilford Public Schools (HVAC and Electrical Assessments), Connecticut DOT (MEP Assessments for all DOT buildings/ assets), and Connecticut Public Transit Authority (MEP Assessments, recommendations, and cost estimating for all public transit authority buildings).

- **Government and Judicial**: BL has designed new construction, renovations and addition projects as well as designed code, energy, and HVAC upgrades for projects such as the Litchfield Courthouse (Cooling Tower Study), New Haven Courthouse (Chiller Replacement), Stamford Judicial Parking Garage (new construction), Hartford City Hall (code, energy, and HVAC improvements), and Connecticut General Assembly (boiler plant replacement).

- **Regulatory Agencies**: BL Companies has worked with several key agencies on educational projects throughout Connecticut such as the CTDAS, Bureau of School Facilities/Office of School Construction Grants, and CTDEEP. BL assisted the Town of Coventry attain CTDAS grant funding for their energy improvement projects and submitted multiple projects through the BSF/OSCG including the Hamden High School HVAC upgrades project, Hebron Elementary Roof Replacement project, and Darcey School Roof Replacement project. BL also has experience designing projects to the CT High Performance Standards, having design multiple schools to the State standard including Meeting House Hill Elementary School and New Haven Academy.

RELEVANT PRIOR EXPERIENCE | Past Five Years

BL Companies has worked on thousands of projects in the last five years across all disciplines and office locations. For the sake of brevity, BL will not be providing a full "list of all clients served during the past five years" as requested in the RFP but has instead provided a sampling of relevant clients served below:

PROJECT NAME	CLIENT CONTACT
Mystic Middle School HVAC Design **Stonington, CT**	Stonington Public Schools Peter Anderson P.O. Box 479 Old Mystic, CT 06372 860.535.5056
Stamford High School Split AC Systems **Stamford, CT**	Stamford Public Schools Kevin McCarthy 888 Washington Boulevard, 5th Floor Stamford, CT 06904 475.333.1031
Stonington High School HVAC Evaluation **Stonington, CT**	Stonington Public Schools Peter Anderson P.O. Box 479 Old Mystic, CT 06372 860.535.5056

Stamford Public Schools – Multiple HVAC Projects **Stamford, CT**	Stamford Public Schools Kevin McCarthy 888 Washington Boulevard, 5th Floor Stamford, CT 06904 475.333.1031
Waterbury Schools Boiler & Chiller Replacements **Waterbury, CT**	Waterbury Public Schools Kevin McCaffery 236 Grand Street Waterbury, CT 06072 203.574.6747
CT Judicial Branch-New Haven Chiller Replacement **New Haven, CT**	State of Connecticut Judicial Branch Kevin McFarland 90 Washington Street Hartford, CT 06106 860.995.1213
Polson Middle School MEP Upgrades **Madison, CT**	Town of Madison William McMinn 8 Campus Drive Madison, CT 06443 203.245.5612
CT Judicial Branch - Bridgeport Courthouse Sidewalk **Bridgeport, CT**	State of Connecticut Judicial Branch Kevin McFarland 90 Washington Street Hartford, CT 06106 860.995.1213
CT Judicial Branch-Building Management Upgrades **Statewide, CT**	State of Connecticut Judicial Branch Kevin McFarland 90 Washington Street Hartford, CT 06106 860.995.1213
CT Judicial Branch—Litchfield County Cooling Tower Study **Torrington, CT**	State of Connecticut Judicial Branch Kevin McFarland 90 Washington Street Hartford, CT 06106 860.995.1213
Police Station Demolition **Stamford, CT**	City of Stamford Jeffrey Pardo 888 Washington Boulevard Stamford, CT 06905 203.977.5227

Mystic / Stonington Middle School

EXPERIENCE

BL Companies provided mechanical, electrical, and plumbing design services for the 85,000 square foot Mystic / Stonington Middle School. The scope of work included replacing heating-only roof-mounted air-handling units with Variable Refrigerant Flow (VRF) cassettes, Dedicated Outside Air Systems (DOAS), and a new boiler.

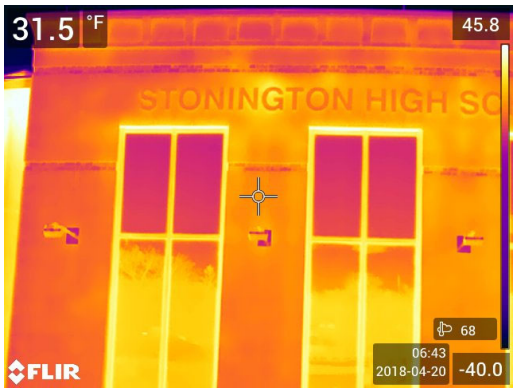
LOCATION
Stonington, Connecticut

SERVICES
MEP Engineering, Architecture, Structural Engineering

BL Companies

Stonington High School HVAC Evaluation

EXPERIENCE



BL Companies provided Mechanical, Retro-Commissioning, Building Energy Assessment, and Thermal Imaging services for Stonington Public Schools. The purpose of this study was to identify deficiencies related to the HVAC systems, Building Management System, and Building Thermal Envelope. A complete thermal scan of the building envelope was performed to identify thermal bridging, missing insulation, and uncontrolled air leakage. A full assessment of existing roof mounted HVAC equipment identified required service/ replacement parts needed. A full review of the Building Management system was completed to identify system deficiencies and establish specifications for modernization; including remote access.

The report detailed the existing conditions, clearly described the deficiencies, and provided specific recommendations for corrective action. These recommendations included detailed replacement parts lists, cost estimates, specifications for unit refurbishments, and alternates for new equipment in lieu of refurbishing the existing units.

BL Companies assisted the Town in generating a phased refurbishment/ replacement schedule to address critical deficiencies. This work enabled the Town to create an informed and comprehensive multi-year capital improvements and maintenance plan.

LOCATION
Stonington, Connecticut

SERVICES
Energy Efficiency, MEP Engineering, Cost Estimating

REFERENCE
Peter Anderson, Director of Operations & Facilities | Stonington Public Schools | peter.anderson@stoningtonschools.org | 860.535.5056

BL Companies

Stamford High School Split AC Systems

EXPERIENCE

The City of Stamford's Board of Education Facilities Team received a grant for the purchase of split system air conditioning equipment. The purpose of this equipment was to provide cooling and humidity control to a cardio exercise room, dance studio, and weight room. In conformance with City Engineering requirements BL Companies provided MEP Engineering services to support the installation of this equipment. Project included detailed investigation, construction document for MEP work to be self-performed by the facilities staff. The design work was completed in February 2021 with construction completed in Spring 2021.

LOCATION
Stamford, Connecticut

SERVICES
MEP Engineering

BL Companies

City of Stamford EXPERIENCE

BL Companies was selected by the City of Stamford and Viking Construction to provide on-call services for Stamford High School, Springdale Elementary School, and the Academy of Information Technology & Engineering. BL Companies provided specific services for each project which includes, interior and exterior design upgrades, code improvements, Mechanical, Electrical, Plumbing and Structural Engineering design services as well as Bid support and Construction Administration.

The High School project included design and on-site CA services of the existing multi-phased roof demolition project with selective interior renovations with structural engineering and code improvements to existing classrooms. We designed a new EPDM and Slate roof replacement system to meet energy and building code compliance. BL's services included coordinating with selective areas of the building which are closed for Hazardous Building Material Remediation and Removal.

BL's services at the Springdale Elementary School included site visits to determine existing conditions, code analysis, planning & design, upgrades to the existing interior restroom facilities to meet ADA, ANSI, and current code compliance. Services at this facility also included design for a new roof replacement system to meet energy code. The project for the Academy Information Technology & Engineering included on-site evaluation and research of the existing roof parapet construction, which required selective demolition and design to remedy the deficiencies identified.

BL's services at the Stamford High School include the Boiler and Domestic Hot Water Modernization project requiring the demolition of existing steam boilers, based on the owner's salvage requirements, and selective demolition of the hot water heating system. New high efficiency boilers and water heaters, variable speed pumps, and energy efficient controls were designed to maximize the energy efficiency while maintaining system performance. Work is currently underway and expected to be completed by September 2020. This project included coordination with Eversource to support utility incentive application and comprehensive project funding.

Permit, Construction drawings and specifications were produced for each project to facilitate competitive bidding.

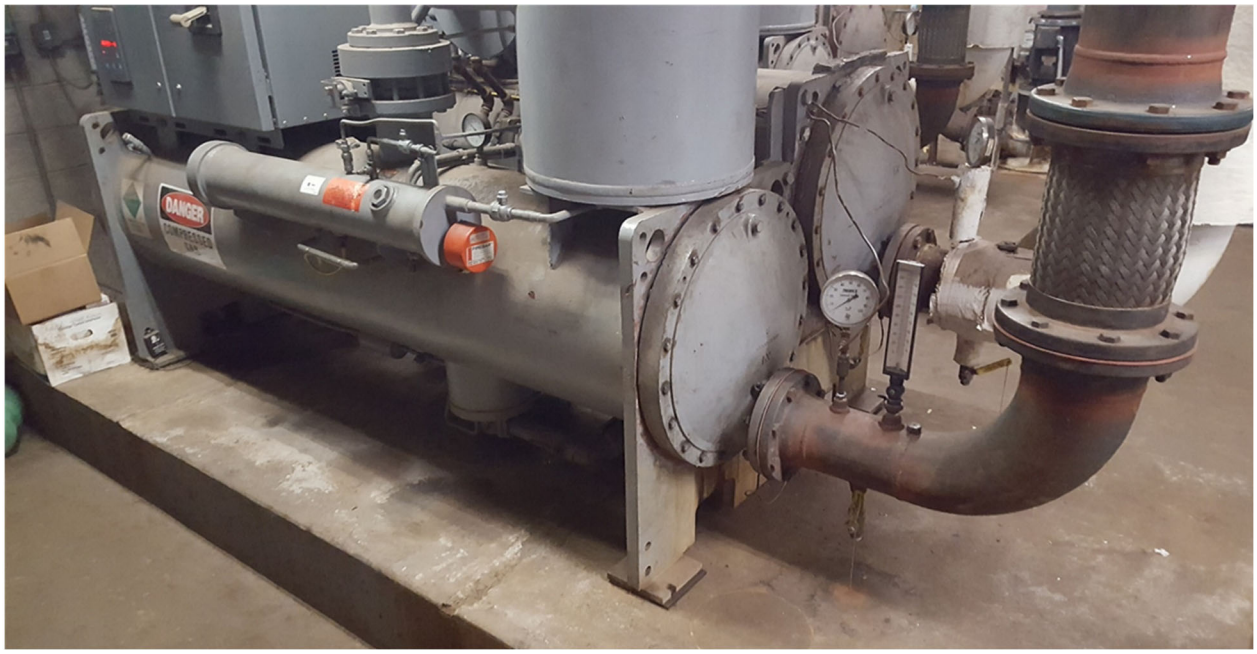
LOCATION
Stamford, Connecticut

SERVICES
MEP, Design, Code Analysis, Construction Administration

REFERENCE
John Perna, Facilities Manager | Stamford Public Schools | jperna@stamfordct.gov | 203.912.5248

BL Companies

Waterbury Schools EXPERIENCE



BL Companies provided mechanical, electrical, and plumbing engineering services to the City of Waterbury as part of an energy improvement program. Work included boiler replacements, chiller replacements, and control system upgrades for six of their school buildings – Wilby High School, North End Middle School, Crosby High School and Wallace Middle School Building, Kennedy High School, West Side Middle School, and Chase Building. The design was completed in the spring of 2017 and construction was completed in the fall of 2017.

Starting in 2020, BL Companies provided additional boiler and chiller replacement design services for schools including Walsh School, Hopeville School, Kingsbury School, Maloney High, and Tinker Elementary School.

LOCATION
Waterbury, Connecticut

SERVICES
Mechanical, Electrical, and Plumbing Engineering

BL Companies

Cutler Elementary School (Mystic River Magnet) EXPERIENCE

The Cutler Elementary School (Mystic River Magnet School) project was a new 75,000 square foot elementary school at a cost of $32 million. Project included mechanical, electrical, plumbing, and fire protection design and construction administration services. MEP/FP systems included a chilled water plant, hot water plant, modular rooftop air-handling units and dedicated outside air systems, chilled beams, domestic hot water plant, fire pump, and emergency generator.

LOCATION
Groton, Connecticut

SERVICES PROVIDED
Mechanical Engineering, Electrical Engineering, Plumbing Engineering, Commissioning Support, Construction Administration

PERSONAL EXPERIENCE
Jesse Vose PE, Rebecca Ford PE, Brian Poeltl PE, and Philip Anderson prior to joining BL Companies

BL Companies

West Side Elementary School (Thames River) EXPERIENCE

The West Side Elementary School (Thames River Magnet School) project was a new 76,000 square foot elementary school at a cost of $34 million. Project included mechanical, electrical, plumbing, and fire protection design and construction administration services. MEP/FP systems included a chilled water plant, hot water plant, modular rooftop air-handling units and dedicated outside air systems, chilled beams, domestic hot water plant, fire pump, and emergency generator.

LOCATION
Groton, Connecticut

SERVICES PROVIDED
Mechanical Engineering, Electrical Engineering, Plumbing Engineering, Commissioning Support, Construction Administration

PERSONAL EXPERIENCE
Jesse Vose PE, Rebecca Ford PE, Brian Poeltl PE, and Philip Anderson prior to joining BL Companies

BL Companies

Achievement First, Amistad High School EXPERIENCE

This project was a new 80,000 SF college preparatory public charter school within the city limits. The project included includes instruction space, staff space, and assembly / cafeteria / gymnasium space as well as on-site parking and outdoor recreation amenities. Achievement First Amistad High is a high-performing college preparatory public charter school serving students from three middle schools across New Haven and Bridgeport.

The air handling systems utilized by the project were central, rooftop air-handling units with chilled and hot water as the cooling and heating mediums. The conditioning was distributed throughout the building using a classic variable air volume distribution system. The chiller plant consisted of an outdoor, air-cooled, high-efficiency chiller with a variable-primary chilled water distribution system. The boiler plant consisted of multiple, high-efficient, condensing type boilers with a variable-primary hot water distribution system.

LOCATION
New Haven, Connecticut

SERVICES
Electrical Engineering, Mechanical Engineering, Plumbing Engineering, Commissioning, Construction Administration

PERSONAL EXPERIENCE (PRIOR TO JOINING BL COMPANIES)
Michael Bensh, PE; Jesse Vose, PE; Paul Scofield Sr.; Raymond Bjorkman; Robert Klein

BL Companies

Connecticut River Academy at Goodwin College EXPERIENCE

This project was a new 103,000 SF magnet high school along the banks of the Connecticut River at a cost of $57 million. The Connecticut River Academy's **sustainability theme** includes two areas of study. **Environmental science** provides students with opportunities to experience first-hand what environmental scientists and engineers actually do. Students learn about relevant environmental and social issues such as climate change and green energy in the school's state-of-the-art laboratories and on its very own research vessel. Thanks to CTRA's connection to Goodwin University, students can also explore how current advancements in technology will shape the future of our planet with **advanced manufacturing**. Working hands-on with cutting-edge equipment and high-tech machinery such as 3-D printers and robotics, students gain experience in technologies including advanced manufacturing, engineering, and logistics.

The air handling systems utilized by the project were central, rooftop air-handling units with chilled and hot water as the cooling and heating mediums. The conditioning was distributed throughout the building using a classic variable air volume distribution system. The chiller plant consisted of an outdoor, air-cooled, high-efficiency chiller with a variable-primary chilled water distribution system. The boiler plant consisted of multiple, high-efficient, condensing type boilers with a variable-primary hot water distribution system.

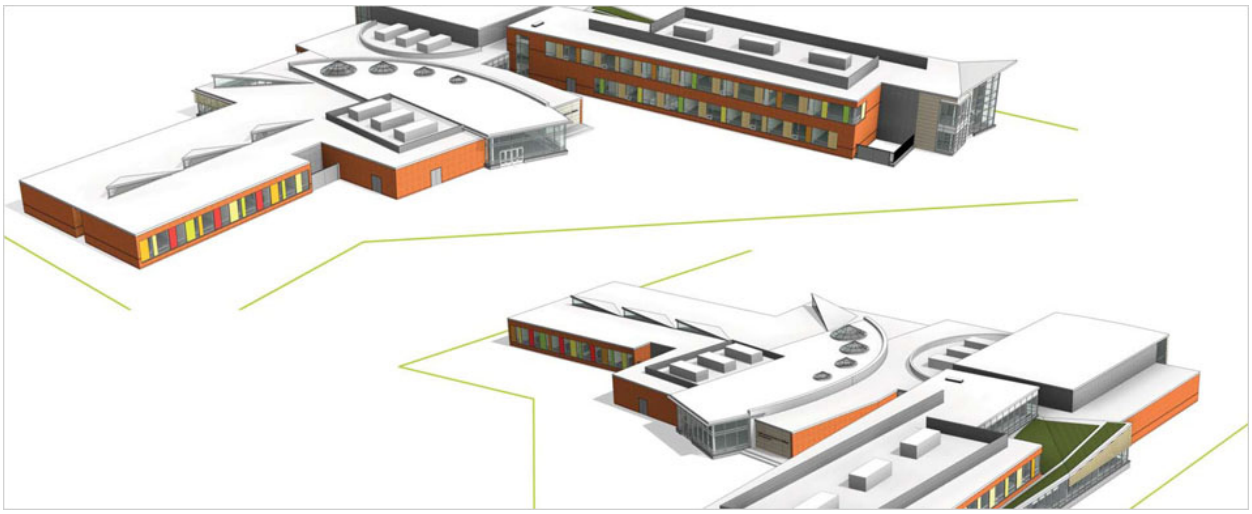
LOCATION
East Hartford, Connecticut

SERVICES
Electrical Engineering, Mechanical Engineering, Plumbing Engineering, Commissioning, Construction Administration

PERSONAL EXPERIENCE (PRIOR TO JOINING BL COMPANIES)
Michael Bensh, PE; Jesse Vose, PE; Paul Scofield Sr.; Raymond Bjorkman; Robert Klein

BL Companies

Longfellow Elementary School EXPERIENCE



This project was a 76,000 SF elementary school within the city limits. The new school features a full-size gymnasium, a technology and media center, a cafeteria, and outdoor play areas.

The air handling systems utilized by the project were central, rooftop air-handling units with chilled and hot water as the cooling and heating mediums. The conditioning was distributed throughout the building using a classic variable air volume distribution system. The chiller plant consisted of an outdoor, air-cooled, high-efficiency chiller with a variable-primary chilled water distribution system. The boiler plant consisted of multiple, high-efficient, condensing type boilers with a variable-primary hot water distribution system.

LOCATION
Bridgeport, Connecticut

SERVICES
Electrical Engineering, Mechanical Engineering, Plumbing Engineering, Commissioning, Construction Administration

PERSONAL EXPERIENCE (PRIOR TO JOINING BL COMPANIES)
Michael Bensh, PE; Jesse Vose, PE; Paul Scofield Sr.; Raymond Bjorkman; Robert Klein

BL Companies

Norwalk Community College Health & Science Center

EXPERIENCE

This project was a new $20 million, 48,000 SF science wing and renovation of 30,000 SF of existing classroom spaces. The 55,000 s/f brick and glass structure consist of three levels of laboratory, classroom, studio, and office space and houses cutting edge technology for the Sciences, Nursing, Allied Health, Fitness & Exercise programs, as well as the Wellness Center.

The air handling system utilized by the Science wing was a central, rooftop air-handling unit with chilled and hot water as the cooling and heating mediums. The system was a 100% outdoor air, once-through system. A complex variable volume air valve system was used to supply conditioned air, in conjunction with a variable volume laboratory exhaust fan system to maintain the spaces to specific air exchanges for proper space pressurization. The chiller plant consisted of an outdoor, air-cooled, high-efficiency chiller dedicated to the new air-handing unit. Hot water was provided via a new steam-to-hot water convertor system using high pressure steam from their existing steam generating plant. A variable volume hot water distribution system was used to deliver the hot water to be used by the air-handling unit, along with hot water heating terminals located throughout the new addition. The existing classroom renovations included the replacement of existing rooftop air-handers with new packaged DX rooftop air-handling units with steam heating. New variable air volume distribution system was provided throughout the area of scope to condition the individual classrooms.

LOCATION
Norwalk, Connecticut

SERVICES
Electrical Engineering, Mechanical Engineering, Plumbing Engineering, Commissioning, Construction Administration

PERSONAL EXPERIENCE (PRIOR TO JOINING BL COMPANIES)
Michael Bensh, PE; Jesse Vose, PE; Paul Scofield Sr.; Raymond Bjorkman

BL Companies

Town Hall and Public Schools - Energy Efficiency Study

EXPERIENCE

BL Companies completed an energy-efficiency study for five Coventry Schools and Town Hall. Each building's heating, cooling, ventilation, and control systems were evaluated for remaining life and energy efficiency. A life-cycle cost analysis was performed for each option, comparing first cost, energy saving, and associated maintenance cost of each recommendation.

Our services included mechanical design of new above ground tanks and level controls, preparation of specifications for the removal of the existing USTs, as well as environmental closeout of existing tanks with Connecticut DEEP. Natural gas conversions for existing oil fired appliances and energy efficient boiler replacements. Code improvements related to fire separations where the High School, Education Complex, and Middle School are connected. Hazardous building material identification, remediation specifications, oversight, and project closeout documentation.

BL Companies assisted the Town of Coventry with the DAS Grant Application to successfully obtain funding for this project. This included completion of project costs, state forms, project summaries, assisting town officials with grant requirements, and attendance of meetings with DAS officials. The Coventry High School asbestos abatement grant was approved for emergency funding outside of the traditional in-session timeline. The abatement was completed in June 2020.

LOCATION
Coventry, Connecticut

SERVICES
Architecture, MEP Engineering, Environmental, Construction Administration

BL Companies

APPROACH/METHODOLOGY

Per the Request for Qualifications, the intent of this project is to design air conditioning and ventilation systems for areas currently without these systems for each school. There are three (3) schools in the initial phase and a single school in the subsequent four (4) phases, for a total of seven (7) schools, plus the potential for two (2) additional schools.

This school is broken down into the following seven phases for each building site:

1. Preliminary Engineering and Design
2. Schematic Design
3. Design Development/Structural Eng
4. Construction Documents
5. Bidding Assistance
6. Construction Administration
7. Close-Out/Commissioning/Warranty

BL Companies is prepared to support these seven (7) phases and nine (9) buildings through the expected construction duration of 2-3-years from issuance of a purchase order for the first phase and an additional phase for each subsequent year starting in 2024.

BL Companies has the qualified staff available, with five (5) full MEP design teams capable of working on multiple buildings simultaneously, and is committed to providing this length of service. BL Companies also has qualified staff available for the architectural and structural aspects of these projects. It is our understanding that the commissioning will be by a third party contracted directly with the town and the design team needs to include the appropriate time for coordination and review with the commissioning team(s).

The following is a general concept of what BL Companies design scope will be based on the prescribed phases and will show our technical approach, methodology, and any specific tasks and activities. The following is the approach for a typical school.

Phase 1 - Preliminary Engineering and Design

- Gather and review all existing conditions, drawings, reports, and studies to familiarize the team with the building.
- Visit the building and perform a complete site investigation, reviewing the facility and the equipment.
- Review existing and future space needs with town.
- Determine how to make the building comply with the CT OSCG&R requirements, in addition to the CT High Performance Building Standards.
- The scope of work for all the buildings is currently contained to the buildings and not the site, we're excluding the preparation and submitting of work related to the building site, for variances, wetlands, storm water, flood.
- Meetings with the town and committees will be limited with up to two (2) meetings.

Phase 2 - Schematic Design

- New AC and Ventilation systems will be designed to comply with the CT High Performance Building standard. Present up to (3) schemes for review and selection.
- The schematic design will consist of a narrative, cost estimate, and proposed project timeline.
- Cost estimate will include projected hard and soft costs.
- Ensure compliance with the CT High Performance Building Standards.
- Meetings with the town and committees will be limited with up to two (2) meetings.

Phase 3 – Design Development

- Following the town's selection of the preferred option, the team will proceed with proceed producing a 50-60% drawing package.
- The Energy Modeling and Heat Load Calculations for equipment sizing and compliance to the CT High Performance Building Standards.
- Updated cost estimate based on the 50% documents.
- Coordinate and review documents with the commissioning agent.
- Perform an internal QA review with each discipline and full building walk-around.
- Meetings with the town and committees will be limited with up to two (2) meetings.

Phase 4 – Construction Documents

- Complete the construction documents, plans, and specification.
- Finalize the building energy model and compliance with CT High Performance Building Standards.
- Finalize cost estimate.
- Submitting of documents to the state for compliance with OSCG&R requirements.
- Grant applications assistance.
- Coordinate and review documents with the commissioning agen.t
- Perform an internal QA review with each discipline and full building walk-around.
- Meetings with the town and committees will be limited with up to two (2) meetings.

Phase 5 – Bidding Assistance

- Conduct a pre-bid walk-thru and briefing session.
- Prepare addenda, respond to bidders' questions, and issue clarifications as required.
- Assist with the evaluation and recommendation process.

Phase 6 – Construction

- Attend preconstruction meeting with selected General Contractor.
- Expected on-site construction time frame is anticipated running from May 15th to September 15th, for two (2) consecutive summers, for a total of eight (8) months of on-site construction duration. Tomlinson and Walter Fitzgerald Campus are anticipated to be completed in a single summer.
- Review product submittals, RFIs, and shop drawings.
    - Substitutions will be limited per the design documents.
    - Create and maintain submittal, RFI, and Change Order logs utilizing Procore.
    - Design team will provide support for a reasonable number of RFIs, submittals, and a final report review. The hourly breakout reflects our expected involvement.
- Review additional costs and change-orders and make recommendations.
- Review and recommend approval for all Contractor Applications for Payment.
- Attend progress meetings with the contractor.
    - Document and distribute meeting minutes.
    - Review progress of construction.
    - Review site for unacceptable and non-compliant installations.
    - Assist in resolutions.
    - Attending up to fourteen (14) job meetings each summer with up to 3 engineers/architects.
- Prepare regular field reports and observations for the building department.
    - Up to eight (8) reports per construction season.
- Coordinate, perform, and issue Punch-Lists from final walk-through.

    - To be performed once at the end of the constructions season.
- Commissioning of new equipment will be provided by an independent firm. Design team will provide support and final review of documents. Support will be limited to a reasonable number of comments, a single site visit, and a final report review.
    - The fee breakout reflects our limited expected involvement during this phase.
- Prepare and issue Certificate of Substantial Completion.
- Assist with obtaining the Certificate of Occupancy.

Phase 7 – Project Closeout

- Review all close out materials, including warranties, as-builts and O&M manuals.
- Review final releases of lien, release of surety, requestions for reduction in retainage and/or requests for final payments.
- Continue to provide support to Commissioning Agent.
- Assisting with troubleshooting and resolution will be limited.
- Issue required Final Affidavits.

EXCLUSIONS/SCOPE LIMITATIONS

- Heating plants, heating systems, and associated fuel systems.
- Energy modeling in the preliminary and schematic design phases.
- Geothermal design options due to increased construction and design costs.
- Sprinkler system work is limited to each building's scope of work area. Full design of sprinkler systems is included for Jennings ES, Dwight ES, and Walter Fitzgerald Campus.
- Site/civil work excluded except for new transformers and feeders as required for new electrical services.
- Architectural work is limited to spaces in each building that will require the addition of air conditioning and ventilation.
- Building envelope improvements.
- Security vestibules and related upgrades.
- Hazardous materials identification and removal.
- LEED certification

Project Plan: Osborn Hill Elementary School

Activity Duration

ACTIVITY	PLAN START	PLAN DURATION (MONTHS)	PERIODS																																					
			FEB 23	MAR 23	APR 23	MAY 23	JUN 23	JUL 23	AUG 23	SEP 23	OCT 23	NOV 23	DEC 23	JAN 24	FEB 24	MAR 24	APR 24	MAY 24	JUN 24	JUL 24	AUG 24	SEP 24	OCT 24	NOV 24	DEC 24	JAN 25	FEB 25	MAR 25	APR 25	MAY 25	JUN 25	JUL 25	AUG 25	SEP 25	OCT 25	NOV 25	DEC 25			
Preliminary Design	Feb-23	2																																						
Schematic Design	Apr-23	2																																						
Design Documents	Jun-23	2																																						
Construction Documents	Aug-23	2																																						
Bidding	Nov-23	2																																						
Construction Administration	Apr-24	6																																						
Construction Administration	Apr-25	6																																						
Close Out	Oct-25	3																																						

Project Plan: North Stratfield Elementary School

Activity Duration

ACTIVITY	PLAN START	PLAN DURATION (MONTHS)	PERIODS																																					
			FEB 23	MAR 23	APR 23	MAY 23	JUN 23	JUL 23	AUG 23	SEP 23	OCT 23	NOV 23	DEC 23	JAN 24	FEB 24	MAR 24	APR 24	MAY 24	JUN 24	JUL 24	AUG 24	SEP 24	OCT 24	NOV 24	DEC 24	JAN 25	FEB 25	MAR 25	APR 25	MAY 25	JUN 25	JUL 25	AUG 25	SEP 25	OCT 25	NOV 25	DEC 25			
Preliminary Design	Feb-23	2																																						
Schematic Design	Apr-23	2																																						
Design Documents	Jun-23	2																																						
Construction Documents	Aug-23	2																																						
Bidding	Nov-23	2																																						
Construction Administration	Apr-24	6																																						
Construction Administration	Apr-25	6																																						
Close Out	Oct-25	3																																						

Project Plan: Fairfield Woods Middle School

Activity Duration

ACTIVITY	PLAN START	PLAN DURATION (MONTHS)	PERIODS																																					
			FEB 23	MAR 23	APR 23	MAY 23	JUN 23	JUL 23	AUG 23	SEP 23	OCT 23	NOV 23	DEC 23	JAN 24	FEB 24	MAR 24	APR 24	MAY 24	JUN 24	JUL 24	AUG 24	SEP 24	OCT 24	NOV 24	DEC 24	JAN 25	FEB 25	MAR 25	APR 25	MAY 25	JUN 25	JUL 25	AUG 25	SEP 25	OCT 25	NOV 25	DEC 25			
Preliminary Design	Feb-23	2																																						
Schematic Design	Apr-23	2																																						
Design Documents	Jun-23	2																																						
Construction Documents	Aug-23	2																																						
Bidding	Nov-23	2																																						
Construction Administration	Apr-24	6																																						
Construction Administration	Apr-25	6																																						
Close Out	Oct-25	3																																						

Project Plan: Tomlinson Middle School

Activity Duration

ACTIVITY	PLAN START	PLAN DURATION (MONTHS)	PERIODS																																					
			FEB 24	MAR 24	APR 24	MAY 24	JUN 24	JUL 24	AUG 24	SEP 24	OCT 24	NOV 24	DEC 24	JAN 25	FEB 25	MAR 25	APR 25	MAY 25	JUN 25	JUL 25	AUG 25	SEP 25	OCT 25	NOV 25	DEC 25	JAN 26	FEB 26	MAR 26	APR 26	MAY 26	JUN 26	JUL 26	AUG 26	SEP 26	OCT 26	NOV 26	DEC 26			
Preliminary Design	Feb-24	2																																						
Schematic Design	Apr-24	2																																						
Design Documents	Jun-24	2																																						
Construction Documents	Aug-24	2																																						
Bidding	Nov-24	2																																						
Construction Administration	Apr-25	6																																						
Construction Administration	Apr-26	6																																						
Close Out	Oct-26	3																																						

Project Plan: Fairfield Ludlow High School

Activity Duration

ACTIVITY	PLAN START	PLAN DURATION (MONTHS)	PERIODS																																							
			FEB 24	MAR 24	APR 24	MAY 24	JUN 24	JUL 24	AUG 24	SEP 24	OCT 24	NOV 24	DEC 24	JAN 25	FEB 25	MAR 25	APR 25	MAY 25	JUN 25	JUL 25	AUG 25	SEP 25	OCT 25	NOV 25	DEC 25	JAN 26	FEB 26	MAR 26	APR 26	MAY 26	JUN 26	JUL 26	AUG 26	SEP 26	OCT 26	NOV 26	DEC 26					
Preliminary Design	Feb-24	2																																								
Schematic Design	Apr-24	2																																								
Design Documents	Jun-24	2																																								
Construction Documents	Aug-24	2																																								
Bidding	Nov-24	2																																								
Construction Administration	Apr-25	6																																								
Construction Administration	Apr-26	6																																								
Close Out	Oct-26	3																																								

Project Plan: Fairfield Warde High School

Activity Duration

ACTIVITY	PLAN START	PLAN DURATION (MONTHS)	PERIODS																																					
			FEB 25	MAR 25	APR 25	MAY 25	JUN 25	JUL 25	AUG 25	SEP 25	OCT 25	NOV 25	DEC 25	JAN 26	FEB 26	MAR 26	APR 26	MAY 26	JUN 26	JUL 26	AUG 26	SEP 26	OCT 26	NOV 26	DEC 26	JAN 27	FEB 27	MAR 27	APR 27	MAY 27	JUN 27	JUL 27	AUG 27	SEP 27	OCT 27	NOV 27	DEC 27			
Preliminary Design	Feb-25	2																																						
Schematic Design	Apr-25	2																																						
Design Documents	Jun-25	2																																						
Construction Documents	Aug-25	2																																						
Bidding	Nov-25	2																																						
Construction Administration	Apr-26	6																																						
Construction Administration	Apr-27	6																																						
Close Out	Oct-27	3																																						

Project Plan: Walter Fitzgerald Campus

Activity Duration

ACTIVITY	PLAN START	PLAN DURATION (MONTHS)	PERIODS																																					
			FEB 24	MAR 24	APR 24	MAY 24	JUN 24	JUL 24	AUG 24	SEP 24	OCT 24	NOV 24	DEC 24	JAN 25	FEB 25	MAR 25	APR 25	MAY 25	JUN 25	JUL 25	AUG 25	SEP 25	OCT 25	NOV 25	DEC 25	JAN 26	FEB 26	MAR 26	APR 26	MAY 26	JUN 26	JUL 26	AUG 26	SEP 26	OCT 26	NOV 26	DEC 26			
Preliminary Design	Feb-26	2																																						
Schematic Design	Apr-26	2																																						
Design Documents	Jun-26	2																																						
Construction Documents	Aug-26	2																																						
Bidding	Nov-26	2																																						
Construction Administration	Apr-27	6																																						
Construction Administration	Apr-28	6																																						
Close Out	Oct-28	3																																						

Project Plan: Timothy Dwight Elementary School

Activity Duration

ACTIVITY	PLAN START	PLAN DURATION (MONTHS)	PERIODS																																							
			FEB 24	MAR 24	APR 24	MAY 24	JUN 24	JUL 24	AUG 24	SEP 24	OCT 24	NOV 24	DEC 24	JAN 25	FEB 25	MAR 25	APR 25	MAY 25	JUN 25	JUL 25	AUG 25	SEP 25	OCT 25	NOV 25	DEC 25	JAN 26	FEB 26	MAR 26	APR 26	MAY 26	JUN 26	JUL 26	AUG 26	SEP 26	OCT 26	NOV 26	DEC 26					
Preliminary Design	Feb-26	2																																								
Schematic Design	Apr-26	2																																								
Design Documents	Jun-26	2																																								
Construction Documents	Aug-26	2																																								
Bidding	Nov-26	2																																								
Construction Administration	Apr-27	6																																								
Construction Administration	Apr-28	6																																								
Close Out	Oct-28	3																																								

Project Plan: Jennings Elementary School

Activity Duration

ACTIVITY	PLAN START	PLAN DURATION (MONTHS)	PERIODS																																					
			FEB 24	MAR 24	APR 24	MAY 24	JUN 24	JUL 24	AUG 24	SEP 24	OCT 24	NOV 24	DEC 24	JAN 25	FEB 25	MAR 25	APR 25	MAY 25	JUN 25	JUL 25	AUG 25	SEP 25	OCT 25	NOV 25	DEC 25	JAN 26	FEB 26	MAR 26	APR 26	MAY 26	JUN 26	JUL 26	AUG 26	SEP 26	OCT 26	NOV 26	DEC 26			
Preliminary Design	Feb-26	2																																						
Schematic Design	Apr-26	2																																						
Design Documents	Jun-26	2																																						
Construction Documents	Aug-26	2																																						
Bidding	Nov-26	2																																						
Construction Administration	Apr-27	6																																						
Construction Administration	Apr-28	6																																						
Close Out	Oct-28	3																																						

FEE PROPOSAL
RFQ#2023-83
(page 1 of 9)

****FEE PROPOSAL MUST BE SUBMITTED IN A SEPARATE AND SEALED ENVELOPE****

The undersigned hereby agrees to provide architectural and engineering services for the HVAC upgrades at the various Fairfield Public School facilities as specified for the following fees:

Phase I

1. Osborn Hill Elementary School, 760 Stillson Street

Phase 1: Preliminary Engineering and Design
Fee Not-to-Exceed: $10,150 (lump sum)

Phase 2: Schematic Design
Fee Not-to-Exceed: $29,920 (lump sum)

Phase 3: Design Development
Fee Not-to-Exceed: $34,410 (lump sum)

Phase 3A: Structural Engineering Services – Allowance (if required)
Fee Not-to-Exceed: $15,000 (lump sum)

Phase 4: Construction Documents
Fee Not-to-Exceed: $64,185 (lump sum)

Phase 5: Bidding Assistance
Fee Not-to-Exceed: $2,900 (lump sum)

Phase 6: Construction Administration
Fee Not-to-Exceed: $69,744 (lump sum)

Phase 7: Close-Out/ Commissioning /Warranty Phase
Fee Not-to-Exceed: $14,960 (lump sum)

Total Fee: Phases 1-7:
Total Fee Not-to-Exceed: $241,269 (lump sum)

Respondents shall also include a breakdown of their Not-to-Exceed fees; providing estimated hours, hourly rates per discipline / function, and a maximum cost per project stage.

2. North Stratfield Elementary School, 190 Putting Green Road

Phase 1: Preliminary Engineering and Design
Fee Not-to-Exceed: $13,350 (lump sum)

Phase 2: Schematic Design
Fee Not-to-Exceed: $40,460 (lump sum)

Phase 3: Design Development
Fee Not-to-Exceed: $46,760 (lump sum)

Phase 3A: Structural Engineering Services – Allowance (if required)
Fee Not-to-Exceed: $15,000 (lump sum)

Phase 4: Construction Documents
Fee Not-to-Exceed: $92,350 (lump sum)

Phase 5: Bidding Assistance
Fee Not-to-Exceed: $2,900 (lump sum)

Phase 6: Construction Administration
Fee Not-to-Exceed: $108,264 (lump sum)

Phase 7: Close-Out/ Commissioning /Warranty Phase
Fee Not-to-Exceed: $20,550 (lump sum)

Total Fee: Phases 1-7:
Total Fee Not-to-Exceed: $339,634 (lump sum)

Respondents shall also include a breakdown of their Not-to-Exceed fees; providing estimated hours, hourly rates per discipline / function, and a maximum cost per project stage.

3. Fairfield Woods Middle School, 1115 Fairfield Woods Road

Phase 1: Preliminary Engineering and Design
Fee Not-to-Exceed: $12,260 (lump sum)

Phase 2: Schematic Design
Fee Not-to-Exceed: $38,975 (lump sum)

Phase 3: Design Development
Fee Not-to-Exceed: $43,900 (lump sum)

Phase 3A: Structural Engineering Services – Allowance (if required)
Fee Not-to-Exceed: $15,000 (lump sum)

Phase 4: Construction Documents
Fee Not-to-Exceed: $85,250 (lump sum)

Phase 5: Bidding Assistance
Fee Not-to-Exceed: $2,240 (lump sum)

Phase 6: Construction Administration
Fee Not-to-Exceed: $100,896 (lump sum)

Phase 7: Close-Out/ Commissioning /Warranty Phase
Fee Not-to-Exceed: $19,000 (lump sum)

Total Fee: Phases 1-7:
Total Fee Not-to-Exceed: $317,521 (lump sum)

Respondents shall also include a breakdown of their Not-to-Exceed fees; providing estimated hours, hourly rates per discipline / function, and a maximum cost per project stage.

Phase II

1. Tomlinson Middle School, 200 Unquowa Road

Phase 1: Preliminary Engineering and Design
Fee Not-to-Exceed: $3,890 (lump sum)

Phase 2: Schematic Design
Fee Not-to-Exceed: $10,550 (lump sum)

Phase 3: Design Development
Fee Not-to-Exceed: $12,740 (lump sum)

Phase 3A: Structural Engineering Services – Allowance (if required)
Fee Not-to-Exceed: $12,500 (lump sum)

Phase 4: Construction Documents
Fee Not-to-Exceed: $22,520 (lump sum)

Phase 5: Bidding Assistance
Fee Not-to-Exceed: $2,700 (lump sum)

Phase 6: Construction Administration
Fee Not-to-Exceed: $27,036 (lump sum)

Phase 7: Close-Out/ Commissioning /Warranty Phase
Fee Not-to-Exceed: $12,000 (lump sum)

Total Fee: Phases 1-7:
Total Fee Not-to-Exceed: $103,936 (lump sum)

Respondents shall also include a breakdown of their Not-to-Exceed fees; providing estimated hours, hourly rates per discipline / function, and a maximum cost per project stage.

Phase III

1. Fairfield Ludlowe High School, 785 Unquowa Road

Phase 1: Preliminary Engineering and Design
Fee Not-to-Exceed: $28,080 (lump sum)

Phase 2: Schematic Design
Fee Not-to-Exceed: $85,630 (lump sum)

Phase 3: Design Development
Fee Not-to-Exceed: $96,370 (lump sum)

Phase 3A: Structural Engineering Services – Allowance (if required)
Fee Not-to-Exceed: $25,000 (lump sum)

Phase 4: Construction Documents
Fee Not-to-Exceed: $191,510 (lump sum)

Phase 5: Bidding Assistance
Fee Not-to-Exceed: $3,160 (lump sum)

Phase 6: Construction Administration
Fee Not-to-Exceed: $221,284 (lump sum)

Phase 7: Close-Out/ Commissioning /Warranty Phase
Fee Not-to-Exceed: $43,090 (lump sum)

Total Fee: Phases 1-7:
Total Fee Not-to-Exceed: $694,124 (lump sum)

Respondents shall also include a breakdown of their Not-to-Exceed fees; providing estimated hours, hourly rates per discipline / function, and a maximum cost per project stage.

Phase IV

1. Walter Fitzgerald Campus, 309 Barberry Road

Phase 1: Preliminary Engineering and Design
Fee Not-to-Exceed: $3,560 (lump sum)

Phase 2: Schematic Design
Fee Not-to-Exceed: $9,290 (lump sum)

Phase 3: Design Development
Fee Not-to-Exceed: $12,380 (lump sum)

Phase 3A: Structural Engineering Services – Allowance (if required)
Fee Not-to-Exceed: $12,000 (lump sum)

Phase 4: Construction Documents
Fee Not-to-Exceed: $12,120 (lump sum)

Phase 5: Bidding Assistance
Fee Not-to-Exceed: $2,700 (lump sum)

Phase 6: Construction Administration
Fee Not-to-Exceed: $16,304 (lump sum)

Phase 7: Close-Out/ Commissioning /Warranty Phase
Fee Not-to-Exceed: $2,970 (lump sum)

Total Fee: Phases 1-7:
Total Fee Not-to-Exceed: $71,324 (lump sum)

Respondents shall also include a breakdown of their Not-to-Exceed fees; providing estimated hours, hourly rates per discipline / function, and a maximum cost per project stage.

Phase V

1. Fairfield Warde High School, 755 Melville Road

Phase 1: Preliminary Engineering and Design
Fee Not-to-Exceed: $26,500 (lump sum)

Phase 2: Schematic Design
Fee Not-to-Exceed: $83,850 (lump sum)

Phase 3: Design Development
Fee Not-to-Exceed: $97,330 (lump sum)

Phase 3A: Structural Engineering Services – Allowance (if required)
Fee Not-to-Exceed: $25,000 (lump sum)

Phase 4: Construction Documents
Fee Not-to-Exceed: $190,550 (lump sum)

Phase 5: Bidding Assistance
Fee Not-to-Exceed: $3,160 (lump sum)

Phase 6: Construction Administration
Fee Not-to-Exceed: $220,024 (lump sum)

Phase 7: Close-Out/ Commissioning /Warranty Phase
Fee Not-to-Exceed: $43,090 (lump sum)

Total Fee: Phases 1-7:
Total Fee Not-to-Exceed: $689,504 (lump sum)

Respondents shall also include a breakdown of their Not-to-Exceed fees; providing estimated hours, hourly rates per discipline / function, and a maximum cost per project stage.

Potential Future Phases

1. Timothy Dwight Elementary School, 1600 Redding Road

Phase 1: Preliminary Engineering and Design
Fee Not-to-Exceed: $9,160 (lump sum)

Phase 2: Schematic Design
Fee Not-to-Exceed: $28,600 (lump sum)

Phase 3: Design Development
Fee Not-to-Exceed: $34,310 (lump sum)

Phase 3A: Structural Engineering Services – Allowance (if required)
Fee Not-to-Exceed: $15,000 (lump sum)

Phase 4: Construction Documents
Fee Not-to-Exceed: $61,270 (lump sum)

Phase 5: Bidding Assistance
Fee Not-to-Exceed: $2,700 (lump sum)

Phase 6: Construction Administration
Fee Not-to-Exceed: $74,640 (lump sum)

Phase 7: Close-Out/ Commissioning /Warranty Phase
Fee Not-to-Exceed: $14,960 (lump sum)

Total Fee: Phases 1-7:
Total Fee Not-to-Exceed: $240,640 (lump sum)

Respondents shall also include a breakdown of their Not-to-Exceed fees; providing estimated hours, hourly rates per discipline / function, and a maximum cost per project stage.

2. Jennings Elementary School, 31 Palm Drive

Phase 1: Preliminary Engineering and Design
Fee Not-to-Exceed: $11,600 (lump sum)

Phase 2: Schematic Design
Fee Not-to-Exceed: $34,590 (lump sum)

Phase 3: Design Development
Fee Not-to-Exceed: $40,530 (lump sum)

Phase 3A: Structural Engineering Services – Allowance (if required)
Fee Not-to-Exceed: $15,000 (lump sum)

Phase 4: Construction Documents
Fee Not-to-Exceed: $78,295 (lump sum)

Phase 5: Bidding Assistance
Fee Not-to-Exceed: $2,700 (lump sum)

Phase 6: Construction Administration
Fee Not-to-Exceed: $93,100 (lump sum)

Phase 7: Close-Out/ Commissioning /Warranty Phase
Fee Not-to-Exceed: $17,100 (lump sum)

Total Fee: Phases 1-7:
Total Fee Not-to-Exceed: $292,915 (lump sum)

Respondents shall also include a breakdown of their Not-to-Exceed fees; providing estimated hours, hourly rates per discipline / function, and a maximum cost per project stage.

Robert E. Celata	BL Companies Connecticut, Inc.
Signature	*Company*
Robert Celata	Ex. Director of ASMEP
Printed name	*Title*
355 Research Parkway	Meriden, CT 06450
Address	*City / State / Zip*
203.630.1406	bcelata@blcompanies.com
Phone	*E-mail*

ASSUMPTIONS

The breakdown of the Total Fee among the phases as set forth below is a good faith estimate. The cost of particular phases of Basic Services may exceed the estimate below, but Consultant will not incur Fees beyond the Total Fee as presented below without Client authorization.

Phase 1: Pricing is broken out based on work starting in 2023. Escalation has been taken into account for construction administration and closeout work performed in 2024 and 2025.

Phases 2-5, and Potential Future Phases: Pricing and scope of work is based on the DTC reports and cost estimates. Fees for future phases will need to be adjusted based on the confirmed scope of work for each school, plus escalation based on the years in which design and construction will be performed. The submitted fees do not include escalation, as it is not possible to estimate escalation out to 2028.

FEE TABLES

Fee tables for each school broken down by phase are provided on the following pages. Each phase is broken down additionally by estimated hours and hourly rate for each discipline involved.

Project Location: Osborn Hill ES

Phase 1				
Preliminary	Hrs		Rate	Sum
Mechanical	20	$	165	$ 3,300
Plumbing	4	$	165	$ 660
Fire Protection	0	$	165	$ -
Electrical	9	$	165	$ 1,485
Architectural	9	$	165	$ 1,485
Energy Modeling	0	$	150	$ -
Project Management	14	$	230	$ 3,220
Phase Total				$ 10,150

Phase 2				
Schematic	Hrs		Rate	Sum
Mechanical	48	$	165	$ 7,920
Plumbing	8	$	165	$ 1,320
Fire Protection	0	$	165	$ -
Electrical	26	$	165	$ 4,290
Architectural	26	$	165	$ 4,290
Energy Modeling	0	$	150	$ -
Project Management	20	$	230	$ 4,600
ASMEP-Total	128	$	172	$ 22,420
Cost Estimating	Subconsultant			$ 7,500
Sub Total				$ 7,500
Phase Total				$ 29,920

Phase 3				
Design Development	Hrs		Rate	Sum
Mechanical	32	$	165	$ 5,280
Plumbing	6	$	165	$ 990
Fire Protection	0	$	165	$ -
Electrical	12	$	165	$ 1,980
Architectural	20	$	165	$ 3,300
Energy Modeling	24	$	150	$ 3,600
Project Management	12	$	230	$ 2,760
ASMEP-Total	106	$	172	$ 17,910
Acoustical	Subconsultant			$ 8,000
Cost Estimating	Subconsultant			$ 8,500
Sub Total				$ 16,500
Phase Total				$ 34,410

Phase 4				
Construction Docs	Hrs		Rate	Sum
Mechanical	85	$	165	$ 14,025
Plumbing	12	$	165	$ 1,980
Fire Protection	0	$	165	$ -
Electrical	28	$	165	$ 4,620
Architectural	60	$	165	$ 9,900
Energy Modeling	62	$	150	$ 9,300
Project Management	32	$	230	$ 7,360
ASMEP-Total	279	$	172	$ 47,185
Acoustical	Subconsultant			$ 10,000
Cost Estimating	Subconsultant			$ 7,000
Sub Total				$ 17,000
Phase Total				$ 64,185

Phase 5				
Bidding	Hrs		Rate	Sum
Mechanical	4	$	165	$ 660
Plumbing	0	$	165	$ -
Fire Protection	0	$	165	$ -
Electrical	4	$	165	$ 660
Architectural	4	$	165	$ 660
CA Admin	0	$	120	$ -
Project Management	4	$	230	$ 920
Phase Total				$ 2,900

Phase 6				
CA	Hrs		Rate	Sum
Mechanical	120	$	172	$ 20,640
Plumbing	8	$	172	$ 1,376
Fire Protection	4	$	172	$ 688
Electrical	40	$	172	$ 6,880
Architectural	40	$	172	$ 6,880
CA Admin	40	$	127	$ 5,080
Project Management	120	$	235	$ 28,200
ASMEP-Total	372	$	175	$ 69,744
				$ -
				$ -
Phase Total				$ 69,744

Phase 7				
Close Out	Hrs		Rate	Sum
Mechanical	16	$	175	$ 2,800
Plumbing	4	$	175	$ 700
Fire Protection	0	$	175	$ -
Electrical	4	$	175	$ 700
Architectural	0	$	175	$ -
CA Admin	0	$	130	$ -
Project Management	24	$	240	$ 5,760
ASMEP-Total	48	$	178	$ 9,960
Acoustical	Subconsultant			$ 5,000
Cost Estimating	Subconsultant			$ -
Sub Total				$ 5,000
Phase Total				$ 14,960

Project Location: North Stratfield ES

Phase 1						
Preliminary	Hrs		Rate		Sum	
Mechanical	20	$	165	$	3,300	
Plumbing	2	$	165	$	330	
Fire Protection	0	$	165	$	-	
Electrical	8	$	165	$	1,320	
Architectural	16	$	165	$	2,640	
Energy Modeling	20	$	150	$	3,000	
Project Management	12	$	230	$	2,760	
Phase Total				$	13,350	

Phase 2						
Schematic	Hrs		Rate		Sum	
Mechanical	60	$	165	$	9,900	
Plumbing	8	$	165	$	1,320	
Fire Protection	0	$	165	$	-	
Electrical	34	$	165	$	5,610	
Architectural	34	$	165	$	5,610	
Energy Modeling	0	$	150	$	-	
Project Management	24	$	230	$	5,520	
ASMEP-Total	160	$	172	$	27,960	
Acoustical	Subconsultant			$	5,000	
Cost Estimating	Subconsultant			$	7,500	
Sub Total				$	12,500	
Phase Total				$	40,460	

Phase 3						
Design Development	Hrs		Rate		Sum	
Mechanical	60	$	165	$	9,900	
Plumbing	10	$	165	$	1,650	
Fire Protection	0	$	165	$	-	
Electrical	20	$	165	$	3,300	
Architectural	40	$	165	$	6,600	
Energy Modeling	45	$	150	$	6,750	
Project Management	22	$	230	$	5,060	
ASMEP-Total	197	$	172	$	33,260	
Acoustical	Subconsultant			$	5,000	
Cost Estimating	Subconsultant			$	8,500	
Sub Total				$	13,500	
Phase Total				$	46,760	

Phase 4						
Construction Docs	Hrs		Rate		Sum	
Mechanical	140	$	165	$	23,100	
Plumbing	22	$	165	$	3,630	
Fire Protection	0	$	165	$	-	
Electrical	40	$	165	$	6,600	
Architectural	88	$	165	$	14,520	
Energy Modeling	88	$	150	$	13,200	
Project Management	60	$	230	$	13,800	
ASMEP-Total	438	$	172	$	74,850	
Acoustical	Subconsultant			$	10,000	
Cost Estimating	Subconsultant			$	7,500	
Sub Total				$	17,500	
Phase Total				$	92,350	

Phase 5						
Bidding	Hrs		Rate		Sum	
Mechanical	4	$	165	$	660	
Plumbing	0	$	165	$	-	
Fire Protection	0	$	165	$	-	
Electrical	4	$	165	$	660	
Architectural	4	$	165	$	660	
CA Admin	0	$	120	$	-	
Project Management	4	$	230	$	920	
Phase Total				$	2,900	

Phase 6						
CA	Hrs		Rate		Sum	
Mechanical	160	$	172	$	27,520	
Plumbing	8	$	172	$	1,376	
Fire Protection	8	$	172	$	1,376	
Electrical	48	$	172	$	8,256	
Architectural	48	$	172	$	8,256	
CA Admin	40	$	127	$	5,080	
Project Management	240	$	235	$	56,400	
ASMEP-Total	552	$	175	$	########	
Acoustical				$	-	
Cost Estimating				$	-	
Sub Total				$	-	
Phase Total				$	########	

Phase 7						
Close Out	Hrs		Rate		Sum	
Mechanical	30	$	175	$	5,250	
Plumbing	0	$	175	$	-	
Fire Protection	0	$	175	$	-	
Electrical	4	$	175	$	700	
Architectural	0	$	175	$	-	
CA Admin	0	$	130	$	-	
Project Management	40	$	240	$	9,600	
ASMEP-Total	74	$	178	$	15,550	
Acoustical				$	5,000	
Cost Estimating				$	-	
Sub Total				$	5,000	
Phase Total				$	20,550	

Project Location: Fairfield Woods

Phase 1			
Preliminary	Hrs	Rate	Sum
Mechanical	24	$ 165	$ 3,960
Plumbing	4	$ 165	$ 660
Fire Protection	0	$ 165	$ -
Electrical	12	$ 165	$ 1,980
Architectural	12	$ 165	$ 1,980
Energy Modeling	0	$ 150	$ -
Project Management	16	$ 230	$ 3,680
ASMEP-Total	68	$ 172	$ 12,260
Acoustical			$ -
Cost Estimating			$ -
Sub Total			$ -
Phase Total			$ 12,260

Phase 2			
Schematic	Hrs	Rate	Sum
Mechanical	55	$ 165	$ 9,075
Plumbing	8	$ 165	$ 1,320
Fire Protection	0	$ 165	$ -
Electrical	32	$ 165	$ 5,280
Architectural	32	$ 165	$ 5,280
Energy Modeling	0	$ 150	$ -
Project Management	24	$ 230	$ 5,520
ASMEP-Total	151	$ 172	$ 26,475
Acoustical			$ 5,000
Cost Estimating			$ 7,500
Sub Total			$ 12,500
Phase Total			$ 38,975

Phase 3			
Design Development	Hrs	Rate	Sum
Mechanical	55	$ 165	$ 9,075
Plumbing	8	$ 165	$ 1,320
Fire Protection	0	$ 165	$ -
Electrical	20	$ 165	$ 3,300
Architectural	37	$ 165	$ 6,105
Energy Modeling	40	$ 150	$ 6,000
Project Management	20	$ 230	$ 4,600
ASMEP-Total	180	$ 172	$ 30,400
Acoustical			$ 5,000
Cost Estimating			$ 8,500
Sub Total			$ 13,500
Phase Total			$ 43,900

Phase 4			
Construction Docs	Hrs	Rate	Sum
Mechanical	130	$ 165	$ 21,450
Plumbing	24	$ 165	$ 3,960
Fire Protection	0	$ 165	$ -
Electrical	40	$ 165	$ 6,600
Architectural	80	$ 165	$ 13,200
Energy Modeling	80	$ 150	$ 12,000
Project Management	48	$ 230	$ 11,040
ASMEP-Total	402	$ 172	$ 68,250
Acoustical			$ 10,000
Cost Estimating			$ 7,000
Sub Total			$ 17,000
Phase Total			$ 85,250

Phase 5			
Bidding	Hrs	Rate	Sum
Mechanical	4	$ 165	$ 660
Plumbing	0	$ 165	$ -
Fire Protection	0	$ 165	$ -
Electrical	0	$ 165	$ -
Architectural	4	$ 165	$ 660
CA Admin	0	$ 120	$ -
Project Management	4	$ 230	$ 920
ASMEP-Total	12	$ 168	$ 2,240
Acoustical			$ -
Cost Estimating			$ -
Sub Total			$ -
Phase Total			$ 2,240

Phase 6			
CA	Hrs	Rate	Sum
Mechanical	140	$ 172	$ 24,080
Plumbing	24	$ 172	$ 4,128
Fire Protection	24	$ 172	$ 4,128
Electrical	60	$ 172	$ 10,320
Architectural	60	$ 172	$ 10,320
CA Admin	60	$ 172	$ 10,320
Project Management	160	$ 235	$ 37,600
ASMEP-Total	528	$ 181	########
Acoustical			$ -
Cost Estimating			$ -
Sub Total			$ -
Phase Total			########

Phase 7			
Close Out	Hrs	Rate	Sum
Mechanical	28	$ 175	$ 4,900
Plumbing	0	$ 175	$ -
Fire Protection	0	$ 175	$ -
Electrical	4	$ 175	$ 700
Architectural	0	$ 175	$ -
CA Admin	0	$ 130	$ -
Project Management	35	$ 240	$ 8,400
ASMEP-Total	67	$ 178	$ 14,000
Acoustical			$ 5,000
Cost Estimating			$ -
Sub Total			$ 5,000
Phase Total			$ 19,000

Project Location: Tomlinson MS

Phase 1				
Preliminary	Hrs	Rate	Sum	
Mechanical	8	$ 165	$	1,320
Plumbing	2	$ 165	$	330
Fire Protection	0	$ 165	$	-
Electrical	4	$ 165	$	660
Architectural	4	$ 165	$	660
Energy Modeling	0	$ 150	$	-
Project Management	4	$ 230	$	920
Phase Total			$	3,890

Phase 2				
Schematic	Hrs	Rate	Sum	
Mechanical	10	$ 165	$	1,650
Plumbing	4	$ 165	$	660
Fire Protection	0	$ 165	$	-
Electrical	4	$ 165	$	660
Architectural	4	$ 165	$	660
Energy Modeling	0	$ 150	$	-
Project Management	4	$ 230	$	920
ASMEP-Total	26	$ 172	$	4,550
Acoustical			$	3,000
Cost Estimating			$	3,000
Sub Total			$	6,000
Phase Total			$	10,550

Phase 3				
Design Development	Hrs	Rate	Sum	
Mechanical	12	$ 165	$	1,980
Plumbing	4	$ 165	$	660
Fire Protection	0	$ 165	$	-
Electrical	4	$ 165	$	660
Architectural	8	$ 165	$	1,320
Energy Modeling	8	$ 150	$	1,200
Project Management	4	$ 230	$	920
ASMEP-Total	40	$ 172	$	6,740
Acoustical			$	3,000
Cost Estimating			$	3,000
Sub Total			$	6,000
Phase Total			$	12,740

Phase 4				
Construction Docs	Hrs	Rate	Sum	
Mechanical	30	$ 165	$	4,950
Plumbing	8	$ 165	$	1,320
Fire Protection	0	$ 165	$	-
Electrical	10	$ 165	$	1,650
Architectural	20	$ 165	$	3,300
Energy Modeling	20	$ 150	$	3,000
Project Management	10	$ 230	$	2,300
ASMEP-Total	98	$ 172	$	16,520
Acoustical			$	3,000
Cost Estimating			$	3,000
Sub Total			$	6,000
Phase Total			$	22,520

Phase 5				
Bidding	Hrs	Rate	Sum	
Mechanical	4	$ 165	$	660
Plumbing	0	$ 165	$	-
Fire Protection	0	$ 165	$	-
Electrical	0	$ 165	$	-
Architectural	4	$ 165	$	660
CA Admin	0	$ 120	$	-
Project Management	6	$ 230	$	1,380
Phase Total			$	2,700

Phase 6				
CA	Hrs	Rate	Sum	
Mechanical	40	$ 172	$	6,880
Plumbing	8	$ 172	$	1,376
Fire Protection	8	$ 172	$	1,376
Electrical	16	$ 172	$	2,752
Architectural	16	$ 172	$	2,752
CA Admin	20	$ 125	$	2,500
Project Management	40	$ 235	$	9,400
ASMEP-Total	148	$ 174	$	27,036
Acoustical			$	-
Cost Estimating			$	-
Sub Total			$	-
Phase Total			$	27,036

Phase 7				
Close Out	Hrs	Rate	Sum	
Mechanical	20	$ 175	$	3,500
Plumbing	0	$ 175	$	-
Fire Protection	0	$ 175	$	-
Electrical	4	$ 175	$	700
Architectural	0	$ 175	$	-
CA Admin	0	$ 130	$	-
Project Management	20	$ 240	$	4,800
ASMEP-Total	44	$ 178	$	9,000
Acoustical			$	3,000
Cost Estimating			$	-
Sub Total			$	3,000
Phase Total			$	12,000

Project Location: Fairfield Ludlowe High School

Phase 1				
Preliminary	Hrs	Rate		Sum
Mechanical	60	$ 165	$	9,900
Plumbing	8	$ 165	$	1,320
Fire Protection	0	$ 165	$	-
Electrical	26	$ 165	$	4,290
Architectural	26	$ 165	$	4,290
Energy Modeling	0	$ 150	$	-
Project Management	36	$ 230	$	8,280
Phase Total			$	28,080

Phase 2				
Schematic	Hrs	Rate		Sum
Mechanical	160	$ 165	$	26,400
Plumbing	22	$ 165	$	3,630
Fire Protection	0	$ 165	$	-
Electrical	86	$ 165	$	14,190
Architectural	86	$ 165	$	14,190
Energy Modeling	0	$ 150	$	-
Project Management	64	$ 230	$	14,720
ASMEP-Total	418	$ 172	$	73,130
Acoustical			$	5,000
Cost Estimating			$	7,500
Sub Total			$	12,500
Phase Total			$	85,630

Phase 3				
Design Development	Hrs	Rate		Sum
Mechanical	160	$ 165	$	26,400
Plumbing	24	$ 165	$	3,960
Fire Protection	0	$ 165	$	-
Electrical	50	$ 165	$	8,250
Architectural	104	$ 165	$	17,160
Energy Modeling	104	$ 150	$	15,600
Project Management	50	$ 230	$	11,500
ASMEP-Total	492	$ 172	$	82,870
Acoustical			$	5,000
Cost Estimating			$	8,500
Sub Total			$	13,500
Phase Total			$	96,370

Phase 4				
Construction Docs	Hrs	Rate		Sum
Mechanical	300	$ 165	$	49,500
Plumbing	50	$ 165	$	8,250
Fire Protection	24	$ 165	$	3,960
Electrical	100	$ 165	$	16,500
Architectural	200	$ 165	$	33,000
Energy Modeling	220	$ 150	$	33,000
Project Management	110	$ 230	$	25,300
ASMEP-Total	1004	$ 172	$	169,510
Acoustical			$	10,000
Cost Estimating			$	12,000
Sub Total			$	22,000
Phase Total			$	191,510

Phase 5				
Bidding	Hrs	Rate		Sum
Mechanical	4	$ 165	$	660
Plumbing	0	$ 165	$	-
Fire Protection	0	$ 165	$	-
Electrical	0	$ 165	$	-
Architectural	4	$ 165	$	660
CA Admin	0	$ 120	$	-
Project Management	8	$ 230	$	1,840
Phase Total			$	3,160

Phase 6				
CA	Hrs	Rate		Sum
Mechanical	330	$ 172	$	56,760
Plumbing	66	$ 172	$	11,352
Fire Protection	66	$ 172	$	11,352
Electrical	120	$ 172	$	20,640
Architectural	120	$ 172	$	20,640
CA Admin	120	$ 172	$	20,640
Project Management	340	$ 235	$	79,900
ASMEP-Total	1162	$ 181	$	221,284
Acoustical			$	-
Cost Estimating			$	-
Sub Total			$	-
Phase Total			$	221,284

Phase 7				
Close Out	Hrs	Rate		Sum
Mechanical	76	$ 175	$	13,300
Plumbing	0	$ 175	$	-
Fire Protection	0	$ 175	$	-
Electrical	10	$ 175	$	1,750
Architectural	0	$ 175	$	-
CA Admin	0	$ 130	$	-
Project Management	96	$ 240	$	23,040
ASMEP-Total	182	$ 178	$	38,090
Acoustical			$	5,000
Cost Estimating			$	-
Sub Total			$	5,000
Phase Total			$	43,090

Project Location: Walter Fitzgerald Campus

Phase 1				
Preliminary	Hrs		Rate	Sum
Mechanical	8	$	165	$ 1,320
Plumbing	0	$	165	$ -
Fire Protection	0	$	165	$ -
Electrical	4	$	165	$ 660
Architectural	4	$	165	$ 660
Energy Modeling	0	$	150	$ -
Project Management	4	$	230	$ 920
Phase Total				$ 3,560

Phase 2				
Schematic	Hrs		Rate	Sum
Mechanical	16	$	165	$ 2,640
Plumbing	2	$	165	$ 330
Fire Protection	0	$	165	$ -
Electrical	6	$	165	$ 990
Architectural	6	$	165	$ 990
Energy Modeling	0	$	150	$ -
Project Management	8	$	230	$ 1,840
ASMEP-Total	38	$	172	$ 6,790
Cost Estimating				$ 2,500
Sub Total				$ 2,500
Phase Total				$ 9,290

Phase 3				
Design Development	Hrs		Rate	Sum
Mechanical	16	$	165	$ 2,640
Plumbing	2	$	165	$ 330
Fire Protection	0	$	165	$ -
Electrical	6	$	165	$ 990
Architectural	12	$	165	$ 1,980
Energy Modeling	14	$	150	$ 2,100
Project Management	8	$	230	$ 1,840
ASMEP-Total	58	$	172	$ 9,880
Cost Estimating				$ 2,500
Sub Total				$ 2,500
Phase Total				$ 12,380

Phase 4				
Construction Docs	Hrs		Rate	Sum
Mechanical	16	$	165	$ 2,640
Plumbing	4	$	165	$ 660
Fire Protection	0	$	165	$ -
Electrical	4	$	165	$ 660
Architectural	12	$	165	$ 1,980
Energy Modeling	12	$	150	$ 1,800
Project Management	6	$	230	$ 1,380
ASMEP-Total	54	$	172	$ 9,120
Cost Estimating				$ 3,000
Sub Total				$ 3,000
Phase Total				$ 12,120

Phase 5				
Bidding	Hrs		Rate	Sum
Mechanical	4	$	165	$ 660
Plumbing	0	$	165	$ -
Fire Protection	0	$	165	$ -
Electrical	0	$	165	$ -
Architectural	4	$	165	$ 660
CA Admin	0	$	120	$ -
Project Management	6	$	230	$ 1,380
Phase Total				$ 2,700

Phase 6				
CA	Hrs		Rate	Sum
Mechanical	24	$	172	$ 4,128
Plumbing	4	$	172	$ 688
Fire Protection	4	$	172	$ 688
Electrical	10	$	172	$ 1,720
Architectural	10	$	172	$ 1,720
CA Admin	10	$	172	$ 1,720
Project Management	24	$	235	$ 5,640
ASMEP-Total	86	$	181	$ 16,304
Cost Estimating				$ -
Sub Total				$ -
Phase Total				$ 16,304

Phase 7				
Close Out	Hrs		Rate	Sum
Mechanical	6	$	175	$ 1,050
Plumbing	0	$	175	$ -
Fire Protection	0	$	175	$ -
Electrical	0	$	175	$ -
Architectural	0	$	175	$ -
CA Admin	0	$	130	$ -
Project Management	8	$	240	$ 1,920
ASMEP-Total	14	$	178	$ 2,970
Cost Estimating				$ -
Sub Total				$ -
Phase Total				$ 2,970

Project Location: Fairfield Warde High School

Phase 1					
Preliminary	Hrs		Rate		Sum
Mechanical	60	$	165	$	9,900
Plumbing	8	$	165	$	1,320
Fire Protection	0	$	165	$	-
Electrical	24	$	165	$	3,960
Architectural	24	$	165	$	3,960
Energy Modeling	0	$	150	$	-
Project Management	32	$	230	$	7,360
Phase Total				$	26,500

Phase 2					
Schematic	Hrs		Rate		Sum
Mechanical	150	$	165	$	24,750
Plumbing	20	$	165	$	3,300
Fire Protection	0	$	165	$	-
Electrical	88	$	165	$	14,520
Architectural	88	$	165	$	14,520
Energy Modeling	0	$	150	$	-
Project Management	62	$	230	$	14,260
ASMEP-Total	408	$	172	$	71,350
Acoustical				$	5,000
Cost Estimating				$	7,500
Sub Total				$	12,500
Phase Total				$	83,850

Phase 3					
Design Development	Hrs		Rate		Sum
Mechanical	160	$	165	$	26,400
Plumbing	24	$	165	$	3,960
Fire Protection	0	$	165	$	-
Electrical	50	$	165	$	8,250
Architectural	100	$	165	$	16,500
Energy Modeling	112	$	150	$	16,800
Project Management	54	$	230	$	12,420
ASMEP-Total	500	$	172	$	84,330
Acoustical				$	5,000
Cost Estimating				$	8,000
Sub Total				$	13,000
Phase Total				$	97,330

Phase 4					
Construction Docs	Hrs		Rate		Sum
Mechanical	300	$	165	$	49,500
Plumbing	50	$	165	$	8,250
Fire Protection	0	$	165	$	-
Electrical	100	$	165	$	16,500
Architectural	200	$	165	$	33,000
Energy Modeling	220	$	150	$	33,000
Project Management	110	$	230	$	25,300
ASMEP-Total	980	$	172	$	165,550
Acoustical				$	10,000
Cost Estimating				$	15,000
Sub Total				$	25,000
Phase Total				$	190,550

Phase 5					
Bidding	Hrs		Rate		Sum
Mechanical	4	$	165	$	660
Plumbing	0	$	165	$	-
Fire Protection	0	$	165	$	-
Electrical	0	$	165	$	-
Architectural	4	$	165	$	660
CA Admin	0	$	120	$	-
Project Management	8	$	230	$	1,840
Phase Total				$	3,160

Phase 6					
CA	Hrs		Rate		Sum
Mechanical	320	$	172	$	55,040
Plumbing	66	$	172	$	11,352
Fire Protection	66	$	172	$	11,352
Electrical	130	$	172	$	22,360
Architectural	130	$	172	$	22,360
CA Admin	130	$	172	$	22,360
Project Management	320	$	235	$	75,200
ASMEP-Total	1162	$	181	$	220,024
Acoustical				$	-
Cost Estimating				$	-
Sub Total				$	-
Phase Total				$	220,024

Phase 7					
Close Out	Hrs		Rate		Sum
Mechanical	76	$	175	$	13,300
Plumbing	0	$	175	$	-
Fire Protection	0	$	175	$	-
Electrical	10	$	175	$	1,750
Architectural	0	$	175	$	-
CA Admin	0	$	130	$	-
Project Management	96	$	240	$	23,040
ASMEP-Total	182	$	178	$	38,090
Acoustical				$	5,000
Cost Estimating				$	-
Sub Total				$	5,000
Phase Total				$	43,090

Project Location: Timothy Dwight ES

Phase 1				
Preliminary	Hrs		Rate	Sum
Mechanical	20	$	165	$ 3,300
Plumbing	4	$	165	$ 660
Fire Protection	4	$	165	$ 660
Electrical	4	$	165	$ 660
Architectural	4	$	165	$ 660
Energy Modeling	0	$	150	$ -
Project Management	14	$	230	$ 3,220
Phase Total				$ 9,160

Phase 2				
Schematic	Hrs		Rate	Sum
Mechanical	36	$	165	$ 5,940
Plumbing	24	$	165	$ 3,960
Fire Protection	0	$	165	$ -
Electrical	18	$	165	$ 2,970
Architectural	18	$	165	$ 2,970
Energy Modeling	0	$	150	$ -
Project Management	12	$	230	$ 2,760
ASMEP-Total	108	$	172	$ 18,600
Acoustical				$ 5,000
Cost Estimating				$ 5,000
Sub Total				$ 10,000
Phase Total				$ 28,600

Phase 3				
Design Development	Hrs		Rate	Sum
Mechanical	40	$	165	$ 6,600
Plumbing	6	$	165	$ 990
Fire Protection	12	$	165	$ 1,980
Electrical	12	$	165	$ 1,980
Architectural	20	$	165	$ 3,300
Energy Modeling	28	$	150	$ 4,200
Project Management	12	$	230	$ 2,760
ASMEP-Total	130	$	172	$ 21,810
Acoustical				$ 5,000
Cost Estimating				$ 7,500
Sub Total				$ 12,500
Phase Total				$ 34,310

Phase 4				
Construction Docs	Hrs		Rate	Sum
Mechanical	90	$	165	$ 14,850
Plumbing	16	$	165	$ 2,640
Fire Protection	0	$	165	$ -
Electrical	28	$	165	$ 4,620
Architectural	60	$	165	$ 9,900
Energy Modeling	66	$	150	$ 9,900
Project Management	32	$	230	$ 7,360
ASMEP-Total	292	$	172	$ 49,270
Acoustical				$ 5,000
Cost Estimating				$ 7,000
Sub Total				$ 12,000
Phase Total				$ 61,270

Phase 5				
Bidding	Hrs		Rate	Sum
Mechanical	4	$	165	$ 660
Plumbing	0	$	165	$ -
Fire Protection	0	$	165	$ -
Electrical	0	$	165	$ -
Architectural	4	$	165	$ 660
CA Admin	0	$	120	$ -
Project Management	6	$	230	$ 1,380
Phase Total				$ 2,700

Phase 6				
CA	Hrs		Rate	Sum
Mechanical	110	$	172	$ 18,920
Plumbing	20	$	172	$ 3,440
Fire Protection	20	$	172	$ 3,440
Electrical	40	$	172	$ 6,880
Architectural	40	$	172	$ 6,880
CA Admin	40	$	172	$ 6,880
Project Management	120	$	235	$ 28,200
ASMEP-Total	390	$	181	$ 74,640
Acoustical				$ -
Cost Estimating				$ -
Sub Total				$ -
Phase Total				$ 74,640

Phase 7				
Close Out	Hrs		Rate	Sum
Mechanical	20	$	175	$ 3,500
Plumbing	0	$	175	$ -
Fire Protection	0	$	175	$ -
Electrical	4	$	175	$ 700
Architectural	0	$	175	$ -
CA Admin	0	$	130	$ -
Project Management	24	$	240	$ 5,760
ASMEP-Total	48	$	178	$ 9,960
Acoustical				$ 5,000
Cost Estimating				$ -
Sub Total				$ 5,000
Phase Total				$ 14,960

Project Location: Jennings ES

Phase 1				
Preliminary	Hrs		Rate	Sum
Mechanical	24	$	165	$ 3,960
Plumbing	4	$	165	$ 660
Fire Protection	0	$	165	$ -
Electrical	10	$	165	$ 1,650
Architectural	10	$	165	$ 1,650
Energy Modeling	0	$	150	$ -
Project Management	16	$	230	$ 3,680
Phase Total				$ 11,600

Phase 2				
Schematic	Hrs		Rate	Sum
Mechanical	48	$	165	$ 7,920
Plumbing	6	$	165	$ 990
Fire Protection	0	$	165	$ -
Electrical	26	$	165	$ 4,290
Architectural	26	$	165	$ 4,290
Energy Modeling	0	$	150	$ -
Project Management	20	$	230	$ 4,600
ASMEP-Total	126	$	172	$ 22,090
Acoustical				$ 5,000
Cost Estimating				$ 7,500
Sub Total				$ 12,500
Phase Total				$ 34,590

Phase 3				
Design Development	Hrs		Rate	Sum
Mechanical	50	$	165	$ 8,250
Plumbing	8	$	165	$ 1,320
Fire Protection	0	$	165	$ -
Electrical	16	$	165	$ 2,640
Architectural	32	$	165	$ 5,280
Energy Modeling	36	$	150	$ 5,400
Project Management	18	$	230	$ 4,140
ASMEP-Total	160	$	172	$ 27,030
Acoustical				$ 5,000
Cost Estimating				$ 8,500
Sub Total				$ 13,500
Phase Total				$ 40,530

Phase 4				
Construction Docs	Hrs		Rate	Sum
Mechanical	112	$	165	$ 18,480
Plumbing	20	$	165	$ 3,300
Fire Protection	0	$	165	$ -
Electrical	36	$	165	$ 5,940
Architectural	75	$	165	$ 12,375
Energy Modeling	80	$	150	$ 12,000
Project Management	40	$	230	$ 9,200
ASMEP-Total	363	$	172	$ 61,295
Acoustical				$ 10,000
Cost Estimating				$ 7,000
Sub Total				$ 17,000
Phase Total				$ 78,295

Phase 5				
Bidding	Hrs		Rate	Sum
Mechanical	4	$	165	$ 660
Plumbing	0	$	165	$ -
Fire Protection	0	$	165	$ -
Electrical	0	$	165	$ -
Architectural	4	$	165	$ 660
CA Admin	0	$	120	$ -
Project Management	6	$	230	$ 1,380
Phase Total				$ 2,700

Phase 6				
CA	Hrs		Rate	Sum
Mechanical	136	$	172	$ 23,392
Plumbing	26	$	172	$ 4,472
Fire Protection	26	$	172	$ 4,472
Electrical	54	$	172	$ 9,288
Architectural	54	$	172	$ 9,288
CA Admin	54	$	172	$ 9,288
Project Management	140	$	235	$ 32,900
ASMEP-Total	490	$	181	$ 93,100
Acoustical				$ -
Cost Estimating				$ -
Sub Total				$ -
Phase Total				$ 93,100

Phase 7				
Close Out	Hrs		Rate	Sum
Mechanical	24	$	175	$ 4,200
Plumbing	0	$	175	$ -
Fire Protection	0	$	175	$ -
Electrical	4	$	175	$ 700
Architectural	0	$	175	$ -
CA Admin	0	$	130	$ -
Project Management	30	$	240	$ 7,200
ASMEP-Total	58	$	178	$ 12,100
Acoustical				$ 5,000
Cost Estimating				$ -
Sub Total				$ 5,000
Phase Total				$ 17,100

Town of Fairfield

Sullivan Independence Hall
725 Old Post Road

Fairfield, Connecticut 06824
Purchasing Department

(203) 256·3060
FAX (203) 256·3080

ADDENDUM #1
RFQ #2023-83
Architectural and Engineering Design Services
HVAC Upgrades – Fairfield Public Schools

26th January, 2023 – It is intended that this Addendum incorporating the following corrections, revisions, additions, deletions and clarifications become part of the Contract Documents, including pricing as submitted.

New Information:

1. A pre-bid meeting for this RFQ solicitation was held at 11:00am on Wednesday, January 11th, 2023 at 725 Old Post Road, 1st Floor Conference Room, Fairfield, CT 06824. A copy of the sign-in sheet from the pre-bid meeting is posted on the Purchasing Department's page of the Town's website. For your convenience, a direct link to the sign-in sheet is provided below.

2023-83 Pre-Bid Sign-In Sheet

2. Please utilize the link below to access the conceptual cost estimate for Fairfield Woods Middle School, North Stratfield Elementary School and Osborn Hill Elementary School provided by Gilbane.

2023-83 Gilbane Estimate

3. The following schools have full fire sprinkler systems:

- *Osborn Hill Elementary School*
- *North Stratfield Elementary School*
- *Fairfield Woods Middle School*
- *Tomlinson Middle School*
- *Fairfield Ludlowe High School*
- *Fairfield Warde High School*

4. The following schools do not have fire sprinkler systems:

- *Jennings Elementary School*
- *Dwight Elementary School*
- *Walter Fitzgerald Alt High School*

Questions:

1. Without knowing full scope for structural and architectural, we would like to carry allowances at this point until a more definitive scope of work is established and then we can provide a detailed proposal for that scope. Would it be acceptable to provide Architect Fees as an Allowance like the Structural Services already on the bid form?

Response: The DTC report outlines the spaces within each building that will require the addition of air conditioning and ventilation. An architectural fee is to be quoted for those spaces. Additional architectural work for yet to be defined additions will be handled as added services.

2. Does the base fee proposal need to include commissioning services, or will the town be hiring a Commissioning agent separate from this. If so, the proposal would carry MEP services to interface with Commissioning agent only?

Response: An independent commissioning agent will be hired by the Town. Your proposed bid will include necessary time to coordinate and interface with the independent commissioning agent.

3. Can we assume that identification and removal of any hazardous materials will be done as an independent contract administered by the City?

Response: The Town will hire the hazardous material consultant.

4. Can we assume accurate as-built drawings are available for the existing MEP systems and will be provided to the design team?

Response: We cannot guarantee the accuracy of the existing drawings (if available) for the various buildings and systems. Include sufficient time in your bid to compare existing engineered drawings and details (if available) against the field conditions and prepare as-built conditions necessary to provide accurate schematic design documents. The size and location of ductwork as well as location of any major devices (VAVs, dampers, air valves, etc.) shall be confirmed as well.

5. Regarding the fees for future phases, would providing only a lump sum estimate of fees per phase be acceptable in lieu of a detailed hours breakdown due to potential unknown scope as well as escalation factors.

Response: Please follow the bid instructions.

6. If there are existing provisions for emergency back-up power on the site, would the HVAC upgrades be required to have back-up power?

Response: No.

7. The Initial Project Phase I is for three schools. Subsequent phases II through V plus two more potential future phases are not funded. Detailed fee proposal sheets are provided for all phases. Please provide revised proposal sheets or additional clarifications in regards to how fee proposals shall be broken out. Particular of interest are Architectural in Basic Services, Structural as allowances (and if just DD phase, or following phases as well).

Response: Please see the response to question #1 of this addendum document.

8. The Scope of Services on RFP page 4, as well as the Fee Proposal Sheets, calls for commissioning services. However, elsewhere on page 4 it states that commissioning will be provided by a third party Cx agent. Please clarify.

Response: Please see the response to question #2 of this addendum document.

9. As noted in pre-bid, if available beyond what was already provided, please provide DTC Reports/Estimates.

Response: Please refer to the link provided under New Information on page 1 of this addendum document.

10. Please confirm LEED documentation not applicable, only incorporating LEED best practices/guidelines in as much as practical based on final scope at each location.

Response: Fairfield Public Schools is not seeking LEED certification of the projects.

11. Please provide contract delivery vehicle, if established, for construction at each location. CM, Single Prime Mechanical, Multi-Prime Disciplines, etc.

Response: It is anticipated that a CM will be used for all projects.

12. Will Gilbane Cost Estimates be shared with bidders?

Response: Yes, please refer to the link provided under "New Information" item 2, of this addendum document.

13. Are building controls (BMS) to be upgraded to district standard at the time the HVAC systems are upgraded?

Response: Only North Stratfield requires a new BMS. This is to be included in the AC project. The other building have (or will have) an Automated Logic or ABC BMS existing to which the new systems will be integrated.

14. Should bidders include heating system (ie. boiler) upgrades in any of the buildings, or is the design scope limited to cooling and ventilation air?

Response: There are no boiler upgrades.

15. If design solutions require it for equipment support, should bidders include structural design fees in their proposal?

Response: Yes, as an allowance.

16. If design solutions require it for cutting/patching/painting, should bidders include architectural design fees in their proposal?

Response: The DTC report outlines the spaces within each building that will require the addition of air conditioning and ventilation. An architectural fee is to be quoted for those spaces. Additional architectural work for yet to be defined additions will be handed as added services.

17. If design solutions require it to support new cooling equipment, should electric service upgrades be included in bidder proposals?

Response: Yes.

18. If design solutions require it to support new cooling equipment and/or ductwork, should sprinkler relocations be included in bidder proposals?

Response: Yes.

19. There are instances where there are multiple electrical services to the building. Would it be required to have all equipment for the HVAC upgrades off one of the two services or would the school be inclined to permit splitting the loads between the two if it avoided the cost of a service upgrade?

Response: Splitting loads would be acceptable if allowed by code.

20. Would bidder's fee proposal need to include numbers for civil engineering drawings in the case of electrical service upgrades (trenching, transformer pads, etc.)?

Response: Yes.

21. Should bidder's design scope include LEED certification of buildings?

Response: No.

22. For multi-year phased work, should fee escalation be included in bidder proposals?

Response: Identify any escalation used.

End of Addendum #1

Company: _____ Name: _____ Signature: _____ Date: _____

RFQ #: 2023-83 DESC: Architectural & Engineering Design Services HVAC Upgrades at Various FPS Locations DATE: 2/2/2023 TIME: 02:00PM	Town of Fairfield			
	AI Engineers, Inc. Middletown, CT	BL Companies Connecticut, Inc. Meriden, CT	H.F. Lenz Company Middletown, CT	LAN Associates, Engineering, Planning, Architecture, Surveying, LLP Goshen, NY
	Landmark Facilities Group, Inc. Norwalk, CT	Russell & Dawson Inc. East Hartford, CT	Silver Petrucelli + Associates New London, CT	Van Zelm Heywood & Shadford, Inc. Farmington, CT

PROFESSIONAL SERVICE AGREEMENT
RFQ #2023-83
Architectural & Engineering Design Services – HVAC Upgrades
PHASE 1: Osborn Hill Elementary School, North Stratfield Elementary School and Fairfield Woods Middle School

This AGREEMENT, made this day of __ _____ 2023, by and between the **TOWN OF FAIRFIELD**, in the County of Fairfield, a municipal Corporation of the State of Connecticut (hereinafter "**TOWN**"), and **BL Companies Connecticut, Inc.,** a Connecticut Corporation with its principal place of business at 355 Research Parkway, Meriden, Connecticut, (hereinafter "**CONSULTANT**").

WITNESSETH, that for and in consideration of the premises and the agreement herein contained, and the payments herein provided to be made, the parties hereto agree as follows:

FIRST: Statutes.

The Consultant agrees to accept and abide by the provisions of Title 31, Section 53 of the 1965 Supplement to the General Statutes, State of Connecticut, which require "The wages paid on an hourly basis to any person performing the work of any mechanic, laborer or worker on the work herein contracted to be done and the amount of payment or contribution paid or payable on behalf of each such person to any employee welfare fund, as defined in subsection (h) of this section, shall be at a rate equal to the rate customary or prevailing for the same work in the same trade or occupation in the town in which such public works project is being constructed. Any Consultant who is not obligated by agreement to make payment or contribution on behalf of such persons to any such employee welfare fund shall pay to each mechanic, laborer or worker as part of such person's wages the amount of payment or contribution for such person's classification on each pay day."

The Consultant agrees and warrants that in the performance of the Contract such Consultant will not discriminate or permit discrimination against any person or group of persons on the grounds of race, color, religious creed, age, marital status, national origin, ancestry, sex, gender identity or expression, intellectual disability, mental disability or physical disability, including, but not limited to, blindness, unless it is shown by such Consultant that such disability prevents performance of the work involved, in any manner prohibited by the laws of the United States or of the State of Connecticut; and the Consultant further agrees to take affirmative action to insure that applicants with job-related qualifications are employed and that employees are treated when employed without regard to their race, color, religious creed, age, marital status, national origin, ancestry, sex, gender identity or expression, intellectual disability, mental disability or physical disability, including, but not limited to, blindness, unless it is shown by the Consultant that such disability prevents performance of the work involved; (b) the Consultant agrees, in all solicitations or advertisements for employees placed by or on behalf of the Consultant, to state that it is an "affirmative action equal opportunity employer" in accordance with regulations adopted by the Commission; (c) the Consultant agrees to provide each labor union or representative of workers with which the Consultant has a collective bargaining agreement or other contract or understanding

and each vendor with which the Consultant has a contract or understanding, a notice to be provided by the Commission, advising the labor union or workers' representative of the Consultant's commitments under this section and to post copies of the notice in conspicuous places available to employees and applicants for employment; (d) the Consultant agrees to comply with each provision of this Section and Connecticut General Statutes §§ 46a-68e and 46a-68f and with each regulation or relevant order issued by said Commission pursuant to Connecticut General Statutes §§ 46a-56, 46a-68e and 46a-68f; and (e) the Consultant agrees to provide the Commission on Human Rights and Opportunities with such information requested by the Commission, and permit access to pertinent books, records and accounts, concerning the employment practices and procedures of the Consultant as relate to the provisions of this Section and Connecticut General Statutes § 46a-56. If the contract is a public works contract, the Consultant agrees and warrants that he will make good faith efforts to employ minority business enterprises as subconsultants and suppliers of materials on such public works projects.

The Consultant agrees and warrants that in the performance of the Contract such Consultant will not discriminate or permit discrimination against any person or group of persons on the grounds of sexual orientation, in any manner prohibited by the laws of the United States or the State of Connecticut, and that employees are treated when employed without regard to their sexual orientation; (b) the Consultant agrees to provide each labor union or representative of workers with which such Consultant has a collective bargaining Agreement or other contract or understanding and each vendor with which such Consultant has a contract or understanding, a notice to be provided by the Commission advising the labor union or workers' representative of the Consultant's commitments under this section, and to post copies of the notice in conspicuous places available to employees and applicants for employment; (c) the Consultant agrees to comply with each provision of this section and with each regulation or relevant order issued by said Commission pursuant to Connecticut General Statutes § 46a-56; and (d) the Consultant agrees to provide the Commission with such information requested by the Commission, and permit access to pertinent books, records and accounts, concerning the employment practices and procedures of the Consultant which relate to the provisions of this Section and Connecticut General Statutes § 46a-56.

SECOND: Engagement and Authorization.

Subject to the terms and conditions set forth in this Agreement, Town does hereby engage and authorize Consultant — and Consultant does hereby accept such engagement and authorization, as an independent consultant for Town — to construct the Construction Project, as here in defined, and to manage such construction for Town. The Consultant further covenants and agrees at its own proper cost, charge, and expense to furnish all machinery, appliances, tools, labor and materials necessary or proper to do all the work necessary to construct all the works equipment and fixtures, appurtenant thereto, as set forth in the Consultant's proposal, annexed hereto, as Exhibit A and known as PURCHASE ORDERS, and as described in the Request for Qualifications #2023-83 Plans and Specifications, attached hereto as Exhibit B, made and prepared by the Town of Fairfield Purchasing Department, in the County of Fairfield; and in the Contract Documents, as defined below in this Contract, which are incorporated by reference and wholly made a part of this Contract to the same extent as though the same were herein expressly written, in a first-class

workmanlike manner, and in strict accordance with the plans, drawings and specifications therefore, invitation for bid, and the Consultant's proposal all of which plans, drawings, specifications, invitation to bid, proposal, award resolution and other Contract Documents. Such work will be performed under the supervision of the Responsible Town Official (herein "RTO"), who for the purposes of this Contract, shall be the Director of Public Works of the Town of Fairfield and/or his appointed agent.

THIRD. In consideration of the Consultant faithfully complying with all the terms and stipulations of this Contract as set forth herein, or in the plans and specifications therefore, advertisement, proposal and other Contract Documents, the Town of Fairfield covenants and agrees to pay the said Consultant at the time and times, and in the manner more particularly set forth in the General Conditions as accepted in the bid submission attached hereto as Exhibit C.

FOURTH. The Consultant agrees to indemnify, defend and hold harmless the Town of Fairfield, its employees, agents and servants from any and all claims or demands for damages or injuries to either person or property which arise or may arise out of the performance of this contract, and shall indemnify and insure the Town of Fairfield in the manner more particularly set forth in the Insurance Requirements attached herein as Exhibit D, which are made part of this Contract.

FIFTH. The term "Contract Documents" shall mean and include the following:

Advertisement for Bid

1. Instructions to Bidders
2. Bid Proposal
3. All Contract Forms:
    a. Bid Bond
    b. Certificate of Surety
    c. Statement of Compliance with Bidding Requirements
    d. Contract
    e. Acknowledgement of Officer of Town Executing Contract
    f. Acknowledgement of Corporate Consultant
    g. Acknowledgement of Consultant, if an Individual
    h. Performance and Labor and Material Bond
    i. Certificate of Insurance
    j. Non-Collusion Affidavit of Prime Bidder
    k. Non-Collusion Affidavit of Subconsultant
    l. Notice of Award
    m. Notice to Proceed
    n. Change Orders
    o. Town of Fairfield, Standard Insurance Requirements
4. General Conditions
5. Supplemental General Conditions
6. Special Conditions
7. Contract Specifications

IN WITNESS WHEREOF, the Town Council of the Town of Fairfield, in the County of Fairfield has authorized the Corporate Seal of the Town of Fairfield to be hereto affixed and this Contract to be signed by the Purchasing Authority and that same attested to by the Town Clerk and the Consultant has caused this Contract to be signed by its duly authorized officer, and its corporate seal to be hereunto affixed on the day and year first above written.

TOWN OF FAIRFIELD

By_____

Its: _____
Date: _____, 2023

By_____

Its: _____
Date: _____, 2023

BL Companies Connecticut, Inc.

By_____

Its:
Date: _____, 2023

EXHIBIT A
PURCHASE ORDER FY 2023

EXHIBIT B
REQUEST FOR QUALIFICATIONS #2023-83

EXHIBIT C
CONSULTANT'S RFQ SUBMISSION

EXHIBIT D
CERTIFICATE OF INSURANCE

Town of Fairfield

Sullivan Independence Hall
725 Old Post Road

Fairfield, Connecticut 06824
Purchasing Department

(203) 256-3060
FAX (203) 256-3080

Award Recommendation Resolution:

On Wednesday, 5th April 2023, the Purchasing Authority awarded Bid number 2023-102 Elevator Replacement, Fairfield Ludlowe High School, to JLY Enterprises, LLC, dba JLY Construction Managers, New Haven, CT, to provide all labor, materials, equipment and all else necessary, to perform an elevator replacement including all components and accessories at Fairfield Ludlowe High School as detailed in the bid specifications.

Total Original Bid: $238,800.00 (including Add Alternate #1 – Remote Monitoring System, Data & Voice)
$ 60,000.00 (Alternate #2-Remove and Replace Hydraulic Jack Unit)
Total Bid: $298,800.00

JLY Enterprises, LLC has provided the Town with a comprehensive and competitive proposal that fully addresses all the requirements outlined in the Bid scope of work.

The award of this contract to JLY Enterprises, LLC may be subject to the review and approval of the Board of Selectmen.

Brenda L. Kupchick, First Selectwoman

Adam B. Tulin, Director of Purchasing

ORIGINAL

Town of Fairfield

Sullivan Independence Hall
725 Old Post Road

Fairfield, Connecticut 06824
Purchasing Department

(203) 256-3060
FAX (203) 256-3080

BID #2023-102
ELEVATOR REPLACEMENT
FAIRFIELD LUDLOWE HIGH SCHOOL

TOWN OF FAIRFIELD
PURCHASING AUTHORITY
725 OLD POST ROAD
INDEPENDENCE HALL
FAIRFIELD, CT 06824.

SEALED BIDS are subject to the standard instructions set forth on the attached sheets. Any modifications must be specifically accepted by the Town of Fairfield, Purchasing Authority.

Thomas R Flynn
First Selectwoman

Director of Purchasing

3/7/2023
Date

Date Submitted 3/30 2023.

JLY ENTERPRISES LLC, dba
Bidder:

JLY CONSTRUCTION MANAGERS
Doing Business As (Trade Name)

990 STATE ST.
Address

NEW HAVEN, CT 06511
Town, State, Zip

JOEL VENCHO OWNER
(Mr/Ms) Name and Title, Printed

Signature

(203) 506-8585
Telephone Fax (NONE)

joel@jlyllc.com
E-mail

Sealed bids will be received by the Purchasing Authority at the office of the Director of Purchasing, First Floor, Independence Hall, 725 Old Post Road, Fairfield, Connecticut 06824, up to:

11:00AM, Thursday, 30th March, 2023

To provide labor, materials, equipment, and all else necessary, to perform an elevator replacement including all components and accessories at the Fairfield Ludlowe High School.

NOTES:

1. Bidders are to complete all requested data in the upper right corner of this page and must return this page and the Proposal page with their bid.
2. No bid shall be accepted from, or contracts awarded to, any person/company/affiliate or entity under common control who is in arrears to the Town of Fairfield upon debt, or contract or who has been within the prior five (5) years, a defaulter as surety or otherwise upon obligations to the Town of Fairfield, and shall be determined by the Town.
3. Bid proposals are to be submitted in a sealed envelope and clearly marked **"BID #2023-102"** on the outside of the envelope, including all outer packaging, such as, DHL, FedEx, UPS, etc.
4. It is the sole responsibility of the bidder to see that the bid is received by the Fairfield Purchasing Department prior to the time and date noted above. Bid proposals are not to be submitted via email or fax.
5. Bid proposals are not to be submitted with plastic binders or covers, nor may the bid proposal contain any plastic inserts or pages.

BID PROPOSAL FORM

PROPOSAL TO: Town of Fairfield, Purchasing Department
First Floor, Sullivan Independence Hall
725 Old Post Road, Fairfield, Connecticut 06824

I, JOEL VENCHO *have received the following contract documents,*

1. *Bid Document #2023-102,*
2. *Drawing "Basement & First Floor Elevator Plan" dated 05/03/2022,*
3. *Addenda* 1 *through* 2 *posted at www.fairfieldct.org/purchasing and have included their provisions in my proposal. I shall supply all labor, materials, tools, equipment, permits, taxes and insurances, etc., for elevator replacement, including all associated work to complete the project, for the lump sum amount as follows.*

BASE BID

Labor: $ 50,000 /lump sum

Materials: $ 100,000 /lump sum

Equipment: $ 50,000 /lump sum

Admin /Misc: $ 38,800 /lump sum

Total: $ 238,800.00 /lump sum

Total Lump Sum: TWO HUNDRED, THIRTY-EIGHT THOUSAND, EIGHT-HUNDRED *Dollars*
(Written Amount)

ADD ALTERNATE #1 – Remote Monitoring System (RMS) Data & Voice

$ ϕ /lump sum INCLUDED IN BASE BID *Dollars*
(Written Amount)

ADD ALTERNATE #2– Hydraulic Jack Replacement

$ 60,000.00 /lump sum SIXTY-THOUSAND *Dollars*
(Written Amount)

State any exceptions or omissions to specifications: _____

Lump sum amount shall include, but not limited to, the cost of all labor, materials, equipment, tools, mobilization, delivery, permits (where not waived by the Town), licenses, overhead and profit, taxes (except from which Owner is exempt) and insurances.

The Bidder hereby certifies that any and all defects, errors, inconsistencies or omissions of which he/she is aware, either directly or by notification from any sub-bidder or material supplier found in the Contract Documents are listed herewith in this Bid Form.

Name JOEL VENCHO Title OWNER Signature _____ Date 3/30/23

BID PROPOSAL FORM

PAGE 2 OF 2

For additional work upon request:

Hourly Rates: Supervisor $ 100 /hr Foreman $ 100 /hr Journeyman $ 80 /hr Apprentice $ 80 /hr

Mark-up over Cost for Materials shall be 15 % for any additional work where requested.

Work shall be completed 60 days after receipt of written notice to proceed / purchase order. (FROM START OF WORK ON SITE)

A complete itemized schedule of values shall be required to be provided by the Contractor, prior to award of contract.

CHECKLIST

The following must be submitted with proposal:

- ☑ Cover page, completed and signed.
- ☑ Addenda acknowledged per Item 2 on Bid Proposal Form, or
- ☑ Signed and submitted with modified pricing if requested.
- ☑ List of references where projects performed of comparable size and scope within the past three years.
- ☑ Schedule of values.
- ☑ List of all subcontractors identifying each trade, hourly rates, and Tax ID number.
- ☑ Prices submitted contain Prevailing Wage Rates – **if total project amount exceeds $100,000.00**
- ☑ Bid Bond or equal approved security.
- ☑ Exceptions itemized and attached to Bid Form.

The Bidder hereby certifies that any and all defects, errors, inconsistencies or omissions of which he/she is aware, either directly or by notification from any sub-bidder or material supplier found in the Contract Documents are listed herewith in this Bid Form.

Name JOEL KENCHO Title OWNER Signature [signature] Date 3/30/23

Town of Fairfield

Sullivan Independence Hall
725 Old Post Road

Fairfield, Connecticut 06824
Purchasing Department

(203) 256-3060
FAX (203) 256-3080

ADDENDUM #1
BID #2023-102
Elevator Replacement – Fairfield Ludlowe High School

24th March 2023 – It is intended that this Addendum incorporating the following corrections, revisions, additions, deletions and clarifications become part of the Contract Documents, including pricing as submitted.

New Information:

1. A pre-bid meeting for this bid solicitation was held at 3:45pm on Thursday, March 16th, 2023 at 785 Unquowa Road, Fairfield, CT 06824. A copy of the sign-in sheet from the pre-bid meeting is posted on the Purchasing Department's page of the Town's website. For your convenience, a direct link to the sign-in sheet is provided below.

2023-102 Pre-Bid Sign-In Sheet

Questions:

1. Does the existing vent in the machine room provide heat and air conditioning?

Response: The vent provides fresh air. It may also provide some heating, but there is no A/C in the building.

2. Do we need to provide HVAC equipment?

Response: No.

3. Will there be retainage? What is the percentage?

Response: Yes, 5% retainage.

4. Will there be liquidated damages? What will they be?

Response: No.

End of Addendum #1

Company: JLY Construction Managers Name: Joe Fenchel Signature: [signature] Date: 3/30/23

Town of Fairfield

Sullivan Independence Hall
725 Old Post Road

Fairfield, Connecticut 06824
Purchasing Department

(203) 256-3060
FAX (203) 256-3080

ADDENDUM #2
BID #2023-102
Elevator Replacement – Fairfield Ludlowe High School

27th March 2023 – It is intended that this Addendum incorporating the following corrections, revisions, additions, deletions and clarifications become part of the Contract Documents, including pricing as submitted.

New Information:

*1. Please include in your pricing the supply and install of 12" x 12" **Armstrong Excelon Vinyl** flooring in the elevator.*

End of Addendum #2

Company: SLY CONSTRUCTION MANAGERS Name: JOEL YENCHO Signature: [signature] Date: 3/30/23

REFERENCES
Provide reference details of most recent similar scope projects performed:

REFERENCE #1: SEE ATTACHED LIST

Name of Company _____ Phone _____

Contact Person _____ Cell _____

Company Address _____ Fax _____

Date work completed _____ Email _____

REFERENCE #2:

Name of Company _____ Phone _____

Contact Person _____ Cell _____

Company Address _____ Fax _____

Date work completed _____ Email _____

REFERENCE #3:

Name of Company _____ Phone _____

Contact Person _____ Cell _____

Company Address _____ Fax _____

Date work completed _____ Email _____

REFERENCE #4:

Name of Company _____ Phone _____

Contact Person _____ Cell _____

Company Address _____ Fax _____

Date work completed _____ Email _____

REFERENCE #5:

Name of Company _____ Phone _____

Contact Person _____ Cell _____

Company Address _____ Fax _____

Date work completed _____ Email _____

SUBCONTRACTORS
Provide subcontractor details if any are to be employed as part of this contract, including labor rates:

SUBCONTRACTOR #1:

Name of Company ARC ELECTRIC — Fed ID # 86-2690888
Contact Person TOM VULAK — Title OWNER
Company Address 556 WILSON ST., FAIRFIELD — Phone (203)817-2515
Trade ELECTRICAL — Email arcelectric7@gmail.com

Rates: Supervisor $ 120 /hr Foreman $ 120 /hr Journeyman $ 120 /hr Apprentice $ 120 /hr

SUBCONTRACTOR #2:

Name of Company KONE ELEVATOR — Fed ID # 36-2357423
Contact Person ART BYRAM — Title SALES EXEC
Company Address 60 COMMERCE DR., TRUMBULL, CT — Phone (860)250-2785
Trade ELEVATOR — Email art.byram@kone.com

Rates: Supervisor $ 365 /hr Foreman $ 365 /hr Journeyman $ 365 /hr Apprentice $ 308 /hr

SUBCONTRACTOR #3:

Name of Company _____ — Fed ID # _____
Contact Person _____ — Title _____
Company Address _____ — Phone _____
Trade _____ — Email _____

Rates: Supervisor $_____/hr Foreman $_____/hr Journeyman $_____/hr Apprentice $_____/hr

SUBCONTRACTOR #4:

Name of Company _____ — Fed ID # _____
Contact Person _____ — Title _____
Company Address _____ — Phone _____
Trade _____ — Email _____

Rates: Supervisor $_____/hr Foreman $_____/hr Journeyman $_____/hr Apprentice $_____/hr

NOTE: All sub-contractors are subject to approval by the Town of Fairfield and are required to provide Fed ID #.

JLY CONSTRUCTION MANAGERS
BIDDERS QUALIFICATION PACKAGE
April 2023

CONTENTS

JLY CONSTRUCTION MANAGERS
BIDDERS QUALIFICATION PACKAGE
April 2023

SECTION 1. Company Overview & Brochure

Legal Business Name: *JLY ENTERPRISES LLC, dba JLY CONSTRUCTION MANAGERS*

Main Office Location: *990 State St., New Haven, CT 06511*

Phone: *(203) 506-8589*

Website: *jlyconstructionmanagers.com*

Core Services:

- *Construction Management*
- *General Contracting*
- *Project Manager Training & Development*

Key Personnel:

- *Joel Yencho, Owner/Project Manager*
- *Laura Yencho, Owner/Project Manager*
- *Joseph Yencho, Site Supervisor*
- *Joseph Dellaquila, Site Supervisor*
- *Brian Morales, Site Supervisor*
- *Chris Antezzo Jr., Site Supervisor*

Licenses/Certifications:

- *Connecticut Major Contractor, Reg# MCO.0904194*
- *Connecticut DAS Prequalification Construction Contractor*
  - *Construction Manager-at-Risk (Group A &B)*
  - *General Building Construction (Group A & B)*
  - *General Trades*
  - *Water Treatment Plants*
- *CT DAS Registered Small Business Enterprise*
- *City of New Haven Registered Small Contractor Development Program*
- *University of Connecticut Approved On-Call General Contractor 2021-2023*
- *US EPA Lead-Safe Certified Firm, Cert #NAT-F218131-1*
- *OSHA Trained and Certified Staff and Employees*
- *EIN #82-0795187*
- *DUNS #096893620*
- *Fully Bonded*
- *Fully Insured*

Please see the attached company brochure and visit our website, jlyconstructionmanagers.com for additional information...

SECTION 2. Experience & Resumes of Principal Members

Key Personnel:

- *Joel Yencho, Owner/Project Manager*
- *Laura Yencho, Owner/Project Manager*
- *Joseph Yencho, Site Supervisor*
- *Joseph Dellaquila, Site Supervisor*
- *Brian Morales, Site Supervisor*
- *Chris Antezzo Jr., Site Supervisor*

JOEL YENCHO, OWNER/PROJECT MANAGER *(comprehensive resume attached)*

- *B.S. CLAS, University of Connecticut, Storrs, CT 2002*
- *General Manager, Holzner Construction, Bridgeport, CT 2002-2020*
- *Founder/Owner JLY Construction Managers, New Haven, CT 2020-2023*

LAURA YENCHO OWNER/PROJECT MANAGER

- *B.S. ENGR, University of Connecticut, Storrs, CT 2004*
- *Engineer, Tighe & Bond Engineers, Springfield, MA 2004-2011*
- *Founder/Owner JLY Construction Managers, 2020-2023*

JOSEPH YENCHO SITE SUPERVISOR

- *Owner, CT Custom Builders 1988-2017*
- *Site Supervisor, Holzner Construction, Bridgeport, CT 2017-2020*
- *Site Supervisor, JLY Construction Managers, 2020-2023*

JOSEPH DELLAQUILA SITE SUPERVISOR

- *40 years in Commercial Construction*
- *Site Supervisor, Holzner Construction, Bridgeport, CT 2009-2020*
- *Site Supervisor, JLY Construction Managers, 2020-2023*

BRIAN MORALES, SITE SUPERVISOR

- *Licensed E2 Electrician, 20 Years in Commercial Construction*
- *Site Supervisor, Holzner Construction, Bridgeport, CT 2005-2021*
- *Site Supervisor, JLY Construction Managers, 2022-2023*

CHRIS ANTEZZO JR., SITE SUPERVISOR

- *Carpenter, Holzner Construction, Bridgeport, CT 2016-2020*
- *Site Supervisor, JLY Construction Managers, 2022-2023*

PROFILE

I am a disciplined, fair, reasonable and meticulous construction professional.

I was born and raised in construction. My father was a residential home builder, my sister an architect. I grew up working on job sites.

Immediately after college, I took a job with a commercial contracting company...where I then stayed for over 18 years. It was there that I learned the depths and nuances of managing a commercial construction business. The strategies associated with approaching public bid opportunities, The value of transparency and clear communication. The successful tricks in dealing with the "boots on the ground". The secrets to client satisfaction.

CONTACT

PHONE:
203-506-8589

WEBSITE:
Jlyconstructionmanagers.com

EMAIL:
joel@jlyllc.com

HOBBIES

Spartan Races
New York Yankees
New Haven Pizza
Live Music
Adventures with the family

JOEL YENCHO

OWNER/JLY Construction Managers

EDUCATION

University of Connecticut, Storrs, CT
1997-2002
Bachelor of Science, Environmental Science
Team Captain, Men's Lacrosse 1999-2000
Intramural Football, Soccer, Basketball, Volleyball

St. Joseph High School, Trumbull, CT
1993-1997
Honors Program
Team Captain, Men's Lacrosse, 1997
Team Captain, Indoor Track, 1996-1997
Class S State Champion Men's Sprint Relay 1996-1997

WORK EXPERIENCE

JLY Construction Managers, New Haven, CT
Launched August 2020 (established 2017)
-Commercial/Public General Contracting
-Construction Management
-Project Management Training & Recruiting

Holzner Construction, Bridgeport, CT
2002-2020
-Began in 2002 as an Estimator/Project Manager
-By 2005, I was recognized as the General Manager
-Responsible for all aspects of company growth and management...bid/obtain wor
solicit/hire subcontractors, manage projects, manage tradespeople and office staf
-Annual Revenue under my stewardship grew steadily from $1.5M in 2003, to ove
$15M in 2019
-I developed inroads and lasting relationships with hundreds of CT municipalities, state agencies, subcontractors, architects and engineers
-I established dozens of new prequalifications and certifications

SECTION 3. Evidence of Licensure by the State of Connecticut

Enclosed please find copies of the following licenses & certifications...

- *Connecticut Major Contractor, Reg# MCO.090419*
- *Connecticut DAS Prequalification Construction Contractor*
  - *Construction Manager-at-Risk (Group A & B)*
  - *General Building Construction (Group A & B)*
  - *General Trades*
  - *Water Treatment Plants*
- *CT DAS Registered Small Business Enterprise*
- *City of New Haven Registered Small Contractor Development Program*
- *US EPA Lead-Safe Certified Firm, Cert #NAT-F218131-1*

STATE OF CONNECTICUT
DEPARTMENT OF CONSUMER PROTECTION

This is your Major Contractor registration certificate for your records. Such registration shall be shown to any properly interested person on request. Do not attempt to make any changes or alter this certificate in any way. This registration is not transferable. Questions regarding this registration can be emailed to the Occupational & Professional Licensing Division at dcp.occupationalprofessional@ct.gov.

In an effort to be more efficient and Go Green, the department asks that you keep your email information with our office current to receive correspondence. You can update your email address or print a duplicate certificate by logging into your account with your User ID and Password at www.elicense.ct.gov.

Mailing address:

JLY ENTERPRISES LLC
JLY Enterprises LLC
990 State St.
NEW HAVEN, CT, CT 06511

Email on file to be used for receiving all notices from this office:

joel@jlyllc.com

STATE OF CONNECTICUT ✦ DEPARTMENT OF CONSUMER PROTECTION 879852

Be it known that

JLY ENTERPRISES LLC

990 STATE ST
NEW HAVEN, CT 06511-3944

has satisfied the qualifications required by law and is hereby registered as a

MAJOR CONTRACTOR

Registration #: MCO.0904194
Effective Date: 07/01/2022
Expiration Date: 06/30/2023

verify online at www.elicense.ct.gov

Michelle Seagull

Michelle Seagull, Commissioner

State of Connecticut

Department of Administrative Services

Construction Contractor Prequalification Program

This certifies

JLY ENTERPRISES LLC

JLY Construction Managers

990 State St., New Haven, CT 06511

As a

Prequalification Construction Contractor

July 14, 2022 through July 13, 2023

CONTACT INFORMATION

Name: Joel Yencho
Phone: 203-506-8589
Fax:
Email: joel@jlyllc.com

Effective Date	Aggregate Work Capacity (AWC)	Single Limit (SL)	Classifications
7/14/2022	$6,000,000.00	$3,000,000.00	CONSTRUCTION MANAGER AT RISK (GROUP A), CONSTRUCTION MANAGER AT RISK (GROUP B), GENERAL BUILDING CONSTRUCTION (GROUP A), GENERAL BUILDING CONSTRUCTION (GROUP B), GENERAL TRADES, WATER TREATMENT PLANTS

State of Connecticut

Department of Administrative Services
Supplier Diversity Program

This Certifies

JLY ENTERPRISES LLC

DBA: JLY Construction Managers

990 State St. New Haven CT 06511

As a

Small Business Enterprise

August 22,2022 through August 22,2024

Owner(s):

Contact: Joel Yencho **Telephone:** 203-506-8589 Ext: **FAX:**

E-Mail: joel@jlyllc.com **Web Address:**

****Affiliate Companies:**

Meg Yetishefsky

Supplier Diversity Director

Supplier Diversity Specialist

** A contractor awarded a contract or a portion of a contract under the set-aside program shall not subcontract with any person(s) with whom the contractor is affiliated.

CERTIFICATION OF REGISTRATION
CITY OF NEW HAVEN
Small Contractor Development Program

Presented To:

JLY Enterprises, LLC
990 State Street
New Haven, CT 06511

Type of Contractor: Carpentry, Painting, Roofing, Wood & Metal Framing, Acoustical, Sheetrock, & Taping

Date of Issue: July 19, 2022

Date of Expiration: July 19, 2024

Small Contractor Development

Our business... is growing yours!

L. Snyder, Program Manager

SIGILL • CIVITAT • NOVI • PORT • IN • REPUB • CONNECTICUTENSI • 1784

Justin Elicker
Mayor

United States Environmental Protection Agency

This is to certify that

JLY Construction Managers

has fulfilled the requirements of the Toxic Substances Control Act (TSCA) Section 402, and has received certification to conduct lead-based paint renovation, repair, and painting activities pursuant to 40 CFR Part 745.89

In the Jurisdiction of:

All EPA Administered States, Tribes, and Territories

This certification is valid from the date of issuance and expires October 02, 2025

NAT-F218131-1
Certification #

September 18, 2020
Issued On

Michelle Price

Michelle Price, Chief
Lead, Heavy Metals, and Inorganics Branch

SECTION 4. Contracts on Hand

Chapel St. Health Dept. Fit-Out, New Haven, CT
City of New Haven
General Contracting Services
$3,646,338.00 Estimated completion November 2023

School Security Vestibules, Wallingford, CT
Town of Wallingford
General Contracting Services
$437,490.00 Estimated completion July 2023

Radiant Storage Elevator Modernization, Norwich, CT
AAAA Radiant Storage
General Contracting Services
$207,382.50 Estimated completion December 2023

Scattered Sites Improvements- Group C, New Haven, CT
Elm City Communities/Housing Authority of the City of New Haven
General Contracting Services
$1,037,400.00 Estimated completion June 2023

MacDougall CI Walk-In Freezer Replacement, Suffield, CT
CT Dept. of Corrections
General Contracting Services
$446,390.00 Estimated completion May 2023

999 Broad St. Elevator Modernization, Bridgeport, CT
City of Bridgeport
General Contracting Services
$707,386 Estimated completion June 2023

USPS Hartford Elmwood Elevator Mod, West Hartford, CT
United States Postal Service
General Contracting Services
$387,340.00 Estimated completion April 2023

CONTINUED...

CONTINUED Contracts on Hand

Monarca Place Electrical and HVAC Improvements, *Middletown, CT*
Middletown Housing Authority
General Contracting Services
$392,360.00 Estimated completion June 2023

Dorsey Building Elevator Modernization, *Norwich, CT*
Norwich Housing Authority
General Contracting Services
$283,390 Estimated completion May 2023

Fairfield Woods MS Elevator Modernization, *Fairfield, CT*
Town of Fairfield
General Contracting Services
$220,680.00 Estimated completion August 2023

881 Lafayette Blvd Elevator Modernization, *Bridgeport, CT*
3 Phase Excel/881 Lafayette Blvd.
General Contracting Services
$144,359.49 Estimated completion June 2023

UCFS Norwich Elevator Modernization WBO, *Norwich, CT*
Schindler Elevator/UCFS
General Contracting Services
$68,489.40 Estimated completion June 2023

Torrington Towers Fire Protection Upgrades, *Torrington, CT*
Torrington Housing Authority
General Contracting Services
$322,490.00 Estimated completion May 2023

SECTION 5. List of Project Experience / Recently Completed Projects

Silverbrook Estates Sprinkler System, Orange, CT
Town of Orange
General Contracting Services
$167,932.25
Completed February 2021

Essex Townhouses Lead Abatement, New Haven, CT
Elm City Communities/Housing Authority of the City of New Haven
General Contracting Services
$184,700
Completed April 2021

UV Air Purification, New Haven, CT
New Haven Parking Authority
General Contracting Services
$11,400.00
Completed November 2020

Transaction Windows for Social Security Administration, Ansonia, CT
US Social Security Administration
General Contracting Services
$57,390
Completed July 2021

Elm City Communities Scattered Sites Heating Conversions, New Haven, CT
Elm City Communities/Housing Authority of the City of New Haven
General Contracting Services
$402,469
Completed August 2021

PHA-Wide COVID Upgrades, Waterbury, CT
Housing Authority of the City of Waterbury
General Contracting Services
$209,410.80
Substantially completed July 2021

Start-up Studio Renovation, Stamford, CT
University of Connecticut
General Contracting Services
$49,513.25
Completed August 2021

CONTINUED....

CONTINUED List of Project Experience / Recently Completed Projects

New London Public Library Renovations, *New London, CT*
New London Public Library
General Contracting Services
$69,390.00
Completed September 2021

McQueeney Towers Elevator Modernization, *New Haven, CT*
Elm City Communities/Housing Authority of the City of New Haven
General Contracting Services
$299,765.26
Completed November 2021

Latter-Day Saints Fire Protection Improvements, *Stamford, CT*
Church of Jesus Christ of Latter-Day Saints
General Contracting Services
$341,040.75
Completed December 2021

Stamford Police Dept. Future Space Build-out, *Stamford, CT*
City of Stamford
General Contracting Services
$108,790
Completed December 2021

Southmayd Home Elevator Modernization WBO, *Waterbury, CT*
Southmayd Home
General Contracting Services
$95,172
Completed March 2022

Covid Bathroom Renovations, *Ansonia & Branford, CT*
BH Care Group
General Contracting Services
$57,380
Completed March 2022

Window & Door Replacements, *Middletown, CT*
Middletown Housing Authority
Construction Management Services
Completed April 2022

Wesleyan ADP House Porch Rebuild, *Middletown, CT*
General Contracting Services
$15,835.51
Completed April 2022

CONTINUED...

CONTINUED List of Project Experience / Recently Completed Projects

Union Station RTU Replacement, *New Haven, CT*
New Haven Parking Authority
General Contracting Services
$274,390
Completed April 2022

Lake Whitney Water Treatment Plant HVAC & Process Improvements, *New Haven, CT*
South Central CT Regional Water Authority
General Contracting Services
$485,718.20
Completed May 2022

Busby Suites Countertops, *Storrs, CT*
University of Connecticut
General Contracting Services
$29,287.50
Completed July 2022

Brown Middle School Security Upgrades, *Madison, CT*
Town of Madison
General Contracting Services
$462,742
Completed August 2022

Scofield Manor Walk-In Cooler Upgrades, *Stamford, CT*
Charter Oak Communities
General Contracting Services
$48,890.00
Completed August 2022

Bushnell Theatre Elevator Modernization, *Hartford, CT*
Bushnell Center for the Performing Arts
General Contracting Services
$849,470
Completed September 2022

PHA Wide Door Hardware Upgrades, *Stratford, CT*
Stratford Housing Authority
General Contracting Services
$446,400
Completed October 2022

CONTINUED...

CONTINUED List of Project Experience / Recently Completed Projects

Burlington CF Elevator Modernization WBO, *Stratford, CT*
Burlington Coat Factory
General Contracting Services
$39,340.00
Completed November 2022

UConn Health Center Autoclave Room Renovation, *Farmington, CT*
University of CT Health Center
General Contracting Services
$96,110.00
Completed December 2022

Union Station Lactation Room Renos, *New Haven, CT*
New Haven Parking Authority
General Contracting Services
$20,800.00
Completed December 2022

Bradley Sheraton EMR Imps, *Windsor Locks, CT*
Bradley Airport/Sheraton Hotel Group
General Contracting Services
$21,661.37
Completed December 2022

Nichols Library Elevator Modernization WBO, *Trumbull, CT*
Nichols Library
General Contracting Services
$44,980
Completed December 2022

156 Kings Hwy N. Elevator Modernization WBO, *Westport, CT*
156 Kings Hwy North
General Contracting Services
$48,181.87
Completed March 2023

SECTION 6. List of References

Peter Zannis, Turner Construction Co.
C(203)627-3343 pzannis@tcco.com

Bill McMinn, Town of Madison
C(203)410-1317 mcminnwh@madison.k12.ct.us

Cody Savoy, South Central CT Regional Water Authority
(203)859-2144 csavoy@rwater.com

Mark Guerrera, Kenneth Boroson Architects
C(203)627-5241 mguerrera@kbarch.com

Michael Southam, The Glendower Group/New Haven HA
C(203)903-7738 msoutham@theglendowergroup.org

Bob Brinton, Town of Orange
C(203)891-4741 bbrinton@orange-ct.gov

Richard Allen, UConn Health Center
C(860)387-8101 rallen@uchc.edu

Angela Cahill, Quisenberry Arcari Architects
T(860)470-5018 acahill@qamarch.com

Cory Hartline, J.D'Amelia & Associates
T(203)757-1138 chartline@jdamelia.com

Michele Donnelly, Schindler Elevator Corp.
(203)410-2577 michele.donnelly@schindler.com

Russell Stratton, The Bushnell Center for the Performing Arts
(860)819-6826 rstratton@bushnell.org

Antoaneta Fedeles, University of Connecticut
C(857)777-6600 antoaneta.fedeles@uconn.edu

Madhu Gupta, New London Public Library
T(860)447-1411x106 mgupta@plnl.org

Ken Byxbee, City of Stamford
T(203)989-5516 KByxbee@stamfordct.gov

BID BOND

CONTRACTOR:
(Name, legal status and address)
JLY Enterprises, LLC
990 State Street
New Haven, CT 06511

SURETY: A DE Corporation
Hudson Insurance Company
19 Ensign Drive
Avon, CT 06001

OWNER:
(Name, legal status and address)
Town of Fairfield
725 Old Post Road
Fairfield, CT 06824

This document has important legal consequences. Consultation with an attorney is encouraged with respect to its completion or modification.

Any singular reference to Contractor, Surety, Owner or other party shall be considered plural where applicable.

BOND AMOUNT: Five Percent of Bid Amount (5% of bid)

PROJECT: Bid #2023-102 Elevator Replacement Fairfield
(Name, location or address, and Project number, if any) Ludlowe High School

The Contractor and Surety are bound to the Owner in the amount set forth above, for the payment of which the Contractor and Surety bind themselves, their heirs, executors, administrators, successors and assigns, jointly and severally, as provided herein. The conditions of this Bond are such that if the Owner accepts the bid of the Contractor within the time specified in the bid documents, or within such time period as may be agreed to by the Owner and Contractor, and the Contractor either (1) enters into a contract with the Owner in accordance with the terms of such bid, and gives such bond or bonds as may be specified in the bidding or Contract Documents, with a surety admitted in the jurisdiction of the Project and otherwise acceptable to the Owner, for the faithful performance of such Contract and for the prompt payment of labor and material furnished in the prosecution thereof; or (2) pays to the Owner the difference, not to exceed the amount of this Bond, between the amount specified in said bid and such larger amount for which the Owner may in good faith contract with another party to perform the work covered by said bid, then this obligation shall be null and void, otherwise to remain in full force and effect. The Surety hereby waives any notice of an agreement between the Owner and Contractor to extend the time in which the Owner may accept the bid. Waiver of notice by the Surety shall not apply to any extension exceeding sixty (60) days in the aggregate beyond the time for acceptance of bids specified in the bid documents, and the Owner and Contractor shall obtain the Surety's consent for an extension beyond sixty (60) days.

If this Bond is issued in connection with a subcontractor's bid to a Contractor, the term Contractor in this Bond shall be deemed to be Subcontractor and the term Owner shall be deemed to be Contractor.

When this Bond has been furnished to comply with a statutory or other legal requirement in the location of the Project, any provision in this Bond conflicting with said statutory or legal requirement shall be deemed deleted herefrom and provisions conforming to such statutory or other legal requirement shall be deemed incorporated herein. When so furnished, the intent is that this Bond shall be construed as a statutory bond and not as a common law bond.

Signed and sealed this 30th day of March 2023

(Witness)

JLY Enterprises, LLC
(Principal) (Seal)

(Title)

(Witness)

Hudson Insurance Company
(Surety) (Seal)

(Title) Michael F. Metayer
Attorney-in-fact

HUDSON INSURANCE GROUP

BID BOND POWER OF ATTORNEY

KNOW ALL MEN BY THESE PRESENTS: That HUDSON INSURANCE COMPANY, a corporation of the State of Delaware, with offices at 100 William Street, New York, New York, 10038, has made, constituted and appointed, and by these presents, does make, constitute and appoint

Michael F. Metayer, Lisa Kurtz, Anne Shattuck

of the State of Connecticut

its true and lawful Attorney(s)-in-Fact, at New York City in the State of New York, each of them alone to have full power to act without the other or others, to make, execute and deliver on its behalf, as Surety, bid bonds for any and all purposes.

Such bid bonds, when duly executed by said Attorney(s)-in-Fact, shall be binding upon said Company as fully and to the same extent as if signed by the President of said Company under its corporate seal attested by its Secretary.

In Witness Whereof, HUDSON INSURANCE COMPANY has caused these presents to be of its Senior Vice President thereunto duly authorized, on this 15th day of August, 20 22 at New York, New York.

SEAL 1918

Attest.....
Dina Daskalakis, Corporate Secretary

HUDSON INSURANCE COMPANY

By.....
Michael P. Cifone, Senior Vice President

STATE OF NEW YORK
COUNTY OF NEW YORK SS.

On the 15th day of August, 20 22 before me personally came Michael P. Cifone to me known, who being by me duly sworn did depose and say that he is a Senior Vice President of **HUDSON INSURANCE COMPANY**, the Company described herein and which executed the above instrument, that he knows the seal of said Company, that the seal affixed to said instrument is the corporate seal of said Company, that it was so affixed by order of the Board of Directors of said Company, and that he signed his name thereto by like order.

(Notarial Seal)

ANN M. MURPHY NOTARY PUBLIC STATE OF NEW YORK

.....
ANN M. MURPHY
Notary Public, State of New York
No. 01MU6067553
Qualified in Nassau County
Commission Expires December 10, 2025

CERTIFICATION

STATE OF NEW YORK
COUNTY OF NEW YORK SS.

The undersigned **Dina Daskalakis** hereby certifies:

THAT the original resolution, of which the following is a true and correct copy, was duly adopted by unanimous written consent of the Board of Directors of Hudson Insurance Company dated July 27th, 2007, and has not since been revoked, amended or modified:

"RESOLVED, that the President, the Executive Vice Presidents, the Senior Vice Presidents and the Vice Presidents shall have the authority and discretion, to appoint such agent or agents, or attorney or attorneys-in-fact, for the purpose of carrying on this Company's surety business, and to empower such agent or agents, or attorney or attorneys-in-fact, to execute and deliver, under this Company's seal or otherwise, bonds obligations, and recognizances, whether made by this Company as surety thereon or otherwise, indemnity contracts, contracts and certificates, and any and all other contracts and undertaking made in the course of this Company's surety business, and renewals, extensions, agreements, waivers, consents or stipulations regarding undertakings so made; and

FURTHER RESOVLED, that the signature of any such Officer of the Company and the Company's seal may be affixed by facsimile to any power of attorney or certification given for the execution of any bond, undertaking, recognizance, contract of indemnity or other written obligation in the nature thereof or related thereto, such signature and seal when so used whether heretofore or hereafter, being hereby adopted by the Company as the original signature of such officer and the original seal of the Company, to be valid and binding upon the Company with the same force and effect as though manually affixed."

THAT the above and foregoing is a full, true and correct copy of Power of Attorney issued by said Company, and of the whole of the original and that the said Power of Attorney is still in full force and effect and has not been revoked, and furthermore that the Resolution of the Board of Directors, set forth in the said Power of Attorney is now in force.

SEAL 1918

Witness the hand of the undersigned and the seal of said Company this 30th day of March, 20 23.

By.....
Dina Daskalakis, Corporate Secretary

Town of Fairfield

Sullivan Independence Hall
725 Old Post Road

Fairfield, Connecticut 06824
Purchasing Department

(203) 256·3060
FAX (203) 256·3080

ADDENDUM #1
BID #2023-102
Elevator Replacement – Fairfield Ludlowe High School

24th March 2023 – It is intended that this Addendum incorporating the following corrections, revisions, additions, deletions and clarifications become part of the Contract Documents, including pricing as submitted.

New Information:

1. A pre-bid meeting for this bid solicitation was held at 3:45pm on Thursday, March 16th, 2023 at 785 Unquowa Road, Fairfield, CT 06824. A copy of the sign-in sheet from the pre-bid meeting is posted on the Purchasing Department's page of the Town's website. For your convenience, a direct link to the sign-in sheet is provided below.

2023-102 Pre-Bid Sign-In Sheet

Questions:

1. Does the existing vent in the machine room provide heat and air conditioning?

Response: The vent provides fresh air. It may also provide some heating, but there is no A/C in the building.

2. Do we need to provide HVAC equipment?

Response: No.

3. Will there be retainage? What is the percentage?

Response: Yes, 5% retainage.

4. Will there be liquidated damages? What will they be?

Response: No.

End of Addendum #1

Company: _____ Name: _____ Signature: _____ Date: _____

Town of Fairfield

Sullivan Independence Hall
725 Old Post Road

Fairfield, Connecticut 06824
Purchasing Department

(203) 256·3060
FAX (203) 256·3080

ADDENDUM #2
BID #2023-102
Elevator Replacement – Fairfield Ludlowe High School

27th March 2023 – It is intended that this Addendum incorporating the following corrections, revisions, additions, deletions and clarifications become part of the Contract Documents, including pricing as submitted.

New Information:

*1. Please include in your pricing the supply and install of 12" x 12" **Armstrong Excelon Vinyl** flooring in the elevator.*

End of Addendum #2

Company: _____ Name: _____ Signature: _____ Date: _____

2023-102

Elevator Replacement - FLHS
3/30/2023
11:00 AM

Town of Fairfield - Bid Results

	JLY Enterprises LLC New Haven, CT	**J.A. Rosa Construction LLC** Wolcott, CT	**Holzner Construction** New Haven, CT
BASE BID (lump sum)			
Labor	$50,000.00	$71,940.00	$100,000.00
Materials	$100,000.00	$99,360.00	$85,000.00
Equipment	$50,000.00	$63,552.00	$55,000.00
Admin/Misc	$38,800.00	$21,424.00	$75,000.00
Total	**$238,800.00**	**$256,276.00**	**$315,000.00**
ADD ALTERNATE #1 Remote Monitoring System, Data & Voice	included in base bid	included in base bid	$5,000.00
ADD ALTERNATE #2 Hydraulic Jack Replacement	$60,000.00	224,702.00	50,500.00
Exceptions or Ommissions to specifications	None	For Alternate #2 we have carried on allowance of $80,000 for redrilling.	Lead times will not allow for work to be performed during the summer of 2023.
Hourly Rates			
Supervisor	$100.00/hr	$500.00/hr	$130.00/hr
Foreman	$100.00/hr	$490.00/hr	$130.00/hr
Journeyman	$80.00/hr	$480.00/hr	$110.00/hr
Apprentice	$80.00/hr	$450.00/hr	$110.00/hr
Mark-up over cost for Materials	15%	20%	20%
Work shall be completed	60 days *	180 days	210 days
	*from start of work on site.		
BID BOND	YES	YES	YES

STANDARD AGREEMENT BETWEEN OWNER AND CONTRACTOR
Bid #2023-102
Elevator Replacement – Fairfield Ludlowe High School

This AGREEMENT, made this day of __ _____ 2023, by and between the **TOWN OF FAIRFIELD**, in the County of Fairfield, a municipal Corporation of the State of Connecticut (hereinafter "**TOWN**"), and **JLY Enterprises LLC, dba JLY Construction Managers,** a Connecticut Corporation with its principal place of business at 990 State Street, New Haven, Connecticut, (hereinafter "**CONTRACTOR**").

WITNESSETH, that for and in consideration of the premises and the agreement herein contained, and the payments herein provided to be made, the parties hereto agree as follows:

FIRST: Statutes.

The Contractor agrees to accept and abide by the provisions of Title 31, Section 53 of the 1965 Supplement to the General Statutes, State of Connecticut, which require "The wages paid on an hourly basis to any person performing the work of any mechanic, laborer or worker on the work herein contracted to be done and the amount of payment or contribution paid or payable on behalf of each such person to any employee welfare fund, as defined in subsection (h) of this section, shall be at a rate equal to the rate customary or prevailing for the same work in the same trade or occupation in the town in which such public works project is being constructed. Any Contractor who is not obligated by agreement to make payment or contribution on behalf of such persons to any such employee welfare fund shall pay to each mechanic, laborer or worker as part of such person's wages the amount of payment or contribution for such person's classification on each pay day."

The Contractor agrees and warrants that in the performance of the Contract such Contractor will not discriminate or permit discrimination against any person or group of persons on the grounds of race, color, religious creed, age, marital status, national origin, ancestry, sex, gender identity or expression, intellectual disability, mental disability or physical disability, including, but not limited to, blindness, unless it is shown by such Contractor that such disability prevents performance of the work involved, in any manner prohibited by the laws of the United States or of the State of Connecticut; and the Contractor further agrees to take affirmative action to insure that applicants with job-related qualifications are employed and that employees are treated when employed without regard to their race, color, religious creed, age, marital status, national origin, ancestry, sex, gender identity or expression, intellectual disability, mental disability or physical disability, including, but not limited to, blindness, unless it is shown by the Contractor that such disability prevents performance of the work involved; (b) the Contractor agrees, in all solicitations or advertisements for employees placed by or on behalf of the Contractor, to state that it is an "affirmative action equal opportunity employer" in accordance with regulations adopted by the Commission; (c) the Contractor agrees to provide each labor union or representative of workers with which the Contractor has a collective bargaining agreement or other contract or understanding and each vendor with which the Contractor has a contract or understanding, a notice to be provided by the Commission, advising the labor union or workers' representative of the Contractor's

commitments under this section and to post copies of the notice in conspicuous places available to employees and applicants for employment; (d) the Contractor agrees to comply with each provision of this Section and Connecticut General Statutes §§ 46a-68e and 46a-68f and with each regulation or relevant order issued by said Commission pursuant to Connecticut General Statutes §§ 46a-56, 46a-68e and 46a-68f; and (e) the Contractor agrees to provide the Commission on Human Rights and Opportunities with such information requested by the Commission, and permit access to pertinent books, records and accounts, concerning the employment practices and procedures of the Contractor as relate to the provisions of this Section and Connecticut General Statutes § 46a-56. If the contract is a public works contract, the Contractor agrees and warrants that he will make good faith efforts to employ minority business enterprises as subcontractors and suppliers of materials on such public works projects.

The Contractor agrees and warrants that in the performance of the Contract such Contractor will not discriminate or permit discrimination against any person or group of persons on the grounds of sexual orientation, in any manner prohibited by the laws of the United States or the State of Connecticut, and that employees are treated when employed without regard to their sexual orientation; (b) the Contractor agrees to provide each labor union or representative of workers with which such Contractor has a collective bargaining Agreement or other contract or understanding and each vendor with which such Contractor has a contract or understanding, a notice to be provided by the Commission advising the labor union or workers' representative of the Contractor's commitments under this section, and to post copies of the notice in conspicuous places available to employees and applicants for employment; (c) the Contractor agrees to comply with each provision of this section and with each regulation or relevant order issued by said Commission pursuant to Connecticut General Statutes § 46a-56; and (d) the Contractor agrees to provide the Commission with such information requested by the Commission, and permit access to pertinent books, records and accounts, concerning the employment practices and procedures of the Contractor which relate to the provisions of this Section and Connecticut General Statutes § 46a-56.

SECOND: Engagement and Authorization.

Subject to the terms and conditions set forth in this Agreement, Town does hereby engage and authorize Contractor — and Contractor does hereby accept such engagement and authorization, as an independent contractor for Town — to construct the Construction Project, as here in defined, and to manage such construction for Town. The Contractor further covenants and agrees at its own proper cost, charge, and expense to furnish all machinery, appliances, tools, labor and materials necessary or proper to do all the work necessary to construct all the works equipment and fixtures, appurtenant thereto, as set forth in the Contractor's proposal, annexed hereto, as Exhibit A and known as PURCHASE ORDERS, and as described in the Invitation to Bid #2023-102 Plans and Specifications, attached hereto as Exhibit B, made and prepared by the Town of Fairfield Purchasing Department, in the County of Fairfield; and in the Contract Documents, as defined below in this Contract, which are incorporated by reference and wholly made a part of this Contract to the same extent as though the same were herein expressly written, in a first-class workmanlike manner, and in strict accordance with the plans, drawings and specifications therefore, invitation for bid, and the Contractor's proposal all of which plans, drawings,

specifications, invitation to bid, proposal, award resolution and other Contract Documents. Such work will be performed under the supervision of the Responsible Town Official (herein "RTO"), who for the purposes of this Contract, shall be the Director of Public Works of the Town of Fairfield and/or his appointed agent.

THIRD. In consideration of the Contractor faithfully complying with all the terms and stipulations of this Contract as set forth herein, or in the plans and specifications therefore, advertisement, proposal and other Contract Documents, the Town of Fairfield covenants and agrees to pay the said Contractor at the time and times, and in the manner more particularly set forth in the General Conditions as accepted in the bid submission attached hereto as Exhibit C.

FOURTH. The Contractor agrees to indemnify, defend and hold harmless the Town of Fairfield, its employees, agents and servants from any and all claims or demands for damages or injuries to either person or property which arise or may arise out of the performance of this contract, and shall indemnify and insure the Town of Fairfield in the manner more particularly set forth in the Insurance Requirements attached herein as Exhibit D, which are made part of this Contract.

FIFTH. The term "Contract Documents" shall mean and include the following:

Advertisement for Bid

1. Instructions to Bidders
2. Bid Proposal
3. All Contract Forms:
    a. Bid Bond
    b. Certificate of Surety
    c. Statement of Compliance with Bidding Requirements
    d. Contract
    e. Acknowledgement of Officer of Town Executing Contract
    f. Acknowledgement of Corporate Contractor
    g. Acknowledgement of Contractor, if an Individual
    h. Performance and Labor and Material Bond
    i. Certificate of Insurance
    j. Non-Collusion Affidavit of Prime Bidder
    k. Non-Collusion Affidavit of Subcontractor
    l. Notice of Award
    m. Notice to Proceed
    n. Change Orders
    o. Town of Fairfield, Standard Insurance Requirements
4. General Conditions
5. Supplemental General Conditions
6. Special Conditions
7. Contract Specifications

IN WITNESS WHEREOF, the Town Council of the Town of Fairfield, in the County of Fairfield

has authorized the Corporate Seal of the Town of Fairfield to be hereto affixed and this Contract to be signed by the Purchasing Authority and that same attested to by the Town Clerk and the Contractor has caused this Contract to be signed by its duly authorized officer, and its corporate seal to be hereunto affixed on the day and year first above written.

TOWN OF FAIRFIELD

By_____

Its: _____
Date: _____, 2023

By_____

Its: _____
Date: _____, 2023

JLY Enterprises, LLC.

By_____

Its:
Date: _____, 2023

EXHIBIT A
PURCHASE ORDER FY 2023

EXHIBIT B
INVITATION TO BID #2023-102

EXHIBIT C
CONTRACTOR'S BID SUBMISSION

EXHIBIT D
CERTIFICATE OF INSURANCE

Town of Fairfield

Sullivan Independence Hall
725 Old Post Road

Fairfield, Connecticut 06824
Purchasing Department

(203) 256·3060
FAX (203) 256·3080

Award Recommendation Resolution:

On Wednesday, 19th April 2023, the Purchasing Authority awarded Bid number 2023-132 Seasonal Custodial Services-Town of Fairfield, to Champion Maintenance & Construction, Fairfield, CT, to provide all labor, materials, equipment and all else necessary, for custodial services for the Town of Fairfield as detailed in the bid specifications.

Total for 7 days including Memorial Day, July 4th and Labor Day: $54,799.00
Total for 7 days including Memorial Day, July 4th and Labor Day: $5,104.00
Grand Total for 7 days: $59,883.00

Total for Weekends Only: Including Coastal Stations with additional cleanings: $15,504.00
Total for Weekends Only: Penfield $1,408.00
Grand Total for Weekends Only: $15,504.00

Special Fees:

Hourly rates for additional requests (holidays, weekends or weekdays): $33.00/hour
Additional Cleaning Services as specified in Bid document: $.30/square foot

Champion Maintenance & Construction. has provided the Town with a comprehensive schedule that fully addresses all the requirements outlined in the Bid scope of work.

The award of this contract to Champion Maintenance & Construction shall be subject to the review and approval of the Board of Selectmen.

Brenda L. Kupchick, First Selectwoman

Adam B. Tulin, Director of Purchasing

Town of Fairfield

Sullivan Independence Hall
725 Old Post Road

Fairfield, Connecticut 06824
Purchasing Department

(203) 256-3060
FAX (203) 256-3080

BID #2023-132

Seasonal Custodial Services-Town of Fairfield

TOWN OF FAIRFIELD
PURCHASING AUTHORITY
725 OLD POST ROAD
INDEPENDENCE HALL
FAIRFIELD, CT 06824.

Date Submitted April 5, 2023.

SEALED BIDS are subject to the standard instructions set forth on the attached sheets. Any modifications must be specifically accepted by the Town of Fairfield, Purchasing Authority.

First Selectwoman

Director of Purchasing

3/21/2023
Date

Bidder:

Champion Maintenance and Construction
Doing Business As (Trade Name)

301 Commerce Drive
Address

Fairfield, CT 06825
Town, State, Zip

Mr. Arturo Gravina, Director of Operations
(Mr/Ms) Name and Title, Printed

Signature

203 572-6589
Telephone

AGravina@champservicesllc.com
E-mail

Sealed bids will be received by the Purchasing Authority at the office of the Director of Purchasing, First Floor, Independence Hall, 725 Old Post Road, Fairfield, Connecticut 06824, up to:

11:00 am, Thursday, 6th April, 2023

To provide labor, materials, equipment and all else necessary to perform custodial services for all Town of Fairfield seasonal locations listed as detailed in the attached specifications.

NOTES:

1. Bidders are to complete all requested data in the upper right corner of this page and must return this page and the Proposal page with their bid.
2. No bid shall be accepted from, or contracts awarded to, any person/company/affiliate or entity under common control who is in arrears to the Town of Fairfield upon debt, or contract or who has been within the prior five (5) years, a defaulter as surety or otherwise upon obligations to the Town of Fairfield, and shall be determined by the Town.
3. Bid proposals are to be submitted in a sealed envelope and clearly marked "**BID #2023-132**" on the outside of the envelope, including all outer packaging, such as, DHL, FedEx, UPS, etc.
4. It is the sole responsibility of the bidder to see that the bid is received by the Fairfield Purchasing Department prior to the time and date noted above. Bid proposals are not to be submitted via email or fax.
5. Bid proposals are not to be submitted with plastic binders or covers, nor may the bid proposal contain any plastic inserts or pages.

INVITATION TO BID

The Town of Fairfield (Town) on behalf of its Department of Public Works (DPW) is seeking competitive bids from qualified contractors to provide all labor, material, equipment and all else necessary for custodial services for the Town of Fairfield as specified.

PRE-BID MEETING

A site meeting will commence at **10:00am, 725 Old Post Road, Fairfield, Connecticut** on **Tuesday, 28th March, 2023** for prospective bidders to scope the conditions.

- While the meeting is non-mandatory, prospective bidders will be required to sign-in at commencement of the meeting. The sign-in sheet will be posted on the Purchasing Department website as below. Copies will not be made available at the meeting, nor will they be faxed out.
- All requests for information will be answered in writing as specified below under Addenda.

ADDENDA / REQUESTS FOR INFORMATION (RFI)

Addenda concerning important information and/or modifications to specifications will be posted on the Fairfield Purchasing Department website at http://www.fairfieldct.org/purchasing

- It is each Bidder's sole responsibility to monitor the above website for all updated information.
- Addenda will not be mailed, e-mailed or faxed out.
- Written requests for information will not be accepted after **11:00am** on **Thursday, 30th March, 2023.**
- Verbal requests for information via phone or other means will not be accepted.
- Failure to comply with these conditions will result in the bidder waiving the right to dispute bid specifications and conditions, no exceptions.

Questions concerning this bid must be submitted in writing and directed only to:
Pru O'Brien, Junior Buyer
pobrien@fairfieldct.org

Response will be in the form of an addendum that will be posted approximately **31st March, 2023** to the Town of Fairfield website, which is www.fairfieldct.org. It is the responsibility of each bidder to retrieve addenda from the website. Any contact about this bid between a Bidder and any other Town official and/or department manager and/or Town of Fairfield employee, other than as set forth above, may be grounds for disqualification of that Bidder. No questions or clarifications shall be answered

BID BOND / BID SECURITY

A five (5) percent bid bond or equal approved security as stated per the Terms and Conditions must be submitted with the proposal.

All bonds, including payment and performance bonds when applicable, shall be written by a surety company or companies licensed to issue bonds in the State of Connecticut, and shall have at least an A-VII policy holders rating, as reported by A.M. Best Rating Services, or otherwise deemed acceptable by the Town. The Town always reserves the right to reject surety companies, if an approved surety bond cannot be provided the bidder shall be deemed non-responsive.

A complete list of certified surety companies can be accessed on the U.S. Government Department of Treasury website; https://www.fiscal.treasury.gov/fsreports/ref/suretyBnd/c570_a-z.htm

Any bid submitted without such security will be excluded from the bidding process, no exceptions.

TERM / RENEWAL OF CONTRACT – April 15 – November 15

The Town of Fairfield intends to award a (12) month contract with four (4) one-year optional renewal terms.

- On (60) days advance written notice, the Town may renew the 2023 contract per the same terms and conditions, including a mutually agreed upon optional cost of living allowance (COLA) reflecting industry standards.
- Each contract extension may be offered at the sole discretion of the Town of Fairfield.
- In the event that the Contractor does not perform the work in accordance with the specifications and/or scope of services, the Town reserves the right to terminate the contract with two (2) weeks' written notice.

REQUIREMENTS

A. Any sizes or estimate of quantities are approximate and are not guaranteed in any respect. Prospective bidders are to visit the sites to verify scope of the work, measurements, quantities, etc., prior to bidding. The Town reserves the right at all times to increase or decrease the amount of work if deemed in its best interest.

B. Price is to include all labor, materials, tools, equipment, supplies, insurances, etc., required to properly complete these services.

C. The Town of Fairfield reserves the right to award the bid with multiple items:
   - to more than one bidder, based on meeting the item(s) specification, cost, availability, or any combination of these criteria;

- to a single bidder who meets the specifications for all items, and offers the best combination of lowest cost, best availability, and broadest product range;
- and may add, subtract or delete any item and/or quantity as deemed in the best interest of the Town.

D. The Bidder must not discriminate, nor permit discrimination, against any person on the grounds of race, color, national origin, religion, sex, handicap, or veteran status, in their employment practices, in any of their contractual arrangements, in all service and accommodations they offer to the public, and in any of their other business operations.

E. The successful bidder MUST secure all required licenses and permits (local, state, federal) prior to commencing work.

F. Award of these services, either partial or in its entirety, is contingent upon funding approval by the applicable boards of the Town of Fairfield, including state and federal agencies.

G. **Upon Award, all bidding documents shall constitute a legal contract including but not limited to the following; Bid Invitation, Addendum, Award Resolution, and Town Purchase Order.**

NOTE: In the event that the Town elects to renovate and/or commence new building construction during the term of the Agreement, the Town shall not be held under any obligation to provide a replacement facility to the Contractor.

GENERAL CONDITIONS

1. The Contractor shall be responsible for supplying all cleaning products to perform the work and shall provide a copy of the Material Safety Data Sheet to the respective department.
2. All cleaning products and chemicals must be in compliance with OSHA standards.
3. Contractor shall be responsible for supplying their own vehicle, equipment (i.e. vacuums, mops, buckets, cleaning carts, etc.) and all cleaning products required to perform the work, unless otherwise noted.
4. The Town will supply all paper products (i.e. toilet paper, paper towels for dispensers), hand soap and sanitizer, and trash liners.
5. The Contractor will be responsible for routinely emailing inventory list to the Town department designee.
6. Employees, including substitutes, must be assigned permanently to the contract. The Contractor shall notify the assigned Town department designee, with 24-hour notice of any personnel changes to the regular shift. Contractor must provide onsite supervision for all cleaning personnel, at all times.
7. Bidders shall include a list of all applicable subcontractors employed by the Contractor including respective labor rates in their bid submittals. All subcontractors are subject to approval by the Town. Subcontractors must furnish liability insurance. Contractor may be requested to provide licenses/permits/certification where applicable in order to perform the work, including all subcontractors.
8. Employees (both assigned staff and any potential substitutes) may be subject to background checks upon request, prior to commencing the work, and may be required to display identification. The Contractor shall notify the Town department designee at least one (1) day in advance of any staff changes made to the next shift. All background checks, drug screenings, and fingerprinting expenses shall be paid by the Contractor and must not be billed back to the Town or District.
9. The Contractor shall be responsible for resolving service issues, including any damages to furnishings and fixtures, building structure and grounds, resulting from the work performed as part of this contract. Only top-quality products, vacuums, floor machines and cleaning implements shall be used in the janitorial operations. Contractor must provide supervision for all cleaning personnel at all times.
10. The Town of Fairfield will not accept receipt of work performed unless all specifications and services stated in the bid document have been accommodated and/or approved by the Town department designee. The Contractor shall be required to correct any nonconforming issues, at no expense to the Town of Fairfield.
11. The Contractor shall be responsible for any repairs to damaged buildings, grounds and/or fixtures resulting from any work performed as part of this contract, and should mention any leaks or broken fixtures, etc. that are discovered, to the Town department designee at each location.
12. Three (3) references are required to be submitted with the proposal for similar scope contracts performed.
13. All doors and windows must be locked prior to setting the alarm at completion of each shift. This includes disengaging the alarm prior to commencing each shift. Contractor shall be responsible for all fees incurred for building alarm callbacks at the Department of Public Works (DPW) rate of time and one half (approximately $130.00).
14. **The regular schedule includes work on public holidays listed: Memorial Day, July 4th and Labor Day.**

15. Facility Access

A. The Town Department designee will provide the Contractor's on-site supervisor with building entry keys and/or key code access as applicable. Only the Contractor's on-site supervisor will be authorized to lock or unlock doors for Contractor personnel. The Contractor is responsible for informing its employees of all security measures that must be adhered to. Any violations of such measures caused by Contractor or its employees will subject the Contractor to fines and/or cancellation of the contract

B. Keys to the Facility will be furnished by the Town Department Designee to the Contractor. Contractor shall sign a key receipt form as provided by the Town Department Designee. All keys will remain the property of the Town and will not be duplicated by the Contractor or its employees. The Contractor shall return all keys to the Town Department Designee upon request and at the end of the term of the Contract. If any keys are not returned by Contractor, a charge for re-keying affected locksets will be assessed against Contractor. The Contractor shall also assume the cost of re-keying buildings if keys are lost or stolen by the Contractor or its employees or representatives.

C. Contractor shall report shall report the loss of any keys to the Client Agency Designee within two (2) hours after the Contractor or any of its employees or representatives are notified or become aware of such loss. Contractor shall accept full responsibility of such loss and expenses that may result including, but not limited to re-keying of the Facility. Failure of the Contractor to report the loss of any keys or to accept full responsibility for any loss or expense in accordance with the terms of this provision will be grounds for immediate termination of the contract.

16. Building Facility Security

A. Contractor shall adhere to established security and/or property entrance policies and procedures for each Town Department. It is the responsibility of each Contractor to understand and adhere to those policies and procedures prior to any attempt to enter the Facility for the purpose of carrying out the scope of work described in this Contract.

B. The Contractor shall train its employees in the security requirements and emergency evacuation procedures as described by the Town Department Designee and will be responsible for enforcing the security rules as such rules apply to its employees.

C. Contractor shall provide identification badges for all employees. The badges will have the company name/logo, employee's photograph, name and signature. The badges will be worn by the employee at all times within the Facility. Contractor's employees may not lend identification badges to another person.

D. In the event of termination, the Contractor shall immediately deliver to the Town Department or the Town Department Designee all keys, drawings, plans, sketches and specifications, any data pertaining to the Contract, and any unused material supplied to the Contractor by the Town Department Designee or any other representative of the Town.

17. Building Facility Site Limitations

A. Neither the Contractor nor any of its employees or other personnel shall bring or use drugs or alcohol at the Facility or any other Town State property.

B. Neither Contractor nor any of its employees or other personnel shall bring any unauthorized personnel, including children, onto the Facility or any other Town property.

C. The Contractor's staff shall not use any telephones, office equipment or any other personal property belonging to the Town, the Town Department Designee or any employee of the Town.

D. Neither the Contractor nor any of its employees or personnel shall bring any guns, knives or other dangerous weapons, as identified by the Town Department Designee, onto the Facility or any other Town property.

18. Daily Log

The Contractor shall maintain and sign a daily logbook used by the Town Department Designee to verify that the Services are completed each day and to record any concerns needing corrective action. The Contractor's on-site supervisor shall review this logbook at the beginning of each shift and shall ensure that noted corrections are made if corrections are Contractor's responsibility. If corrections are not Contractor's responsibility, then the on-site supervisor shall verify and note in the log book that such concerns have been forwarded to the Town Department Designee.

19. Contractor's Employees

A. Contractor shall provide on-site supervision. Contractor's supervisors shall be literate in the English language. Contractor's supervisors shall also be capable of communicating with all Contractors' employees in the event they do not speak English.

B. All crews necessary to perform will be fully staffed at the commencement of this Contract. All personnel will receive close and continuing first line supervision by the Contractor. Contractor shall provide documentation at the request of the Town Department Designee that demonstrates the employees have had adequate training in all necessary State, Federal and OSHA regulations. In addition, the Contractor's staff (including newly hired personnel) will be trained in fire safety, general hazards as well as in the proper mixing and applying of cleaning supplies. The Town Department Designee may require that the Contractors' employees wear uniforms that bear the Contractor's company logo, and such uniforms will not be dirty, stained or torn.

SCOPE OF WORK

1. **Comfort Stations**

Lavatory Daily Tasks: All comfort stations shall be serviced daily **(1x per day)** during the period of April 15th through November 10th (approximately). Dates shall be confirmed with the Town department designee.

** Coastal Comfort Stations will require an additional visit, and shall be serviced daily **(2x per day)** during the period of Memorial Day through Labor Day (approximately), while beaches are open to the public.

Section A: Inland Facilities

a. Veterans Park (256 square feet)
b. Gould Manor Park (256 square feet)
c. Dougiello Field (256 square feet)
d. Burroughs Park (256 square feet)
e. Owen Fish (256 square feet)
f. Melville Park (256 square feet)
g. Upper Tunxis Hill (200 square feet)
h. Lower Tunxis Hill (200 square feet)
i. Brookside Park (256 square feet)
j. Ludlowe Tennis and Turf (During School Only) (260 square feet)
k. Mill Hill School (200 square feet)
l. Kiwanis Field (260 square feet)
m. Tom Haydon Field (350 square feet)
n. Beanery (350 square feet)

Section B: Coastal Comfort Station Facilities

a. ** Penfield Pavilion- two (2) sets of bathrooms (1,000 square feet)
b. ** Jennings Beach (800 square feet)
c. ** South Benson Marina (256 square feet)- Note: The South Benson Marina is open through the third weekend of November.
d. ** Lake Mohegan (450 square feet)
e. ** Southport Beach (260 square feet)
f. ** Ye Yacht Yard (260 square feet)
g. ** Sasco Beach (260 square feet)
h. ** South Pine Creek Beach (200 square feet

2. **Lavatory Daily Tasks:**

- Sweep and mop floors using proper disinfectants, rinse and dry.
- Wash basins, urinals and bowls with proper disinfectant; wash both sides of toilet seat with approved germicidal detergent solution.
- Clean and disinfect all counter tops, sinks, mirrors, piping, commodes and seat hinges.
- Polish mirrors, powder shelves, bright work, including flushometers, piping and toilet seat hinges.

- Damp-wipe walls, wall fixtures and partitions. All surfaces are to be free of watermarks and fingerprints, etc.
- Empty all waste receptacles and clean sanitary disposal receptacles; remove waste to a designated disposal area on premises.
- Damp-wipe exterior lavatory waste receptacles.
- Fill toilet tissue, soap and towel dispensers with supplies.
- Clean slop sinks; return all equipment and supplies to storage location upon completion of work.
- Secure all windows and doors upon completion of work.
- Extinguish all but designated night-lights upon completion of work.
- Sweep and wash floor using proper disinfectants.
- Polish mirror, powder shelves, bright work, including flushometers, piping and toilet seat hinges.
- Wash basins, urinals and bowls with proper disinfectant.
- Wash both sides of toilet seat with approved germicidal detergent solution.

3. Additional Services (Upon Request):

These services shall be performed upon request only and shall not be included in the general conditions and are NOT part of the Base Bid. The Contractor shall provide additional services upon request for all items as defined below. These services may be requested multiple times per year, or as deemed necessary by the Town department designee. Not all services may be requested in any given instance. Costs for additional services are not to be included under the regular schedule.

Deep Cleaning Comfort Stations:

- Wipe down doors, walls, plumbing fixtures with Heavy duty cleaner.
- Clean windows interior/exterior.
- Clean mirrors.
- Clean Appliances; Fans, light fixtures, hand dryers.
- Strip and wax tile floors.

Emergency On-call Clean-up Services

- Emergency on-call clean-up service must be provided within twelve hours of notice. Pricing shall be listed as a price per visit on the Pricing Proposal Form.
- An on-call cleaning service must be provided by the Contractor within twelve hours of notice. Provide flat hourly rate based on minimum four (4) hours. Hourly rate must be inclusive of call-out fee and travel time.
- Prior to commencing the work, the Contractor may be required to supply a list of cleaning products that are to be used for specialized cleaning projects for removal of blood, urine, etc. The awarded contractor should provide a bio-hazard specialist or trained personnel for these projects.
- The Contractor must be able to respond to emergency situations such as vomit and other bodily fluids.

BID PROPOSAL FORM
(page 1 of 3)

PROPOSAL TO: Town of Fairfield, Purchasing Department
First Floor, Sullivan Independence Hall
725 Old Post Road, Fairfield, Connecticut 06824

I, Arturo Gravina *have received the following contract documents,*

1. BID Document **#2023-132,**
2. Posted addenda (if any) numbered _____ *thru* _____ , posted at **www.fairfieldct.org/purchasing**

and have included their provisions in my Proposal. I shall provide all labor, materials, equipment, technical service, insurances, warranties, applicable taxes and licenses, etc, to supply and deliver materials as specified:

1. Comfort Stations

All comfort stations shall be serviced daily (1x per day) during the period of April 15th through November 10th (approximately).
** **Coastal Comfort Stations** will require an additional visit, and shall be serviced twice a day during the period of Memorial Day through Labor Day (approximately), while beaches are open to the public.

Pricing for 7 days for stations *including Memorial Day, July 4th and Labor Day*–**Pricing for Penfield only is separate below:**

DATES	A PRICE PER MONTH (1x/day - 7 days/week)	B *PRICE PER MONTH (Additional Cleaning – Coastal Facilities only Memorial Day – Labor Day)	C TOTAL PRICE PER MONTH (A+B=C)
April 15 – May 15	4,895		4,895
May 16 – June 15 *Additional cleaning coastal stations only May 27 – June 15	4,730	5,376	10,106
June 16 – July 15 *Additional cleaning coastal stations only - full month	4,730	5,376	10,106
July 16 – August 15 *Additional cleaning coastal stations only – full month	4,730	5,376	10,106
August 16 – September 15 *Additional cleaning coastal stations only August 16 – September 4	4,730	5,376	10,106
September 16 – October 15	4,730		4,730
October 16 – November 15	4,730		4,730
PENFIELD ONLY April 15 – May 26	1,892		1,892
PENFIELD ONLY Sept 5 – November 15	3,212		3,212

BID PROPOSAL FORM
(page 2 of 3)

****Pricing for Weekends Only- Pricing for Penfield is separate below**

DATES	PRICE PER MONTH WEEKENDS ONLY (1x/day)	*PRICE PER MONTH (Additional Cleaning – Coastal Facilities Weekends Only Memorial Day – Labor Day)	TOTAL PRICE PER MONTH (A+B=C)
April 15 – May 15	1,631		1,631
May 16 – June 15 *Additional cleaning coastal stations only May 27 – June 15	1,304	1,040	2,344
June 16 – July 15 *Additional cleaning coastal stations only - full month	1,304	1,561	2,865
July 16 – August 15 *Additional cleaning coastal stations only – full month	1,304	1,561	2,865
August 16 – September 15 *Additional cleaning coastal stations only August 16 – September 4	1,304	1,561	2,865
September 16 – October 15	1,467		1,467
October 16 – November 15	1,467		1,467
PENFIELD ONLY April 15 – May 26	528		528
PENFIELD ONLY Sept 5 – November 15	880		880

Please include unit pricing hourly rates if the staff were to stay additional hours on a holiday, weekend or weekday.

$ 33.00 /hour

2. Additional Services/ Services Upon Request:

Deep Cleaning Comfort Stations:

- Wipe down doors, walls, plumbing fixtures with Heavy duty cleaner.
- Clean windows interior/exterior.
- Clean mirrors.
- Clean Appliances; Fans, light fixtures, hand dryers.
- Strip and wax tile floors.

$ .30¢ /sq ft

BID PROPOSAL FORM
(page 3 of 3)

On-call Service w/ 4-Hour Response. Submit flat rate based on minimum four hours, including call-out and travel.

$ 27.00 /hour – Business Hours. Based on minimum four hours, including call out fee and travel time.

$ 33.00 /hour – After Hours. Based on minimum four hours, including call out fee and travel time.

The Town has the right to add or remove items and/or quantities from this bid. Unbalanced bids will not be accepted.

The Town of Fairfield reserves the right to award the bid with multiple items:

a) To more than one bidder, based on meeting the item(s) specification, cost, availability, or any combination of these criteria;

b) To a single bidder who meets the specifications for all items, and offers the best combination of lowest cost, best availability, and broadest product range;

c) May add, subtract or delete any item and/or quantity as deemed in the best interest of the Town.

d) All pricing shall include the cost of labor, materials, equipment, tools, mobilization, incidentals, delivery, (where not waived by the Town), licenses, overhead and profit, taxes (except from which the Town is exempt) and insurances.

CHECKLIST
The following must be submitted with proposal:

- ☑ Cover page, completed and signed.
- ☑ Addenda acknowledged per Item 2 on Bid Proposal Form, or
- ☑ Signed and submitted with modified pricing if requested.
- ☑ List of references where projects performed of comparable size and scope within the past three years.
- ☐ Schedule of values.
- ☑ List of all sub-contractors identifying each trade, hourly rates, and Tax ID number. N/A
- ☑ **Bid Bond or equal approved security.**

The Bidder hereby certifies that any and all defects, errors, inconsistencies or omissions of which he/she is aware, either directly or by notification from any sub-bidder or material supplier found in the Contract Documents are listed herewith in this Bid Form.

Arturo Gravina
Name and Title of Authorized Representative (Printed)
Director of Operations

Signature

April 5, 2023
Date

REFERENCES

Provide reference details of most recent similar scope projects performed.

REFERENCE #1:

Name of Company Town of Fairfield — Phone 203 256-3000
Contact Person James Ryan — Cell 203 767-2129
Company Address 725 Old Post Rd, Ffld, CT — Email james.ryan@Fairfieldct.org
Project, Location, & Date Completed Cleaning Services: Old Town Hall, Public Works, Fire School, Bigelow Senior Ctr, Scale Bldg & Guard Hovse, Sullivan Independence Hall, Ffld Rec Center - Ongoing/Current

REFERENCE #2:

Name of Company Town of Westport — Phone 203 341-5086
Contact Person Carmen Roda — Cell 203 993-5845
Company Address 260 Compo Road South, Westport CT — Email croda@westportct.gov
Project, Location, & Date Completed Parks & Recreation: Cleaning Services Longshore Pool & Compo Beach Bathrooms - Ongoing/Current

REFERENCE #3:

Name of Company Cornell Scott Hill Health Corp — Phone 203-503-3413
Contact Person Kelly Hart — Cell 603-770-1719
Company Address 400 Columbus Ave, New Haven, CT — Email Khart@cornellscott.org
Project, Location, & Date Completed Cleaning Services: 400 Columbus Ave N.H., 410 Campbell Ave, W.H. 226 Dixwell Ave, N.H, 911 State St, N.H, 285 Main St W.H, 132 Wilmot Rd N.H, Wakefield, Ansonia - Ongoing/Current

REFERENCE #4:

Name of Company Town of Southington — Phone 860-628-3200
Contact Person Peter Romano — Cell 860-712-2730
Company Address 240 Main Street, Southington — Email promano@southingtonschools.org
Project, Location, & Date Completed Cleaning Services - Derynoski School 240 Main Street, Southington - Ongoing/Current

REFERENCE #5:

Name of Company Milestones Behavorial Services — Phone 203 882-8810
Contact Person Glenn Vaill — Cell 475-434-2566
Company Address 95 Wolf Harbor Rd, Milford — Email gvaill@cccdinc.org
Project, Location, & Date Completed Cleaning Services - 95 Wolf Harbor Rd, Milford 339 Boston Post Rd, Orange and 925 Bridgeport Ave, Milford - Ongoing/Current

SUBCONTRACTORS
Provide subcontractor details if any are to be employed as part of this contract, including labor rates:

SUBCONTRACTOR #1: N/A

Name of Company _____ Fed ID # _____

Contact Person _____ Title _____

Company Address _____ Phone _____

Trade _____ Email _____

Rates: Supervisor $_____/hr Foreman $_____ /hr Journeyman $_____ /hr Apprentice $_____ /hr

SUBCONTRACTOR #2:

Name of Company _____ Fed ID # _____

Contact Person _____ Title _____

Company Address _____ Phone _____

Trade _____ Email _____

Rates: Supervisor $_____/hr Foreman $_____ /hr Journeyman $_____ /hr Apprentice $_____ /hr

SUBCONTRACTOR #3:

Name of Company _____ Fed ID # _____

Contact Person _____ Title _____

Company Address _____ Phone _____

Trade _____ Email _____

Rates: Supervisor $_____/hr Foreman $_____ /hr Journeyman $_____ /hr Apprentice $_____ /hr

SUBCONTRACTOR #4:

Name of Company _____ Fed ID # _____

Contact Person _____ Title _____

Company Address _____ Phone _____

Trade _____ Email _____

Rates: Supervisor $_____/hr Foreman $_____ /hr Journeyman $_____ /hr Apprentice $_____ /hr

NOTE: All sub-Contractors are subject to approval by the Town of Fairfield and are required to provide Fed ID #.

PURCHASING AUTHORITY
TOWN OF FAIRFIELD
INSTRUCTIONS FOR BIDDERS
TERMS AND CONDITIONS OF BID

BID PROPOSALS
Bid proposals are to be submitted in a **sealed envelope** and clearly marked on the outside **"BID #2023-132"** including all outer packaging such as DHL, FedEx, UPS, etc. All prices and notations must be printed in ink or typewritten. No erasures are permitted. Bid proposals are to be in the office of the Purchasing Authority, First Floor, Independence Hall, 725 Old Post Road, Fairfield, Connecticut, prior to date and time specified, at which time they will be publicly opened.

RIGHT TO ACCEPT / REJECT
AFTER REVIEW OF ALL FACTORS, TERMS AND CONDITIONS, INCLUDING PRICE, THE PURCHASING AUTHORITY OF THE TOWN OF FAIRFIELD RESERVES THE RIGHT TO REJECT ANY AND ALL BIDS, OR ANY PART THEREOF, OR WAIVE DEFECTS IN SAME, OR ACCEPT ANY PROPOSAL DEEMED TO BE IN THE BEST INTEREST OF THE TOWN OF FAIRFIELD.

QUESTIONS
Questions concerning conditions, bidding guidelines and specifications **should be directed in writing** to:

Ms. Pru O'Brien, Junior Buyer: pobrien@fairfieldct.org

Inquiries must reference date of bid opening, requisition or contract number, and must be received **no later than as indicated in the bid documents** prior to date of bid opening. Failure to comply with these conditions will result in the bidder waiving the right to dispute the bid specifications and conditions.

PRICES
Prices quoted must be firm, for acceptance by the Town of Fairfield, for a period of (120) days. Prices shall include all applicable duties. Bidders shall be required to deliver awarded items at prices quoted in their original bid.

F.O.B. DESTINATION
Prices quoted shall be Net – Delivered to destination. Bids quoting other than F.O.B. Destination may be rejected.

BID BOND
The **BID BOND** furnished, as bid security, must be duly executed by the bidder as principal. It must be in the amount equal to five percent (5%) of the total estimated bid, as guarantee that, in case the contract is awarded to the bidder, the bidder will, within ten days thereafter, execute such contract and furnish a Performance Bond and Payment Bond.

Small businesses may elect to obtain an irrevocable letter of credit or cashier's check in lieu of the Bid Bond. Such surety must also be in an amount equal to at least five percent (5%) of the total estimated bid.

All bid bonds shall be written by a surety company or companies licensed to issue bonds in the State of Connecticut, and shall have at least an A-VII policy holders rating, as reported by A.M. Best Rating Services, or otherwise deemed acceptable by the Town. The Town always reserves the right to reject surety companies, if an approved surety bond cannot be provided, the bidder shall be deemed non-responsive.

A complete list of certified surety companies can be accessed on the U.S. Government Department of Treasury website; https://www.fiscal.treasury.gov/fsreports/ref/suretyBnd/c570_a-z.htm

NOTE: Failure to provide a Bid Bond or equivalent security is not cause for a waiver defect. Any bid not accompanied by such security will be excluded from consideration.

PAYMENT PROCEDURES
No voucher, claim or charge against the Town shall be paid without the approval of the Fiscal Officer for correctness and legality. Appropriate checks shall be drawn by the Fiscal Officer for approved claims or charges and they shall be valid without countersignature unless the Board of Selectmen otherwise prescribed.

PAYMENT PERIOD
The Town of Fairfield shall put forth its best effort to make payment within thirty days (30) after delivery of the item acceptance of the work, or receipt of a properly completed invoice, whichever is later. Payment period shall be net thirty days (30) unless otherwise specified. For projects that do not require a performance or bid bond, The Town of Fairfield reserves the right to retain five percent (5%) of total bid amount, which is payable ninety (90) days after final payment or acceptance of the work.

PURCHASING AUTHORITY
TOWN OF FAIRFIELD
INSTRUCTIONS FOR BIDDERS
TERMS AND CONDITIONS OF BID

THE CONTRACTOR

The Contractor for the work described shall be thoroughly familiar with the requirements of all specifications, and the actual physical conditions of various job sites. The submission of a proposal shall be construed as evidence that the Contractor has examined the actual job conditions, requirements, and specifications. Any claim for labor, equipment, or materials required, or difficulties encountered which could have been foreseen had such an examination been carefully made will not be recognized.

ASSIGNMENT OF CONTRACT

No contract may be assigned or transferred without the consent of the Purchasing Authority.

AWARD OF BIDS

Contracts and purchases will be made or entered into with the lowest responsible bidder meeting specifications, except as otherwise specified in the invitation. If more than one item is specified in the invitation, the Town of Fairfield reserves the right to determine the low bidder on an individual basis or on the basis of all items included in the Invitation for Bids, unless otherwise expressed by the Town.

~~PERFORMANCE AND LABOR AND MATERIAL BOND~~

~~The successful bidder, within seven (7) business days after notification of award, will be required to furnish Performance and Labor and Material Bond provided by a company authorized to issue such bonds in the State of Connecticut, or Certified Check or properly executed Irrevocable Letter of Credit equal to a hundred per cent (100%) of the award.~~

~~In the event that the Contractor where required to provide evidence of insurance and a performance bond does not do so before beginning work, the Town of Fairfield reserves the right to withhold payment from such supplier until the evidence of insurance and performance bond has been received by the Town.~~

~~All payment and performance bonds shall be written by a surety company or companies licensed to issue bonds in the State of Connecticut, and shall have at least an A-VII policy holders rating, as reported by A.M. Best Rating Services, or otherwise deemed acceptable by the Town. The Town always reserves the right to reject surety companies, if approved surety bonds cannot be provided the contract shall be terminated.~~

~~A complete list of certified surety companies can be accessed on the U.S. Government Department of Treasury website; https://www.fiscal.treasury.gov/fsreports/ref/suretyBnd/c570_a-z.htm~~

BOND REQUIREMENT – NON-RESIDENT CONTRACTORS

1. Non-resident contractors are required to deposit with the Department of Revenue Services a sum equivalent to 5% of the total contract value, as assurance that personal property taxes and/or any other State taxes assessed and due the State during the contract will be paid.
2. If this surety is not deposited with the State, the Town is required to deduct and submit to the State 5% of the total contract value.

GUARANTEE

Equipment, materials and/or work executed shall be guaranteed for a minimum period of one (1) year against defective material and workmanship. The cost of all labor, materials, shipping charges and other expenses in conjunction with the replacement of defective equipment, and/or unsatisfactory work, shall be borne by the Contractor.

CATALOGUE REFERENCE

Unless expressly stated otherwise, any and all reference to commercial types, sales, trade names and catalogues are intended to be descriptive only and not restrictive; the intent is to indicate the kind and quality of the articles that will be acceptable. Bids on other equivalent makes, or with reference to other catalogue items will be considered. The bidder is to clearly state exactly what will be furnished. Where possible and feasible, submit an illustration, descriptive material, and/or product sample.

OSHA

The bidder will certify all equipment complies with all regulations and conditions stipulated under the Williams-Steiger Occupational Safety and Health Act of 1971, as amended. The successful bidder will further certify that all items furnished under this project will conform and comply with Federal and State of Connecticut OSHA standards. The successful bidder will agree to indemnify and hold harmless the Town of Fairfield for any and all damages that may be assessed against the Town.

LIFE CYCLE COSTING

Where applicable, Life Cycle Costing will be used as a criterion for awarding bids. This is a method of calculating total cost of ownership of an item over the life of the product, which may include operation and maintenance expenses, transportation, salvage value, and/or disposal costs.

INSURANCE

The Contractor shall not commence any work under the Contract until all insurance required by this section shall has been obtained and Certificates of Insurance and any other evidence of required coverage requested by the Town, including a copy of the policy itself, have been received and approved by the Town.

Such policies shall stipulate that no coverage can be changed or canceled, including for non-payment of premium, unless the Town has had thirty (30) days prior notice in writing. Certificates of renewals or changes in policies shall be delivered to the Town at least thirty (30) days prior to the expiration of the policy. All insurance issuers chosen by the Contractor must be licensed to do business in the State of Connecticut and rated A- or better by A.M. Best Rating Services.

The Town always reserves the right to reject insurance companies, if approved insurance policies cannot be provided the contract shall be terminated.

The insurance requirements set forth below are minimum limits of coverage only and in no way limit the Contractor's liability.

The following insurance is required to be maintained in full force until all work required by the contract has been fully completed, except that Products/Completed Operations coverage shall be maintained for 5 years.

Worker's Compensation Insurance: The Contractor shall carry Worker's Compensation and Employer's Liability Insurance in the form and in such amounts as may be currently required to comply with the Labor Laws of the State of Connecticut.

Automobile Insurance: The Contractor shall carry and maintain during the life of the Contract a policy with a combined single limit of $2,000,000 and rider CA9948 or equivalent.

This policy shall include all liability of the Contractor arising from the operation of all self-owned motor vehicles used in the performance of the Contract; and shall also include a "non-Ownership" provision covering the operation of motor vehicles not owned by the Contractor, but used in the performance of the work.

Commercial General Liability:

- Bodily Injury and Property Damage $2,000,000
- Products/Completed Operations $2,000,000

This policy shall include Subcontractor's Liability coverage, protecting the Contractor and the Town against liability arising out of the activities of Subcontractors engaged by him in the performance of the work.

Umbrella Policy: An umbrella policy in the amount of $5,000,000, with respect to all operations the Contractor performs, is required.

Waiver of Subrogation: Waiver of subrogation is required on all policies.

Additional Insureds: The following entities shall be named as additional insureds on the General Contractor's and Subcontractors' Commercial General Liability, and Umbrella:

- Town of Fairfield, its officers, employees and agents.

Subcontractor's Insurance: . Each Subcontractor engaged by the Contractor to perform any work under the Contract shall obtain all insurance required of the Contractor in the same amounts and subject to the same provisions specified above for the Contractor, including the Additional Insured requirement. Certificates of Insurance shall be submitted to the Contractor and the Town and approved by the Town, before commencing any work.

PURCHASING AUTHORITY
TOWN OF FAIRFIELD
INSTRUCTIONS FOR BIDDERS
TERMS AND CONDITIONS OF BID

HOLD HARMLESS

Contractor shall defend, indemnify, and hold harmless the Town of Fairfield, its officers, employees, agents or volunteers, from and against any and all claims and demands of any nature for any loss, damage or injury which any person may suffer by reason of, or in any way arising out of, this Agreement, unless caused by the sole negligence of the Town.

FEDERAL, STATE, AND LOCAL LAWS

All applicable Federal, State and local laws, rules and regulations of all authorities having jurisdiction over the locality of the project shall apply to the contract and are deemed to be included herein. **If the total amount of the project, including any current or future change orders, exceeds $100,000.00 all work is to be done in accordance with the Connecticut Department of Labor (CT DOL) rules and regulations; that is conditions of Prevailing Wage shall apply.** All current prevailing wage information may be accessed online at no cost at **http://www.ctdol.state.ct.us/** (The Town will apply the most current wage decision applicable at the time of contract award.)

CONFLICT OF INTEREST

No officer or employee or member of any elective or appointive board, commission or committee of the Town, whether temporary or permanent, shall have or acquire any financial interest gained from a successful bid, direct or indirect, aggregating more than one hundred dollars ($100.00), in any project, matter, contract or business within his/her jurisdiction or the jurisdiction of the board, commission, or committee of which he/she is a member. Nor shall the officer / employee / member have any financial interest, direct or indirect, aggregating more than one hundred dollars ($100.00) in any contract or proposed contract for materials or services to be furnished or used in connection with any project, matter or thing which comes under his/her jurisdiction or the jurisdiction of the board, commission, committee of which he/she is a member.

SCOPE OF WORK/SITE INSPECTIONS

The bidder declares that the scope of the work has been thoroughly reviewed and any questions resolved (see above for name and number of individual to contact for questions). If applicable, the bidder further declares that the site has been inspected as called for in the specifications (q.v.).

EXCEPTION TO SPECIFICATIONS

No protest regarding the validity or appropriateness of the specifications or of the Invitation for Bids will be considered, unless the protest is filed in writing with the Purchasing Authority prior to the closing date for the bids. All bid proposals rendered shall be considered meeting the attached specifications unless exceptions are noted on a separate page dated and signed by the bidder.

UNLESS OTHERWISE NOTED

It will be assumed that all terms and conditions and specifications will be complied with and will be considered as part of the Bid Proposal.

TAX EXEMPT

Exempt from State Sales Tax under State General Statues Chapter 219-Section 12-412 Subsection A.
No exemption certificates are required and none will be issued.
State-0531-806-000
Federal – 06-600-1998

Document A310™ – 2010

Conforms with The American Institute of Architects AIA Document 310

Bid Bond

CONTRACTOR:
(Name, legal status and address)

Champion Maintenance and Construction LLC
301 Commerce Drive
Fairfield, CT 06825

SURETY:
(Name, legal status and principal place of business)

Philadelphia Indemnity Insurance Company
One Bala Plaza, Suite 100
Bala Cynwyd, PA 19004-0950
Mailing Address for Notices

This document has important legal consequences. Consultation with an attorney is encouraged with respect to its completion or modification.

Any singular reference to Contractor, Surety, Owner or other party shall be considered plural where applicable.

OWNER:
(Name, legal status and address)

Town of Fairfield
725 Old Post Road
Fairfield, CT 06824

BOND AMOUNT: 5% Five Percent of Amount Bid

PROJECT:
(Name, location or address, and Project number, if any)

Seasonal Custodial Services

The Contractor and Surety are bound to the Owner in the amount set forth above, for the payment of which the Contractor and Surety bind themselves, their heirs, executors, administrators, successors and assigns, jointly and severally, as provided herein. The conditions of this Bond are such that if the Owner accepts the bid of the Contractor within the time specified in the bid documents, or within such time period as may be agreed to by the Owner and Contractor, and the Contractor either (1) enters into a contract with the Owner in accordance with the terms of such bid, and gives such bond or bonds as may be specified in the bidding or Contract Documents, with a surety admitted in the jurisdiction of the Project and otherwise acceptable to the Owner, for the faithful performance of such Contract and for the prompt payment of labor and material furnished in the prosecution thereof; or (2) pays to the Owner the difference, not to exceed the amount of this Bond, between the amount specified in said bid and such larger amount for which the Owner may in good faith contract with another party to perform the work covered by said bid, then this obligation shall be null and void, otherwise to remain in full force and effect. The Surety hereby waives any notice of an agreement between the Owner and Contractor to extend the time in which the Owner may accept the bid. Waiver of notice by the Surety shall not apply to any extension exceeding sixty (60) days in the aggregate beyond the time for acceptance of bids specified in the bid documents, and the Owner and Contractor shall obtain the Surety's consent for an extension beyond sixty (60) days.

If this Bond is issued in connection with a subcontractor's bid to a Contractor, the term Contractor in this Bond shall be deemed to be Subcontractor and the term Owner shall be deemed to be Contractor.

When this Bond has been furnished to comply with a statutory or other legal requirement in the location of the Project, any provision in this Bond conflicting with said statutory or legal requirement shall be deemed deleted herefrom and provisions conforming to such statutory or other legal requirement shall be deemed incorporated herein. When so furnished, the intent is that this Bond shall be construed as a statutory bond and not as a common law bond.

Signed and sealed this 6th **day of** April, 2023.

Mary Lea Haray
(Witness)

Nicole Plourde
(Witness) Nicole Plourde

Champion Maintenance and Construction LLC
(Principal) *(Seal)*

By:
(Title)

Philadelphia Indemnity Insurance Company
(Surety) *(Seal)*

By:
(Title) Craig H. Meeker, Attorney-in-Fact

PHILADELPHIA INDEMNITY INSURANCE COMPANY CORPORATE SEAL 1927 PENNSYLVANIA

PHILADELPHIA INDEMNITY INSURANCE COMPANY
One Bala Plaza, Suite 100
Bala Cynwyd, PA 19004-0950

Power of Attorney

Surety Bond Number: Bid Bond
Principal: Champion Maintenance and Construction LLC
Obligee: Town of Fairfield

KNOW ALL PERSONS BY THESE PRESENTS: That **PHILADELPHIA INDEMNITY INSURANCE COMPANY** (the Company), a corporation organized and existing under the laws of the Commonwealth of Pennsylvania, does hereby constitute and appoint Craig H. Meeker its true and lawful Attorney-in-fact with full authority to execute on its behalf bonds, undertakings, recognizances and other contracts of indemnity and writings obligatory in the nature thereof, issued in the course of its business and to bind the Company thereby, in an amount not to exceed **$75,000,000.**

This Power of Attorney is granted and is signed and sealed by facsimile under and by the authority of the following Resolution adopted by the Board of Directors of PHILADELPHIA INDEMNITY INSURANCE COMPANY on the 14th of November, 2016.

RESOLVED: That the Board of Directors hereby authorizes the President or any Vice President of the Company: (1) Appoint Attorney(s) in Fact and authorize the Attorney(s) in Fact to execute on behalf of the Company bonds and undertakings, contracts of indemnity and other writings obligatory in the nature thereof and to attach the seal of the Company thereto; and (2) to remove, at any time, any such Attorney-in-Fact and revoke the authority given. And, be it

FURTHER RESOLVED: That the signatures of such officers and the seal of the Company may be affixed to any such Power of Attorney or certificate relating thereto by facsimile, and any such Power of Attorney so executed and certified by facsimile signatures and facsimile seal shall be valid and binding upon the Company in the future with respect to any bond or undertaking to which it is attached.

IN TESTIMONY WHEREOF, PHILADELPHIA INDEMNITY INSURANCE COMPANY HAS CAUSED THIS INSTRUMENT TO BE SIGNED AND ITS CORPORATE SEALTO BE AFFIXED BY ITS AUTHORIZED OFFICE THIS 5TH DAY OF MARCH, 2021.

(Seal)

John Glomb, President & CEO
Philadelphia Indemnity Insurance Company

On this 5th day of March, 2021 before me came the individual who executed the preceding instrument, to me personally known, and being by me duly sworn said that he is the therein described and authorized officer of the **PHILADELPHIA INDEMNITY INSURANCE COMPANY**; that the seal affixed to said instrument is the Corporate seal of said Company; that the said Corporate Seal and his signature were duly affixed.

Commonwealth of Pennsylvania - Notary Seal
Vanessa Mckenzie, Notary Public
Montgomery County
My commission expires November 3, 2024
Commission number 1368394
Member, Pennsylvania Association of Notaries

Notary Public: Vanessa McKenzie

residing at: Bala Cynwyd, PA

My commission expires: November 3, 2024

I, Edward Sayago, Corporate Secretary of PHILADELPHIA INDEMNITY INSURANCE COMPANY, do hereby certify that the foregoing resolution of the Board of Directors and the Power of Attorney issued pursuant thereto on the 5th day March, 2021 are true and correct and are still in full force and effect. I do further certify that John Glomb, who executed the Power of Attorney as President, was on the date of execution of the attached Power of Attorney the duly elected President of PHILADELPHIA INDEMNITY INSURANCE COMPANY.

In Testimony Whereof I have subscribed my name and affixed the facsimile seal of each Company this 6th day of April, 2023

Edward Sayago, Corporate Secretary
PHILADELPHIA INDEMNITY INSURANCE COMPANY

CERTIFICATE OF LIABILITY INSURANCE

DATE (MM/DD/YYYY): 3/27/2023

THIS CERTIFICATE IS ISSUED AS A MATTER OF INFORMATION ONLY AND CONFERS NO RIGHTS UPON THE CERTIFICATE HOLDER. THIS CERTIFICATE DOES NOT AFFIRMATIVELY OR NEGATIVELY AMEND, EXTEND OR ALTER THE COVERAGE AFFORDED BY THE POLICIES BELOW. THIS CERTIFICATE OF INSURANCE DOES NOT CONSTITUTE A CONTRACT BETWEEN THE ISSUING INSURER(S), AUTHORIZED REPRESENTATIVE OR PRODUCER, AND THE CERTIFICATE HOLDER.

IMPORTANT: If the certificate holder is an ADDITIONAL INSURED, the policy(ies) must have ADDITIONAL INSURED provisions or be endorsed. If SUBROGATION IS WAIVED, subject to the terms and conditions of the policy, certain policies may require an endorsement. A statement on this certificate does not confer rights to the certificate holder in lieu of such endorsement(s).

PRODUCER
Arthur J. Gallagher Risk Management Services, LLC
One Enterprise Drive, Suite 310
Shelton CT 06484

CONTACT NAME: Michelle DiLeonardo
PHONE (A/C, No, Ext): 203-447-6578 **FAX (A/C, No):**
E-MAIL ADDRESS: michelle_dileonardo@ajg.com

INSURER(S) AFFORDING COVERAGE	NAIC #
INSURER A : Selective Insurance Company of America	12572
INSURER B :	
INSURER C :	
INSURER D :	
INSURER E :	
INSURER F :	

INSURED CHAMMAI-02
Champion Maintenance and Construction, LLC
301 Commerce Drive
Fairfield CT 06825

COVERAGES **CERTIFICATE NUMBER:** 1962586337 **REVISION NUMBER:**

THIS IS TO CERTIFY THAT THE POLICIES OF INSURANCE LISTED BELOW HAVE BEEN ISSUED TO THE INSURED NAMED ABOVE FOR THE POLICY PERIOD INDICATED. NOTWITHSTANDING ANY REQUIREMENT, TERM OR CONDITION OF ANY CONTRACT OR OTHER DOCUMENT WITH RESPECT TO WHICH THIS CERTIFICATE MAY BE ISSUED OR MAY PERTAIN, THE INSURANCE AFFORDED BY THE POLICIES DESCRIBED HEREIN IS SUBJECT TO ALL THE TERMS, EXCLUSIONS AND CONDITIONS OF SUCH POLICIES. LIMITS SHOWN MAY HAVE BEEN REDUCED BY PAID CLAIMS.

INSR LTR	TYPE OF INSURANCE	ADDL INSD	SUBR WVD	POLICY NUMBER	POLICY EFF (MM/DD/YYYY)	POLICY EXP (MM/DD/YYYY)	LIMITS	
A	X COMMERCIAL GENERAL LIABILITY CLAIMS-MADE X OCCUR GEN'L AGGREGATE LIMIT APPLIES PER: POLICY PRO-JECT LOC OTHER:	Y	Y	S 2398404	3/31/2023	3/31/2024	EACH OCCURRENCE DAMAGE TO RENTED PREMISES (Ea occurrence) MED EXP (Any one person) PERSONAL & ADV INJURY GENERAL AGGREGATE PRODUCTS - COMP/OP AGG $	$ 1,000,000 $ 500,000 $ 15,000 $ 1,000,000 $ 2,000,000 $ 2,000,000 $
A	AUTOMOBILE LIABILITY X ANY AUTO OWNED AUTOS ONLY / SCHEDULED AUTOS X HIRED AUTOS ONLY / X NON-OWNED AUTOS ONLY	Y	Y	S 2398404	3/31/2023	3/31/2024	COMBINED SINGLE LIMIT (Ea accident) BODILY INJURY (Per person) BODILY INJURY (Per accident) PROPERTY DAMAGE (Per accident) $	$ 1,000,000 $ $ $ $
A	UMBRELLA LIAB X OCCUR EXCESS LIAB CLAIMS-MADE DED RETENTION $	Y	Y	S 2398404	3/31/2023	3/31/2024	EACH OCCURRENCE AGGREGATE $	$ 5,000,000 $ 5,000,000 $
A	WORKERS COMPENSATION AND EMPLOYERS' LIABILITY ANYPROPRIETOR/PARTNER/EXECUTIVE OFFICER/MEMBEREXCLUDED? Y / N (Mandatory in NH) If yes, describe under DESCRIPTION OF OPERATIONS below	N / A	Y	WC 9082533	3/31/2023	3/31/2024	X PER STATUTE OTH-ER E.L. EACH ACCIDENT E.L. DISEASE - EA EMPLOYEE E.L. DISEASE - POLICY LIMIT	 $ 1,000,000 $ 1,000,000 $ 1,000,000

DESCRIPTION OF OPERATIONS / LOCATIONS / VEHICLES (ACORD 101, Additional Remarks Schedule, may be attached if more space is required)
For Proof of Insurance

CERTIFICATE HOLDER

For Proof of Insurance

CANCELLATION

SHOULD ANY OF THE ABOVE DESCRIBED POLICIES BE CANCELLED BEFORE THE EXPIRATION DATE THEREOF, NOTICE WILL BE DELIVERED IN ACCORDANCE WITH THE POLICY PROVISIONS.

AUTHORIZED REPRESENTATIVE

State of Connecticut

Department of Administrative Services
Supplier Diversity Program

This Certifies

Champion Maintenance and Construction LLC

301 Commerce Drive Fairfield CT 06825

As a

Small Business Enterprise

February 15,2023 through February 15,2025

Owner(s):

Contact: Maria Iacono **Telephone:** Ext: **FAX:**

E-Mail: service@champservicesllc.com **Web Address:**

****Affiliate Companies:**

Meg Yetishefsky

Supplier Diversity Director

Stanley Kuntz

Supplier Diversity Specialist

** A contractor awarded a contract or a portion of a contract under the set-aside program shall not subcontract with any person(s) with whom the contractor is affiliated.

BID # 2023-132

DESC Seasonal Custodial Services-Town of Fairfield
DATE 4/6/2023
TIME 11:00 AM

	Town of Fairfield - Bid Results	
	Building One Facility Services, LLC Durham, CT	**Champion Maintenance & Construction** Fairfield, CT
7 Days including Memorial Day, July 4th, Labor Day		
April 15 - May 15	$4,851.00	$4,895.00
May 16 - June 15 *Additional cleaning - coastal stations only May 27 - June 15	$8,547.00	$10,106.00
June 16 - July 15 *Additional cleaning - coastal stations only - Full Month	$9,763.00	$10,106.00
July 16 -August 15 *Additional cleaning - coastal stations only- Full Month	$10,164.00	$10,106.00
August 16 - September 15 *Additional cleaning - coastal stations only August 16 - September 4	$8,547.00	$10,106.00
September 16 - October 15	$4,730.00	$4,730.00
October 16 - November 15	$5,428.00	$4,730.00
Total for Season	**$52,030.00**	**$54,779.00**
7 Days including Memorial Day, July 4th, Labor Day		
PENFIELD ONLY - April 15 -May 26	$1,178.00	$1,892.00
PENFIELD ONLY - September 5 - November 15	$1,964.00	$3,212.00
PENFIELD ONLY -Total for Season	**$3,142.00**	**$5,104.00**
GRAND TOTAL -7 Days including Memorial Day, July 4th, Labor Day	**$55,172.00**	**$59,883.00**
WEEKENDS ONLY		
April 15 - May 15	$2,750.00	$1,631.00
May 16 - June 15 *Additional cleaning - coastal stations only May 27 - June 15	$3,850.00	$2,344.00
June 16 - July 15 *Additional cleaning - coastal stations only - Full Month	$4,951.00	$2,865.00
July 16 -August 15 *Additional cleaning - coastal stations only- Full Month	$4,951.00	$2,865.00
August 16 - September 15 *Additional cleaning - coastal stations only August 16 - September 4	$3,850.00	$2,865.00
September 16 - October 15	$2,475.00	$1,467.00
October 16 - November 15	$2,200.00	$1,467.00
Total for Weekends Only	**$25,027.00**	**$15,504.00**
WEEKENDS ONLY		
PENFIELD ONLY - April 15 -May 26	$2,890.00	$528.00
PENFIELD ONLY - September 5 - November 15	$5,011.00	$880.00
PENFIELD ONLY Total for weekends only	**$7,901.00**	**$1,408.00**
GRAND TOTAL	**$32,928.00**	**$16,912.00**
SPECIAL FEES		
Hourly Rates for Additional Hours (Holidays, Weekends or Weekdays)	$52.00/hour	$33.00/hour
Additional Cleaning Services (as specified in Bid Document)	$42.00/Sq Ft	.30/Sq Ft

SERVICE AGREEMENT
Bid #2023-132
Seasonal Custodial Services – Town of Fairfield

This AGREEMENT, made this day of __ _____ 2023, by and between the **TOWN OF FAIRFIELD**, in the County of Fairfield, a municipal Corporation of the State of Connecticut (hereinafter "**TOWN**"), and **Champion Maintenance and Construction,** a Connecticut Corporation with its principal place of business at 301 Commerce Drive, Fairfield, Connecticut, (hereinafter "**CONTRACTOR**").

WITNESSETH, that for and in consideration of the premises and the agreement herein contained, and the payments herein provided to be made, the parties hereto agree as follows:

FIRST: Statutes.

The Contractor agrees to accept and abide by the provisions of Title 31, Section 53 of the 1965 Supplement to the General Statutes, State of Connecticut, which require "The wages paid on an hourly basis to any person performing the work of any mechanic, laborer or worker on the work herein contracted to be done and the amount of payment or contribution paid or payable on behalf of each such person to any employee welfare fund, as defined in subsection (h) of this section, shall be at a rate equal to the rate customary or prevailing for the same work in the same trade or occupation in the town in which such public works project is being constructed. Any Contractor who is not obligated by agreement to make payment or contribution on behalf of such persons to any such employee welfare fund shall pay to each mechanic, laborer or worker as part of such person's wages the amount of payment or contribution for such person's classification on each pay day."

The Contractor agrees and warrants that in the performance of the Contract such Contractor will not discriminate or permit discrimination against any person or group of persons on the grounds of race, color, religious creed, age, marital status, national origin, ancestry, sex, gender identity or expression, intellectual disability, mental disability or physical disability, including, but not limited to, blindness, unless it is shown by such Contractor that such disability prevents performance of the work involved, in any manner prohibited by the laws of the United States or of the State of Connecticut; and the Contractor further agrees to take affirmative action to insure that applicants with job-related qualifications are employed and that employees are treated when employed without regard to their race, color, religious creed, age, marital status, national origin, ancestry, sex, gender identity or expression, intellectual disability, mental disability or physical disability, including, but not limited to, blindness, unless it is shown by the Contractor that such disability prevents performance of the work involved; (b) the Contractor agrees, in all solicitations or advertisements for employees placed by or on behalf of the Contractor, to state that it is an "affirmative action equal opportunity employer" in accordance with regulations adopted by the Commission; (c) the Contractor agrees to provide each labor union or representative of workers with which the Contractor has a collective bargaining agreement or other contract or understanding and each vendor with which the Contractor has a contract or understanding, a notice to be provided by the Commission, advising the labor union or workers' representative of the Contractor's

commitments under this section and to post copies of the notice in conspicuous places available to employees and applicants for employment; (d) the Contractor agrees to comply with each provision of this Section and Connecticut General Statutes §§ 46a-68e and 46a-68f and with each regulation or relevant order issued by said Commission pursuant to Connecticut General Statutes §§ 46a-56, 46a-68e and 46a-68f; and (e) the Contractor agrees to provide the Commission on Human Rights and Opportunities with such information requested by the Commission, and permit access to pertinent books, records and accounts, concerning the employment practices and procedures of the Contractor as relate to the provisions of this Section and Connecticut General Statutes § 46a-56. If the contract is a public works contract, the Contractor agrees and warrants that he will make good faith efforts to employ minority business enterprises as subcontractors and suppliers of materials on such public works projects.

The Contractor agrees and warrants that in the performance of the Contract such Contractor will not discriminate or permit discrimination against any person or group of persons on the grounds of sexual orientation, in any manner prohibited by the laws of the United States or the State of Connecticut, and that employees are treated when employed without regard to their sexual orientation; (b) the Contractor agrees to provide each labor union or representative of workers with which such Contractor has a collective bargaining Agreement or other contract or understanding and each vendor with which such Contractor has a contract or understanding, a notice to be provided by the Commission advising the labor union or workers' representative of the Contractor's commitments under this section, and to post copies of the notice in conspicuous places available to employees and applicants for employment; (c) the Contractor agrees to comply with each provision of this section and with each regulation or relevant order issued by said Commission pursuant to Connecticut General Statutes § 46a-56; and (d) the Contractor agrees to provide the Commission with such information requested by the Commission, and permit access to pertinent books, records and accounts, concerning the employment practices and procedures of the Contractor which relate to the provisions of this Section and Connecticut General Statutes § 46a-56.

SECOND: Engagement and Authorization.

Subject to the terms and conditions set forth in this Agreement, Town does hereby engage and authorize Contractor — and Contractor does hereby accept such engagement and authorization, as an independent contractor for Town — to construct the Construction Project, as here in defined, and to manage such construction for Town. The Contractor further covenants and agrees at its own proper cost, charge, and expense to furnish all machinery, appliances, tools, labor and materials necessary or proper to do all the work necessary to construct all the works equipment and fixtures, appurtenant thereto, as set forth in the Contractor's proposal, annexed hereto, as Exhibit A and known as PURCHASE ORDERS, and as described in the Invitation to Bid #2023-132 Plans and Specifications, attached hereto as Exhibit B, made and prepared by the Town of Fairfield Purchasing Department, in the County of Fairfield; and in the Contract Documents, as defined below in this Contract, which are incorporated by reference and wholly made a part of this Contract to the same extent as though the same were herein expressly written, in a first-class workmanlike manner, and in strict accordance with the plans, drawings and specifications therefore, invitation for bid, and the Contractor's proposal all of which plans, drawings,

specifications, invitation to bid, proposal, award resolution and other Contract Documents. Such work will be performed under the supervision of the Responsible Town Official (herein "RTO"), who for the purposes of this Contract, shall be the Director of Public Works of the Town of Fairfield and/or his appointed agent.

THIRD. In consideration of the Contractor faithfully complying with all the terms and stipulations of this Contract as set forth herein, or in the plans and specifications therefore, advertisement, proposal and other Contract Documents, the Town of Fairfield covenants and agrees to pay the said Contractor at the time and times, and in the manner more particularly set forth in the General Conditions as accepted in the bid submission attached hereto as Exhibit C.

FOURTH. The Contractor agrees to indemnify, defend and hold harmless the Town of Fairfield, its employees, agents and servants from any and all claims or demands for damages or injuries to either person or property which arise or may arise out of the performance of this contract, and shall indemnify and insure the Town of Fairfield in the manner more particularly set forth in the Insurance Requirements attached herein as Exhibit D, which are made part of this Contract.

FIFTH. The term "Contract Documents" shall mean and include the following:

Advertisement for Bid

1. Instructions to Bidders
2. Bid Proposal
3. All Contract Forms:
    a. Bid Bond
    b. Certificate of Surety
    c. Statement of Compliance with Bidding Requirements
    d. Contract
    e. Acknowledgement of Officer of Town Executing Contract
    f. Acknowledgement of Corporate Contractor
    g. Acknowledgement of Contractor, if an Individual
    h. Performance and Labor and Material Bond
    i. Certificate of Insurance
    j. Non-Collusion Affidavit of Prime Bidder
    k. Non-Collusion Affidavit of Subcontractor
    l. Notice of Award
    m. Notice to Proceed
    n. Change Orders
    o. Town of Fairfield, Standard Insurance Requirements
4. General Conditions
5. Supplemental General Conditions
6. Special Conditions
7. Contract Specifications

IN WITNESS WHEREOF, the Town Council of the Town of Fairfield, in the County of Fairfield

has authorized the Corporate Seal of the Town of Fairfield to be hereto affixed and this Contract to be signed by the Purchasing Authority and that same attested to by the Town Clerk and the Contractor has caused this Contract to be signed by its duly authorized officer, and its corporate seal to be hereunto affixed on the day and year first above written.

TOWN OF FAIRFIELD

By_____

Its: _____
Date: _____, 2023

By_____

Its: _____
Date: _____, 2023

Champion Maintenance and Construction

By_____

Its:
Date: _____, 2023

EXHIBIT A
PURCHASE ORDER FY 2023

EXHIBIT B
INVITATION TO BID #2023-132

EXHIBIT C
CONTRACTOR'S BID SUBMISSION

EXHIBIT D
CERTIFICATE OF INSURANCE

FOURTEEN POINTS OF INFORMATION AND JUSTIFICATION FOR THE
KINGS HIGHWAY PEDESTRIAN IMPROVEMENTS PROJECT PHASE 3 DESIGN
Approved $300,000 for design in 2021

1. **Background:** The first two sections of the Kings Highway Pedestrian Improvements project are complete. The third phase is currently approved for Construction for the Local Transportation Capital Improvements Program (LOTCIP) from State funding. The anticipated Grant timeline is to obtain "grant commitment to fund" in spring 2023, hire consultant based on Town, State and Federal Grant requirements, with final design completed Summer 2024. Construction would occur in 2025. The project involves new concrete sidewalks, curbs and medians (assuming DOT requirement). Other improvements consist of pedestrian phase improvements at signalized intersections, ADA compliant ramps, and turf establishment. Grant includes construction phase (construction and Inspection, testing) and is in the $ 2 Million Dollars range, paid up front based on contract bid pricing plus contingencies and incidentals.

2. **Purpose and Justification:** The purpose of the project is to encourage alternative means of transportation in the Tunxis Hill-Kings Highway neighborhoods. Main Construction components are concrete sidewalks, Concrete curbs, ADA compliant Handicap Ramps, investigate bicycle routes and amenities in the area. Also included will be some median improvements (State requirement) to create improved aesthetics and more pedestrian friendly environment. There are several areas of existing sidewalk that are in poor condition and can be considered narrow in many places. Although one can argue about spending local match in tough economic times, in the very near future (now-couple of years) some of these sidewalks will have to be replaced and eventually (roughly 8-10 year time line) most of the sidewalks will need to be repaired or replaced based on their existing condition. On June 27, 2013, the Town held an informal public meeting to gauge interest in the project's first phase. Over 20 people attended and another 5 responded (via email) favorably to the project. Follow up meetings had another dozen people supporting Phase 2 section in 2016. There were no objections to the project at either meeting. The public and several Town officials have expressed significant interest in the Town expanding project to include the third section from Villa Avenue to Bridgeport and include a southeastern section of Tunxis Hill Cutoff South. The Town has received additional requests in recent years at various meetings and through Q-alert system.

3. **Detailed Description of Project:** As mentioned previously, the project expands the original sidewalk improvements along Kings Highway from Villa Avenue towards the Bridgeport Line and a section of Tunxis Hill South. New sidewalks are proposed along both north and south sides of Kings Highway, with median improvements or road diet installation- for better pedestrian access and aesthetics. Bicycle amenities would be included wherever possible. Some sections of sidewalks have cracks and lips which represent potential trip hazards and substandard (or absent of) handicap ramps.

4. **Reliability of Estimated Costs:** Semi Final Cost estimates have been provided and checked by MetroCOG. Grant funding figures were provided by Metrocog and Engineering. The costs are considered relatively accurate but there are some unknown costs such as utility relocation, potential Right of Way/ easement costs, subsurface issues, State DOT comments and actual contract bid costs. Final costs will be laid out in the actual contract addendum called the Project Authorization Letter. It will list final project costs and state funding and Town share costs, if any.

5. **Efficiencies:** The expenditure is conducive to increase alternate modes of transportation and increasing safety of these modes. From an economic standpoint the proposed cost-sharing program saves the Town most of the costs that would be required should the Town elect to perform this project under its own direction, in the future.

6. **Additional Long Range Costs:** The Town would pay for maintenance costs for the project: sidewalk, pavement markings and signs, etc., which it currently performs already. Current proposal for the median meets DOT requirements and specifications, hence DOT will continue to maintain. For other aesthetic median designs, State must approve design materials and passes all maintenance onto the Municipality.

7. **Additional Use or Demands:** The project will encourage increased usage of alternate modes of transportation. Providing safer and more pedestrian and bicycling friendly amenities should provide a beneficial impact to the neighborhood. There has been an increase in pedestrian usage with the recently completed sections.

8. **Alternates:** The only alternates are to reduce scope of project or do nothing. Sidewalks not covered in the project, would need to be repaired and replaced by the Town within the next few years with no reimbursement. Most sidewalks would still need to meet DOT requirements as project is located within State Right of Way. It would also hurt chances of getting additional grant funding under this program. Previous success may give us an advantage in future grants.

9. **Safety and Loss Control:** A Consultant will perform continual on site inspections for the construction and installation of the project. It is required that all Local, State and Federal standards, codes and procedures will be enforced.

10. **Environmental Considerations:** No significant environmental impacts are expected.

11. **Insurance:** Town and State Contract procedures require the Contractor to have licenses, bonds and insurance.

12. **Financing:** Project has been on Capital planning (waterfall chart) for a few years.
    The State will provide the Town upfront funding based on contract bid pricing. LOTCIP payment is lump sum paid to Town prior to construction but is capped.

13. **Other Considerations:** N/A

14. **Approvals:**

Committees/ Commissions	Approval Date
Board of Selectmen	May 2023
Board of Finance	May 2023
R.T.M.	May 2023

Note - additional approvals may be required if more grant money becomes available.

STATE OF CONNECTICUT
DEPARTMENT OF TRANSPORTATION

2800 BERLIN TURNPIKE, P.O. BOX 317546
NEWINGTON, CONNECTICUT 06131-7546

March 23, 2023

The Honorable Brenda L. Kupchick
First Selectwoman,
Town of Fairfield
725 Old Post Road
Fairfield, Connecticut 06824
firstselectwoman@fairfieldct.org

Dear First Selectwoman Kupchick:

Subject: Local Transportation Capital Improvement Program (LOTCIP)
Commitment to Fund
Pedestrian Improvements along Kings Highway (Phase 3)
State Project No. L050-0004
Kings Highway (Route 1) and Tunxis Hill Road (Route 58)
Town of Fairfield

The Department of Transportation (Department) has received the LOTCIP application prepared by the Town of Fairfield (Municipality) and submitted through the Connecticut Metropolitan Council of Governments (COG) relative to the subject project. The Department has reviewed the application materials along with the cost estimate provided by the Municipality and endorsed by the COG.

The LOTCIP application for this project has been approved. The Department hereby commits to fund eligible project costs as follows:

Rights of Way:	$ 0
Eligible Utilities:	$ 125,000
Contract Items:	$ 1,513,000
Contingencies:	$ 151,300
Incidentals to Construction:	$ 151,300
Total Funding Commitment:	$ 1,940,600

This Commitment to Fund is subject to funding availability and general conditions including, but not limited to the following:

1. The project is to be administered by the Municipality in accordance with the *Local Transportation Capital Improvement Program Guidelines,* dated November 2021, as may be revised. The guidelines are available on the Department's LOTCIP web page at https://portal.ct.gov/DOT/Office-of-Engineering/Highway-Design-Local-Roads-LOTCIP.

2. The project costs identified in this Commitment to Fund letter are based on estimates provided by the Municipality and endorsed by the COG. These costs are to be considered capped until adjustment, based on low bid or otherwise revised, in accordance with the LOTCIP guidelines.

3. Any scope revisions and/or twenty percent (20%) changes in cost identified during the design phase must be approved by the COG and the Department, as specified in the LOTCIP guidelines.

4. Upon completion of project design activities, the Municipality must forward to the Department, through the COG a Final Design Submission, along with supporting documentation and certifications, as defined in the LOTCIP guidelines.

5. The Municipality must execute and deliver a Project Authorization Letter (PAL) issued pursuant to the Master Municipal Agreement for Construction Projects and comply with its terms. The PAL will be forwarded to the Municipality for execution, subsequent to review of the Final Design Submission package by the Department.

This commitment is further subject to the following project-specific conditions:

1. The LOTCIP application materials submitted for this project included a proposed "road diet" in addition to pedestrian improvements for the portion of Kings Highway East/North Avenue (Route 1) within the project limits, bringing two lanes in each direction down to one lane in each direction. As indicated during the application review and comments process, it is the position of the Department that additional traffic investigations are required to ensure that the proposed road diet will be adequate for this project location. Therefore, the Department has decided to proceed with the issuance of a conditional Commitment to Fund letter for the project that would include the utilization of a road diet on Kings Highway East/North Avenue (Route 1), with the understanding that the Municipality would conduct a traffic analysis to support a road diet proposal to ensure that this roadway segment along Route 1 would adequately handle existing and future traffic. Should these investigations result in the indication that this section of roadway would not be suitable for a road diet, the Municipality may submit to the Department through the COG a project scope/cost change request for review and approval, in accordance with the LOTCIP guidelines. It is recommended that prior to formal submission of a scope/cost change request, the results of the traffic investigations and resulting recommendation be collectively discussed between the Department, the COG, the Municipality, and its design consultant (if applicable).

2. If this project is to move forward with a road diet for the portion of Kings Highway East/North Avenue (Route 1) within the project limits, it was identified that additional work may be needed east of the original project limits, such as lane transition/restriping, which currently terminate the project at the border of Fairfield and Bridgeport on North Avenue (Route 1). By signing this Commitment to Fund letter, the Municipality acknowledges its responsibility as the project lead and agrees to coordinate project details with the City of Bridgeport. Please be advised that a Maintenance-only Project Authorization Letter may be required with the City of Bridgeport prior to construction.

3. This project may require environmental permits. In accordance with the LOTCIP guidelines, the Municipality will be responsible for the acquisition of all environmental permits that may be required. Please be advised that any project that involves work within waters or wetlands may require State and/or Federal environmental permits. **It is critical that the Municipality or their consultant contact the Connecticut Department of Energy and Environmental Protection (DEEP) - Inland Water Resources Division early in the design process** to discuss permitting requirements and to identify specific environmental concerns and design considerations. Failure to establish early coordination with DEEP may result in significant time delays in the permitting process due to the need for design changes and/or denial of permit applications. Please note, the Department hosts a monthly Interagency Coordination (Municipal) meeting where municipalities (and their consultants) can discuss municipal projects with the various regulatory agencies relative to permitting requirements, identification of specific environmental concerns, and design considerations. Attendance at the meeting can be arranged through the following contact:

   Mr. David W. Harms
   Transportation Supervising Engineer
   (860) 594-3291
   DOT-EPC@ct.gov

4. This project may require hazardous/contaminated material investigations. In accordance with the LOTCIP guidelines, the Municipality is responsible for such investigations as part of the design phase.

5. The LOTCIP application materials indicate that this project is not anticipated to require right of way acquisitions. Should it be determined during the design phase that right of way acquisitions will be required, including construction easements, the Municipality through the COG must notify the Department. All right of way acquisitions are to be performed in accordance with the LOTCIP guidelines. In addition, any acquisitions adjacent to Route 1 and Route 58 must be closely coordinated with the Department's Office of Rights of Way through the following contact:

   Mr. Thomas H. Melzen
   Supervising Property Agent
   (860) 594-2451
   Thomas.Melzen@ct.gov

6. This project is anticipated to require utility relocations. Coordination with utility companies that have facilities in the project area, as well as with any utilities that currently do not have facilities present but may have plans to expand service to the area, should begin early in the design process. Utility coordination will be the responsibility of the Municipality.

   In accordance with applicable statutes, the LOTCIP guidelines and as determined through discussions with the Department's Utilities Section, participation in utility relocation costs for this project will be as follows:

Utility Owner	Activity	Cost Participation
Private	Relocation Design/Engineering	50% Utility/50% Municipal
	Relocation Construction	50% Utility/50% LOTCIP
Municipal	Relocation Design/Engineering	100% Municipal
	Relocation Construction	100% LOTCIP

All necessary utility agreements relative to the relocations will be executed between the Municipality and the affected utility(ies). In accordance with the LOTCIP guidelines, costs associated with any utility betterments/upgrades that are not necessary to accommodate the proposed transportation improvement are ineligible for LOTCIP participation.

7. This project will require work to be performed within the State-owned right of way along Route 1 and Route 58. As such, an encroachment permit will be required. **It is imperative that the design of the improvements proposed under this project be coordinated with the Department during the design phase, to ensure conformance with applicable requirements relative to proposed work within State-owned right of way or otherwise affecting State-owned facilities. Establishing early coordination relative to the encroachment permit process and roadway diet proposal for this project is required.** All matters relative to the encroachment permit process for this project are to be coordinated through the following Department contact:

   Mr. Allan Dodge
   Special Services Section Manager (District 3)
   (203) 389-3010
   Allan.Dodge@ct.gov

8. Modifications to traffic control signals, devices, signs, and markings for public highways/roadways require review by the Local Traffic Authority and/or by the Office of the State Traffic Administration (OSTA) and/or by the Department's Division of Traffic Engineering. Modifications to up to two existing traffic signals regarding the pedestrian phasing are proposed under this project at the intersection of Kings Highway East/North Avenue (Route 1), Tunxis Hill Road Cut-Off South (Route 58), Tunxis Hill Road, and Moody Avenue. Additionally, a road diet is proposed along Kings Highway East/North Avenue (Route 1) within the project limits, decreasing from two traffic lanes in each direction to one traffic lane in each direction. For further information regarding any approval requirements, please contact OSTA:
   https://portal.ct.gov/-/media/DOT/documents/dstc/ltaguidancepdf.pdf

   Office of the State Traffic Administration
   Connecticut Department of Transportation
   2800 Berlin Turnpike
   Newington, CT 06131
   Phone: (860) 594-3020
   Fax: (860) 594-2552
   DOT.OSTA@ct.gov

Please be informed that, in accordance with the LOTCIP guidelines, the Department will initiate a Permit Need Determination and an Environmental Screening Review for this project to assist the Municipality in identifying items relative to natural resources, historic/archaeological resources, etc., that may need to be investigated or addressed during the design phase. The Environmental Screening Review is expected to be completed within approximately ninety (90) days. The Permit Need Determination is expected to be completed within approximately ninety (90) days. The results will be forwarded to the Municipality and the COG when received.

If the Municipality accepts this Commitment to Fund, please sign below and return a copy of this letter to this office within thirty (30) days. Transmission via e-mail is acceptable.

If you have any questions, please contact the Project Manager, Mr. Vitalij V. Staroverov, P.E., at (860) 594-2582 or via email at Vitalij.Staroverov@ct.gov.

Very truly yours,

Michael N. Calabrese, P.E. 2023.03.26 22:06:40-04'00'

Michael N. Calabrese, P.E.
Division Chief of Highway Design
Bureau of Engineering and Construction

Enclosure

Accepted By: _____ Date: _____
The Honorable Brenda L. Kupchick
First Selectwoman

cc: Mr. William Hurley, P.E., Engineering Manager, Town of Fairfield, whurley@fairfieldct.org
Mr. Matt Fulda, Executive Director, CT Metropolitan Council of Governments, mfulda@ctmetro.org
Ms. Meghan Sloan, Planning Director, CT Metropolitan Council of Governments, msloan@ctmetro.org
The Honorable Joseph P. Ganim, Mayor, City of Bridgeport, mayor@bridgeportct.gov

Construction Cost Estimate | LOTCIP Application

Kings Hwy Pedestrian Improvements Phase 3-Town of Fairfield

Major and Minor Contract Items

Item No.	Item	Unit	Quantity	Unit $	Total Cost
202502	Removal of Concrete Pavement	sy	1650	$ 20.00	$ 33,000.00
202509	Saw Cut Concrete	lf	2490	$ 5.00	$ 12,450.00
205003	Trench Excavation 0'-10' Deep	cy	560	$ 35.00	$ 19,600.00
205004	Rock In Trench Excavation 0'-	cy	40	$ 125.00	$ 5,000.00
209001	Formation of Subgrade	sy	550	$ 9.00	$ 4,950.00
219011	Sediment Control System At	ea	15	$ 225.00	$ 3,375.00
304002	Processed Aggregate Base	cy	780	$ 50.00	$ 39,000.00
406005	Pavement Replacement	sy	1400	$ 35.00	$ 49,000.00
507001	Type 'C' Catch Basin	ea	15	$ 3,250.00	$ 48,750.00
507006	Type 'C' Catch Basin Top	ea	15	$ 1,850.00	$ 27,750.00
601020	Stamped Concrete	sf	3075	$ 25.00	$ 76,875.00
651012	15"R.C.Pipe	lf	400	$ 80.00	$ 32,000.00
811011	Concrete Curbing	lf	6200	$ 30.00	$ 186,000.00
921001	Concrete Sidewalk	sf	17500	$ 12.00	$ 210,000.00
921005	Concrete Sidewalk Ramp	sf	1120	$ 22.00	$ 24,640.00
921039	Detectable Warning Strip	ea	11	$ 250.00	$ 2,750.00
944000	Furnishing And Placing Topsoil	sy	850	$ 12.00	$ 10,200.00
950005	Turf Establishment	sy	850	$ 5.00	$ 4,250.00
969060	Construction Field Office, Small	month	4	$ 3,400.00	$ 13,600.00
970006	Trafficperson (Municipal Police	est	1	$ 105,000.00	$ 105,000.00
1208931	Sign Face-Sheet Aluminum	sf	250	$ 45.00	$ 11,250.00
1210105	Epoxy Resin Pavement	sf	600	$ 4.00	$ 2,400.00
1220027	Construction Signs	sf	300	$ 25.00	$ 7,500.00
110000	Minor Modifications to Traffic	ea	2	$ 37,000.00	$ 74,000.00
				$ 1.00	$ -
				$ 1.00	$ -
				$ 1.00	$ -
				$ 1.00	$ -
				$ 1.00	$ -
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				$ 1.00	$ -
				$ 1.00	$ -
				$ 1.00	$ -
				$ 1.00	$ -
	Prepared by R.F.Kulacz, P.E.			$ 1.00	$ -
	Revised 12/15/2021			$ 1.00	$ -
				$ 1.00	$ -

Major Items Subtotal			**$ 1,003,340**
Minor Items Subtotal	20	% of Line "A"	**$ 200,668**
Major and Minor Contract Items Subtotal (A + B)			**$ 1,204,008**
Other Item Allowances			
Clearing and Grubbing	1	% of Line "C"	$ 12,040
M & P of Traffic	5	% of Line "C"	$ 60,200
Mobilization	6	% of Line "C"	$ 72,240
Construction Staking	1	% of Line "C"	$ 12,040
Other Items Subtotal			**$ 156,520**
CONTRACT SUBTOTAL (C + D)			**$ 1,360,528**
Inflation Costs (Simple Method)			
Date of Estimate	Jun-20		
Anticipated Bid Date	Mar-23		
Annual Inflation	4%		
Inflation Subtotal	11.2%	of Line "E"	**$ 152,379**
TOTAL CONTRACT COST ESTIMATE (E + F) (Rounded to nearest $1000)			**$ 1,513,000**
LOTCIP Project Costs Summary			
Contract Cost Estimate (Line "G")			$ 1,513,000
Contingencies	10%		$ 151,300
Incidentals	10%		$ 151,300
ROW	LS		N/A
Utilities	LS		$ 125,000
TOTAL PROJECT COST			**$ 1,940,600**
CTDOT FUNDING COMMITMENT (DATE)			**$ -**

Individual Construction Items & Costs			
**** See CTDOT website for additional cost information***		**Unit**	**2015 LOTCIP Solicitation Cost/Unit**
1	**PAVEMENT**		
	HMA (0.25 inch to 1.0 inch) <100 tons	ton	$120.00
	HMA (0.25 inch to 1.0 inch) 100 - 1,000 tons	ton	$100.00
	HMA (0.25 inch to 1.0 inch) >1,000 tons	ton	$90.00
	Subbase	C.Y.	$35.00
	Processed aggregate base	C.Y.	$40.00
	Rolled gravel base	C.Y.	$35.00
	Formation of subgrade	S.Y.	$3.00
	Cut pavement - bituminous	L.F.	$2.00
	Cut pavement - concrete	L.F.	$6.00
	Material for tack coat	GAL.	$4.00
	Milling of Bit. Concrete 0-4"	S.Y.	$5.00
	Reclamation (10" Maximum Depth)	S.Y.	$10.00
	Pavement Recycling (4" Maximum Depth)	S.Y.	$6.75
	Removal of concrete pavement	S.Y.	$11.00
2	**EARTHWORK**		
	Earth excavation - less than 500 cy	C.Y.	
	Earth excavation - 500 to 2,500cy	C.Y.	
	Earth excavation - 2,500 to 5,000cy	C.Y.	
	Earth excavation - more than 5,000 cy	C.Y.	
	Rock excavation - less than 500 cy	C.Y.	
	Rock excavation - 500 to 2,500cy	C.Y.	
	Rock excavation - 2,500 to 5,000cy	C.Y.	
	Rock excavation - more than 5,000 cy	C.Y.	
	Borrow - less than 500 cy	C.Y.	$20.00
	Borrow - 500 to 5,000cy	C.Y.	$15.00
	Borrow - more than 5,000 cy	C.Y.	$10.00

Individual Construction Items & Costs			
3. DRAINAGE			
	Catch basin	EA.	$3,000.00
	Double grate catch basin	EA.	$4,300.00
	Complex basin (CM-2)	EA.	$5,500.00
	Catch basin top	EA.	$600.00
	Reset Catch basin	EA.	$800.00
	Manhole (new)	EA.	$3,000.00
	Manhole (reset)	EA.	$700.00
	Abandon Manhole or Catch basin	EA.	$1,500.00
	Class "A" concrete	C.Y.	$650.00
	Bedding material (< 100 cy)	C.Y.	$40.00
	Bedding material (100-1,000 cy)	C.Y.	$30.00
	Bedding material (>1,000 cy)	C.Y.	$20.00
	Riprap	C.Y.	$75.00
	Trench excavation (0'-4' deep)	C.Y.	$12.00
	Trench excavation (0'-10' deep)	C.Y.	$14.00
	Trench excavation (0'-15' deep)	C.Y.	$15.00
	Trench excavation (0'-20' deep)	C.Y.	$18.00
	Rock in trench excavation	C.Y.	$100.00
	Paved ditch	S.Y.	$60.00
	Sedimentation control system	L.F.	$5.00
	Sedimentation Chamber (10'x4')*	EA.	$35,000.00
	Sedimentation Chamber (13'x7')*	EA.	$40,000.00
	Sedimentation Chamber (18'x12')*	EA.	$50,000.00
	12" R.C. pipe	L.F.	$45.00
	15" R.C. pipe	L.F.	$50.00
	18" R.C. pipe	L.F.	$60.00
	24" R.C. pipe	L.F.	$70.00
	30" R.C. pipe	L.F.	$80.00
	36" R.C. pipe	L.F.	$110.00
	42" R.C. pipe	L.F.	$130.00
	48" R.C. pipe	L.F.	$170.00
	24" R.C. culvert end	EA.	$1,100.00
	30" R.C. culvert end	EA.	$1,400.00
	36" R.C. culvert end	EA.	$1,500.00

Individual Construction Items & Costs

4. GUIDE RAIL

Metal beam rail (type R-B 350)	L.F.	$25.00
Metal beam rail (type R-B 350) - End Anchorage	EA.	$1,000.00
Metal beam rail (type R-B 350) - Bridge Attachment (trailing end $700 ea.)	EA.	$2,500.00
Three-cable guide railing (I-beam post)	L.F.	$15.00
Merritt Parkway Guiderail (local roads only)	L.F.	$60.00
Anchorages	EA.	$1,000.00
Precast conc. median or Jersey barrier (21" X 45")	L.F.	$100.00
Precast conc. median or Jersey barrier (30" X 45")	L.F.	$120.00
Temporary precast conc. barrier (24" X 32")	L.F.	$40.00

Individual Construction Items & Costs

5	**OTHER ITEMS**		
	Bituminous concrete curbing (if new, consider adding pavement)	L.F.	$5.00
	Concrete curbing	L.F.	$27.00
	Granite curbing	L.F.	$34.00
	Reset granite curbing	L.F.	$25.00
	Cut concrete sidewalk	L.F.	$5.00
	Concrete sidewalk	S.F.	$10.00
	Concrete sidewalk(stamped/dyed)	S.F.	$20.00
	Brick sidewalk	S.F.	$25.00
	Concrete paving brick	S.F.	$22.00
	Bituminous concrete sidewalk	S.Y.	$38.00
	Bituminous concrete driveway	S.Y.	$40.00
	Sodding	S.Y.	$12.00
	Turf establishment	S.Y.	$2.00
	Furnish & place topsoil	S.Y.	$7.00
	Traffic signals - new ($225,000 if part of a city system)	EA.	$150,000.00
	Traffic signals- modification ($80,000 if major modification)	EA.	$30,000.00
	Temporary Signalization ($35,000 if not at existing signal)	EA.	$3,500.00
	Street lighting	L.F.	$45.00

* Required per Stormwater Phase II General Permit (see DEP/DOT guidelines)

Selected Composite Items & Costs

1. PAVEMENT

(unit prices include HMA, tack coat, and formation of subgrade; excavation not included and must be calculated separately)

	unit	<4,000	4,000 - 40,000 SF	>40,000 SF
Arterial composite pavement cost: 4" HMA 0.5 inch on 6" HMA 1.0 inch on 14" Subbase in earth (in 20" rock)	S.F.	$9.60 ($12.20)	$8.30 ($10.50)	$7.70 ($9.40)
Collector composite pavement cost: 3" HMA 0.5 inch on 6" HMA 1.0 inch on 10" Subbase in earth (in 20" rock)	S.F.	$8.40 ($10.20)	$7.20 ($8.80)	$6.70 ($7.90)

	unit	<8,000 SF	8,000 - 80,000 SF	>80,000 SF
Overlay: 2" HMA 0.5 inch with tack coat (min. overlay)	S.F.	$1.60	$1.30	$1.20

	unit	<5,000 SF	5,000 - 50,000 SF	>50,000 SF
Overlay: 3" HMA 0.5 inch with tack coat (structural)	S.F.	$2.30	$2.00	$1.80

	unit	<4,000 SF	4,000 - 40,000 SF	>40,000 SF
Overlay: 4" HMA 0.5 inch with tack coat (structural expressway)	S.F.	$3.10	$2.60	$2.30

Selected Composite Items & Costs

2. STRUCTURES	unit	unit price
Bridges - New (per sq. ft. of deck area)	S.F.	$400.00
Bridges - Deck rehabilitation (per sq. ft. of deck area)	S.F.	$125.00
Bridges - Deck replacement (per sq. ft. of deck area)	S.F.	$145.00
Bridges - New superstructure-including deck (per sq. ft. of deck area	S.F.	$250.00
Bridges - Removal of superstructure over roadway	S.F.	$55.00
Bridges - Removal of superstructure over water or rail	S.F.	$75.00
Concrete Modular Walls / Mechanically Stabilized Earth Walls (sf estimate of exposed face)	S.F.	$65.00
Cast-in-place concrete wall (sf estimate of exposed face)	S.F.	$105.00
Precast box culverts (Estimate per sq. ft of top face; Length X Width)	S.F.	$225.00

3. DRAINAGE (Unit prices include surface runoff and CB's; doesn't include cross culverts or sedimentation chambers)	unit	unit price
Compact Urban Area - Full Drainage Improvement (total cost / area of pavement)	S.F.	$7.00
Suburban Area - Full Drainage Improvement (total cost / area of pavement)	S.F.	$4.60
Suburban Area - Upgraded Drainage & Rural Drainage (total cost / area of pavement)	S.F.	$2.30

20 YEARS

A RESOLUTION APPROPRIATING $7,150,000 FOR COSTS ASSOCIATED WITH THE INSPECTION AND CONSTRUCTION PHASE OF THE TURNEY CREEK/RIVERSIDE DRIVE TIDEGATES PROJECT, AND AUTHORIZING THE ISSUANCE OF BONDS IN AN AMOUNT NOT TO EXCEED $7,150,000 TO FUND THE BALANCE OF SUCH APPROPRIATION.

- -

RESOLVED:

1. As recommended by the Board of Finance and the Board of Selectmen, the Town of Fairfield (the "Town") hereby appropriates the sum of Seven Million One Hundred Fifty Thousand and 00/100 Dollars ($7,150,000) for costs related to the inspection and construction phase of the Turney Creek/Riverside Drive Tidegates Project, including but not limited to, the costs to replace the existing bridge with a system of culverts, tidegates, and an additional siphon, and all related design, environmental inspection, administrative, financing, legal, contingency and other soft costs (the "Project").

2. To finance such appropriation and in lieu of a tax therefor, and as recommended by the Board of Finance and the Board of Selectmen, the Town may borrow a sum not to exceed Seven Million One Hundred Fifty Thousand and 00/100 Dollars ($7,150,000) and issue its general obligation bonds/bond anticipation notes for such indebtedness under its corporate name and seal and upon the full faith and credit of the Town in an amount not to exceed said sum for the purpose of financing the appropriation for the Project.

3. The Board of Selectmen, the Treasurer and the Fiscal Officer of the Town are hereby appointed a committee (the "Committee") with full power and authority to cause said bonds to be sold, issued and delivered; to determine their form and terms, including provision for redemption prior to maturity; to determine the aggregate principal amount thereof within the amount hereby authorized and the denominations and maturities thereof; to fix the time of issue of each series thereof and the rate or rates of interest thereon as herein provided; to determine whether the interest rate on any series will be fixed or variable and to determine the method by which the variable rate will be determined, the terms of conversion, if any, from one mode to another or from fixed to variable; to set whatever other terms of the bonds they deem necessary, desirable or appropriate; to designate the bank or trust company to certify the issuance thereof and to act as transfer agent, paying agent and as registrar for the bonds, and to designate bond counsel. The Committee shall have all appropriate powers under the Connecticut General Statutes, including Chapter 748 (Registered Public Obligations Act) and Chapter 109 (Municipal Bond Issues) to issue, sell and deliver the bonds and, further, shall have full power and authority to do all that is required under the Internal Revenue Code of 1986, as amended, and under rules of the Securities and Exchange Commission, and other applicable laws and regulations of the United States, to provide for issuance of the bonds in tax exempt form and to meet all

requirements which are or may become necessary in and subsequent to the issuance and delivery of the bonds in order that the interest on the bonds be and remain exempt from Federal income taxes, including, without limitation, to covenant and agree to restriction on investment yield of bond proceeds, rebate of arbitrage earnings, expenditure of proceeds within required time limitations, the filing of information reports as and when required, and the execution of Continuing Disclosure Agreements for the benefit of the holders of the bonds and notes.

4. The First Selectwoman and Treasurer or Fiscal Officer, on behalf of the Town, shall execute and deliver such bond purchase agreements, reimbursement agreements, line of credit agreement, credit facilities, remarketing, standby marketing agreements, standby bond purchase agreements, and any other commercially necessary or appropriate agreements which the Committee determines are necessary, appropriate or desirable in connection with or incidental to the sale and issuance of bonds, and if the Committee determines that it is necessary, appropriate, or desirable, the obligations under such agreements shall be secured by the Town's full faith and credit.

5. The First Selectwoman and Treasurer or Fiscal Officer shall execute on the Town's behalf such interest rate swap agreements or similar agreements related to the bonds for the purpose of managing interest rate risk which the Committee determines are necessary, appropriate or desirable in connection with or incidental to the carrying or selling and issuance of the bonds, and if the Committee determines that it is necessary, appropriate or desirable, the obligations under such interest rate swap agreements shall be secured by the Town's full faith and credit.

6. The bonds may be designated "Public Improvement Bonds of the Town of Fairfield", series of the year of their issuance and may be issued in one or more series, and may be consolidated as part of the same issue with other bonds of the Town; shall be in serial form maturing in not more than twenty (20) annual installments of principal, the first installment to mature not later than three years from the date of issue and the last installment to mature not later than twenty (20) years from the date of issuance or as otherwise provided by statute. The bonds may be sold at an aggregate sales price of not less than par and accrued interest at public sale upon invitation for bids to the responsible bidder submitting the bid resulting in the lowest true interest cost to the Town, provided that nothing herein shall prevent the Town from rejecting all bids submitted in response to any one invitation for bids and the right to so reject all bids is hereby reserved, and further provided that the Committee may sell the bonds on a negotiated basis, as provided by statute. Interest on the bonds shall be payable semi-annually or annually. The bonds shall be signed on behalf of the Town by at least a majority of the Board of Selectmen and the Treasurer, and shall bear the seal of the Town. The signing, sealing and certification of the bonds may be by facsimile as provided by statute.

7. The Committee is further authorized to make temporary borrowings as authorized by the General Statutes and to issue temporary notes of the Town in anticipation of the receipt of proceeds from the sale of the bonds to be issued pursuant to this resolution. Such notes shall be issued and renewed at such time and with such maturities, requirements and

limitations as provided by the Connecticut General Statutes. Notes evidencing such borrowings shall be signed by the First Selectwoman and Treasurer or Fiscal Officer, have the seal of the Town affixed, which signing and sealing may be by facsimile as provided by statute, be certified by and payable at a bank or trust company incorporated under the laws of this or any other state, or of the United States, be approved as to their legality by bond counsel, and may be consolidated with the issuance of other Town bond anticipation notes. The Committee shall determine the date, maturity, interest rates, form and manner of sale, including negotiated sale, and other details of said notes consistent with the provisions of this resolution and the Connecticut General Statutes and shall have all powers and authority as set forth above in connection with the issuance of bonds and especially with respect to compliance with the requirements of the Internal Revenue Code of 1986, as amended, and regulations thereunder in order to obtain and maintain issuance of the notes in tax exempt form.

8. Pursuant to Section 1.150-2, as amended, of the Federal Income Tax Regulations the Town hereby declares its official intent to reimburse expenditures (if any) paid for the Project from its General or Capital Funds, such reimbursement to be made from the proceeds of the sale of bonds and notes authorized herein and in accordance with the time limitations and other requirements of said regulations.

9. The First Selectwoman, Fiscal Officer and Town Treasurer are hereby authorized, on behalf of the Town, to enter into agreements or otherwise covenant for the benefit of bondholders to provide information on an annual or other periodic basis to the Municipal Securities Rulemaking Board (the "MSRB") and to provide notices to the MSRB of material events as enumerated in Securities and Exchange Commission Exchange Act Rule 15c2-12, as amended, as may be necessary, appropriate or desirable to effect the sale of the bonds and notes authorized by this resolution.

10. The Committee is hereby authorized to take all action necessary and proper for the sale, issuance and delivery of the bonds and notes in accordance with the provisions of the Connecticut General Statutes and the laws of the United States. The First Selectwoman is authorized to negotiate and enter into grant agreements on behalf of the Town to fund the Project and to accept on behalf of the Town any grant to fund the Project. The First Selectwoman and other Town officials are authorized to seek grants and other contributions for the costs of the Project and take all such actions necessary or appropriate to obtain such grants and other contributions including execution and delivery of contracts related to such grants. Any such grants or contribution received prior to the issuance of the Bonds authorized herein shall be applied to the costs of the Project or to pay at maturity the principal of any outstanding bond anticipation notes issued pursuant this resolution and shall reduce the amount of the Bonds that can be issued pursuant to this resolution. If such grants and contributions are received after the issuance of the Bonds, they shall be applied to pay the principal on the Bonds or as otherwise authorized by the Board of Selectmen, Board of Finance and Representative Town Meeting provided such application does not adversely affect the tax exempt status of the Bonds or the Town's receipt of such grant or contribution.

Re: 14 Points

Capital Budget – Turney Creek-Riverside Culverts, Tide Gates and Siphon

$7,150,000

Background – Circa 2018-2019, The Turney Creek (@ Riverside Drive) Tidegates started having some repair issues including a broken self regulating tidegate, a deteriorating retaining wall and disjointed culverts that cause sinkholes . At the same time, the East Trunk Sewer line replacement was being designed and the Riverside Drive Bridge report revealed fair to poor ratings. Rather than perform three separate projects, the Town decided to construct all 3 at once resulting in a cost saving, shorter construction schedule and more environmental friendly design. The Town hired a consultant to provide construction plans combining them into one project. The Conservation Department operates and maintains the self regulating tide gates and flap tidegates for tidal marsh enhancement and flood control structures. DPW maintains the road, sidewalks, culverts and bridge. The WPCA maintains the sanitary sewer and siphon chambers located under and adjacent to the bridge. For this specific project, five Town Departments are involved, due to the complexity and functionality of this structure the three mentioned previously with Engineering and Finance providing administration, funding and potential grants.

This project is located on Riverside Drive in the Turney Creek-Riverside open space parcel across from. Shoreham Terrace.

Purpose and Justification – The purpose of the proposal is to replace aging infrastructure (50-75 years old) to prevent culvert failure, settling sidewalks, sinkholes and major flooding by replacing the existing structures. The project basically combines three related projects into one major project. The existing (SRT) tide gates and culverts are beyond its life expectancy. One SRT tidgegate is "broken" and non- functioning and the other SRT has limited functions that require replacement. Soil pressures have caused the retaining wall to tilt and expand and should be replaced soon. The two 48- inch culverts suffer corrosion and are disjointed. The three 84- inch ACCMP culverts located under the bridge were repaired in the 1990s and are nearing the end of their service life. At the end of these culverts, timber top hinged (flap) gates are also nearing the end of their service life after repairs and replacement circa 2005. The existing twin sanitary sewer siphons are almost 70 years old and while in serviceable condition, blockages have occurred occasionally with limited flow capacity. Due to the nature of splitting flows and bucking gravity to go under bridge/ culverts.

Detailed Description of Proposal –The proposed project is to replace the existing bridge, with five (5) culverts, five (5) tidegates, replace retaining wall(s) and providing an additional sanitary sewer siphon, in accordance with the engineered design and approved permits. The replacement of this infrastructure includes modification of the culverts to better streamline flows and lessen permanent footprint. The culverts will be all within proposed headwalls and replacement culverts will be steel reinforced Polyethylene (SRPE) pipe to prevent deterioration in the salt water environment. The culverts will also be anchored with tie

downs to a cast in place concrete mat to prevent buoyancy. There are also support steel sheet pile cutoff walls to prevent settlement, scour and flow under the structure. The replacement sewer main consists of three (3) 18 inch PVC pipes. The new siphon lines will provide redundancy in case problems occur in one of the lines and will increase capacity flows. The project also involves some soil remediation for contamination and working around a Southern CT gas line. Currently all local, state and federal permits are secured and the design plans are 95 % complete. This project is "shovel ready" for "quick build".

Reliability of Cost Estimate – The estimated costs are based on the similarity to other completed projects and Consultant Estimates. The costs of materials and installation have been adjusted higher to account for inflation, increased material costs and design/permitting expenses. True costs won't be determined until the project goes out to bid. See attached calculation estimate.

Increased Efficiency or Productivity – There is increased efficiency and productivity anticipated since one tide gate is not functioning and the other is severely limited and is at the end of its service life. Sewer capacity is increased with the third siphon.

Additional Long Range Costs – Any long-term costs would be incidental to the equipment and operation of the tide gates, culverts and siphons. Any maintenance costs for these structures are covered under their respective Department's annual operating budget throughout their functional life expectancy.

Additional Use or Demand on Existing Facilities – None anticipated; however, the third Sewer siphon will decrease potential SSOs and blockage potential and would increase sewer main capacity. Environmental improvements are expected since there would be improvement of tidal conveyance.

An alternative to this Request- the alternatives to this request are to separate each project with 3 different phases or not to move forward with the replacement at this time. Separating into phases would result in an approximate 4-6 year detour, longer disruption of the tidal creek and roadway, involve several mobilizations and contractors resulting in additional costs. Do nothing alternative is not realistic as the tidegates, culverts are problematic and need replacement.

Safety and Loss Control –If this tide gate is not replaced during the FY24 review, delay could compromise flood control and environmental benefits in western neighborhoods adjacent to Ash Creek and to some extent, elsewhere in Town. Sinkholes and settlement would continue to create safety issues.

Environmental Considerations – All significant environmental considerations will be related during actual construction/installation activities and conducted under all applicable permits, including but not limited to: sediment & erosion controls, wildlife breeding/migration, removal of contaminated soil, weather, seasonal cycles, noise, etc.

Insurance – Will be required by the Purchasing Department as part of regular RFP/contract bid award process.

Financing – Capital Budget. Project is expected to cost $ 6.5 Million with 20 % cost increase from 2020 pricing. If 10 % contingency is added, project costs increase to $ 7.15 Million. $6.75 million of the project will be financed using Town General Obligation bonds. $400,000 will be paid for out of the WPCA Fund Balance for the Riverside Drive Siphon portion of the project.

Other Considerations: Roadway would be closed. Contractor access from Riverside Drive and Town-owned land for staging. Adjacent neighbors/public would be notified.

Other Potential Approvals: USACE, CTDEEP, Conservation Commission/IWA (valid permits previously approved).

WPCA	Approved
Board of Selectmen	March 2023
Board of Finance	March/April 2023
Representative Town Meeting	May 2023

Other Considerations: Roadway would be closed. Contractor access from Riverside Drive and Town-owned land for staging. Adjacent neighbors/public would be notified.

Other Potential Approvals: USACE, CTDEEP, Conservation Commission/IWPA (Approved).

Board of Selectmen	March 2023
Board of Finance	March/April 2023
Representative Town Meeting	May 2023

F-0439-011
September 8, 2020

Brian Carey
Conservation Director
Town of Fairfield
Old Town Hall
611 Old Post Road
Fairfield, Connecticut 06824

Re: **Sediment Sampling**
Turney Creek Outfall Improvements

Dear Mr. Carey:

Tighe & Bond has prepared this letter to document the results of the sediment sampling work conducted to support the Turney Creek Outfall Improvement project for the Town of Fairfield. The Turney Creek Outfall Bridge is part of Riverside Drive, spans Turney Creek, and is located adjacent to the intersection of Riverside Drive and Shoreham Terrace. The planned construction activities to replace the existing bridge and bulkhead/tide gate structures will require the disturbance and removal of sediment which has accumulated in the area of the bridge. For the purposes of this letter, the bridge and the area north and south of the bridge which will be impacted by construction and sediment removal activities will be referred to as the site.

Background

The anticipated bridge foundations will include driven piles and sheet piles that will require the excavation of approximately three to four feet of sediment from within and adjacent to the watercourse. Based on the concerns raised by the US Army Corps of Engineers (ACOE) of potential contamination present in these sediments, an environmental assessment was conducted at the site. The goal of the assessment was to determine the environmental condition of the sediment in the area of the bridge and to provide the Town with information for use in response to the ACOE.

Potentially impacted material could affect health and safety procedures during construction activities, adversely impact the environment, and/or impact waste disposal requirements and costs. The information presented in this letter will also be used to document existing sediment conditions in the construction/bid documents Tighe & Bond is preparing for the outfall/bridge improvement project project.

The potential sources of contamination identified by the ACOE include known petroleum and metal releases at the former Handy & Harman metals processing factory as well as the long history of industrial facilities operating along Ash Creek (since at least 1939).

A pilot test to determine the level of effort needed to penetrate the sediment was conducted on January 6, 2020. Based on the pilot test, a sampling method was devised and detailed in the Sediment Sampling Workplan submitted to the Town in May 2020. The Workplan also outlined the rationale for the analytical program which was implemented for the sediment samples. Based on the known contamination to soil and surface water at the former Handy and Hamon facility, as well as the historic and current commercial and industrial properties in the area, Tighe & Bond identified the following list of contaminants of concern (COCs) to be analyzed:

- Extractable Total Petroleum Hydrocarbons (ETPH),
- Volatile organic compounds (VOCs),

- Semi volatile organic compounds (SVOCs),
- Polychlorinated biphenyls (PCBs),
- RSR metals (which include the metals previously detected at the Handy and Hamon facility), and
- Pesticides

A waste characterization sample was also be collected. This sample will be submitted for laboratory analysis of the site specific COCs as well as the following parameters typically required to identify reuse or waste disposal options:

- Reactivity
- pH
- Ignitability
- Paint filter test

Sediment Sampling

Tighe & Bond oversaw the collection of sediment samples by Town of Fairfield employees on the northern and southern sides of the Turney Creek Outfall Bridge. A total of six sediment samples, three on each side of the bridge, were collected using a split spoon driven into the sediment utilizing hand tools. Sample locations were selected in the field based on accessibility and field observations such as areas of observed sediment accumulation. Sample locations are depicted on the attached Sediment Sampling Plan.

The sediment samples were screened in the field for visual or olfactory evidence of impact. In addition, a photoionization detector (PID) was used to screen the sediment for volatile organic vapors. PID reading ranged from 0.0 to 11 ppm in the sediments screened. In general, the sediment screened from 2-4 feet below ground surface (bgs) had lower PID measurements than the sediment screened in the upper 0-2 foot samples.

A faint petroleum odor and black staining was observed in the sediment samples collected from 0-2 feet bgs in sample locations SED-2, SED-4, and SED-5. Odors or staining were not observed in the deeper sample collected between 2-4 feet bgs at these locations. The sediment at sample location SED-6 contained visual petroleum staining and petroleum odors from 0-4 feet bgs. Indications of potential petroleum impact were not observed in the sediment at sample locations SED-1 and SED-3.

Based on the results of the field screening, six sediment samples identified as SED-1 through SED-6, were submitted to Phoenix Environmental Laboratories of Manchester, CT for analysis of a combination of the COCs identified above. The samples analyzed were collected from both the 0-2 foot and the 2-4 foot intervals in order to assess the sediment likely to be disturbed by construction activities.

Results

The purpose of the sediment assessment was to help guide proper health and safety procedures as well as sediment disposal options for the future bridge improvement project. The analytical results were compared to the Residential Direct Exposure Criteria (Res DEC) listed in the Connecticut Department of Energy and Environmental Protection (CTDEEP) Remediation Standard Regulations (RSRs). The RSRs do not apply to sediment remediation; however, comparison to the RES DEC was used as a screening parameter for potential health and safety concerns during future construction activities. Sediment is often compared to the National Oceanic and Atmospheric Administration (NOAA) Screening Quick Reference Tables (SQuiRTs) as a preliminary screening tool to identify areas that may require sediment remediation. As sediment remediation is outside the scope of the overall bridge reconstruction project, SQuiRT criteria were not utilized during this assessment.

EPTH was detected at concentrations above the Res DEC in sample SED-4 (0-2') and below the Res DEC in sample SED-5 (2'-4'). The remaining samples were not reported to contain concentrations of ETPH above laboratory reporting limits. However, elevated ETPH concentrations may be present in the 0-2-foot depth interval in other areas (sample locations SED-2, SED-5, and SED-6) where petroleum odors and staining were observed.

SVOCs were detected in each of the sediment samples analyzed. Three PAHs, benzo(a)anthracene, benzo(a)pyrene, and benzo(b)fluoranthene, were detected at concentrations above the Res DEC in sample SED-1 (0-2'). The remaining SVOC detections did not exceed the Res DEC.

Metal concentrations typical of soils and sediment found in Connecticut were reported in the six samples. The concentrations did not appear to indicate a release.

A common laboratory contaminant, carbon disulfide, was detected at a trace concentration in sample SED-3 (2'-4') and does not likely indicate a release of VOCs. No other VOCs were detected at concentrations above laboratory reporting limits.

Pesticides and PCBs were not reported at concentrations above laboratory reporting limits.

Waste characterization sample WC-1 was analyzed for parameters typically required for waste disposal facilities. The results of the waste characterization sample will be included in the construction/bid documents for use in managing the excavated sediments.

A summary table of the laboratory analytical results is attached as Table 1.

Summary and Conclusion

This memorandum was prepared to document the results of the sediment sampling work conducted to support the Turney Creek Outfall Improvement project for the Town of Fairfield. Six sediment samples were collected from the areas surrounding the bridge to assess the sediments likely to be disturbed during the bridge replacement project. The sample results indicate that sediments located on both sides of the bridge are known or suspected to be impacted with petroleum hydrocarbons.

Technical specifications and contractual requirements will be included in the construction/bid documents Tighe & Bond is preparing for the outfall/bridge improvement project to address sediment handling, management, and disposal options. We will also specify that the Contactor prepare a Health and Safety Plan to promote proper health and safety procedures and worker safety during construction.

Thank you for the opportunity to provide our services and we look forward to continuing to work with you on this project. If there are any questions or comments on these results, please contact Harley Langford at (860) 704-4781 or HALangford@tighebond.com.

TIGHE & BOND, INC.

Harley Langford, LEP
Project Manager

James T. Olsen, PG, LEP
Vice President

Attachments: Figure 1 – Environmental Sampling Plan
Table 1 – Sediment Sampling Results
Laboratory Report – June 17, 2020

LEGEND

- Sediment Sample Location
- CT Municipal Boundary

Tighe&Bond

Based on 2019 Statewide Leaf-Off Orthophotography, Courtesy of CTECO.

1:1,200

0 50 100

Feet

N

FIGURE 1
SEDIMENT SAMPLING PLAN

Turney Creek Outfall
Improvement Project
Fairfield, Connecticut

June 2020

V:\Projects\F\F0439\TurnkeyCreekBridgeProject_SedimentSitePlan.mxd [Exported By: smmorse, 6/26/2020, 12:55:35 PM]

F-0439

TABLE 1
Sediment Sampling Results
Fairfield Turney Creek Outfall
Fairfield, Connecticut

Sample Name	CTDEEP	SED-1	SED-2	SED-3	SED-4	SED-5	SED-6	WC-1
Sample Depth	RSR	0 - 2 ft	2 - 4 ft	2 - 4 ft	0 - 2 ft	2 - 4 ft	2 - 4 ft	Composite
Sample Date	Criteria	6/10/20	6/10/20	6/10/20	6/10/20	6/10/20	6/10/20	6/10/20
Lab Sample ID	RES DEC	CG10797	CG10800	CG10803	CG10802	CG10806	CG10808	CG10809
General Chemistry								
Flash Point (Deg F)	NS	-	-	-	-	-	-	<200
Ignitability (Deg F)	NS	-	-	-	-	-	-	<140
Paint Filter Test	NS	-	-	-	-	-	-	NEGATIVE
Percent Solid (%)	NS	80	76	77	73	84	72	73
pH	NS	-	-	-	-	-	-	7.71
Sulfide (Reactive) (mg/Kg)	NS	-	-	-	-	-	-	30
Cyanide (Reactive) (mg/Kg)	NS	-	-	-	-	-	-	<6
CT ETPH (mg/Kg)	500	<61	<65	<64	**520**	170	<69	<67
Metals 6010D (mg/Kg)								
Arsenic	10	1.91	<0.84	1.05	1.52	0.84	<0.86	1.5
Barium	4,700	25.8	18.7	27.7	26.1	54.1	12.8	26.1
Beryllium	2	<0.35	<0.34	0.32	<0.38	<0.33	<0.34	<0.34
Cadmium	34	1.31	2.33	1.43	1.21	0.83	1.98	2.29
Chromium (Total)	NS	15.2	9.52	19.7	16	11.3	8.11	12.7
Copper	2,500	47.2	71.3	17.6	67.9	36.5	17.6	63.7
Lead	400	35.4	18.8	7.37	22	11.7	9.04	25.6
Mercury	20	0.04	0.2	<0.03	0.12	<0.03	<0.04	0.18
Nickel	1,400	12	8.09	10.1	10.6	7.99	4.78	9.07
Silver	340	0.53	2.86	<0.40	1.25	<0.41	<0.43	1.49
Vanadium	470	25	15.3	19	18.6	27.1	9.19	15.7
Zinc	20,000	91.2	32.5	131	51.9	34.6	137	130
Pesticides 8081B (mg/Kg)	Varies	BRL	BRL	BRL	BRL	BRL	BRL	BRL
PCBs 8082A (mg/Kg)								
PCBs (Total)	1	BRL	BRL	BRL	BRL	BRL	BRL	BRL
VOCs 8260C (mg/Kg)								
Carbon disulfide	500	<0.006	<0.010	0.013	<0.009	-	<0.008	<0.008
SVOCs 8270D (mg/Kg)								
Acenaphthylene	1,000	0.54	<0.300	<0.300	<0.320	<0.270	<0.320	<0.320
Anthracene	1,000	0.45	<0.300	<0.300	<0.320	<0.270	<0.320	<0.320
Benzo(a)anthracene	1	**1.4**	<0.300	<0.300	0.35	0.67	<0.320	0.87
Benzo(a)pyrene	1	**1.3**	0.34	<0.300	0.42	0.67	<0.320	0.98
Benzo(b)fluoranthene	1	**1.1**	0.31	<0.300	0.42	0.51	<0.320	0.89
Benzo(g,h,i)perylene	8.4	0.79	<0.300	<0.300	<0.320	0.33	<0.320	0.59
Benzo(k)fluoranthene	8.4	1.1	<0.300	<0.300	0.34	0.47	<0.320	0.75
Chrysene	84	1.6	<0.300	<0.300	0.46	0.67	<0.320	1.1
Fluoranthene	1,000	3.4	0.44	<0.300	0.93	1.2	0.5	1.9
Indeno(1,2,3-cd)pyrene	1	0.77	<0.300	<0.300	<0.320	0.35	<0.320	0.59
Phenanthrene	1,000	2.4	<0.300	<0.300	0.41	0.41	<0.320	0.83
Pyrene	1,000	3.5	0.79	0.32	0.86	1.5	0.49	2.2

CTDEEP RSRs- Connecticut Department of Energy and Environmental Protection Remediation Standard Regulations (June 27, 2013)
CT ETPH- Connecticut Department of Public Health Extractable Total Petroleum Hydrocarbons
PCBs- Polychlorinated Biphenyls
VOCs- Volatile Organic Compounds
SVOCs- Semi-Volatile Organic Compounds
RES DEC-Residential Direct Exposure Criteria does not apply to sediment samples and are provided for comparison purposes only
Results presented in milligrams per kilogram (mg/kg)
Boxed and bolded values exceed criteria
NS- No standard
BRL - Below laboratory reporting limits
Only parameters reported above reporting limits are summarized above

PHOENIX
Environmental Laboratories, Inc.

Wednesday, June 17, 2020

Attn: Mr. Brian Sirowich
Tighe & Bond
213 Court St, Suite 1100
Middletown, CT 06457

Project ID: TURNEY CREEK OUTFALL
SDG ID: GCG10797
Sample ID#s: CG10797, CG10800, CG10802 - CG10803, CG10806, CG10808 - CG10809

This laboratory is in compliance with the NELAC requirements of procedures used except where indicated.

This report contains results for the parameters tested, under the sampling conditions described on the Chain Of Custody, as received by the laboratory. This report is incomplete unless all pages indicated in the pagination at the bottom of the page are included.

All soils, solids and sludges are reported on a dry weight basis unless otherwise noted in the sample comments.

A scanned version of the COC form accompanies the analytical report and is an exact duplicate of the original.

If you are the client above and have any questions concerning this testing, please do not hesitate to contact Phoenix Client Services at ext.200. The contents of this report cannot be discussed with anyone other than the client listed above without their written consent.

Sincerely yours,

Phyllis Shiller
Laboratory Director

NELAC - #NY11301
CT Lab Registration #PH-0618
MA Lab Registration #M-CT007
ME Lab Registration #CT-007
NH Lab Registration #213693-A,B
NJ Lab Registration #CT-003
NY Lab Registration #11301
PA Lab Registration #68-03530
RI Lab Registration #63
UT Lab Registration #CT00007
VT Lab Registration #VT11301

Environmental Laboratories, Inc.
587 East Middle Turnpike, P.O.Box 370, Manchester, CT 06045
Tel. (860) 645-1102 Fax (860) 645-0823

Sample Id Cross Reference

June 17, 2020

SDG I.D.: GCG10797

Project ID: TURNEY CREEK OUTFALL

Client Id	Lab Id	Matrix
SED-1 (0-2`)	CG10797	SEDIMENT
SED-2 (2-4`)	CG10800	SEDIMENT
SED-4 (0-2`)	CG10802	SEDIMENT
SED-3 (2-4`)	CG10803	SEDIMENT
SED-5 (2-4`)	CG10806	SEDIMENT
SED-6 (2-4`)	CG10808	SEDIMENT
WC-1	CG10809	SEDIMENT

Reference PHOENIX
Environmental Laboratories, Inc.
587 East Middle Turnpike, P.O.Box 370, Manchester, CT 06045
Tel. (860) 645-1102 Fax (860) 645-0823

Analysis Report

June 17, 2020

FOR: Attn: Mr. Brian Sirowich
Tighe & Bond
213 Court St, Suite 1100
Middletown, CT 06457

Sample Information		Custody Information		Date	Time
Matrix:	SEDIMENT	Collected by:		06/10/20	9:30
Location Code:	TIGHE-DAS	Received by:	LB	06/10/20	16:00
Rush Request:	Standard	Analyzed by:	see "By" below		
P.O.#:					

Laboratory Data

SDG ID: GCG10797
Phoenix ID: CG10797

Project ID: TURNEY CREEK OUTFALL
Client ID: SED-1 (0-2`)

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Silver	0.53	0.44	mg/Kg	1	06/11/20	TH	SW6010D
Arsenic	1.91	0.88	mg/Kg	1	06/11/20	TH	SW6010D
Barium	25.8	0.44	mg/Kg	1	06/11/20	TH	SW6010D
Beryllium	< 0.35	0.35	mg/Kg	1	06/11/20	TH	SW6010D
Cadmium	1.31	0.44	mg/Kg	1	06/11/20	TH	SW6010D
Chromium	15.2	0.44	mg/Kg	1	06/11/20	TH	SW6010D
Copper	47.2	0.9	mg/kg	1	06/11/20	TH	SW6010D
Mercury	0.04	0.03	mg/Kg	2	06/12/20	RS	SW7471B
Nickel	12.0	0.44	mg/Kg	1	06/11/20	TH	SW6010D
Lead	35.4	0.44	mg/Kg	1	06/11/20	TH	SW6010D
Antimony	< 4.4	4.4	mg/Kg	1	06/11/20	TH	SW6010D
Selenium	< 1.8	1.8	mg/Kg	1	06/11/20	TH	SW6010D
Thallium	< 4.0	4.0	mg/Kg	1	06/11/20	TH	SW6010D
Vanadium	25.0	0.44	mg/Kg	1	06/11/20	TH	SW6010D
Zinc	91.2	0.9	mg/Kg	1	06/11/20	TH	SW6010D
Percent Solid	80		%		06/10/20	HB	SW846-%Solid
Soil Extraction for Pesticide	Completed				06/11/20	LL/AA	SW3545A
Mercury Digestion	Completed				06/12/20	VT/VT	SW7471B
Extraction of CT ETPH	Completed				06/10/20	LG/EE	SW3546
Soil Extraction for SVOA	Completed				06/10/20	KK/MA	SW3546
Extraction for PCB	Completed				06/10/20	HH/KL/HB	SW3540C
Total Metals Digest	Completed				06/10/20	B/AG/BF	SW3050B
TPH by GC (Extractable Products)							
Ext. Petroleum H.C. (C9-C36)	ND	61	mg/Kg	1	06/11/20	JRB	CTETPH 8015D
Identification	ND		mg/Kg	1	06/11/20	JRB	CTETPH 8015D
QA/QC Surrogates							
% n-Pentacosane	68		%	1	06/11/20	JRB	50 - 150 %

Ver 1

Project ID: TURNEY CREEK OUTFALL
Client ID: SED-1 (0-2`)

Phoenix I.D.: CG10797

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	
PCB (Soxhlet SW3540C)							
PCB-1016	ND	420	ug/Kg	10	06/11/20	AW	SW8082A
PCB-1221	ND	420	ug/Kg	10	06/11/20	AW	SW8082A
PCB-1232	ND	420	ug/Kg	10	06/11/20	AW	SW8082A
PCB-1242	ND	420	ug/Kg	10	06/11/20	AW	SW8082A
PCB-1248	ND	420	ug/Kg	10	06/11/20	AW	SW8082A
PCB-1254	ND	420	ug/Kg	10	06/11/20	AW	SW8082A
PCB-1260	ND	420	ug/Kg	10	06/11/20	AW	SW8082A
PCB-1262	ND	420	ug/Kg	10	06/11/20	AW	SW8082A
PCB-1268	ND	420	ug/Kg	10	06/11/20	AW	SW8082A
QA/QC Surrogates							
% DCBP	94		%	10	06/11/20	AW	30 - 150 %
% DCBP (Confirmation)	71		%	10	06/11/20	AW	30 - 150 %
% TCMX	70		%	10	06/11/20	AW	30 - 150 %
% TCMX (Confirmation)	69		%	10	06/11/20	AW	30 - 150 %
Pesticides							
4,4' -DDD	ND	1.6	ug/Kg	2	06/12/20	CG	SW8081B
4,4' -DDE	ND	1.6	ug/Kg	2	06/12/20	CG	SW8081B
4,4' -DDT	ND	1.6	ug/Kg	2	06/12/20	CG	SW8081B
a-BHC	ND	1.6	ug/Kg	2	06/12/20	CG	SW8081B
Alachlor	ND	8.1	ug/Kg	2	06/12/20	CG	SW8081B
Aldrin	ND	1.6	ug/Kg	2	06/12/20	CG	SW8081B
b-BHC	ND	1.6	ug/Kg	2	06/12/20	CG	SW8081B
Chlordane	ND	40	ug/Kg	2	06/12/20	CG	SW8081B
d-BHC	ND	1.6	ug/Kg	2	06/12/20	CG	SW8081B
Dieldrin	ND	4.0	ug/Kg	2	06/12/20	CG	SW8081B
Endosulfan I	ND	8.1	ug/Kg	2	06/12/20	CG	SW8081B
Endosulfan II	ND	8.1	ug/Kg	2	06/12/20	CG	SW8081B
Endosulfan sulfate	ND	8.1	ug/Kg	2	06/12/20	CG	SW8081B
Endrin	ND	8.1	ug/Kg	2	06/12/20	CG	SW8081B
Endrin aldehyde	ND	8.1	ug/Kg	2	06/12/20	CG	SW8081B
Endrin ketone	ND	8.1	ug/Kg	2	06/12/20	CG	SW8081B
g-BHC	ND	1.6	ug/Kg	2	06/12/20	CG	SW8081B
Heptachlor	ND	8.1	ug/Kg	2	06/12/20	CG	SW8081B
Heptachlor epoxide	ND	8.1	ug/Kg	2	06/12/20	CG	SW8081B
Methoxychlor	ND	40	ug/Kg	2	06/12/20	CG	SW8081B
Toxaphene	ND	160	ug/Kg	2	06/12/20	CG	SW8081B
QA/QC Surrogates							
% DCBP	63		%	2	06/12/20	CG	30 - 150 %
% DCBP (Confirmation)	56		%	2	06/12/20	CG	30 - 150 %
% TCMX	57		%	2	06/12/20	CG	30 - 150 %
% TCMX (Confirmation)	50		%	2	06/12/20	CG	30 - 150 %
Volatiles							
1,1,1,2-Tetrachloroethane	ND	6.3	ug/Kg	1	06/12/20	JLI	SW8260C
1,1,1-Trichloroethane	ND	6.3	ug/Kg	1	06/12/20	JLI	SW8260C
1,1,2,2-Tetrachloroethane	ND	3.8	ug/Kg	1	06/12/20	JLI	SW8260C
1,1,2-Trichloroethane	ND	6.3	ug/Kg	1	06/12/20	JLI	SW8260C

Project ID: TURNEY CREEK OUTFALL
Client ID: SED-1 (0-2`)

Phoenix I.D.: CG10797

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	
1,1-Dichloroethane	ND	6.3	ug/Kg	1	06/12/20	JLI	SW8260C
1,1-Dichloroethene	ND	6.3	ug/Kg	1	06/12/20	JLI	SW8260C
1,1-Dichloropropene	ND	6.3	ug/Kg	1	06/12/20	JLI	SW8260C
1,2,3-Trichlorobenzene	ND	6.3	ug/Kg	1	06/12/20	JLI	SW8260C
1,2,3-Trichloropropane	ND	6.3	ug/Kg	1	06/12/20	JLI	SW8260C
1,2,4-Trichlorobenzene	ND	6.3	ug/Kg	1	06/12/20	JLI	SW8260C
1,2,4-Trimethylbenzene	ND	6.3	ug/Kg	1	06/12/20	JLI	SW8260C
1,2-Dibromo-3-chloropropane	ND	5.0	ug/Kg	1	06/12/20	JLI	SW8260C
1,2-Dibromoethane	ND	6.3	ug/Kg	1	06/12/20	JLI	SW8260C
1,2-Dichlorobenzene	ND	6.3	ug/Kg	1	06/12/20	JLI	SW8260C
1,2-Dichloroethane	ND	6.3	ug/Kg	1	06/12/20	JLI	SW8260C
1,2-Dichloropropane	ND	6.3	ug/Kg	1	06/12/20	JLI	SW8260C
1,3,5-Trimethylbenzene	ND	6.3	ug/Kg	1	06/12/20	JLI	SW8260C
1,3-Dichlorobenzene	ND	6.3	ug/Kg	1	06/12/20	JLI	SW8260C
1,3-Dichloropropane	ND	6.3	ug/Kg	1	06/12/20	JLI	SW8260C
1,4-Dichlorobenzene	ND	6.3	ug/Kg	1	06/12/20	JLI	SW8260C
2,2-Dichloropropane	ND	6.3	ug/Kg	1	06/12/20	JLI	SW8260C
2-Chlorotoluene	ND	6.3	ug/Kg	1	06/12/20	JLI	SW8260C
2-Hexanone	ND	32	ug/Kg	1	06/12/20	JLI	SW8260C
2-Isopropyltoluene	ND	6.3	ug/Kg	1	06/12/20	JLI	SW8260C
4-Chlorotoluene	ND	6.3	ug/Kg	1	06/12/20	JLI	SW8260C
4-Methyl-2-pentanone	ND	32	ug/Kg	1	06/12/20	JLI	SW8260C
Acetone	ND	320	ug/Kg	1	06/12/20	JLI	SW8260C
Acrylonitrile	ND	6.3	ug/Kg	1	06/12/20	JLI	SW8260C
Benzene	ND	6.3	ug/Kg	1	06/12/20	JLI	SW8260C
Bromobenzene	ND	6.3	ug/Kg	1	06/12/20	JLI	SW8260C
Bromochloromethane	ND	6.3	ug/Kg	1	06/12/20	JLI	SW8260C
Bromodichloromethane	ND	6.3	ug/Kg	1	06/12/20	JLI	SW8260C
Bromoform	ND	6.3	ug/Kg	1	06/12/20	JLI	SW8260C
Bromomethane	ND	6.3	ug/Kg	1	06/12/20	JLI	SW8260C
Carbon Disulfide	ND	6.3	ug/Kg	1	06/12/20	JLI	SW8260C
Carbon tetrachloride	ND	6.3	ug/Kg	1	06/12/20	JLI	SW8260C
Chlorobenzene	ND	6.3	ug/Kg	1	06/12/20	JLI	SW8260C
Chloroethane	ND	6.3	ug/Kg	1	06/12/20	JLI	SW8260C
Chloroform	ND	6.3	ug/Kg	1	06/12/20	JLI	SW8260C
Chloromethane	ND	6.3	ug/Kg	1	06/12/20	JLI	SW8260C
cis-1,2-Dichloroethene	ND	6.3	ug/Kg	1	06/12/20	JLI	SW8260C
cis-1,3-Dichloropropene	ND	6.3	ug/Kg	1	06/12/20	JLI	SW8260C
Dibromochloromethane	ND	3.8	ug/Kg	1	06/12/20	JLI	SW8260C
Dibromomethane	ND	6.3	ug/Kg	1	06/12/20	JLI	SW8260C
Dichlorodifluoromethane	ND	6.3	ug/Kg	1	06/12/20	JLI	SW8260C
Ethylbenzene	ND	6.3	ug/Kg	1	06/12/20	JLI	SW8260C
Hexachlorobutadiene	ND	6.3	ug/Kg	1	06/12/20	JLI	SW8260C
Isopropylbenzene	ND	6.3	ug/Kg	1	06/12/20	JLI	SW8260C
m&p-Xylene	ND	6.3	ug/Kg	1	06/12/20	JLI	SW8260C
Methyl Ethyl Ketone	ND	38	ug/Kg	1	06/12/20	JLI	SW8260C
Methyl t-butyl ether (MTBE)	ND	13	ug/Kg	1	06/12/20	JLI	SW8260C
Methylene chloride	ND	13	ug/Kg	1	06/12/20	JLI	SW8260C
Naphthalene	ND	6.3	ug/Kg	1	06/12/20	JLI	SW8260C

Project ID: TURNEY CREEK OUTFALL
Client ID: SED-1 (0-2`)

Phoenix I.D.: CG10797

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	
n-Butylbenzene	ND	6.3	ug/Kg	1	06/12/20	JLI	SW8260C
n-Propylbenzene	ND	6.3	ug/Kg	1	06/12/20	JLI	SW8260C
o-Xylene	ND	6.3	ug/Kg	1	06/12/20	JLI	SW8260C
p-Isopropyltoluene	ND	6.3	ug/Kg	1	06/12/20	JLI	SW8260C
sec-Butylbenzene	ND	6.3	ug/Kg	1	06/12/20	JLI	SW8260C
Styrene	ND	6.3	ug/Kg	1	06/12/20	JLI	SW8260C
tert-Butylbenzene	ND	6.3	ug/Kg	1	06/12/20	JLI	SW8260C
Tetrachloroethene	ND	6.3	ug/Kg	1	06/12/20	JLI	SW8260C
Tetrahydrofuran (THF)	ND	13	ug/Kg	1	06/12/20	JLI	SW8260C
Toluene	ND	6.3	ug/Kg	1	06/12/20	JLI	SW8260C
Total Xylenes	ND	6.3	ug/Kg	1	06/12/20	JLI	SW8260C
trans-1,2-Dichloroethene	ND	6.3	ug/Kg	1	06/12/20	JLI	SW8260C
trans-1,3-Dichloropropene	ND	6.3	ug/Kg	1	06/12/20	JLI	SW8260C
trans-1,4-dichloro-2-butene	ND	13	ug/Kg	1	06/12/20	JLI	SW8260C
Trichloroethene	ND	6.3	ug/Kg	1	06/12/20	JLI	SW8260C
Trichlorofluoromethane	ND	6.3	ug/Kg	1	06/12/20	JLI	SW8260C
Trichlorotrifluoroethane	ND	13	ug/Kg	1	06/12/20	JLI	SW8260C
Vinyl chloride	ND	6.3	ug/Kg	1	06/12/20	JLI	SW8260C
QA/QC Surrogates							
% 1,2-dichlorobenzene-d4	97		%	1	06/12/20	JLI	70 - 130 %
% Bromofluorobenzene	94		%	1	06/12/20	JLI	70 - 130 %
% Dibromofluoromethane	92		%	1	06/12/20	JLI	70 - 130 %
% Toluene-d8	99		%	1	06/12/20	JLI	70 - 130 %
Semivolatiles							
1,2,4,5-Tetrachlorobenzene	ND	100	ug/Kg	1	06/11/20	AW	SW8270D
1,2,4-Trichlorobenzene	ND	290	ug/Kg	1	06/11/20	AW	SW8270D
1,2-Dichlorobenzene	ND	290	ug/Kg	1	06/11/20	AW	SW8270D
1,2-Diphenylhydrazine	ND	200	ug/Kg	1	06/11/20	AW	SW8270D
1,3-Dichlorobenzene	ND	290	ug/Kg	1	06/11/20	AW	SW8270D
1,4-Dichlorobenzene	ND	290	ug/Kg	1	06/11/20	AW	SW8270D
2,4,5-Trichlorophenol	ND	290	ug/Kg	1	06/11/20	AW	SW8270D
2,4,6-Trichlorophenol	ND	200	ug/Kg	1	06/11/20	AW	SW8270D
2,4-Dichlorophenol	ND	290	ug/Kg	1	06/11/20	AW	SW8270D
2,4-Dimethylphenol	ND	290	ug/Kg	1	06/11/20	AW	SW8270D
2,4-Dinitrophenol	ND	300	ug/Kg	1	06/11/20	AW	SW8270D
2,4-Dinitrotoluene	ND	200	ug/Kg	1	06/11/20	AW	SW8270D
2,6-Dinitrotoluene	ND	200	ug/Kg	1	06/11/20	AW	SW8270D
2-Chloronaphthalene	ND	290	ug/Kg	1	06/11/20	AW	SW8270D
2-Chlorophenol	ND	290	ug/Kg	1	06/11/20	AW	SW8270D
2-Methylnaphthalene	ND	290	ug/Kg	1	06/11/20	AW	SW8270D
2-Methylphenol (o-cresol)	ND	290	ug/Kg	1	06/11/20	AW	SW8270D
2-Nitroaniline	ND	300	ug/Kg	1	06/11/20	AW	SW8270D
2-Nitrophenol	ND	290	ug/Kg	1	06/11/20	AW	SW8270D
3&4-Methylphenol (m&p-cresol)	ND	410	ug/Kg	1	06/11/20	AW	SW8270D
3,3'-Dichlorobenzidine	ND	200	ug/Kg	1	06/11/20	AW	SW8270D
3-Nitroaniline	ND	300	ug/Kg	1	06/11/20	AW	SW8270D
4,6-Dinitro-2-methylphenol	ND	300	ug/Kg	1	06/11/20	AW	SW8270D
4-Bromophenyl phenyl ether	ND	410	ug/Kg	1	06/11/20	AW	SW8270D
4-Chloro-3-methylphenol	ND	290	ug/Kg	1	06/11/20	AW	SW8270D

Project ID: TURNEY CREEK OUTFALL
Client ID: SED-1 (0-2`)

Phoenix I.D.: CG10797

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	
4-Chloroaniline	ND	200	ug/Kg	1	06/11/20	AW	SW8270D
4-Chlorophenyl phenyl ether	ND	290	ug/Kg	1	06/11/20	AW	SW8270D
4-Nitroaniline	ND	300	ug/Kg	1	06/11/20	AW	SW8270D
4-Nitrophenol	ND	290	ug/Kg	1	06/11/20	AW	SW8270D
Acenaphthene	ND	290	ug/Kg	1	06/11/20	AW	SW8270D
Acenaphthylene	540	290	ug/Kg	1	06/11/20	AW	SW8270D
Acetophenone	ND	290	ug/Kg	1	06/11/20	AW	SW8270D
Aniline	ND	200	ug/Kg	1	06/11/20	AW	SW8270D
Anthracene	450	290	ug/Kg	1	06/11/20	AW	SW8270D
Benz(a)anthracene	1400	290	ug/Kg	1	06/11/20	AW	SW8270D
Benzidine	ND	200	ug/Kg	1	06/11/20	AW	SW8270D
Benzo(a)pyrene	1300	290	ug/Kg	1	06/11/20	AW	SW8270D
Benzo(b)fluoranthene	1100	290	ug/Kg	1	06/11/20	AW	SW8270D
Benzo(ghi)perylene	790	290	ug/Kg	1	06/11/20	AW	SW8270D
Benzo(k)fluoranthene	1100	290	ug/Kg	1	06/11/20	AW	SW8270D
Benzoic acid	ND	830	ug/Kg	1	06/11/20	AW	SW8270D
Benzyl butyl phthalate	ND	290	ug/Kg	1	06/11/20	AW	SW8270D
Bis(2-chloroethoxy)methane	ND	290	ug/Kg	1	06/11/20	AW	SW8270D
Bis(2-chloroethyl)ether	ND	410	ug/Kg	1	06/11/20	AW	SW8270D
Bis(2-chloroisopropyl)ether	ND	290	ug/Kg	1	06/11/20	AW	SW8270D
Bis(2-ethylhexyl)phthalate	ND	290	ug/Kg	1	06/11/20	AW	SW8270D
Carbazole	ND	200	ug/Kg	1	06/11/20	AW	SW8270D
Chrysene	1600	290	ug/Kg	1	06/11/20	AW	SW8270D
Dibenz(a,h)anthracene	ND	290	ug/Kg	1	06/11/20	AW	SW8270D
Dibenzofuran	ND	200	ug/Kg	1	06/11/20	AW	SW8270D
Diethyl phthalate	ND	290	ug/Kg	1	06/11/20	AW	SW8270D
Dimethylphthalate	ND	290	ug/Kg	1	06/11/20	AW	SW8270D
Di-n-butylphthalate	ND	410	ug/Kg	1	06/11/20	AW	SW8270D
Di-n-octylphthalate	ND	290	ug/Kg	1	06/11/20	AW	SW8270D
Fluoranthene	3400	290	ug/Kg	1	06/11/20	AW	SW8270D
Fluorene	ND	290	ug/Kg	1	06/11/20	AW	SW8270D
Hexachlorobenzene	ND	290	ug/Kg	1	06/11/20	AW	SW8270D
Hexachlorobutadiene	ND	200	ug/Kg	1	06/11/20	AW	SW8270D
Hexachlorocyclopentadiene	ND	290	ug/Kg	1	06/11/20	AW	SW8270D
Hexachloroethane	ND	290	ug/Kg	1	06/11/20	AW	SW8270D
Indeno(1,2,3-cd)pyrene	770	290	ug/Kg	1	06/11/20	AW	SW8270D
Isophorone	ND	290	ug/Kg	1	06/11/20	AW	SW8270D
Naphthalene	ND	290	ug/Kg	1	06/11/20	AW	SW8270D
Nitrobenzene	ND	200	ug/Kg	1	06/11/20	AW	SW8270D
N-Nitrosodimethylamine	ND	200	ug/Kg	1	06/11/20	AW	SW8270D
N-Nitrosodi-n-propylamine	ND	200	ug/Kg	1	06/11/20	AW	SW8270D
N-Nitrosodiphenylamine	ND	200	ug/Kg	1	06/11/20	AW	SW8270D
Pentachloronitrobenzene	ND	140	ug/Kg	1	06/11/20	AW	SW8270D
Pentachlorophenol	ND	410	ug/Kg	1	06/11/20	AW	SW8270D
Phenanthrene	2400	290	ug/Kg	1	06/11/20	AW	SW8270D
Phenol	ND	290	ug/Kg	1	06/11/20	AW	SW8270D
Pyrene	3500	290	ug/Kg	1	06/11/20	AW	SW8270D
Pyridine	ND	200	ug/Kg	1	06/11/20	AW	SW8270D

QA/QC Surrogates

Project ID: TURNEY CREEK OUTFALL
Client ID: SED-1 (0-2`)

Phoenix I.D.: CG10797

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	
% 2,4,6-Tribromophenol	102		%	1	06/11/20	AW	30 - 130 %
% 2-Fluorobiphenyl	68		%	1	06/11/20	AW	30 - 130 %
% 2-Fluorophenol	60		%	1	06/11/20	AW	30 - 130 %
% Nitrobenzene-d5	68		%	1	06/11/20	AW	30 - 130 %
% Phenol-d5	65		%	1	06/11/20	AW	30 - 130 %
% Terphenyl-d14	94		%	1	06/11/20	AW	30 - 130 %
Field Extraction	Completed				06/10/20		SW5035A

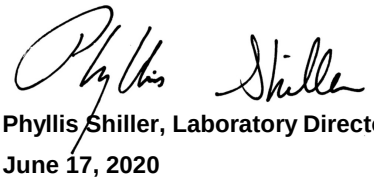
RL/PQL=Reporting/Practical Quantitation Level ND=Not Detected BRL=Below Reporting Level
QA/QC Surrogates: Surrogates are compounds (preceeded with a %) added by the lab to determine analysis efficiency. Surrogate results(%) listed in the report are not "detected" compounds.

Comments:

Per 1.4.6 of EPA method 8270D, 1,2-Diphenylhydrazine is unstable and readily converts to Azobenzene. Azobenzene is used for the calibration of 1,2-Diphenylhydrazine.

All soils, solids and sludges are reported on a dry weight basis unless otherwise noted in the sample comments.

If you are the client above and have any questions concerning this testing, please do not hesitate to contact Phoenix Client Services at ext.200.
The contents of this report cannot be discussed with anyone other than the client listed above without their written consent.



Phyllis Shiller, Laboratory Director
June 17, 2020
Reviewed and Released by: Phyllis Shiller, Laboratory Director

Reference PHOENIX
Environmental Laboratories, Inc.
587 East Middle Turnpike, P.O.Box 370, Manchester, CT 06045
Tel. (860) 645-1102 Fax (860) 645-0823

Analysis Report

June 17, 2020

FOR: Attn: Mr. Brian Sirowich
Tighe & Bond
213 Court St, Suite 1100
Middletown, CT 06457

Sample Information		Custody Information		Date	Time
Matrix:	SEDIMENT	Collected by:		06/10/20	10:15
Location Code:	TIGHE-DAS	Received by:	LB	06/10/20	16:00
Rush Request:	Standard	Analyzed by:	see "By" below		
P.O.#:					

Laboratory Data

SDG ID: GCG10797
Phoenix ID: CG10800

Project ID: TURNEY CREEK OUTFALL
Client ID: SED-2 (2-4`)

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Silver	2.86	0.42	mg/Kg	1	06/11/20	TH	SW6010D
Arsenic	< 0.84	0.84	mg/Kg	1	06/11/20	TH	SW6010D
Barium	18.7	0.42	mg/Kg	1	06/11/20	TH	SW6010D
Beryllium	< 0.34	0.34	mg/Kg	1	06/11/20	TH	SW6010D
Cadmium	2.33	0.42	mg/Kg	1	06/11/20	TH	SW6010D
Chromium	9.52	0.42	mg/Kg	1	06/11/20	TH	SW6010D
Copper	71.3	0.8	mg/kg	1	06/11/20	TH	SW6010D
Mercury	0.20	0.03	mg/Kg	2	06/15/20	RS	SW7471B
Nickel	8.09	0.42	mg/Kg	1	06/11/20	TH	SW6010D
Lead	18.8	0.42	mg/Kg	1	06/11/20	TH	SW6010D
Antimony	< 4.2	4.2	mg/Kg	1	06/11/20	TH	SW6010D
Selenium	< 1.7	1.7	mg/Kg	1	06/11/20	TH	SW6010D
Thallium	< 3.8	3.8	mg/Kg	1	06/11/20	TH	SW6010D
Vanadium	15.3	0.42	mg/Kg	1	06/11/20	TH	SW6010D
Zinc	32.5	0.8	mg/Kg	1	06/11/20	TH	SW6010D
Percent Solid	76		%		06/10/20	HB	SW846-%Solid
Soil Extraction for Pesticide	Completed				06/11/20	LL/AA	SW3545A
Mercury Digestion	Completed				06/15/20	VT/KL/VT	SW7471B
Extraction of CT ETPH	Completed				06/10/20	LG/EE	SW3546
Soil Extraction for SVOA	Completed				06/10/20	KK/MA	SW3546
Extraction for PCB	Completed				06/10/20	HH/KL/HB	SW3540C
Total Metals Digest	Completed				06/10/20	B/AG/BF	SW3050B
TPH by GC (Extractable Products)							
Ext. Petroleum H.C. (C9-C36)	ND	65	mg/Kg	1	06/11/20	JRB	CTETPH 8015D
Identification	ND		mg/Kg	1	06/11/20	JRB	CTETPH 8015D
QA/QC Surrogates							
% n-Pentacosane	71		%	1	06/11/20	JRB	50 - 150 %

Ver 1

Project ID: TURNEY CREEK OUTFALL
Client ID: SED-2 (2-4`)

Phoenix I.D.: CG10800

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	
PCB (Soxhlet SW3540C)							
PCB-1016	ND	440	ug/Kg	10	06/11/20	AW	SW8082A
PCB-1221	ND	440	ug/Kg	10	06/11/20	AW	SW8082A
PCB-1232	ND	440	ug/Kg	10	06/11/20	AW	SW8082A
PCB-1242	ND	440	ug/Kg	10	06/11/20	AW	SW8082A
PCB-1248	ND	440	ug/Kg	10	06/11/20	AW	SW8082A
PCB-1254	ND	440	ug/Kg	10	06/11/20	AW	SW8082A
PCB-1260	ND	440	ug/Kg	10	06/11/20	AW	SW8082A
PCB-1262	ND	440	ug/Kg	10	06/11/20	AW	SW8082A
PCB-1268	ND	440	ug/Kg	10	06/11/20	AW	SW8082A
QA/QC Surrogates							
% DCBP	100		%	10	06/11/20	AW	30 - 150 %
% DCBP (Confirmation)	93		%	10	06/11/20	AW	30 - 150 %
% TCMX	87		%	10	06/11/20	AW	30 - 150 %
% TCMX (Confirmation)	87		%	10	06/11/20	AW	30 - 150 %
Pesticides							
4,4' -DDD	ND	1.7	ug/Kg	2	06/12/20	CG	SW8081B
4,4' -DDE	ND	1.7	ug/Kg	2	06/12/20	CG	SW8081B
4,4' -DDT	ND	1.7	ug/Kg	2	06/12/20	CG	SW8081B
a-BHC	ND	1.7	ug/Kg	2	06/12/20	CG	SW8081B
Alachlor	ND	8.6	ug/Kg	2	06/12/20	CG	SW8081B
Aldrin	ND	1.7	ug/Kg	2	06/12/20	CG	SW8081B
b-BHC	ND	1.7	ug/Kg	2	06/12/20	CG	SW8081B
Chlordane	ND	43	ug/Kg	2	06/12/20	CG	SW8081B
d-BHC	ND	1.7	ug/Kg	2	06/12/20	CG	SW8081B
Dieldrin	ND	4.3	ug/Kg	2	06/12/20	CG	SW8081B
Endosulfan I	ND	8.6	ug/Kg	2	06/12/20	CG	SW8081B
Endosulfan II	ND	8.6	ug/Kg	2	06/12/20	CG	SW8081B
Endosulfan sulfate	ND	8.6	ug/Kg	2	06/12/20	CG	SW8081B
Endrin	ND	8.6	ug/Kg	2	06/12/20	CG	SW8081B
Endrin aldehyde	ND	8.6	ug/Kg	2	06/12/20	CG	SW8081B
Endrin ketone	ND	8.6	ug/Kg	2	06/12/20	CG	SW8081B
g-BHC	ND	1.7	ug/Kg	2	06/12/20	CG	SW8081B
Heptachlor	ND	8.6	ug/Kg	2	06/12/20	CG	SW8081B
Heptachlor epoxide	ND	8.6	ug/Kg	2	06/12/20	CG	SW8081B
Methoxychlor	ND	43	ug/Kg	2	06/12/20	CG	SW8081B
Toxaphene	ND	170	ug/Kg	2	06/12/20	CG	SW8081B
QA/QC Surrogates							
% DCBP	40		%	2	06/12/20	CG	30 - 150 %
% DCBP (Confirmation)	37		%	2	06/12/20	CG	30 - 150 %
% TCMX	34		%	2	06/12/20	CG	30 - 150 %
% TCMX (Confirmation)	31		%	2	06/12/20	CG	30 - 150 %
Volatiles							
1,1,1,2-Tetrachloroethane	ND	10	ug/Kg	1	06/11/20	JLI	SW8260C
1,1,1-Trichloroethane	ND	10	ug/Kg	1	06/11/20	JLI	SW8260C
1,1,2,2-Tetrachloroethane	ND	6.1	ug/Kg	1	06/11/20	JLI	SW8260C
1,1,2-Trichloroethane	ND	10	ug/Kg	1	06/11/20	JLI	SW8260C

Project ID: TURNEY CREEK OUTFALL
Client ID: SED-2 (2-4`)

Phoenix I.D.: CG10800

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	
1,1-Dichloroethane	ND	10	ug/Kg	1	06/11/20	JLI	SW8260C
1,1-Dichloroethene	ND	10	ug/Kg	1	06/11/20	JLI	SW8260C
1,1-Dichloropropene	ND	10	ug/Kg	1	06/11/20	JLI	SW8260C
1,2,3-Trichlorobenzene	ND	10	ug/Kg	1	06/11/20	JLI	SW8260C
1,2,3-Trichloropropane	ND	10	ug/Kg	1	06/11/20	JLI	SW8260C
1,2,4-Trichlorobenzene	ND	10	ug/Kg	1	06/11/20	JLI	SW8260C
1,2,4-Trimethylbenzene	ND	10	ug/Kg	1	06/11/20	JLI	SW8260C
1,2-Dibromo-3-chloropropane	ND	5.0	ug/Kg	1	06/11/20	JLI	SW8260C
1,2-Dibromoethane	ND	7.0	ug/Kg	1	06/11/20	JLI	SW8260C
1,2-Dichlorobenzene	ND	10	ug/Kg	1	06/11/20	JLI	SW8260C
1,2-Dichloroethane	ND	10	ug/Kg	1	06/11/20	JLI	SW8260C
1,2-Dichloropropane	ND	10	ug/Kg	1	06/11/20	JLI	SW8260C
1,3,5-Trimethylbenzene	ND	10	ug/Kg	1	06/11/20	JLI	SW8260C
1,3-Dichlorobenzene	ND	10	ug/Kg	1	06/11/20	JLI	SW8260C
1,3-Dichloropropane	ND	10	ug/Kg	1	06/11/20	JLI	SW8260C
1,4-Dichlorobenzene	ND	10	ug/Kg	1	06/11/20	JLI	SW8260C
2,2-Dichloropropane	ND	10	ug/Kg	1	06/11/20	JLI	SW8260C
2-Chlorotoluene	ND	10	ug/Kg	1	06/11/20	JLI	SW8260C
2-Hexanone	ND	51	ug/Kg	1	06/11/20	JLI	SW8260C
2-Isopropyltoluene	ND	10	ug/Kg	1	06/11/20	JLI	SW8260C
4-Chlorotoluene	ND	10	ug/Kg	1	06/11/20	JLI	SW8260C
4-Methyl-2-pentanone	ND	51	ug/Kg	1	06/11/20	JLI	SW8260C
Acetone	ND	510	ug/Kg	1	06/11/20	JLI	SW8260C
Acrylonitrile	ND	10	ug/Kg	1	06/11/20	JLI	SW8260C
Benzene	ND	10	ug/Kg	1	06/11/20	JLI	SW8260C
Bromobenzene	ND	10	ug/Kg	1	06/11/20	JLI	SW8260C
Bromochloromethane	ND	10	ug/Kg	1	06/11/20	JLI	SW8260C
Bromodichloromethane	ND	10	ug/Kg	1	06/11/20	JLI	SW8260C
Bromoform	ND	10	ug/Kg	1	06/11/20	JLI	SW8260C
Bromomethane	ND	10	ug/Kg	1	06/11/20	JLI	SW8260C
Carbon Disulfide	ND	10	ug/Kg	1	06/11/20	JLI	SW8260C
Carbon tetrachloride	ND	10	ug/Kg	1	06/11/20	JLI	SW8260C
Chlorobenzene	ND	10	ug/Kg	1	06/11/20	JLI	SW8260C
Chloroethane	ND	10	ug/Kg	1	06/11/20	JLI	SW8260C
Chloroform	ND	10	ug/Kg	1	06/11/20	JLI	SW8260C
Chloromethane	ND	10	ug/Kg	1	06/11/20	JLI	SW8260C
cis-1,2-Dichloroethene	ND	10	ug/Kg	1	06/11/20	JLI	SW8260C
cis-1,3-Dichloropropene	ND	10	ug/Kg	1	06/11/20	JLI	SW8260C
Dibromochloromethane	ND	6.1	ug/Kg	1	06/11/20	JLI	SW8260C
Dibromomethane	ND	10	ug/Kg	1	06/11/20	JLI	SW8260C
Dichlorodifluoromethane	ND	10	ug/Kg	1	06/11/20	JLI	SW8260C
Ethylbenzene	ND	10	ug/Kg	1	06/11/20	JLI	SW8260C
Hexachlorobutadiene	ND	10	ug/Kg	1	06/11/20	JLI	SW8260C
Isopropylbenzene	ND	10	ug/Kg	1	06/11/20	JLI	SW8260C
m&p-Xylene	ND	10	ug/Kg	1	06/11/20	JLI	SW8260C
Methyl Ethyl Ketone	ND	61	ug/Kg	1	06/11/20	JLI	SW8260C
Methyl t-butyl ether (MTBE)	ND	20	ug/Kg	1	06/11/20	JLI	SW8260C
Methylene chloride	ND	20	ug/Kg	1	06/11/20	JLI	SW8260C
Naphthalene	ND	10	ug/Kg	1	06/11/20	JLI	SW8260C

Project ID: TURNEY CREEK OUTFALL
Client ID: SED-2 (2-4`)

Phoenix I.D.: CG10800

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	
n-Butylbenzene	ND	10	ug/Kg	1	06/11/20	JLI	SW8260C
n-Propylbenzene	ND	10	ug/Kg	1	06/11/20	JLI	SW8260C
o-Xylene	ND	10	ug/Kg	1	06/11/20	JLI	SW8260C
p-Isopropyltoluene	ND	10	ug/Kg	1	06/11/20	JLI	SW8260C
sec-Butylbenzene	ND	10	ug/Kg	1	06/11/20	JLI	SW8260C
Styrene	ND	10	ug/Kg	1	06/11/20	JLI	SW8260C
tert-Butylbenzene	ND	10	ug/Kg	1	06/11/20	JLI	SW8260C
Tetrachloroethene	ND	10	ug/Kg	1	06/11/20	JLI	SW8260C
Tetrahydrofuran (THF)	ND	20	ug/Kg	1	06/11/20	JLI	SW8260C
Toluene	ND	10	ug/Kg	1	06/11/20	JLI	SW8260C
Total Xylenes	ND	10	ug/Kg	1	06/11/20	JLI	SW8260C
trans-1,2-Dichloroethene	ND	10	ug/Kg	1	06/11/20	JLI	SW8260C
trans-1,3-Dichloropropene	ND	10	ug/Kg	1	06/11/20	JLI	SW8260C
trans-1,4-dichloro-2-butene	ND	20	ug/Kg	1	06/11/20	JLI	SW8260C
Trichloroethene	ND	10	ug/Kg	1	06/11/20	JLI	SW8260C
Trichlorofluoromethane	ND	10	ug/Kg	1	06/11/20	JLI	SW8260C
Trichlorotrifluoroethane	ND	20	ug/Kg	1	06/11/20	JLI	SW8260C
Vinyl chloride	ND	10	ug/Kg	1	06/11/20	JLI	SW8260C
QA/QC Surrogates							
% 1,2-dichlorobenzene-d4	100		%	1	06/11/20	JLI	70 - 130 %
% Bromofluorobenzene	94		%	1	06/11/20	JLI	70 - 130 %
% Dibromofluoromethane	100		%	1	06/11/20	JLI	70 - 130 %
% Toluene-d8	98		%	1	06/11/20	JLI	70 - 130 %
Semivolatiles							
1,2,4,5-Tetrachlorobenzene	ND	100	ug/Kg	1	06/11/20	AW	SW8270D
1,2,4-Trichlorobenzene	ND	300	ug/Kg	1	06/11/20	AW	SW8270D
1,2-Dichlorobenzene	ND	300	ug/Kg	1	06/11/20	AW	SW8270D
1,2-Diphenylhydrazine	ND	200	ug/Kg	1	06/11/20	AW	SW8270D
1,3-Dichlorobenzene	ND	300	ug/Kg	1	06/11/20	AW	SW8270D
1,4-Dichlorobenzene	ND	300	ug/Kg	1	06/11/20	AW	SW8270D
2,4,5-Trichlorophenol	ND	300	ug/Kg	1	06/11/20	AW	SW8270D
2,4,6-Trichlorophenol	ND	200	ug/Kg	1	06/11/20	AW	SW8270D
2,4-Dichlorophenol	ND	300	ug/Kg	1	06/11/20	AW	SW8270D
2,4-Dimethylphenol	ND	300	ug/Kg	1	06/11/20	AW	SW8270D
2,4-Dinitrophenol	ND	300	ug/Kg	1	06/11/20	AW	SW8270D
2,4-Dinitrotoluene	ND	200	ug/Kg	1	06/11/20	AW	SW8270D
2,6-Dinitrotoluene	ND	200	ug/Kg	1	06/11/20	AW	SW8270D
2-Chloronaphthalene	ND	300	ug/Kg	1	06/11/20	AW	SW8270D
2-Chlorophenol	ND	300	ug/Kg	1	06/11/20	AW	SW8270D
2-Methylnaphthalene	ND	300	ug/Kg	1	06/11/20	AW	SW8270D
2-Methylphenol (o-cresol)	ND	300	ug/Kg	1	06/11/20	AW	SW8270D
2-Nitroaniline	ND	300	ug/Kg	1	06/11/20	AW	SW8270D
2-Nitrophenol	ND	300	ug/Kg	1	06/11/20	AW	SW8270D
3&4-Methylphenol (m&p-cresol)	ND	430	ug/Kg	1	06/11/20	AW	SW8270D
3,3'-Dichlorobenzidine	ND	200	ug/Kg	1	06/11/20	AW	SW8270D
3-Nitroaniline	ND	300	ug/Kg	1	06/11/20	AW	SW8270D
4,6-Dinitro-2-methylphenol	ND	300	ug/Kg	1	06/11/20	AW	SW8270D
4-Bromophenyl phenyl ether	ND	430	ug/Kg	1	06/11/20	AW	SW8270D
4-Chloro-3-methylphenol	ND	300	ug/Kg	1	06/11/20	AW	SW8270D

Project ID: TURNEY CREEK OUTFALL
Client ID: SED-2 (2-4`)

Phoenix I.D.: CG10800

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	
4-Chloroaniline	ND	200	ug/Kg	1	06/11/20	AW	SW8270D
4-Chlorophenyl phenyl ether	ND	300	ug/Kg	1	06/11/20	AW	SW8270D
4-Nitroaniline	ND	300	ug/Kg	1	06/11/20	AW	SW8270D
4-Nitrophenol	ND	300	ug/Kg	1	06/11/20	AW	SW8270D
Acenaphthene	ND	300	ug/Kg	1	06/11/20	AW	SW8270D
Acenaphthylene	ND	300	ug/Kg	1	06/11/20	AW	SW8270D
Acetophenone	ND	300	ug/Kg	1	06/11/20	AW	SW8270D
Aniline	ND	200	ug/Kg	1	06/11/20	AW	SW8270D
Anthracene	ND	300	ug/Kg	1	06/11/20	AW	SW8270D
Benz(a)anthracene	ND	300	ug/Kg	1	06/11/20	AW	SW8270D
Benzidine	ND	200	ug/Kg	1	06/11/20	AW	SW8270D
Benzo(a)pyrene	340	300	ug/Kg	1	06/11/20	AW	SW8270D
Benzo(b)fluoranthene	310	300	ug/Kg	1	06/11/20	AW	SW8270D
Benzo(ghi)perylene	ND	300	ug/Kg	1	06/11/20	AW	SW8270D
Benzo(k)fluoranthene	ND	300	ug/Kg	1	06/11/20	AW	SW8270D
Benzoic acid	ND	860	ug/Kg	1	06/11/20	AW	SW8270D
Benzyl butyl phthalate	ND	300	ug/Kg	1	06/11/20	AW	SW8270D
Bis(2-chloroethoxy)methane	ND	300	ug/Kg	1	06/11/20	AW	SW8270D
Bis(2-chloroethyl)ether	ND	430	ug/Kg	1	06/11/20	AW	SW8270D
Bis(2-chloroisopropyl)ether	ND	300	ug/Kg	1	06/11/20	AW	SW8270D
Bis(2-ethylhexyl)phthalate	ND	300	ug/Kg	1	06/11/20	AW	SW8270D
Carbazole	ND	200	ug/Kg	1	06/11/20	AW	SW8270D
Chrysene	ND	300	ug/Kg	1	06/11/20	AW	SW8270D
Dibenz(a,h)anthracene	ND	300	ug/Kg	1	06/11/20	AW	SW8270D
Dibenzofuran	ND	200	ug/Kg	1	06/11/20	AW	SW8270D
Diethyl phthalate	ND	300	ug/Kg	1	06/11/20	AW	SW8270D
Dimethylphthalate	ND	300	ug/Kg	1	06/11/20	AW	SW8270D
Di-n-butylphthalate	ND	430	ug/Kg	1	06/11/20	AW	SW8270D
Di-n-octylphthalate	ND	300	ug/Kg	1	06/11/20	AW	SW8270D
Fluoranthene	440	300	ug/Kg	1	06/11/20	AW	SW8270D
Fluorene	ND	300	ug/Kg	1	06/11/20	AW	SW8270D
Hexachlorobenzene	ND	300	ug/Kg	1	06/11/20	AW	SW8270D
Hexachlorobutadiene	ND	200	ug/Kg	1	06/11/20	AW	SW8270D
Hexachlorocyclopentadiene	ND	300	ug/Kg	1	06/11/20	AW	SW8270D
Hexachloroethane	ND	300	ug/Kg	1	06/11/20	AW	SW8270D
Indeno(1,2,3-cd)pyrene	ND	300	ug/Kg	1	06/11/20	AW	SW8270D
Isophorone	ND	300	ug/Kg	1	06/11/20	AW	SW8270D
Naphthalene	ND	300	ug/Kg	1	06/11/20	AW	SW8270D
Nitrobenzene	ND	200	ug/Kg	1	06/11/20	AW	SW8270D
N-Nitrosodimethylamine	ND	200	ug/Kg	1	06/11/20	AW	SW8270D
N-Nitrosodi-n-propylamine	ND	200	ug/Kg	1	06/11/20	AW	SW8270D
N-Nitrosodiphenylamine	ND	200	ug/Kg	1	06/11/20	AW	SW8270D
Pentachloronitrobenzene	ND	140	ug/Kg	1	06/11/20	AW	SW8270D
Pentachlorophenol	ND	430	ug/Kg	1	06/11/20	AW	SW8270D
Phenanthrene	ND	300	ug/Kg	1	06/11/20	AW	SW8270D
Phenol	ND	300	ug/Kg	1	06/11/20	AW	SW8270D
Pyrene	790	300	ug/Kg	1	06/11/20	AW	SW8270D
Pyridine	ND	200	ug/Kg	1	06/11/20	AW	SW8270D

QA/QC Surrogates

Project ID: TURNEY CREEK OUTFALL
Client ID: SED-2 (2-4`)

Phoenix I.D.: CG10800

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	
% 2,4,6-Tribromophenol	93		%	1	06/11/20	AW	30 - 130 %
% 2-Fluorobiphenyl	63		%	1	06/11/20	AW	30 - 130 %
% 2-Fluorophenol	57		%	1	06/11/20	AW	30 - 130 %
% Nitrobenzene-d5	61		%	1	06/11/20	AW	30 - 130 %
% Phenol-d5	60		%	1	06/11/20	AW	30 - 130 %
% Terphenyl-d14	84		%	1	06/11/20	AW	30 - 130 %
Field Extraction	Completed				06/10/20		SW5035A

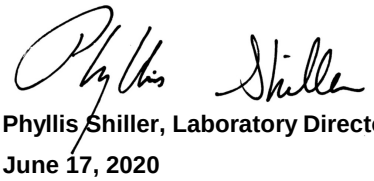
RL/PQL=Reporting/Practical Quantitation Level ND=Not Detected BRL=Below Reporting Level
QA/QC Surrogates: Surrogates are compounds (preceeded with a %) added by the lab to determine analysis efficiency. Surrogate results(%) listed in the report are not "detected" compounds.

Comments:

Per 1.4.6 of EPA method 8270D, 1,2-Diphenylhydrazine is unstable and readily converts to Azobenzene. Azobenzene is used for the calibration of 1,2-Diphenylhydrazine.

All soils, solids and sludges are reported on a dry weight basis unless otherwise noted in the sample comments.

If you are the client above and have any questions concerning this testing, please do not hesitate to contact Phoenix Client Services at ext.200.
The contents of this report cannot be discussed with anyone other than the client listed above without their written consent.



Phyllis Shiller, Laboratory Director
June 17, 2020
Reviewed and Released by: Phyllis Shiller, Laboratory Director

Reference PHOENIX
Environmental Laboratories, Inc.
587 East Middle Turnpike, P.O.Box 370, Manchester, CT 06045
Tel. (860) 645-1102 Fax (860) 645-0823

Analysis Report

June 17, 2020

FOR: Attn: Mr. Brian Sirowich
Tighe & Bond
213 Court St, Suite 1100
Middletown, CT 06457

Sample Information		Custody Information		Date	Time
Matrix:	SEDIMENT	Collected by:		06/10/20	11:00
Location Code:	TIGHE-DAS	Received by:	LB	06/10/20	16:00
Rush Request:	Standard	Analyzed by:	see "By" below		
P.O.#:					

Laboratory Data

SDG ID: GCG10797
Phoenix ID: CG10802

Project ID: TURNEY CREEK OUTFALL
Client ID: SED-4 (0-2`)

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Silver	1.25	0.47	mg/Kg	1	06/11/20	TH	SW6010D
Arsenic	1.52	0.94	mg/Kg	1	06/11/20	TH	SW6010D
Barium	26.1	0.47	mg/Kg	1	06/11/20	TH	SW6010D
Beryllium	< 0.38	0.38	mg/Kg	1	06/11/20	TH	SW6010D
Cadmium	1.21	0.47	mg/Kg	1	06/11/20	TH	SW6010D
Chromium	16.0	0.47	mg/Kg	1	06/11/20	TH	SW6010D
Copper	67.9	0.9	mg/kg	1	06/11/20	TH	SW6010D
Mercury	0.12	0.03	mg/Kg	2	06/15/20	RS	SW7471B
Nickel	10.6	0.47	mg/Kg	1	06/11/20	TH	SW6010D
Lead	22.0	0.47	mg/Kg	1	06/11/20	TH	SW6010D
Antimony	< 4.7	4.7	mg/Kg	1	06/11/20	TH	SW6010D
Selenium	< 1.9	1.9	mg/Kg	1	06/11/20	TH	SW6010D
Thallium	< 4.2	4.2	mg/Kg	1	06/11/20	TH	SW6010D
Vanadium	18.6	0.47	mg/Kg	1	06/11/20	TH	SW6010D
Zinc	51.9	0.9	mg/Kg	1	06/11/20	TH	SW6010D
Percent Solid	73		%		06/10/20	HB	SW846-%Solid
Soil Extraction for Pesticide	Completed				06/11/20	LL/AA	SW3545A
Soil Extraction for SVOA	Completed				06/10/20	RK/MA	SW3546
Mercury Digestion	Completed				06/15/20	VT/KL/VT	SW7471B
Extraction of CT ETPH	Completed				06/10/20	LG/EE	SW3546
Extraction for PCB	Completed				06/10/20	HH/KL/HB	SW3540C
Total Metals Digest	Completed				06/10/20	B/AG/BF	SW3050B
TPH by GC (Extractable Products)							
Ext. Petroleum H.C. (C9-C36)	520	68	mg/Kg	1	06/12/20	JRB	CTETPH 8015D
Identification	**		mg/Kg	1	06/12/20	JRB	CTETPH 8015D
QA/QC Surrogates							
% n-Pentacosane	78		%	1	06/12/20	JRB	50 - 150 %

Ver 1

Project ID: TURNEY CREEK OUTFALL
Client ID: SED-4 (0-2`)

Phoenix I.D.: CG10802

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By		
PCB (Soxhlet SW3540C)								
PCB-1016	ND	450	ug/Kg	10	06/11/20	AW	SW8082A	
PCB-1221	ND	450	ug/Kg	10	06/11/20	AW	SW8082A	
PCB-1232	ND	450	ug/Kg	10	06/11/20	AW	SW8082A	
PCB-1242	ND	450	ug/Kg	10	06/11/20	AW	SW8082A	
PCB-1248	ND	450	ug/Kg	10	06/11/20	AW	SW8082A	
PCB-1254	ND	450	ug/Kg	10	06/11/20	AW	SW8082A	
PCB-1260	ND	450	ug/Kg	10	06/11/20	AW	SW8082A	
PCB-1262	ND	450	ug/Kg	10	06/11/20	AW	SW8082A	
PCB-1268	ND	450	ug/Kg	10	06/11/20	AW	SW8082A	
QA/QC Surrogates								
% DCBP	117		%	10	06/11/20	AW	30 - 150 %	
% DCBP (Confirmation)	118		%	10	06/11/20	AW	30 - 150 %	
% TCMX	117		%	10	06/11/20	AW	30 - 150 %	
% TCMX (Confirmation)	109		%	10	06/11/20	AW	30 - 150 %	
Pesticides								
4,4' -DDD	ND	1.8	ug/Kg	2	06/12/20	CG	SW8081B	
4,4' -DDE	ND	1.8	ug/Kg	2	06/12/20	CG	SW8081B	
4,4' -DDT	ND	1.8	ug/Kg	2	06/12/20	CG	SW8081B	
a-BHC	ND	1.8	ug/Kg	2	06/12/20	CG	SW8081B	
Alachlor	ND	8.9	ug/Kg	2	06/12/20	CG	SW8081B	
Aldrin	ND	1.8	ug/Kg	2	06/12/20	CG	SW8081B	
b-BHC	ND	1.8	ug/Kg	2	06/12/20	CG	SW8081B	
Chlordane	ND	44	ug/Kg	2	06/12/20	CG	SW8081B	
d-BHC	ND	1.8	ug/Kg	2	06/12/20	CG	SW8081B	
Dieldrin	ND	4.4	ug/Kg	2	06/12/20	CG	SW8081B	
Endosulfan I	ND	8.9	ug/Kg	2	06/12/20	CG	SW8081B	
Endosulfan II	ND	8.9	ug/Kg	2	06/12/20	CG	SW8081B	
Endosulfan sulfate	ND	8.9	ug/Kg	2	06/12/20	CG	SW8081B	
Endrin	ND	8.9	ug/Kg	2	06/12/20	CG	SW8081B	
Endrin aldehyde	ND	8.9	ug/Kg	2	06/12/20	CG	SW8081B	
Endrin ketone	ND	8.9	ug/Kg	2	06/12/20	CG	SW8081B	
g-BHC	ND	1.8	ug/Kg	2	06/12/20	CG	SW8081B	
Heptachlor	ND	8.9	ug/Kg	2	06/12/20	CG	SW8081B	
Heptachlor epoxide	ND	8.9	ug/Kg	2	06/12/20	CG	SW8081B	
Methoxychlor	ND	44	ug/Kg	2	06/12/20	CG	SW8081B	
Toxaphene	ND	180	ug/Kg	2	06/12/20	CG	SW8081B	
QA/QC Surrogates								
% DCBP	34		%	2	06/12/20	CG	30 - 150 %	
% DCBP (Confirmation)	33		%	2	06/12/20	CG	30 - 150 %	
% TCMX	30		%	2	06/12/20	CG	30 - 150 %	
% TCMX (Confirmation)	28		%	2	06/12/20	CG	30 - 150 %	3
Volatiles								
1,1,1,2-Tetrachloroethane	ND	8.8	ug/Kg	1	06/12/20	JLI	SW8260C	
1,1,1-Trichloroethane	ND	8.8	ug/Kg	1	06/12/20	JLI	SW8260C	
1,1,2,2-Tetrachloroethane	ND	5.3	ug/Kg	1	06/12/20	JLI	SW8260C	
1,1,2-Trichloroethane	ND	8.8	ug/Kg	1	06/12/20	JLI	SW8260C	

Project ID: TURNEY CREEK OUTFALL
Client ID: SED-4 (0-2`)

Phoenix I.D.: CG10802

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	
1,1-Dichloroethane	ND	8.8	ug/Kg	1	06/12/20	JLI	SW8260C
1,1-Dichloroethene	ND	8.8	ug/Kg	1	06/12/20	JLI	SW8260C
1,1-Dichloropropene	ND	8.8	ug/Kg	1	06/12/20	JLI	SW8260C
1,2,3-Trichlorobenzene	ND	8.8	ug/Kg	1	06/12/20	JLI	SW8260C
1,2,3-Trichloropropane	ND	8.8	ug/Kg	1	06/12/20	JLI	SW8260C
1,2,4-Trichlorobenzene	ND	8.8	ug/Kg	1	06/12/20	JLI	SW8260C
1,2,4-Trimethylbenzene	ND	8.8	ug/Kg	1	06/12/20	JLI	SW8260C
1,2-Dibromo-3-chloropropane	ND	5.0	ug/Kg	1	06/12/20	JLI	SW8260C
1,2-Dibromoethane	ND	7.0	ug/Kg	1	06/12/20	JLI	SW8260C
1,2-Dichlorobenzene	ND	8.8	ug/Kg	1	06/12/20	JLI	SW8260C
1,2-Dichloroethane	ND	8.8	ug/Kg	1	06/12/20	JLI	SW8260C
1,2-Dichloropropane	ND	8.8	ug/Kg	1	06/12/20	JLI	SW8260C
1,3,5-Trimethylbenzene	ND	8.8	ug/Kg	1	06/12/20	JLI	SW8260C
1,3-Dichlorobenzene	ND	8.8	ug/Kg	1	06/12/20	JLI	SW8260C
1,3-Dichloropropane	ND	8.8	ug/Kg	1	06/12/20	JLI	SW8260C
1,4-Dichlorobenzene	ND	8.8	ug/Kg	1	06/12/20	JLI	SW8260C
2,2-Dichloropropane	ND	8.8	ug/Kg	1	06/12/20	JLI	SW8260C
2-Chlorotoluene	ND	8.8	ug/Kg	1	06/12/20	JLI	SW8260C
2-Hexanone	ND	44	ug/Kg	1	06/12/20	JLI	SW8260C
2-Isopropyltoluene	ND	8.8	ug/Kg	1	06/12/20	JLI	SW8260C
4-Chlorotoluene	ND	8.8	ug/Kg	1	06/12/20	JLI	SW8260C
4-Methyl-2-pentanone	ND	44	ug/Kg	1	06/12/20	JLI	SW8260C
Acetone	ND	440	ug/Kg	1	06/12/20	JLI	SW8260C
Acrylonitrile	ND	8.8	ug/Kg	1	06/12/20	JLI	SW8260C
Benzene	ND	8.8	ug/Kg	1	06/12/20	JLI	SW8260C
Bromobenzene	ND	8.8	ug/Kg	1	06/12/20	JLI	SW8260C
Bromochloromethane	ND	8.8	ug/Kg	1	06/12/20	JLI	SW8260C
Bromodichloromethane	ND	8.8	ug/Kg	1	06/12/20	JLI	SW8260C
Bromoform	ND	8.8	ug/Kg	1	06/12/20	JLI	SW8260C
Bromomethane	ND	8.8	ug/Kg	1	06/12/20	JLI	SW8260C
Carbon Disulfide	ND	8.8	ug/Kg	1	06/12/20	JLI	SW8260C
Carbon tetrachloride	ND	8.8	ug/Kg	1	06/12/20	JLI	SW8260C
Chlorobenzene	ND	8.8	ug/Kg	1	06/12/20	JLI	SW8260C
Chloroethane	ND	8.8	ug/Kg	1	06/12/20	JLI	SW8260C
Chloroform	ND	8.8	ug/Kg	1	06/12/20	JLI	SW8260C
Chloromethane	ND	8.8	ug/Kg	1	06/12/20	JLI	SW8260C
cis-1,2-Dichloroethene	ND	8.8	ug/Kg	1	06/12/20	JLI	SW8260C
cis-1,3-Dichloropropene	ND	8.8	ug/Kg	1	06/12/20	JLI	SW8260C
Dibromochloromethane	ND	5.3	ug/Kg	1	06/12/20	JLI	SW8260C
Dibromomethane	ND	8.8	ug/Kg	1	06/12/20	JLI	SW8260C
Dichlorodifluoromethane	ND	8.8	ug/Kg	1	06/12/20	JLI	SW8260C
Ethylbenzene	ND	8.8	ug/Kg	1	06/12/20	JLI	SW8260C
Hexachlorobutadiene	ND	8.8	ug/Kg	1	06/12/20	JLI	SW8260C
Isopropylbenzene	ND	8.8	ug/Kg	1	06/12/20	JLI	SW8260C
m&p-Xylene	ND	8.8	ug/Kg	1	06/12/20	JLI	SW8260C
Methyl Ethyl Ketone	ND	53	ug/Kg	1	06/12/20	JLI	SW8260C
Methyl t-butyl ether (MTBE)	ND	18	ug/Kg	1	06/12/20	JLI	SW8260C
Methylene chloride	ND	18	ug/Kg	1	06/12/20	JLI	SW8260C
Naphthalene	ND	8.8	ug/Kg	1	06/12/20	JLI	SW8260C

Project ID: TURNEY CREEK OUTFALL
Client ID: SED-4 (0-2`)

Phoenix I.D.: CG10802

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	
n-Butylbenzene	ND	8.8	ug/Kg	1	06/12/20	JLI	SW8260C
n-Propylbenzene	ND	8.8	ug/Kg	1	06/12/20	JLI	SW8260C
o-Xylene	ND	8.8	ug/Kg	1	06/12/20	JLI	SW8260C
p-Isopropyltoluene	ND	8.8	ug/Kg	1	06/12/20	JLI	SW8260C
sec-Butylbenzene	ND	8.8	ug/Kg	1	06/12/20	JLI	SW8260C
Styrene	ND	8.8	ug/Kg	1	06/12/20	JLI	SW8260C
tert-Butylbenzene	ND	8.8	ug/Kg	1	06/12/20	JLI	SW8260C
Tetrachloroethene	ND	8.8	ug/Kg	1	06/12/20	JLI	SW8260C
Tetrahydrofuran (THF)	ND	18	ug/Kg	1	06/12/20	JLI	SW8260C
Toluene	ND	8.8	ug/Kg	1	06/12/20	JLI	SW8260C
Total Xylenes	ND	8.8	ug/Kg	1	06/12/20	JLI	SW8260C
trans-1,2-Dichloroethene	ND	8.8	ug/Kg	1	06/12/20	JLI	SW8260C
trans-1,3-Dichloropropene	ND	8.8	ug/Kg	1	06/12/20	JLI	SW8260C
trans-1,4-dichloro-2-butene	ND	18	ug/Kg	1	06/12/20	JLI	SW8260C
Trichloroethene	ND	8.8	ug/Kg	1	06/12/20	JLI	SW8260C
Trichlorofluoromethane	ND	8.8	ug/Kg	1	06/12/20	JLI	SW8260C
Trichlorotrifluoroethane	ND	18	ug/Kg	1	06/12/20	JLI	SW8260C
Vinyl chloride	ND	8.8	ug/Kg	1	06/12/20	JLI	SW8260C
QA/QC Surrogates							
% 1,2-dichlorobenzene-d4	99		%	1	06/12/20	JLI	70 - 130 %
% Bromofluorobenzene	89		%	1	06/12/20	JLI	70 - 130 %
% Dibromofluoromethane	98		%	1	06/12/20	JLI	70 - 130 %
% Toluene-d8	96		%	1	06/12/20	JLI	70 - 130 %

Semivolatiles

1,2,4,5-Tetrachlorobenzene	ND	100	ug/Kg	1	06/11/20	WB	SW8270D
1,2,4-Trichlorobenzene	ND	320	ug/Kg	1	06/11/20	WB	SW8270D
1,2-Dichlorobenzene	ND	320	ug/Kg	1	06/11/20	WB	SW8270D
1,2-Diphenylhydrazine	ND	200	ug/Kg	1	06/11/20	WB	SW8270D
1,3-Dichlorobenzene	ND	320	ug/Kg	1	06/11/20	WB	SW8270D
1,4-Dichlorobenzene	ND	320	ug/Kg	1	06/11/20	WB	SW8270D
2,4,5-Trichlorophenol	ND	320	ug/Kg	1	06/11/20	WB	SW8270D
2,4,6-Trichlorophenol	ND	200	ug/Kg	1	06/11/20	WB	SW8270D
2,4-Dichlorophenol	ND	320	ug/Kg	1	06/11/20	WB	SW8270D
2,4-Dimethylphenol	ND	320	ug/Kg	1	06/11/20	WB	SW8270D
2,4-Dinitrophenol	ND	300	ug/Kg	1	06/11/20	WB	SW8270D
2,4-Dinitrotoluene	ND	200	ug/Kg	1	06/11/20	WB	SW8270D
2,6-Dinitrotoluene	ND	200	ug/Kg	1	06/11/20	WB	SW8270D
2-Chloronaphthalene	ND	320	ug/Kg	1	06/11/20	WB	SW8270D
2-Chlorophenol	ND	320	ug/Kg	1	06/11/20	WB	SW8270D
2-Methylnaphthalene	ND	320	ug/Kg	1	06/11/20	WB	SW8270D
2-Methylphenol (o-cresol)	ND	320	ug/Kg	1	06/11/20	WB	SW8270D
2-Nitroaniline	ND	300	ug/Kg	1	06/11/20	WB	SW8270D
2-Nitrophenol	ND	320	ug/Kg	1	06/11/20	WB	SW8270D
3&4-Methylphenol (m&p-cresol)	ND	450	ug/Kg	1	06/11/20	WB	SW8270D
3,3'-Dichlorobenzidine	ND	200	ug/Kg	1	06/11/20	WB	SW8270D
3-Nitroaniline	ND	300	ug/Kg	1	06/11/20	WB	SW8270D
4,6-Dinitro-2-methylphenol	ND	300	ug/Kg	1	06/11/20	WB	SW8270D
4-Bromophenyl phenyl ether	ND	450	ug/Kg	1	06/11/20	WB	SW8270D
4-Chloro-3-methylphenol	ND	320	ug/Kg	1	06/11/20	WB	SW8270D

Project ID: TURNEY CREEK OUTFALL
Client ID: SED-4 (0-2`)

Phoenix I.D.: CG10802

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	
4-Chloroaniline	ND	200	ug/Kg	1	06/11/20	WB	SW8270D
4-Chlorophenyl phenyl ether	ND	320	ug/Kg	1	06/11/20	WB	SW8270D
4-Nitroaniline	ND	300	ug/Kg	1	06/11/20	WB	SW8270D
4-Nitrophenol	ND	320	ug/Kg	1	06/11/20	WB	SW8270D
Acenaphthene	ND	320	ug/Kg	1	06/11/20	WB	SW8270D
Acenaphthylene	ND	320	ug/Kg	1	06/11/20	WB	SW8270D
Acetophenone	ND	320	ug/Kg	1	06/11/20	WB	SW8270D
Aniline	ND	200	ug/Kg	1	06/11/20	WB	SW8270D
Anthracene	ND	320	ug/Kg	1	06/11/20	WB	SW8270D
Benz(a)anthracene	350	320	ug/Kg	1	06/11/20	WB	SW8270D
Benzidine	ND	200	ug/Kg	1	06/11/20	WB	SW8270D
Benzo(a)pyrene	420	320	ug/Kg	1	06/11/20	WB	SW8270D
Benzo(b)fluoranthene	420	320	ug/Kg	1	06/11/20	WB	SW8270D
Benzo(ghi)perylene	ND	320	ug/Kg	1	06/11/20	WB	SW8270D
Benzo(k)fluoranthene	340	320	ug/Kg	1	06/11/20	WB	SW8270D
Benzoic acid	ND	900	ug/Kg	1	06/11/20	WB	SW8270D
Benzyl butyl phthalate	ND	320	ug/Kg	1	06/11/20	WB	SW8270D
Bis(2-chloroethoxy)methane	ND	320	ug/Kg	1	06/11/20	WB	SW8270D
Bis(2-chloroethyl)ether	ND	450	ug/Kg	1	06/11/20	WB	SW8270D
Bis(2-chloroisopropyl)ether	ND	320	ug/Kg	1	06/11/20	WB	SW8270D
Bis(2-ethylhexyl)phthalate	ND	320	ug/Kg	1	06/11/20	WB	SW8270D
Carbazole	ND	200	ug/Kg	1	06/11/20	WB	SW8270D
Chrysene	460	320	ug/Kg	1	06/11/20	WB	SW8270D
Dibenz(a,h)anthracene	ND	320	ug/Kg	1	06/11/20	WB	SW8270D
Dibenzofuran	ND	200	ug/Kg	1	06/11/20	WB	SW8270D
Diethyl phthalate	ND	320	ug/Kg	1	06/11/20	WB	SW8270D
Dimethylphthalate	ND	320	ug/Kg	1	06/11/20	WB	SW8270D
Di-n-butylphthalate	ND	450	ug/Kg	1	06/11/20	WB	SW8270D
Di-n-octylphthalate	ND	320	ug/Kg	1	06/11/20	WB	SW8270D
Fluoranthene	930	320	ug/Kg	1	06/11/20	WB	SW8270D
Fluorene	ND	320	ug/Kg	1	06/11/20	WB	SW8270D
Hexachlorobenzene	ND	320	ug/Kg	1	06/11/20	WB	SW8270D
Hexachlorobutadiene	ND	200	ug/Kg	1	06/11/20	WB	SW8270D
Hexachlorocyclopentadiene	ND	320	ug/Kg	1	06/11/20	WB	SW8270D
Hexachloroethane	ND	320	ug/Kg	1	06/11/20	WB	SW8270D
Indeno(1,2,3-cd)pyrene	ND	320	ug/Kg	1	06/11/20	WB	SW8270D
Isophorone	ND	320	ug/Kg	1	06/11/20	WB	SW8270D
Naphthalene	ND	320	ug/Kg	1	06/11/20	WB	SW8270D
Nitrobenzene	ND	200	ug/Kg	1	06/11/20	WB	SW8270D
N-Nitrosodimethylamine	ND	200	ug/Kg	1	06/11/20	WB	SW8270D
N-Nitrosodi-n-propylamine	ND	200	ug/Kg	1	06/11/20	WB	SW8270D
N-Nitrosodiphenylamine	ND	200	ug/Kg	1	06/11/20	WB	SW8270D
Pentachloronitrobenzene	ND	140	ug/Kg	1	06/11/20	WB	SW8270D
Pentachlorophenol	ND	450	ug/Kg	1	06/11/20	WB	SW8270D
Phenanthrene	410	320	ug/Kg	1	06/11/20	WB	SW8270D
Phenol	ND	320	ug/Kg	1	06/11/20	WB	SW8270D
Pyrene	860	320	ug/Kg	1	06/11/20	WB	SW8270D
Pyridine	ND	200	ug/Kg	1	06/11/20	WB	SW8270D

QA/QC Surrogates

Project ID: TURNEY CREEK OUTFALL
Client ID: SED-4 (0-2`)

Phoenix I.D.: CG10802

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	
% 2,4,6-Tribromophenol	93		%	1	06/11/20	WB	30 - 130 %
% 2-Fluorobiphenyl	61		%	1	06/11/20	WB	30 - 130 %
% 2-Fluorophenol	63		%	1	06/11/20	WB	30 - 130 %
% Nitrobenzene-d5	63		%	1	06/11/20	WB	30 - 130 %
% Phenol-d5	69		%	1	06/11/20	WB	30 - 130 %
% Terphenyl-d14	80		%	1	06/11/20	WB	30 - 130 %
Field Extraction	Completed				06/10/20		SW5035A

3 = This parameter exceeds laboratory specified limits.

RL/PQL=Reporting/Practical Quantitation Level ND=Not Detected BRL=Below Reporting Level
QA/QC Surrogates: Surrogates are compounds (preceeded with a %) added by the lab to determine analysis efficiency. Surrogate results(%) listed in the report are not "detected" compounds.

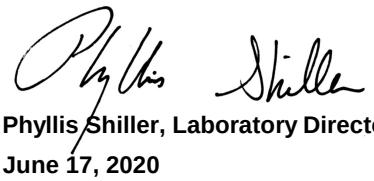
Comments:

Per 1.4.6 of EPA method 8270D, 1,2-Diphenylhydrazine is unstable and readily converts to Azobenzene. Azobenzene is used for the calibration of 1,2-Diphenylhydrazine.

TPH Comment:
**Petroleum hydrocarbon chromatogram contains a multicomponent hydrocarbon distribution in the range of C12 to C36. The sample was quantitated against a C9-C36 alkane hydrocarbon standard.

All soils, solids and sludges are reported on a dry weight basis unless otherwise noted in the sample comments.

If you are the client above and have any questions concerning this testing, please do not hesitate to contact Phoenix Client Services at ext.200.
The contents of this report cannot be discussed with anyone other than the client listed above without their written consent.



Phyllis Shiller, Laboratory Director
June 17, 2020
Reviewed and Released by: Phyllis Shiller, Laboratory Director

Reference PHOENIX
Environmental Laboratories, Inc.
587 East Middle Turnpike, P.O.Box 370, Manchester, CT 06045
Tel. (860) 645-1102 Fax (860) 645-0823

Analysis Report

June 17, 2020

FOR: Attn: Mr. Brian Sirowich
Tighe & Bond
213 Court St, Suite 1100
Middletown, CT 06457

Sample Information		Custody Information		Date	Time
Matrix:	SEDIMENT	Collected by:		06/10/20	10:45
Location Code:	TIGHE-DAS	Received by:	LB	06/10/20	16:00
Rush Request:	Standard	Analyzed by:	see "By" below		
P.O.#:					

Laboratory Data

SDG ID: GCG10797
Phoenix ID: CG10803

Project ID: TURNEY CREEK OUTFALL
Client ID: SED-3 (2-4`)

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Silver	< 0.40	0.40	mg/Kg	1	06/11/20	TH	SW6010D
Arsenic	1.05	0.80	mg/Kg	1	06/11/20	TH	SW6010D
Barium	27.7	0.40	mg/Kg	1	06/11/20	TH	SW6010D
Beryllium	0.32	0.32	mg/Kg	1	06/11/20	TH	SW6010D
Cadmium	1.43	0.40	mg/Kg	1	06/11/20	TH	SW6010D
Chromium	19.7	0.40	mg/Kg	1	06/11/20	TH	SW6010D
Copper	17.6	0.8	mg/kg	1	06/11/20	TH	SW6010D
Mercury	< 0.03	0.03	mg/Kg	2	06/15/20	RS	SW7471B
Nickel	10.1	0.40	mg/Kg	1	06/11/20	TH	SW6010D
Lead	7.37	0.40	mg/Kg	1	06/11/20	TH	SW6010D
Antimony	< 4.0	4.0	mg/Kg	1	06/11/20	TH	SW6010D
Selenium	< 1.6	1.6	mg/Kg	1	06/11/20	TH	SW6010D
Thallium	< 3.6	3.6	mg/Kg	1	06/11/20	TH	SW6010D
Vanadium	19.0	0.40	mg/Kg	1	06/11/20	TH	SW6010D
Zinc	131	0.8	mg/Kg	1	06/11/20	TH	SW6010D
Percent Solid	77		%		06/10/20	HB	SW846-%Solid
Soil Extraction for Pesticide	Completed				06/11/20	LL/AA	SW3545A
Mercury Digestion	Completed				06/15/20	VT/KL/VT	SW7471B
Extraction of CT ETPH	Completed				06/10/20	LG/EE	SW3546
Soil Extraction for SVOA	Completed				06/10/20	KK/MA	SW3546
Extraction for PCB	Completed				06/10/20	HH/KL/HB	SW3540C
Total Metals Digest	Completed				06/10/20	B/AG/BF	SW3050B
TPH by GC (Extractable Products)							
Ext. Petroleum H.C. (C9-C36)	ND	64	mg/Kg	1	06/11/20	JRB	CTETPH 8015D
Identification	ND		mg/Kg	1	06/11/20	JRB	CTETPH 8015D
QA/QC Surrogates							
% n-Pentacosane	75		%	1	06/11/20	JRB	50 - 150 %

Ver 1

Project ID: TURNEY CREEK OUTFALL
Client ID: SED-3 (2-4`)

Phoenix I.D.: CG10803

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	
PCB (Soxhlet SW3540C)							
PCB-1016	ND	430	ug/Kg	10	06/11/20	AW	SW8082A
PCB-1221	ND	430	ug/Kg	10	06/11/20	AW	SW8082A
PCB-1232	ND	430	ug/Kg	10	06/11/20	AW	SW8082A
PCB-1242	ND	430	ug/Kg	10	06/11/20	AW	SW8082A
PCB-1248	ND	430	ug/Kg	10	06/11/20	AW	SW8082A
PCB-1254	ND	430	ug/Kg	10	06/11/20	AW	SW8082A
PCB-1260	ND	430	ug/Kg	10	06/11/20	AW	SW8082A
PCB-1262	ND	430	ug/Kg	10	06/11/20	AW	SW8082A
PCB-1268	ND	430	ug/Kg	10	06/11/20	AW	SW8082A
QA/QC Surrogates							
% DCBP	123		%	10	06/11/20	AW	30 - 150 %
% DCBP (Confirmation)	127		%	10	06/11/20	AW	30 - 150 %
% TCMX	128		%	10	06/11/20	AW	30 - 150 %
% TCMX (Confirmation)	127		%	10	06/11/20	AW	30 - 150 %
Pesticides							
4,4' -DDD	ND	1.7	ug/Kg	2	06/12/20	CG	SW8081B
4,4' -DDE	ND	1.7	ug/Kg	2	06/12/20	CG	SW8081B
4,4' -DDT	ND	1.7	ug/Kg	2	06/12/20	CG	SW8081B
a-BHC	ND	1.7	ug/Kg	2	06/12/20	CG	SW8081B
Alachlor	ND	8.6	ug/Kg	2	06/12/20	CG	SW8081B
Aldrin	ND	1.7	ug/Kg	2	06/12/20	CG	SW8081B
b-BHC	ND	1.7	ug/Kg	2	06/12/20	CG	SW8081B
Chlordane	ND	43	ug/Kg	2	06/12/20	CG	SW8081B
d-BHC	ND	1.7	ug/Kg	2	06/12/20	CG	SW8081B
Dieldrin	ND	4.3	ug/Kg	2	06/12/20	CG	SW8081B
Endosulfan I	ND	8.6	ug/Kg	2	06/12/20	CG	SW8081B
Endosulfan II	ND	8.6	ug/Kg	2	06/12/20	CG	SW8081B
Endosulfan sulfate	ND	8.6	ug/Kg	2	06/12/20	CG	SW8081B
Endrin	ND	8.6	ug/Kg	2	06/12/20	CG	SW8081B
Endrin aldehyde	ND	8.6	ug/Kg	2	06/12/20	CG	SW8081B
Endrin ketone	ND	8.6	ug/Kg	2	06/12/20	CG	SW8081B
g-BHC	ND	1.7	ug/Kg	2	06/12/20	CG	SW8081B
Heptachlor	ND	8.6	ug/Kg	2	06/12/20	CG	SW8081B
Heptachlor epoxide	ND	8.6	ug/Kg	2	06/12/20	CG	SW8081B
Methoxychlor	ND	43	ug/Kg	2	06/12/20	CG	SW8081B
Toxaphene	ND	170	ug/Kg	2	06/12/20	CG	SW8081B
QA/QC Surrogates							
% DCBP	65		%	2	06/12/20	CG	30 - 150 %
% DCBP (Confirmation)	57		%	2	06/12/20	CG	30 - 150 %
% TCMX	56		%	2	06/12/20	CG	30 - 150 %
% TCMX (Confirmation)	49		%	2	06/12/20	CG	30 - 150 %
Volatiles							
1,1,1,2-Tetrachloroethane	ND	10	ug/Kg	1	06/11/20	JLI	SW8260C
1,1,1-Trichloroethane	ND	10	ug/Kg	1	06/11/20	JLI	SW8260C
1,1,2,2-Tetrachloroethane	ND	6.0	ug/Kg	1	06/11/20	JLI	SW8260C
1,1,2-Trichloroethane	ND	10	ug/Kg	1	06/11/20	JLI	SW8260C

Project ID: TURNEY CREEK OUTFALL
Client ID: SED-3 (2-4`)

Phoenix I.D.: CG10803

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	
1,1-Dichloroethane	ND	10	ug/Kg	1	06/11/20	JLI	SW8260C
1,1-Dichloroethene	ND	10	ug/Kg	1	06/11/20	JLI	SW8260C
1,1-Dichloropropene	ND	10	ug/Kg	1	06/11/20	JLI	SW8260C
1,2,3-Trichlorobenzene	ND	10	ug/Kg	1	06/11/20	JLI	SW8260C
1,2,3-Trichloropropane	ND	10	ug/Kg	1	06/11/20	JLI	SW8260C
1,2,4-Trichlorobenzene	ND	10	ug/Kg	1	06/11/20	JLI	SW8260C
1,2,4-Trimethylbenzene	ND	10	ug/Kg	1	06/11/20	JLI	SW8260C
1,2-Dibromo-3-chloropropane	ND	5.0	ug/Kg	1	06/11/20	JLI	SW8260C
1,2-Dibromoethane	ND	7.0	ug/Kg	1	06/11/20	JLI	SW8260C
1,2-Dichlorobenzene	ND	10	ug/Kg	1	06/11/20	JLI	SW8260C
1,2-Dichloroethane	ND	10	ug/Kg	1	06/11/20	JLI	SW8260C
1,2-Dichloropropane	ND	10	ug/Kg	1	06/11/20	JLI	SW8260C
1,3,5-Trimethylbenzene	ND	10	ug/Kg	1	06/11/20	JLI	SW8260C
1,3-Dichlorobenzene	ND	10	ug/Kg	1	06/11/20	JLI	SW8260C
1,3-Dichloropropane	ND	10	ug/Kg	1	06/11/20	JLI	SW8260C
1,4-Dichlorobenzene	ND	10	ug/Kg	1	06/11/20	JLI	SW8260C
2,2-Dichloropropane	ND	10	ug/Kg	1	06/11/20	JLI	SW8260C
2-Chlorotoluene	ND	10	ug/Kg	1	06/11/20	JLI	SW8260C
2-Hexanone	ND	50	ug/Kg	1	06/11/20	JLI	SW8260C
2-Isopropyltoluene	ND	10	ug/Kg	1	06/11/20	JLI	SW8260C
4-Chlorotoluene	ND	10	ug/Kg	1	06/11/20	JLI	SW8260C
4-Methyl-2-pentanone	ND	50	ug/Kg	1	06/11/20	JLI	SW8260C
Acetone	ND	500	ug/Kg	1	06/11/20	JLI	SW8260C
Acrylonitrile	ND	10	ug/Kg	1	06/11/20	JLI	SW8260C
Benzene	ND	10	ug/Kg	1	06/11/20	JLI	SW8260C
Bromobenzene	ND	10	ug/Kg	1	06/11/20	JLI	SW8260C
Bromochloromethane	ND	10	ug/Kg	1	06/11/20	JLI	SW8260C
Bromodichloromethane	ND	10	ug/Kg	1	06/11/20	JLI	SW8260C
Bromoform	ND	10	ug/Kg	1	06/11/20	JLI	SW8260C
Bromomethane	ND	10	ug/Kg	1	06/11/20	JLI	SW8260C
Carbon Disulfide	13	10	ug/Kg	1	06/11/20	JLI	SW8260C
Carbon tetrachloride	ND	10	ug/Kg	1	06/11/20	JLI	SW8260C
Chlorobenzene	ND	10	ug/Kg	1	06/11/20	JLI	SW8260C
Chloroethane	ND	10	ug/Kg	1	06/11/20	JLI	SW8260C
Chloroform	ND	10	ug/Kg	1	06/11/20	JLI	SW8260C
Chloromethane	ND	10	ug/Kg	1	06/11/20	JLI	SW8260C
cis-1,2-Dichloroethene	ND	10	ug/Kg	1	06/11/20	JLI	SW8260C
cis-1,3-Dichloropropene	ND	10	ug/Kg	1	06/11/20	JLI	SW8260C
Dibromochloromethane	ND	6.0	ug/Kg	1	06/11/20	JLI	SW8260C
Dibromomethane	ND	10	ug/Kg	1	06/11/20	JLI	SW8260C
Dichlorodifluoromethane	ND	10	ug/Kg	1	06/11/20	JLI	SW8260C
Ethylbenzene	ND	10	ug/Kg	1	06/11/20	JLI	SW8260C
Hexachlorobutadiene	ND	10	ug/Kg	1	06/11/20	JLI	SW8260C
Isopropylbenzene	ND	10	ug/Kg	1	06/11/20	JLI	SW8260C
m&p-Xylene	ND	10	ug/Kg	1	06/11/20	JLI	SW8260C
Methyl Ethyl Ketone	ND	60	ug/Kg	1	06/11/20	JLI	SW8260C
Methyl t-butyl ether (MTBE)	ND	20	ug/Kg	1	06/11/20	JLI	SW8260C
Methylene chloride	ND	20	ug/Kg	1	06/11/20	JLI	SW8260C
Naphthalene	ND	10	ug/Kg	1	06/11/20	JLI	SW8260C

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	
n-Butylbenzene	ND	10	ug/Kg	1	06/11/20	JLI	SW8260C
n-Propylbenzene	ND	10	ug/Kg	1	06/11/20	JLI	SW8260C
o-Xylene	ND	10	ug/Kg	1	06/11/20	JLI	SW8260C
p-Isopropyltoluene	ND	10	ug/Kg	1	06/11/20	JLI	SW8260C
sec-Butylbenzene	ND	10	ug/Kg	1	06/11/20	JLI	SW8260C
Styrene	ND	10	ug/Kg	1	06/11/20	JLI	SW8260C
tert-Butylbenzene	ND	10	ug/Kg	1	06/11/20	JLI	SW8260C
Tetrachloroethene	ND	10	ug/Kg	1	06/11/20	JLI	SW8260C
Tetrahydrofuran (THF)	ND	20	ug/Kg	1	06/11/20	JLI	SW8260C
Toluene	ND	10	ug/Kg	1	06/11/20	JLI	SW8260C
Total Xylenes	ND	10	ug/Kg	1	06/11/20	JLI	SW8260C
trans-1,2-Dichloroethene	ND	10	ug/Kg	1	06/11/20	JLI	SW8260C
trans-1,3-Dichloropropene	ND	10	ug/Kg	1	06/11/20	JLI	SW8260C
trans-1,4-dichloro-2-butene	ND	20	ug/Kg	1	06/11/20	JLI	SW8260C
Trichloroethene	ND	10	ug/Kg	1	06/11/20	JLI	SW8260C
Trichlorofluoromethane	ND	10	ug/Kg	1	06/11/20	JLI	SW8260C
Trichlorotrifluoroethane	ND	20	ug/Kg	1	06/11/20	JLI	SW8260C
Vinyl chloride	ND	10	ug/Kg	1	06/11/20	JLI	SW8260C
QA/QC Surrogates							
% 1,2-dichlorobenzene-d4	99		%	1	06/11/20	JLI	70 - 130 %
% Bromofluorobenzene	93		%	1	06/11/20	JLI	70 - 130 %
% Dibromofluoromethane	98		%	1	06/11/20	JLI	70 - 130 %
% Toluene-d8	97		%	1	06/11/20	JLI	70 - 130 %

Semivolatiles

1,2,4,5-Tetrachlorobenzene	ND	100	ug/Kg	1	06/11/20	AW	SW8270D
1,2,4-Trichlorobenzene	ND	300	ug/Kg	1	06/11/20	AW	SW8270D
1,2-Dichlorobenzene	ND	300	ug/Kg	1	06/11/20	AW	SW8270D
1,2-Diphenylhydrazine	ND	200	ug/Kg	1	06/11/20	AW	SW8270D
1,3-Dichlorobenzene	ND	300	ug/Kg	1	06/11/20	AW	SW8270D
1,4-Dichlorobenzene	ND	300	ug/Kg	1	06/11/20	AW	SW8270D
2,4,5-Trichlorophenol	ND	300	ug/Kg	1	06/11/20	AW	SW8270D
2,4,6-Trichlorophenol	ND	200	ug/Kg	1	06/11/20	AW	SW8270D
2,4-Dichlorophenol	ND	300	ug/Kg	1	06/11/20	AW	SW8270D
2,4-Dimethylphenol	ND	300	ug/Kg	1	06/11/20	AW	SW8270D
2,4-Dinitrophenol	ND	300	ug/Kg	1	06/11/20	AW	SW8270D
2,4-Dinitrotoluene	ND	200	ug/Kg	1	06/11/20	AW	SW8270D
2,6-Dinitrotoluene	ND	200	ug/Kg	1	06/11/20	AW	SW8270D
2-Chloronaphthalene	ND	300	ug/Kg	1	06/11/20	AW	SW8270D
2-Chlorophenol	ND	300	ug/Kg	1	06/11/20	AW	SW8270D
2-Methylnaphthalene	ND	300	ug/Kg	1	06/11/20	AW	SW8270D
2-Methylphenol (o-cresol)	ND	300	ug/Kg	1	06/11/20	AW	SW8270D
2-Nitroaniline	ND	300	ug/Kg	1	06/11/20	AW	SW8270D
2-Nitrophenol	ND	300	ug/Kg	1	06/11/20	AW	SW8270D
3&4-Methylphenol (m&p-cresol)	ND	430	ug/Kg	1	06/11/20	AW	SW8270D
3,3'-Dichlorobenzidine	ND	200	ug/Kg	1	06/11/20	AW	SW8270D
3-Nitroaniline	ND	300	ug/Kg	1	06/11/20	AW	SW8270D
4,6-Dinitro-2-methylphenol	ND	300	ug/Kg	1	06/11/20	AW	SW8270D
4-Bromophenyl phenyl ether	ND	430	ug/Kg	1	06/11/20	AW	SW8270D
4-Chloro-3-methylphenol	ND	300	ug/Kg	1	06/11/20	AW	SW8270D

Project ID: TURNEY CREEK OUTFALL
Client ID: SED-3 (2-4`)

Phoenix I.D.: CG10803

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	
4-Chloroaniline	ND	200	ug/Kg	1	06/11/20	AW	SW8270D
4-Chlorophenyl phenyl ether	ND	300	ug/Kg	1	06/11/20	AW	SW8270D
4-Nitroaniline	ND	300	ug/Kg	1	06/11/20	AW	SW8270D
4-Nitrophenol	ND	300	ug/Kg	1	06/11/20	AW	SW8270D
Acenaphthene	ND	300	ug/Kg	1	06/11/20	AW	SW8270D
Acenaphthylene	ND	300	ug/Kg	1	06/11/20	AW	SW8270D
Acetophenone	ND	300	ug/Kg	1	06/11/20	AW	SW8270D
Aniline	ND	200	ug/Kg	1	06/11/20	AW	SW8270D
Anthracene	ND	300	ug/Kg	1	06/11/20	AW	SW8270D
Benz(a)anthracene	ND	300	ug/Kg	1	06/11/20	AW	SW8270D
Benzidine	ND	200	ug/Kg	1	06/11/20	AW	SW8270D
Benzo(a)pyrene	ND	300	ug/Kg	1	06/11/20	AW	SW8270D
Benzo(b)fluoranthene	ND	300	ug/Kg	1	06/11/20	AW	SW8270D
Benzo(ghi)perylene	ND	300	ug/Kg	1	06/11/20	AW	SW8270D
Benzo(k)fluoranthene	ND	300	ug/Kg	1	06/11/20	AW	SW8270D
Benzoic acid	ND	860	ug/Kg	1	06/11/20	AW	SW8270D
Benzyl butyl phthalate	ND	300	ug/Kg	1	06/11/20	AW	SW8270D
Bis(2-chloroethoxy)methane	ND	300	ug/Kg	1	06/11/20	AW	SW8270D
Bis(2-chloroethyl)ether	ND	430	ug/Kg	1	06/11/20	AW	SW8270D
Bis(2-chloroisopropyl)ether	ND	300	ug/Kg	1	06/11/20	AW	SW8270D
Bis(2-ethylhexyl)phthalate	ND	300	ug/Kg	1	06/11/20	AW	SW8270D
Carbazole	ND	200	ug/Kg	1	06/11/20	AW	SW8270D
Chrysene	ND	300	ug/Kg	1	06/11/20	AW	SW8270D
Dibenz(a,h)anthracene	ND	300	ug/Kg	1	06/11/20	AW	SW8270D
Dibenzofuran	ND	200	ug/Kg	1	06/11/20	AW	SW8270D
Diethyl phthalate	ND	300	ug/Kg	1	06/11/20	AW	SW8270D
Dimethylphthalate	ND	300	ug/Kg	1	06/11/20	AW	SW8270D
Di-n-butylphthalate	ND	430	ug/Kg	1	06/11/20	AW	SW8270D
Di-n-octylphthalate	ND	300	ug/Kg	1	06/11/20	AW	SW8270D
Fluoranthene	ND	300	ug/Kg	1	06/11/20	AW	SW8270D
Fluorene	ND	300	ug/Kg	1	06/11/20	AW	SW8270D
Hexachlorobenzene	ND	300	ug/Kg	1	06/11/20	AW	SW8270D
Hexachlorobutadiene	ND	200	ug/Kg	1	06/11/20	AW	SW8270D
Hexachlorocyclopentadiene	ND	300	ug/Kg	1	06/11/20	AW	SW8270D
Hexachloroethane	ND	300	ug/Kg	1	06/11/20	AW	SW8270D
Indeno(1,2,3-cd)pyrene	ND	300	ug/Kg	1	06/11/20	AW	SW8270D
Isophorone	ND	300	ug/Kg	1	06/11/20	AW	SW8270D
Naphthalene	ND	300	ug/Kg	1	06/11/20	AW	SW8270D
Nitrobenzene	ND	200	ug/Kg	1	06/11/20	AW	SW8270D
N-Nitrosodimethylamine	ND	200	ug/Kg	1	06/11/20	AW	SW8270D
N-Nitrosodi-n-propylamine	ND	200	ug/Kg	1	06/11/20	AW	SW8270D
N-Nitrosodiphenylamine	ND	200	ug/Kg	1	06/11/20	AW	SW8270D
Pentachloronitrobenzene	ND	140	ug/Kg	1	06/11/20	AW	SW8270D
Pentachlorophenol	ND	430	ug/Kg	1	06/11/20	AW	SW8270D
Phenanthrene	ND	300	ug/Kg	1	06/11/20	AW	SW8270D
Phenol	ND	300	ug/Kg	1	06/11/20	AW	SW8270D
Pyrene	320	300	ug/Kg	1	06/11/20	AW	SW8270D
Pyridine	ND	200	ug/Kg	1	06/11/20	AW	SW8270D

QA/QC Surrogates

Project ID: TURNEY CREEK OUTFALL
Client ID: SED-3 (2-4`)

Phoenix I.D.: CG10803

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	
% 2,4,6-Tribromophenol	93		%	1	06/11/20	AW	30 - 130 %
% 2-Fluorobiphenyl	65		%	1	06/11/20	AW	30 - 130 %
% 2-Fluorophenol	57		%	1	06/11/20	AW	30 - 130 %
% Nitrobenzene-d5	63		%	1	06/11/20	AW	30 - 130 %
% Phenol-d5	62		%	1	06/11/20	AW	30 - 130 %
% Terphenyl-d14	93		%	1	06/11/20	AW	30 - 130 %
Field Extraction	Completed				06/10/20		SW5035A

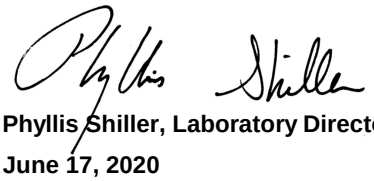
RL/PQL=Reporting/Practical Quantitation Level ND=Not Detected BRL=Below Reporting Level
QA/QC Surrogates: Surrogates are compounds (preceeded with a %) added by the lab to determine analysis efficiency. Surrogate results(%) listed in the report are not "detected" compounds.

Comments:

Per 1.4.6 of EPA method 8270D, 1,2-Diphenylhydrazine is unstable and readily converts to Azobenzene. Azobenzene is used for the calibration of 1,2-Diphenylhydrazine.

All soils, solids and sludges are reported on a dry weight basis unless otherwise noted in the sample comments.

If you are the client above and have any questions concerning this testing, please do not hesitate to contact Phoenix Client Services at ext.200.
The contents of this report cannot be discussed with anyone other than the client listed above without their written consent.



Phyllis Shiller, Laboratory Director
June 17, 2020
Reviewed and Released by: Phyllis Shiller, Laboratory Director

Reference PHOENIX
Environmental Laboratories, Inc.
587 East Middle Turnpike, P.O.Box 370, Manchester, CT 06045
Tel. (860) 645-1102 Fax (860) 645-0823

Analysis Report

June 17, 2020

FOR: Attn: Mr. Brian Sirowich
Tighe & Bond
213 Court St, Suite 1100
Middletown, CT 06457

Sample Information		Custody Information		Date	Time
Matrix:	SEDIMENT	Collected by:		06/10/20	11:45
Location Code:	TIGHE-DAS	Received by:	LB	06/10/20	16:00
Rush Request:	Standard	Analyzed by:	see "By" below		
P.O.#:					

Laboratory Data

SDG ID: GCG10797
Phoenix ID: CG10806

Project ID: TURNEY CREEK OUTFALL
Client ID: SED-5 (2-4`)

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Silver	< 0.41	0.41	mg/Kg	1	06/11/20	TH	SW6010D
Arsenic	0.84	0.83	mg/Kg	1	06/11/20	TH	SW6010D
Barium	54.1	0.41	mg/Kg	1	06/11/20	TH	SW6010D
Beryllium	< 0.33	0.33	mg/Kg	1	06/11/20	TH	SW6010D
Cadmium	0.83	0.41	mg/Kg	1	06/11/20	TH	SW6010D
Chromium	11.3	0.41	mg/Kg	1	06/11/20	TH	SW6010D
Copper	36.5	0.8	mg/kg	1	06/11/20	TH	SW6010D
Mercury	< 0.03	0.03	mg/Kg	2	06/15/20	RS	SW7471B
Nickel	7.99	0.41	mg/Kg	1	06/11/20	TH	SW6010D
Lead	11.7	0.41	mg/Kg	1	06/11/20	TH	SW6010D
Antimony	< 4.1	4.1	mg/Kg	1	06/11/20	TH	SW6010D
Selenium	< 1.7	1.7	mg/Kg	1	06/11/20	TH	SW6010D
Thallium	< 3.7	3.7	mg/Kg	1	06/11/20	TH	SW6010D
Vanadium	27.1	0.41	mg/Kg	1	06/11/20	TH	SW6010D
Zinc	34.6	0.8	mg/Kg	1	06/11/20	TH	SW6010D
Percent Solid	84		%		06/10/20	HB	SW846-%Solid
Soil Extraction for Pesticide	Completed				06/11/20	LL/AA	SW3545A
Soil Extraction for SVOA	Completed				06/10/20	RK/MA	SW3546
Mercury Digestion	Completed				06/15/20	VT/KL/VT	SW7471B
Extraction of CT ETPH	Completed				06/10/20	LG/EE	SW3546
Extraction for PCB	Completed				06/10/20	HH/KL/HB	SW3540C
Total Metals Digest	Completed				06/10/20	B/AG/BF	SW3050B
TPH by GC (Extractable Products)							
Ext. Petroleum H.C. (C9-C36)	170	58	mg/Kg	1	06/12/20	JRB	CTETPH 8015D
Identification	**		mg/Kg	1	06/12/20	JRB	CTETPH 8015D
QA/QC Surrogates							
% n-Pentacosane	75		%	1	06/12/20	JRB	50 - 150 %

Ver 1

Project ID: TURNEY CREEK OUTFALL
Client ID: SED-5 (2-4`)

Phoenix I.D.: CG10806

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	
PCB (Soxhlet SW3540C)							
PCB-1016	ND	390	ug/Kg	10	06/11/20	AW	SW8082A
PCB-1221	ND	390	ug/Kg	10	06/11/20	AW	SW8082A
PCB-1232	ND	390	ug/Kg	10	06/11/20	AW	SW8082A
PCB-1242	ND	390	ug/Kg	10	06/11/20	AW	SW8082A
PCB-1248	ND	390	ug/Kg	10	06/11/20	AW	SW8082A
PCB-1254	ND	390	ug/Kg	10	06/11/20	AW	SW8082A
PCB-1260	ND	390	ug/Kg	10	06/11/20	AW	SW8082A
PCB-1262	ND	390	ug/Kg	10	06/11/20	AW	SW8082A
PCB-1268	ND	390	ug/Kg	10	06/11/20	AW	SW8082A
QA/QC Surrogates							
% DCBP	110		%	10	06/11/20	AW	30 - 150 %
% DCBP (Confirmation)	106		%	10	06/11/20	AW	30 - 150 %
% TCMX	110		%	10	06/11/20	AW	30 - 150 %
% TCMX (Confirmation)	108		%	10	06/11/20	AW	30 - 150 %
Pesticides							
4,4' -DDD	ND	1.6	ug/Kg	2	06/12/20	CG	SW8081B
4,4' -DDE	ND	1.6	ug/Kg	2	06/12/20	CG	SW8081B
4,4' -DDT	ND	1.6	ug/Kg	2	06/12/20	CG	SW8081B
a-BHC	ND	1.6	ug/Kg	2	06/12/20	CG	SW8081B
Alachlor	ND	7.8	ug/Kg	2	06/12/20	CG	SW8081B
Aldrin	ND	1.6	ug/Kg	2	06/12/20	CG	SW8081B
b-BHC	ND	1.6	ug/Kg	2	06/12/20	CG	SW8081B
Chlordane	ND	39	ug/Kg	2	06/12/20	CG	SW8081B
d-BHC	ND	1.6	ug/Kg	2	06/12/20	CG	SW8081B
Dieldrin	ND	3.9	ug/Kg	2	06/12/20	CG	SW8081B
Endosulfan I	ND	7.8	ug/Kg	2	06/12/20	CG	SW8081B
Endosulfan II	ND	7.8	ug/Kg	2	06/12/20	CG	SW8081B
Endosulfan sulfate	ND	7.8	ug/Kg	2	06/12/20	CG	SW8081B
Endrin	ND	7.8	ug/Kg	2	06/12/20	CG	SW8081B
Endrin aldehyde	ND	7.8	ug/Kg	2	06/12/20	CG	SW8081B
Endrin ketone	ND	7.8	ug/Kg	2	06/12/20	CG	SW8081B
g-BHC	ND	2.0	ug/Kg	2	06/12/20	CG	SW8081B
Heptachlor	ND	7.8	ug/Kg	2	06/12/20	CG	SW8081B
Heptachlor epoxide	ND	7.8	ug/Kg	2	06/12/20	CG	SW8081B
Methoxychlor	ND	39	ug/Kg	2	06/12/20	CG	SW8081B
Toxaphene	ND	160	ug/Kg	2	06/12/20	CG	SW8081B
QA/QC Surrogates							
% DCBP	54		%	2	06/12/20	CG	30 - 150 %
% DCBP (Confirmation)	47		%	2	06/12/20	CG	30 - 150 %
% TCMX	47		%	2	06/12/20	CG	30 - 150 %
% TCMX (Confirmation)	41		%	2	06/12/20	CG	30 - 150 %
Semivolatiles							
1,2,4,5-Tetrachlorobenzene	ND	100	ug/Kg	1	06/11/20	WB	SW8270D
1,2,4-Trichlorobenzene	ND	270	ug/Kg	1	06/11/20	WB	SW8270D
1,2-Dichlorobenzene	ND	270	ug/Kg	1	06/11/20	WB	SW8270D
1,2-Diphenylhydrazine	ND	200	ug/Kg	1	06/11/20	WB	SW8270D

Project ID: TURNEY CREEK OUTFALL
Client ID: SED-5 (2-4`)

Phoenix I.D.: CG10806

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	
1,3-Dichlorobenzene	ND	270	ug/Kg	1	06/11/20	WB	SW8270D
1,4-Dichlorobenzene	ND	270	ug/Kg	1	06/11/20	WB	SW8270D
2,4,5-Trichlorophenol	ND	270	ug/Kg	1	06/11/20	WB	SW8270D
2,4,6-Trichlorophenol	ND	200	ug/Kg	1	06/11/20	WB	SW8270D
2,4-Dichlorophenol	ND	270	ug/Kg	1	06/11/20	WB	SW8270D
2,4-Dimethylphenol	ND	270	ug/Kg	1	06/11/20	WB	SW8270D
2,4-Dinitrophenol	ND	300	ug/Kg	1	06/11/20	WB	SW8270D
2,4-Dinitrotoluene	ND	200	ug/Kg	1	06/11/20	WB	SW8270D
2,6-Dinitrotoluene	ND	200	ug/Kg	1	06/11/20	WB	SW8270D
2-Chloronaphthalene	ND	270	ug/Kg	1	06/11/20	WB	SW8270D
2-Chlorophenol	ND	270	ug/Kg	1	06/11/20	WB	SW8270D
2-Methylnaphthalene	ND	270	ug/Kg	1	06/11/20	WB	SW8270D
2-Methylphenol (o-cresol)	ND	270	ug/Kg	1	06/11/20	WB	SW8270D
2-Nitroaniline	ND	300	ug/Kg	1	06/11/20	WB	SW8270D
2-Nitrophenol	ND	270	ug/Kg	1	06/11/20	WB	SW8270D
3&4-Methylphenol (m&p-cresol)	ND	390	ug/Kg	1	06/11/20	WB	SW8270D
3,3'-Dichlorobenzidine	ND	200	ug/Kg	1	06/11/20	WB	SW8270D
3-Nitroaniline	ND	300	ug/Kg	1	06/11/20	WB	SW8270D
4,6-Dinitro-2-methylphenol	ND	300	ug/Kg	1	06/11/20	WB	SW8270D
4-Bromophenyl phenyl ether	ND	390	ug/Kg	1	06/11/20	WB	SW8270D
4-Chloro-3-methylphenol	ND	270	ug/Kg	1	06/11/20	WB	SW8270D
4-Chloroaniline	ND	200	ug/Kg	1	06/11/20	WB	SW8270D
4-Chlorophenyl phenyl ether	ND	270	ug/Kg	1	06/11/20	WB	SW8270D
4-Nitroaniline	ND	300	ug/Kg	1	06/11/20	WB	SW8270D
4-Nitrophenol	ND	270	ug/Kg	1	06/11/20	WB	SW8270D
Acenaphthene	ND	270	ug/Kg	1	06/11/20	WB	SW8270D
Acenaphthylene	ND	270	ug/Kg	1	06/11/20	WB	SW8270D
Acetophenone	ND	270	ug/Kg	1	06/11/20	WB	SW8270D
Aniline	ND	200	ug/Kg	1	06/11/20	WB	SW8270D
Anthracene	ND	270	ug/Kg	1	06/11/20	WB	SW8270D
Benz(a)anthracene	670	270	ug/Kg	1	06/11/20	WB	SW8270D
Benzidine	ND	200	ug/Kg	1	06/11/20	WB	SW8270D
Benzo(a)pyrene	670	270	ug/Kg	1	06/11/20	WB	SW8270D
Benzo(b)fluoranthene	510	270	ug/Kg	1	06/11/20	WB	SW8270D
Benzo(ghi)perylene	330	270	ug/Kg	1	06/11/20	WB	SW8270D
Benzo(k)fluoranthene	470	270	ug/Kg	1	06/11/20	WB	SW8270D
Benzoic acid	ND	770	ug/Kg	1	06/11/20	WB	SW8270D
Benzyl butyl phthalate	ND	270	ug/Kg	1	06/11/20	WB	SW8270D
Bis(2-chloroethoxy)methane	ND	270	ug/Kg	1	06/11/20	WB	SW8270D
Bis(2-chloroethyl)ether	ND	390	ug/Kg	1	06/11/20	WB	SW8270D
Bis(2-chloroisopropyl)ether	ND	270	ug/Kg	1	06/11/20	WB	SW8270D
Bis(2-ethylhexyl)phthalate	ND	270	ug/Kg	1	06/11/20	WB	SW8270D
Carbazole	ND	200	ug/Kg	1	06/11/20	WB	SW8270D
Chrysene	670	270	ug/Kg	1	06/11/20	WB	SW8270D
Dibenz(a,h)anthracene	ND	270	ug/Kg	1	06/11/20	WB	SW8270D
Dibenzofuran	ND	200	ug/Kg	1	06/11/20	WB	SW8270D
Diethyl phthalate	ND	270	ug/Kg	1	06/11/20	WB	SW8270D
Dimethylphthalate	ND	270	ug/Kg	1	06/11/20	WB	SW8270D
Di-n-butylphthalate	ND	390	ug/Kg	1	06/11/20	WB	SW8270D

Project ID: TURNEY CREEK OUTFALL
Client ID: SED-5 (2-4`)

Phoenix I.D.: CG10806

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	
Di-n-octylphthalate	ND	270	ug/Kg	1	06/11/20	WB	SW8270D
Fluoranthene	1200	270	ug/Kg	1	06/11/20	WB	SW8270D
Fluorene	ND	270	ug/Kg	1	06/11/20	WB	SW8270D
Hexachlorobenzene	ND	270	ug/Kg	1	06/11/20	WB	SW8270D
Hexachlorobutadiene	ND	200	ug/Kg	1	06/11/20	WB	SW8270D
Hexachlorocyclopentadiene	ND	270	ug/Kg	1	06/11/20	WB	SW8270D
Hexachloroethane	ND	270	ug/Kg	1	06/11/20	WB	SW8270D
Indeno(1,2,3-cd)pyrene	350	270	ug/Kg	1	06/11/20	WB	SW8270D
Isophorone	ND	270	ug/Kg	1	06/11/20	WB	SW8270D
Naphthalene	ND	270	ug/Kg	1	06/11/20	WB	SW8270D
Nitrobenzene	ND	200	ug/Kg	1	06/11/20	WB	SW8270D
N-Nitrosodimethylamine	ND	200	ug/Kg	1	06/11/20	WB	SW8270D
N-Nitrosodi-n-propylamine	ND	200	ug/Kg	1	06/11/20	WB	SW8270D
N-Nitrosodiphenylamine	ND	200	ug/Kg	1	06/11/20	WB	SW8270D
Pentachloronitrobenzene	ND	140	ug/Kg	1	06/11/20	WB	SW8270D
Pentachlorophenol	ND	390	ug/Kg	1	06/11/20	WB	SW8270D
Phenanthrene	410	270	ug/Kg	1	06/11/20	WB	SW8270D
Phenol	ND	270	ug/Kg	1	06/11/20	WB	SW8270D
Pyrene	1500	270	ug/Kg	1	06/11/20	WB	SW8270D
Pyridine	ND	200	ug/Kg	1	06/11/20	WB	SW8270D
QA/QC Surrogates							
% 2,4,6-Tribromophenol	90		%	1	06/11/20	WB	30 - 130 %
% 2-Fluorobiphenyl	63		%	1	06/11/20	WB	30 - 130 %
% 2-Fluorophenol	63		%	1	06/11/20	WB	30 - 130 %
% Nitrobenzene-d5	62		%	1	06/11/20	WB	30 - 130 %
% Phenol-d5	68		%	1	06/11/20	WB	30 - 130 %
% Terphenyl-d14	79		%	1	06/11/20	WB	30 - 130 %

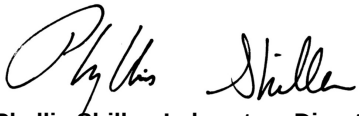
RL/PQL=Reporting/Practical Quantitation Level ND=Not Detected BRL=Below Reporting Level
QA/QC Surrogates: Surrogates are compounds (preceeded with a %) added by the lab to determine analysis efficiency. Surrogate results(%) listed in the report are not "detected" compounds.

Comments:

Per 1.4.6 of EPA method 8270D, 1,2-Diphenylhydrazine is unstable and readily converts to Azobenzene. Azobenzene is used for the calibration of 1,2-Diphenylhydrazine.

TPH Comment:
**Petroleum hydrocarbon chromatogram contains a multicomponent hydrocarbon distribution in the range of C16 to C36. The sample was quantitated against a C9-C36 alkane hydrocarbon standard.

All soils, solids and sludges are reported on a dry weight basis unless otherwise noted in the sample comments.



Phyllis Shiller, Laboratory Director

June 17, 2020

Reviewed and Released by: Phyllis Shiller, Laboratory Director

Ver 1

Reference PHOENIX
Environmental Laboratories, Inc.
587 East Middle Turnpike, P.O.Box 370, Manchester, CT 06045
Tel. (860) 645-1102 Fax (860) 645-0823

Analysis Report

June 17, 2020

FOR: Attn: Mr. Brian Sirowich
Tighe & Bond
213 Court St, Suite 1100
Middletown, CT 06457

Sample Information		Custody Information		Date	Time
Matrix:	SEDIMENT	Collected by:		06/10/20	12:15
Location Code:	TIGHE-DAS	Received by:	LB	06/10/20	16:00
Rush Request:	Standard	Analyzed by:	see "By" below		
P.O.#:					

Laboratory Data

SDG ID: GCG10797
Phoenix ID: CG10808

Project ID: TURNEY CREEK OUTFALL
Client ID: SED-6 (2-4`)

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Silver	< 0.43	0.43	mg/Kg	1	06/11/20	TH	SW6010D
Arsenic	< 0.86	0.86	mg/Kg	1	06/11/20	TH	SW6010D
Barium	12.8	0.43	mg/Kg	1	06/11/20	TH	SW6010D
Beryllium	< 0.34	0.34	mg/Kg	1	06/11/20	TH	SW6010D
Cadmium	1.98	0.43	mg/Kg	1	06/11/20	TH	SW6010D
Chromium	8.11	0.43	mg/Kg	1	06/11/20	TH	SW6010D
Copper	17.6	0.9	mg/kg	1	06/11/20	TH	SW6010D
Mercury	< 0.04	0.04	mg/Kg	2	06/15/20	RS	SW7471B
Nickel	4.78	0.43	mg/Kg	1	06/11/20	TH	SW6010D
Lead	9.04	0.43	mg/Kg	1	06/11/20	TH	SW6010D
Antimony	< 4.3	4.3	mg/Kg	1	06/11/20	TH	SW6010D
Selenium	< 1.7	1.7	mg/Kg	1	06/11/20	TH	SW6010D
Thallium	< 3.9	3.9	mg/Kg	1	06/11/20	TH	SW6010D
Vanadium	9.19	0.43	mg/Kg	1	06/11/20	TH	SW6010D
Zinc	137	0.9	mg/Kg	1	06/11/20	TH	SW6010D
Percent Solid	72		%		06/10/20	HB	SW846-%Solid
Soil Extraction for Pesticide	Completed				06/11/20	LL/AA	SW3545A
Soil Extraction for SVOA	Completed				06/10/20	RK/MA	SW3546
Mercury Digestion	Completed				06/15/20	VT/KL/VT	SW7471B
Extraction of CT ETPH	Completed				06/10/20	LG/EE	SW3546
Extraction for PCB	Completed				06/10/20	HH/KL/HB	SW3540C
Total Metals Digest	Completed				06/10/20	B/AG/BF	SW3050B
TPH by GC (Extractable Products)							
Ext. Petroleum H.C. (C9-C36)	ND	69	mg/Kg	1	06/12/20	JRB	CTETPH 8015D
Identification	ND		mg/Kg	1	06/12/20	JRB	CTETPH 8015D
QA/QC Surrogates							
% n-Pentacosane	78		%	1	06/12/20	JRB	50 - 150 %

Ver 1

Project ID: TURNEY CREEK OUTFALL
Client ID: SED-6 (2-4`)

Phoenix I.D.: CG10808

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	
PCB (Soxhlet SW3540C)							
PCB-1016	ND	450	ug/Kg	10	06/11/20	AW	SW8082A
PCB-1221	ND	450	ug/Kg	10	06/11/20	AW	SW8082A
PCB-1232	ND	450	ug/Kg	10	06/11/20	AW	SW8082A
PCB-1242	ND	450	ug/Kg	10	06/11/20	AW	SW8082A
PCB-1248	ND	450	ug/Kg	10	06/11/20	AW	SW8082A
PCB-1254	ND	450	ug/Kg	10	06/11/20	AW	SW8082A
PCB-1260	ND	450	ug/Kg	10	06/11/20	AW	SW8082A
PCB-1262	ND	450	ug/Kg	10	06/11/20	AW	SW8082A
PCB-1268	ND	450	ug/Kg	10	06/11/20	AW	SW8082A
QA/QC Surrogates							
% DCBP	89		%	10	06/11/20	AW	30 - 150 %
% DCBP (Confirmation)	91		%	10	06/11/20	AW	30 - 150 %
% TCMX	82		%	10	06/11/20	AW	30 - 150 %
% TCMX (Confirmation)	82		%	10	06/11/20	AW	30 - 150 %
Pesticides							
4,4' -DDD	ND	1.8	ug/Kg	2	06/12/20	CG	SW8081B
4,4' -DDE	ND	1.8	ug/Kg	2	06/12/20	CG	SW8081B
4,4' -DDT	ND	1.8	ug/Kg	2	06/12/20	CG	SW8081B
a-BHC	ND	1.8	ug/Kg	2	06/12/20	CG	SW8081B
Alachlor	ND	9.0	ug/Kg	2	06/12/20	CG	SW8081B
Aldrin	ND	1.8	ug/Kg	2	06/12/20	CG	SW8081B
b-BHC	ND	1.8	ug/Kg	2	06/12/20	CG	SW8081B
Chlordane	ND	45	ug/Kg	2	06/12/20	CG	SW8081B
d-BHC	ND	1.8	ug/Kg	2	06/12/20	CG	SW8081B
Dieldrin	ND	4.5	ug/Kg	2	06/12/20	CG	SW8081B
Endosulfan I	ND	9.0	ug/Kg	2	06/12/20	CG	SW8081B
Endosulfan II	ND	9.0	ug/Kg	2	06/12/20	CG	SW8081B
Endosulfan sulfate	ND	9.0	ug/Kg	2	06/12/20	CG	SW8081B
Endrin	ND	9.0	ug/Kg	2	06/12/20	CG	SW8081B
Endrin aldehyde	ND	9.0	ug/Kg	2	06/12/20	CG	SW8081B
Endrin ketone	ND	9.0	ug/Kg	2	06/12/20	CG	SW8081B
g-BHC	ND	1.8	ug/Kg	2	06/12/20	CG	SW8081B
Heptachlor	ND	9.0	ug/Kg	2	06/12/20	CG	SW8081B
Heptachlor epoxide	ND	9.0	ug/Kg	2	06/12/20	CG	SW8081B
Methoxychlor	ND	45	ug/Kg	2	06/12/20	CG	SW8081B
Toxaphene	ND	180	ug/Kg	2	06/12/20	CG	SW8081B
QA/QC Surrogates							
% DCBP	42		%	2	06/12/20	CG	30 - 150 %
% DCBP (Confirmation)	39		%	2	06/12/20	CG	30 - 150 %
% TCMX	35		%	2	06/12/20	CG	30 - 150 %
% TCMX (Confirmation)	31		%	2	06/12/20	CG	30 - 150 %
Volatiles							
1,1,1,2-Tetrachloroethane	ND	7.8	ug/Kg	1	06/12/20	JLI	SW8260C
1,1,1-Trichloroethane	ND	7.8	ug/Kg	1	06/12/20	JLI	SW8260C
1,1,2,2-Tetrachloroethane	ND	4.7	ug/Kg	1	06/12/20	JLI	SW8260C
1,1,2-Trichloroethane	ND	7.8	ug/Kg	1	06/12/20	JLI	SW8260C

Project ID: TURNEY CREEK OUTFALL
Client ID: SED-6 (2-4`)

Phoenix I.D.: CG10808

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	
1,1-Dichloroethane	ND	7.8	ug/Kg	1	06/12/20	JLI	SW8260C
1,1-Dichloroethene	ND	7.8	ug/Kg	1	06/12/20	JLI	SW8260C
1,1-Dichloropropene	ND	7.8	ug/Kg	1	06/12/20	JLI	SW8260C
1,2,3-Trichlorobenzene	ND	7.8	ug/Kg	1	06/12/20	JLI	SW8260C
1,2,3-Trichloropropane	ND	7.8	ug/Kg	1	06/12/20	JLI	SW8260C
1,2,4-Trichlorobenzene	ND	7.8	ug/Kg	1	06/12/20	JLI	SW8260C
1,2,4-Trimethylbenzene	ND	7.8	ug/Kg	1	06/12/20	JLI	SW8260C
1,2-Dibromo-3-chloropropane	ND	5.0	ug/Kg	1	06/12/20	JLI	SW8260C
1,2-Dibromoethane	ND	7.0	ug/Kg	1	06/12/20	JLI	SW8260C
1,2-Dichlorobenzene	ND	7.8	ug/Kg	1	06/12/20	JLI	SW8260C
1,2-Dichloroethane	ND	7.8	ug/Kg	1	06/12/20	JLI	SW8260C
1,2-Dichloropropane	ND	7.8	ug/Kg	1	06/12/20	JLI	SW8260C
1,3,5-Trimethylbenzene	ND	7.8	ug/Kg	1	06/12/20	JLI	SW8260C
1,3-Dichlorobenzene	ND	7.8	ug/Kg	1	06/12/20	JLI	SW8260C
1,3-Dichloropropane	ND	7.8	ug/Kg	1	06/12/20	JLI	SW8260C
1,4-Dichlorobenzene	ND	7.8	ug/Kg	1	06/12/20	JLI	SW8260C
2,2-Dichloropropane	ND	7.8	ug/Kg	1	06/12/20	JLI	SW8260C
2-Chlorotoluene	ND	7.8	ug/Kg	1	06/12/20	JLI	SW8260C
2-Hexanone	ND	39	ug/Kg	1	06/12/20	JLI	SW8260C
2-Isopropyltoluene	ND	7.8	ug/Kg	1	06/12/20	JLI	SW8260C
4-Chlorotoluene	ND	7.8	ug/Kg	1	06/12/20	JLI	SW8260C
4-Methyl-2-pentanone	ND	39	ug/Kg	1	06/12/20	JLI	SW8260C
Acetone	ND	390	ug/Kg	1	06/12/20	JLI	SW8260C
Acrylonitrile	ND	7.8	ug/Kg	1	06/12/20	JLI	SW8260C
Benzene	ND	7.8	ug/Kg	1	06/12/20	JLI	SW8260C
Bromobenzene	ND	7.8	ug/Kg	1	06/12/20	JLI	SW8260C
Bromochloromethane	ND	7.8	ug/Kg	1	06/12/20	JLI	SW8260C
Bromodichloromethane	ND	7.8	ug/Kg	1	06/12/20	JLI	SW8260C
Bromoform	ND	7.8	ug/Kg	1	06/12/20	JLI	SW8260C
Bromomethane	ND	7.8	ug/Kg	1	06/12/20	JLI	SW8260C
Carbon Disulfide	ND	7.8	ug/Kg	1	06/12/20	JLI	SW8260C
Carbon tetrachloride	ND	7.8	ug/Kg	1	06/12/20	JLI	SW8260C
Chlorobenzene	ND	7.8	ug/Kg	1	06/12/20	JLI	SW8260C
Chloroethane	ND	7.8	ug/Kg	1	06/12/20	JLI	SW8260C
Chloroform	ND	7.8	ug/Kg	1	06/12/20	JLI	SW8260C
Chloromethane	ND	7.8	ug/Kg	1	06/12/20	JLI	SW8260C
cis-1,2-Dichloroethene	ND	7.8	ug/Kg	1	06/12/20	JLI	SW8260C
cis-1,3-Dichloropropene	ND	7.8	ug/Kg	1	06/12/20	JLI	SW8260C
Dibromochloromethane	ND	4.7	ug/Kg	1	06/12/20	JLI	SW8260C
Dibromomethane	ND	7.8	ug/Kg	1	06/12/20	JLI	SW8260C
Dichlorodifluoromethane	ND	7.8	ug/Kg	1	06/12/20	JLI	SW8260C
Ethylbenzene	ND	7.8	ug/Kg	1	06/12/20	JLI	SW8260C
Hexachlorobutadiene	ND	7.8	ug/Kg	1	06/12/20	JLI	SW8260C
Isopropylbenzene	ND	7.8	ug/Kg	1	06/12/20	JLI	SW8260C
m&p-Xylene	ND	7.8	ug/Kg	1	06/12/20	JLI	SW8260C
Methyl Ethyl Ketone	ND	47	ug/Kg	1	06/12/20	JLI	SW8260C
Methyl t-butyl ether (MTBE)	ND	16	ug/Kg	1	06/12/20	JLI	SW8260C
Methylene chloride	ND	16	ug/Kg	1	06/12/20	JLI	SW8260C
Naphthalene	ND	7.8	ug/Kg	1	06/12/20	JLI	SW8260C

Project ID: TURNEY CREEK OUTFALL
Client ID: SED-6 (2-4`)

Phoenix I.D.: CG10808

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	
n-Butylbenzene	ND	7.8	ug/Kg	1	06/12/20	JLI	SW8260C
n-Propylbenzene	ND	7.8	ug/Kg	1	06/12/20	JLI	SW8260C
o-Xylene	ND	7.8	ug/Kg	1	06/12/20	JLI	SW8260C
p-Isopropyltoluene	ND	7.8	ug/Kg	1	06/12/20	JLI	SW8260C
sec-Butylbenzene	ND	7.8	ug/Kg	1	06/12/20	JLI	SW8260C
Styrene	ND	7.8	ug/Kg	1	06/12/20	JLI	SW8260C
tert-Butylbenzene	ND	7.8	ug/Kg	1	06/12/20	JLI	SW8260C
Tetrachloroethene	ND	7.8	ug/Kg	1	06/12/20	JLI	SW8260C
Tetrahydrofuran (THF)	ND	16	ug/Kg	1	06/12/20	JLI	SW8260C
Toluene	ND	7.8	ug/Kg	1	06/12/20	JLI	SW8260C
Total Xylenes	ND	7.8	ug/Kg	1	06/12/20	JLI	SW8260C
trans-1,2-Dichloroethene	ND	7.8	ug/Kg	1	06/12/20	JLI	SW8260C
trans-1,3-Dichloropropene	ND	7.8	ug/Kg	1	06/12/20	JLI	SW8260C
trans-1,4-dichloro-2-butene	ND	16	ug/Kg	1	06/12/20	JLI	SW8260C
Trichloroethene	ND	7.8	ug/Kg	1	06/12/20	JLI	SW8260C
Trichlorofluoromethane	ND	7.8	ug/Kg	1	06/12/20	JLI	SW8260C
Trichlorotrifluoroethane	ND	16	ug/Kg	1	06/12/20	JLI	SW8260C
Vinyl chloride	ND	7.8	ug/Kg	1	06/12/20	JLI	SW8260C
QA/QC Surrogates							
% 1,2-dichlorobenzene-d4	99		%	1	06/12/20	JLI	70 - 130 %
% Bromofluorobenzene	89		%	1	06/12/20	JLI	70 - 130 %
% Dibromofluoromethane	98		%	1	06/12/20	JLI	70 - 130 %
% Toluene-d8	95		%	1	06/12/20	JLI	70 - 130 %

Semivolatiles

1,2,4,5-Tetrachlorobenzene	ND	100	ug/Kg	1	06/11/20	WB	SW8270D
1,2,4-Trichlorobenzene	ND	320	ug/Kg	1	06/11/20	WB	SW8270D
1,2-Dichlorobenzene	ND	320	ug/Kg	1	06/11/20	WB	SW8270D
1,2-Diphenylhydrazine	ND	200	ug/Kg	1	06/11/20	WB	SW8270D
1,3-Dichlorobenzene	ND	320	ug/Kg	1	06/11/20	WB	SW8270D
1,4-Dichlorobenzene	ND	320	ug/Kg	1	06/11/20	WB	SW8270D
2,4,5-Trichlorophenol	ND	320	ug/Kg	1	06/11/20	WB	SW8270D
2,4,6-Trichlorophenol	ND	200	ug/Kg	1	06/11/20	WB	SW8270D
2,4-Dichlorophenol	ND	320	ug/Kg	1	06/11/20	WB	SW8270D
2,4-Dimethylphenol	ND	320	ug/Kg	1	06/11/20	WB	SW8270D
2,4-Dinitrophenol	ND	300	ug/Kg	1	06/11/20	WB	SW8270D
2,4-Dinitrotoluene	ND	200	ug/Kg	1	06/11/20	WB	SW8270D
2,6-Dinitrotoluene	ND	200	ug/Kg	1	06/11/20	WB	SW8270D
2-Chloronaphthalene	ND	320	ug/Kg	1	06/11/20	WB	SW8270D
2-Chlorophenol	ND	320	ug/Kg	1	06/11/20	WB	SW8270D
2-Methylnaphthalene	ND	320	ug/Kg	1	06/11/20	WB	SW8270D
2-Methylphenol (o-cresol)	ND	320	ug/Kg	1	06/11/20	WB	SW8270D
2-Nitroaniline	ND	300	ug/Kg	1	06/11/20	WB	SW8270D
2-Nitrophenol	ND	320	ug/Kg	1	06/11/20	WB	SW8270D
3&4-Methylphenol (m&p-cresol)	ND	460	ug/Kg	1	06/11/20	WB	SW8270D
3,3'-Dichlorobenzidine	ND	200	ug/Kg	1	06/11/20	WB	SW8270D
3-Nitroaniline	ND	300	ug/Kg	1	06/11/20	WB	SW8270D
4,6-Dinitro-2-methylphenol	ND	300	ug/Kg	1	06/11/20	WB	SW8270D
4-Bromophenyl phenyl ether	ND	460	ug/Kg	1	06/11/20	WB	SW8270D
4-Chloro-3-methylphenol	ND	320	ug/Kg	1	06/11/20	WB	SW8270D

Project ID: TURNEY CREEK OUTFALL
Client ID: SED-6 (2-4`)

Phoenix I.D.: CG10808

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	
4-Chloroaniline	ND	200	ug/Kg	1	06/11/20	WB	SW8270D
4-Chlorophenyl phenyl ether	ND	320	ug/Kg	1	06/11/20	WB	SW8270D
4-Nitroaniline	ND	300	ug/Kg	1	06/11/20	WB	SW8270D
4-Nitrophenol	ND	320	ug/Kg	1	06/11/20	WB	SW8270D
Acenaphthene	ND	320	ug/Kg	1	06/11/20	WB	SW8270D
Acenaphthylene	ND	320	ug/Kg	1	06/11/20	WB	SW8270D
Acetophenone	ND	320	ug/Kg	1	06/11/20	WB	SW8270D
Aniline	ND	200	ug/Kg	1	06/11/20	WB	SW8270D
Anthracene	ND	320	ug/Kg	1	06/11/20	WB	SW8270D
Benz(a)anthracene	ND	320	ug/Kg	1	06/11/20	WB	SW8270D
Benzidine	ND	200	ug/Kg	1	06/11/20	WB	SW8270D
Benzo(a)pyrene	ND	320	ug/Kg	1	06/11/20	WB	SW8270D
Benzo(b)fluoranthene	ND	320	ug/Kg	1	06/11/20	WB	SW8270D
Benzo(ghi)perylene	ND	320	ug/Kg	1	06/11/20	WB	SW8270D
Benzo(k)fluoranthene	ND	320	ug/Kg	1	06/11/20	WB	SW8270D
Benzoic acid	ND	920	ug/Kg	1	06/11/20	WB	SW8270D
Benzyl butyl phthalate	ND	320	ug/Kg	1	06/11/20	WB	SW8270D
Bis(2-chloroethoxy)methane	ND	320	ug/Kg	1	06/11/20	WB	SW8270D
Bis(2-chloroethyl)ether	ND	460	ug/Kg	1	06/11/20	WB	SW8270D
Bis(2-chloroisopropyl)ether	ND	320	ug/Kg	1	06/11/20	WB	SW8270D
Bis(2-ethylhexyl)phthalate	ND	320	ug/Kg	1	06/11/20	WB	SW8270D
Carbazole	ND	200	ug/Kg	1	06/11/20	WB	SW8270D
Chrysene	ND	320	ug/Kg	1	06/11/20	WB	SW8270D
Dibenz(a,h)anthracene	ND	320	ug/Kg	1	06/11/20	WB	SW8270D
Dibenzofuran	ND	200	ug/Kg	1	06/11/20	WB	SW8270D
Diethyl phthalate	ND	320	ug/Kg	1	06/11/20	WB	SW8270D
Dimethylphthalate	ND	320	ug/Kg	1	06/11/20	WB	SW8270D
Di-n-butylphthalate	ND	460	ug/Kg	1	06/11/20	WB	SW8270D
Di-n-octylphthalate	ND	320	ug/Kg	1	06/11/20	WB	SW8270D
Fluoranthene	500	320	ug/Kg	1	06/11/20	WB	SW8270D
Fluorene	ND	320	ug/Kg	1	06/11/20	WB	SW8270D
Hexachlorobenzene	ND	320	ug/Kg	1	06/11/20	WB	SW8270D
Hexachlorobutadiene	ND	200	ug/Kg	1	06/11/20	WB	SW8270D
Hexachlorocyclopentadiene	ND	320	ug/Kg	1	06/11/20	WB	SW8270D
Hexachloroethane	ND	320	ug/Kg	1	06/11/20	WB	SW8270D
Indeno(1,2,3-cd)pyrene	ND	320	ug/Kg	1	06/11/20	WB	SW8270D
Isophorone	ND	320	ug/Kg	1	06/11/20	WB	SW8270D
Naphthalene	ND	320	ug/Kg	1	06/11/20	WB	SW8270D
Nitrobenzene	ND	200	ug/Kg	1	06/11/20	WB	SW8270D
N-Nitrosodimethylamine	ND	200	ug/Kg	1	06/11/20	WB	SW8270D
N-Nitrosodi-n-propylamine	ND	200	ug/Kg	1	06/11/20	WB	SW8270D
N-Nitrosodiphenylamine	ND	200	ug/Kg	1	06/11/20	WB	SW8270D
Pentachloronitrobenzene	ND	140	ug/Kg	1	06/11/20	WB	SW8270D
Pentachlorophenol	ND	460	ug/Kg	1	06/11/20	WB	SW8270D
Phenanthrene	ND	320	ug/Kg	1	06/11/20	WB	SW8270D
Phenol	ND	320	ug/Kg	1	06/11/20	WB	SW8270D
Pyrene	490	320	ug/Kg	1	06/11/20	WB	SW8270D
Pyridine	ND	200	ug/Kg	1	06/11/20	WB	SW8270D

QA/QC Surrogates

Project ID: TURNEY CREEK OUTFALL
Client ID: SED-6 (2-4`)

Phoenix I.D.: CG10808

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	
% 2,4,6-Tribromophenol	82		%	1	06/11/20	WB	30 - 130 %
% 2-Fluorobiphenyl	56		%	1	06/11/20	WB	30 - 130 %
% 2-Fluorophenol	57		%	1	06/11/20	WB	30 - 130 %
% Nitrobenzene-d5	55		%	1	06/11/20	WB	30 - 130 %
% Phenol-d5	64		%	1	06/11/20	WB	30 - 130 %
% Terphenyl-d14	72		%	1	06/11/20	WB	30 - 130 %
Field Extraction	Completed				06/10/20		SW5035A

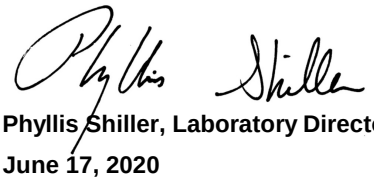
RL/PQL=Reporting/Practical Quantitation Level ND=Not Detected BRL=Below Reporting Level
QA/QC Surrogates: Surrogates are compounds (preceeded with a %) added by the lab to determine analysis efficiency. Surrogate results(%) listed in the report are not "detected" compounds.

Comments:

Per 1.4.6 of EPA method 8270D, 1,2-Diphenylhydrazine is unstable and readily converts to Azobenzene. Azobenzene is used for the calibration of 1,2-Diphenylhydrazine.

All soils, solids and sludges are reported on a dry weight basis unless otherwise noted in the sample comments.

If you are the client above and have any questions concerning this testing, please do not hesitate to contact Phoenix Client Services at ext.200.
The contents of this report cannot be discussed with anyone other than the client listed above without their written consent.



Phyllis Shiller, Laboratory Director
June 17, 2020
Reviewed and Released by: Phyllis Shiller, Laboratory Director

Reference PHOENIX
Environmental Laboratories, Inc.
587 East Middle Turnpike, P.O.Box 370, Manchester, CT 06045
Tel. (860) 645-1102 Fax (860) 645-0823

Analysis Report

June 17, 2020

FOR: Attn: Mr. Brian Sirowich
Tighe & Bond
213 Court St, Suite 1100
Middletown, CT 06457

Sample Information		Custody Information		Date	Time
Matrix:	SEDIMENT	Collected by:		06/10/20	13:00
Location Code:	TIGHE-DAS	Received by:	LB	06/10/20	16:00
Rush Request:	Standard	Analyzed by:	see "By" below		
P.O.#:					

Laboratory Data

SDG ID: GCG10797
Phoenix ID: CG10809

Project ID: TURNEY CREEK OUTFALL
Client ID: WC-1

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Silver	1.49	0.43	mg/Kg	1	06/11/20	TH	SW6010D
Arsenic	1.50	0.86	mg/Kg	1	06/11/20	TH	SW6010D
Barium	26.1	0.43	mg/Kg	1	06/11/20	TH	SW6010D
Beryllium	< 0.34	0.34	mg/Kg	1	06/11/20	TH	SW6010D
Cadmium	2.29	0.43	mg/Kg	1	06/11/20	TH	SW6010D
Chromium	12.7	0.43	mg/Kg	1	06/11/20	TH	SW6010D
Copper	63.7	0.9	mg/kg	1	06/11/20	TH	SW6010D
Mercury	0.18	0.03	mg/Kg	2	06/15/20	RS	SW7471B
Nickel	9.07	0.43	mg/Kg	1	06/11/20	TH	SW6010D
Lead	25.6	0.43	mg/Kg	1	06/11/20	TH	SW6010D
Antimony	< 4.3	4.3	mg/Kg	1	06/11/20	TH	SW6010D
Selenium	< 1.7	1.7	mg/Kg	1	06/11/20	TH	SW6010D
Thallium	< 3.9	3.9	mg/Kg	1	06/11/20	TH	SW6010D
Vanadium	15.7	0.43	mg/Kg	1	06/11/20	TH	SW6010D
Zinc	130	0.9	mg/Kg	1	06/11/20	TH	SW6010D
Percent Solid	73		%		06/10/20	HB	SW846-%Solid
Corrosivity	Negative		Pos/Neg	1	06/10/20	AP	SW846-Corr
Flash Point	>200	200	Degree F	1	06/12/20	BJA	1010/CH7/ASTMD92
Ignitability	Passed	140	degree F	1	06/12/20	BJA	SW846-Ignit
pH at 25C - Soil	7.71	1.00	pH Units	1	06/10/20 23:48	AP	SW846 9045
Reactivity Cyanide	< 6	6	mg/Kg	1	06/12/20	KT/GD	SW846 7.3.3.1/90
Reactivity Sulfide	30.1	20	mg/Kg	1	06/12/20	KT/GD	SW846 CH7
Reactivity	Negative		Pos/Neg	1	06/12/20	KT/GD	SW846-React
Soil Extraction for Pesticide	Completed				06/11/20	LL/AA	SW3545A
Soil Extraction for SVOA	Completed				06/10/20	RK/EE	SW3546
Mercury Digestion	Completed				06/15/20	VT/KL/VT	SW7471B
Extraction of CT ETPH	Completed				06/10/20	LG/MA	SW3546
Paint Filter Test	Failed		PASS/FAIL		06/10/20	R	SW9095B

Ver 1

Project ID: TURNEY CREEK OUTFALL
Client ID: WC-1

Phoenix I.D.: CG10809

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	
Extraction for PCB	Completed				06/10/20	HH/KL/HB	SW3540C
Total Metals Digest	Completed				06/10/20	B/AG/BF	SW3050B
TPH by GC (Extractable Products)							
Ext. Petroleum H.C. (C9-C36)	ND	67	mg/Kg	1	06/12/20	JRB	CTETPH 8015D
Identification	ND		mg/Kg	1	06/12/20	JRB	CTETPH 8015D
QA/QC Surrogates							
% n-Pentacosane	57		%	1	06/12/20	JRB	50 - 150 %
PCB (Soxhlet SW3540C)							
PCB-1016	ND	450	ug/Kg	10	06/11/20	AW	SW8082A
PCB-1221	ND	450	ug/Kg	10	06/11/20	AW	SW8082A
PCB-1232	ND	450	ug/Kg	10	06/11/20	AW	SW8082A
PCB-1242	ND	450	ug/Kg	10	06/11/20	AW	SW8082A
PCB-1248	ND	450	ug/Kg	10	06/11/20	AW	SW8082A
PCB-1254	ND	450	ug/Kg	10	06/11/20	AW	SW8082A
PCB-1260	ND	450	ug/Kg	10	06/11/20	AW	SW8082A
PCB-1262	ND	450	ug/Kg	10	06/11/20	AW	SW8082A
PCB-1268	ND	450	ug/Kg	10	06/11/20	AW	SW8082A
QA/QC Surrogates							
% DCBP	83		%	10	06/11/20	AW	30 - 150 %
% DCBP (Confirmation)	77		%	10	06/11/20	AW	30 - 150 %
% TCMX	75		%	10	06/11/20	AW	30 - 150 %
% TCMX (Confirmation)	74		%	10	06/11/20	AW	30 - 150 %
Pesticides							
4,4' -DDD	ND	1.8	ug/Kg	2	06/12/20	CG	SW8081B
4,4' -DDE	ND	1.8	ug/Kg	2	06/12/20	CG	SW8081B
4,4' -DDT	ND	1.8	ug/Kg	2	06/12/20	CG	SW8081B
a-BHC	ND	1.8	ug/Kg	2	06/12/20	CG	SW8081B
Alachlor	ND	9.1	ug/Kg	2	06/12/20	CG	SW8081B
Aldrin	ND	1.8	ug/Kg	2	06/12/20	CG	SW8081B
b-BHC	ND	1.8	ug/Kg	2	06/12/20	CG	SW8081B
Chlordane	ND	45	ug/Kg	2	06/12/20	CG	SW8081B
d-BHC	ND	1.8	ug/Kg	2	06/12/20	CG	SW8081B
Dieldrin	ND	4.5	ug/Kg	2	06/12/20	CG	SW8081B
Endosulfan I	ND	9.1	ug/Kg	2	06/12/20	CG	SW8081B
Endosulfan II	ND	9.1	ug/Kg	2	06/12/20	CG	SW8081B
Endosulfan sulfate	ND	9.1	ug/Kg	2	06/12/20	CG	SW8081B
Endrin	ND	9.1	ug/Kg	2	06/12/20	CG	SW8081B
Endrin aldehyde	ND	9.1	ug/Kg	2	06/12/20	CG	SW8081B
Endrin ketone	ND	9.1	ug/Kg	2	06/12/20	CG	SW8081B
g-BHC	ND	1.8	ug/Kg	2	06/12/20	CG	SW8081B
Heptachlor	ND	9.1	ug/Kg	2	06/12/20	CG	SW8081B
Heptachlor epoxide	ND	9.1	ug/Kg	2	06/12/20	CG	SW8081B
Methoxychlor	ND	45	ug/Kg	2	06/12/20	CG	SW8081B
Toxaphene	ND	180	ug/Kg	2	06/12/20	CG	SW8081B
QA/QC Surrogates							
% DCBP	48		%	2	06/12/20	CG	30 - 150 %
% DCBP (Confirmation)	49		%	2	06/12/20	CG	30 - 150 %

Project ID: TURNEY CREEK OUTFALL
Client ID: WC-1

Phoenix I.D.: CG10809

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	
% TCMX	44		%	2	06/12/20	CG	30 - 150 %
% TCMX (Confirmation)	43		%	2	06/12/20	CG	30 - 150 %
Volatiles							
1,1,1,2-Tetrachloroethane	ND	7.5	ug/Kg	1	06/12/20	JLI	SW8260C
1,1,1-Trichloroethane	ND	7.5	ug/Kg	1	06/12/20	JLI	SW8260C
1,1,2,2-Tetrachloroethane	ND	4.5	ug/Kg	1	06/12/20	JLI	SW8260C
1,1,2-Trichloroethane	ND	7.5	ug/Kg	1	06/12/20	JLI	SW8260C
1,1-Dichloroethane	ND	7.5	ug/Kg	1	06/12/20	JLI	SW8260C
1,1-Dichloroethene	ND	7.5	ug/Kg	1	06/12/20	JLI	SW8260C
1,1-Dichloropropene	ND	7.5	ug/Kg	1	06/12/20	JLI	SW8260C
1,2,3-Trichlorobenzene	ND	7.5	ug/Kg	1	06/12/20	JLI	SW8260C
1,2,3-Trichloropropane	ND	7.5	ug/Kg	1	06/12/20	JLI	SW8260C
1,2,4-Trichlorobenzene	ND	7.5	ug/Kg	1	06/12/20	JLI	SW8260C
1,2,4-Trimethylbenzene	ND	7.5	ug/Kg	1	06/12/20	JLI	SW8260C
1,2-Dibromo-3-chloropropane	ND	5.0	ug/Kg	1	06/12/20	JLI	SW8260C
1,2-Dibromoethane	ND	7.0	ug/Kg	1	06/12/20	JLI	SW8260C
1,2-Dichlorobenzene	ND	7.5	ug/Kg	1	06/12/20	JLI	SW8260C
1,2-Dichloroethane	ND	7.5	ug/Kg	1	06/12/20	JLI	SW8260C
1,2-Dichloropropane	ND	7.5	ug/Kg	1	06/12/20	JLI	SW8260C
1,3,5-Trimethylbenzene	ND	7.5	ug/Kg	1	06/12/20	JLI	SW8260C
1,3-Dichlorobenzene	ND	7.5	ug/Kg	1	06/12/20	JLI	SW8260C
1,3-Dichloropropane	ND	7.5	ug/Kg	1	06/12/20	JLI	SW8260C
1,4-Dichlorobenzene	ND	7.5	ug/Kg	1	06/12/20	JLI	SW8260C
2,2-Dichloropropane	ND	7.5	ug/Kg	1	06/12/20	JLI	SW8260C
2-Chlorotoluene	ND	7.5	ug/Kg	1	06/12/20	JLI	SW8260C
2-Hexanone	ND	38	ug/Kg	1	06/12/20	JLI	SW8260C
2-Isopropyltoluene	ND	7.5	ug/Kg	1	06/12/20	JLI	SW8260C
4-Chlorotoluene	ND	7.5	ug/Kg	1	06/12/20	JLI	SW8260C
4-Methyl-2-pentanone	ND	38	ug/Kg	1	06/12/20	JLI	SW8260C
Acetone	ND	380	ug/Kg	1	06/12/20	JLI	SW8260C
Acrylonitrile	ND	7.5	ug/Kg	1	06/12/20	JLI	SW8260C
Benzene	ND	7.5	ug/Kg	1	06/12/20	JLI	SW8260C
Bromobenzene	ND	7.5	ug/Kg	1	06/12/20	JLI	SW8260C
Bromochloromethane	ND	7.5	ug/Kg	1	06/12/20	JLI	SW8260C
Bromodichloromethane	ND	7.5	ug/Kg	1	06/12/20	JLI	SW8260C
Bromoform	ND	7.5	ug/Kg	1	06/12/20	JLI	SW8260C
Bromomethane	ND	7.5	ug/Kg	1	06/12/20	JLI	SW8260C
Carbon Disulfide	ND	7.5	ug/Kg	1	06/12/20	JLI	SW8260C
Carbon tetrachloride	ND	7.5	ug/Kg	1	06/12/20	JLI	SW8260C
Chlorobenzene	ND	7.5	ug/Kg	1	06/12/20	JLI	SW8260C
Chloroethane	ND	7.5	ug/Kg	1	06/12/20	JLI	SW8260C
Chloroform	ND	7.5	ug/Kg	1	06/12/20	JLI	SW8260C
Chloromethane	ND	7.5	ug/Kg	1	06/12/20	JLI	SW8260C
cis-1,2-Dichloroethene	ND	7.5	ug/Kg	1	06/12/20	JLI	SW8260C
cis-1,3-Dichloropropene	ND	7.5	ug/Kg	1	06/12/20	JLI	SW8260C
Dibromochloromethane	ND	4.5	ug/Kg	1	06/12/20	JLI	SW8260C
Dibromomethane	ND	7.5	ug/Kg	1	06/12/20	JLI	SW8260C
Dichlorodifluoromethane	ND	7.5	ug/Kg	1	06/12/20	JLI	SW8260C
Ethylbenzene	ND	7.5	ug/Kg	1	06/12/20	JLI	SW8260C

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	
Hexachlorobutadiene	ND	7.5	ug/Kg	1	06/12/20	JLI	SW8260C
Isopropylbenzene	ND	7.5	ug/Kg	1	06/12/20	JLI	SW8260C
m&p-Xylene	ND	7.5	ug/Kg	1	06/12/20	JLI	SW8260C
Methyl Ethyl Ketone	ND	45	ug/Kg	1	06/12/20	JLI	SW8260C
Methyl t-butyl ether (MTBE)	ND	15	ug/Kg	1	06/12/20	JLI	SW8260C
Methylene chloride	ND	15	ug/Kg	1	06/12/20	JLI	SW8260C
Naphthalene	ND	7.5	ug/Kg	1	06/12/20	JLI	SW8260C
n-Butylbenzene	ND	7.5	ug/Kg	1	06/12/20	JLI	SW8260C
n-Propylbenzene	ND	7.5	ug/Kg	1	06/12/20	JLI	SW8260C
o-Xylene	ND	7.5	ug/Kg	1	06/12/20	JLI	SW8260C
p-Isopropyltoluene	ND	7.5	ug/Kg	1	06/12/20	JLI	SW8260C
sec-Butylbenzene	ND	7.5	ug/Kg	1	06/12/20	JLI	SW8260C
Styrene	ND	7.5	ug/Kg	1	06/12/20	JLI	SW8260C
tert-Butylbenzene	ND	7.5	ug/Kg	1	06/12/20	JLI	SW8260C
Tetrachloroethene	ND	7.5	ug/Kg	1	06/12/20	JLI	SW8260C
Tetrahydrofuran (THF)	ND	15	ug/Kg	1	06/12/20	JLI	SW8260C
Toluene	ND	7.5	ug/Kg	1	06/12/20	JLI	SW8260C
Total Xylenes	ND	7.5	ug/Kg	1	06/12/20	JLI	SW8260C
trans-1,2-Dichloroethene	ND	7.5	ug/Kg	1	06/12/20	JLI	SW8260C
trans-1,3-Dichloropropene	ND	7.5	ug/Kg	1	06/12/20	JLI	SW8260C
trans-1,4-dichloro-2-butene	ND	15	ug/Kg	1	06/12/20	JLI	SW8260C
Trichloroethene	ND	7.5	ug/Kg	1	06/12/20	JLI	SW8260C
Trichlorofluoromethane	ND	7.5	ug/Kg	1	06/12/20	JLI	SW8260C
Trichlorotrifluoroethane	ND	15	ug/Kg	1	06/12/20	JLI	SW8260C
Vinyl chloride	ND	7.5	ug/Kg	1	06/12/20	JLI	SW8260C
QA/QC Surrogates							
% 1,2-dichlorobenzene-d4	97		%	1	06/12/20	JLI	70 - 130 %
% Bromofluorobenzene	89		%	1	06/12/20	JLI	70 - 130 %
% Dibromofluoromethane	98		%	1	06/12/20	JLI	70 - 130 %
% Toluene-d8	96		%	1	06/12/20	JLI	70 - 130 %

Semivolatiles

1,2,4,5-Tetrachlorobenzene	ND	100	ug/Kg	1	06/11/20	WB	SW8270D
1,2,4-Trichlorobenzene	ND	320	ug/Kg	1	06/11/20	WB	SW8270D
1,2-Dichlorobenzene	ND	320	ug/Kg	1	06/11/20	WB	SW8270D
1,2-Diphenylhydrazine	ND	200	ug/Kg	1	06/11/20	WB	SW8270D
1,3-Dichlorobenzene	ND	320	ug/Kg	1	06/11/20	WB	SW8270D
1,4-Dichlorobenzene	ND	320	ug/Kg	1	06/11/20	WB	SW8270D
2,4,5-Trichlorophenol	ND	320	ug/Kg	1	06/11/20	WB	SW8270D
2,4,6-Trichlorophenol	ND	200	ug/Kg	1	06/11/20	WB	SW8270D
2,4-Dichlorophenol	ND	320	ug/Kg	1	06/11/20	WB	SW8270D
2,4-Dimethylphenol	ND	320	ug/Kg	1	06/11/20	WB	SW8270D
2,4-Dinitrophenol	ND	300	ug/Kg	1	06/11/20	WB	SW8270D
2,4-Dinitrotoluene	ND	200	ug/Kg	1	06/11/20	WB	SW8270D
2,6-Dinitrotoluene	ND	200	ug/Kg	1	06/11/20	WB	SW8270D
2-Chloronaphthalene	ND	320	ug/Kg	1	06/11/20	WB	SW8270D
2-Chlorophenol	ND	320	ug/Kg	1	06/11/20	WB	SW8270D
2-Methylnaphthalene	ND	320	ug/Kg	1	06/11/20	WB	SW8270D
2-Methylphenol (o-cresol)	ND	320	ug/Kg	1	06/11/20	WB	SW8270D
2-Nitroaniline	ND	300	ug/Kg	1	06/11/20	WB	SW8270D

Project ID: TURNEY CREEK OUTFALL
Client ID: WC-1

Phoenix I.D.: CG10809

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	
2-Nitrophenol	ND	320	ug/Kg	1	06/11/20	WB	SW8270D
3&4-Methylphenol (m&p-cresol)	ND	450	ug/Kg	1	06/11/20	WB	SW8270D
3,3'-Dichlorobenzidine	ND	200	ug/Kg	1	06/11/20	WB	SW8270D
3-Nitroaniline	ND	300	ug/Kg	1	06/11/20	WB	SW8270D
4,6-Dinitro-2-methylphenol	ND	300	ug/Kg	1	06/11/20	WB	SW8270D
4-Bromophenyl phenyl ether	ND	450	ug/Kg	1	06/11/20	WB	SW8270D
4-Chloro-3-methylphenol	ND	320	ug/Kg	1	06/11/20	WB	SW8270D
4-Chloroaniline	ND	200	ug/Kg	1	06/11/20	WB	SW8270D
4-Chlorophenyl phenyl ether	ND	320	ug/Kg	1	06/11/20	WB	SW8270D
4-Nitroaniline	ND	300	ug/Kg	1	06/11/20	WB	SW8270D
4-Nitrophenol	ND	320	ug/Kg	1	06/11/20	WB	SW8270D
Acenaphthene	ND	320	ug/Kg	1	06/11/20	WB	SW8270D
Acenaphthylene	ND	320	ug/Kg	1	06/11/20	WB	SW8270D
Acetophenone	ND	320	ug/Kg	1	06/11/20	WB	SW8270D
Aniline	ND	200	ug/Kg	1	06/11/20	WB	SW8270D
Anthracene	ND	320	ug/Kg	1	06/11/20	WB	SW8270D
Benz(a)anthracene	870	320	ug/Kg	1	06/11/20	WB	SW8270D
Benzidine	ND	200	ug/Kg	1	06/11/20	WB	SW8270D
Benzo(a)pyrene	980	320	ug/Kg	1	06/11/20	WB	SW8270D
Benzo(b)fluoranthene	890	320	ug/Kg	1	06/11/20	WB	SW8270D
Benzo(ghi)perylene	590	320	ug/Kg	1	06/11/20	WB	SW8270D
Benzo(k)fluoranthene	750	320	ug/Kg	1	06/11/20	WB	SW8270D
Benzoic acid	ND	910	ug/Kg	1	06/11/20	WB	SW8270D
Benzyl butyl phthalate	ND	320	ug/Kg	1	06/11/20	WB	SW8270D
Bis(2-chloroethoxy)methane	ND	320	ug/Kg	1	06/11/20	WB	SW8270D
Bis(2-chloroethyl)ether	ND	450	ug/Kg	1	06/11/20	WB	SW8270D
Bis(2-chloroisopropyl)ether	ND	320	ug/Kg	1	06/11/20	WB	SW8270D
Bis(2-ethylhexyl)phthalate	ND	320	ug/Kg	1	06/11/20	WB	SW8270D
Carbazole	ND	200	ug/Kg	1	06/11/20	WB	SW8270D
Chrysene	1100	320	ug/Kg	1	06/11/20	WB	SW8270D
Dibenz(a,h)anthracene	ND	320	ug/Kg	1	06/11/20	WB	SW8270D
Dibenzofuran	ND	200	ug/Kg	1	06/11/20	WB	SW8270D
Diethyl phthalate	ND	320	ug/Kg	1	06/11/20	WB	SW8270D
Dimethylphthalate	ND	320	ug/Kg	1	06/11/20	WB	SW8270D
Di-n-butylphthalate	ND	450	ug/Kg	1	06/11/20	WB	SW8270D
Di-n-octylphthalate	ND	320	ug/Kg	1	06/11/20	WB	SW8270D
Fluoranthene	1900	320	ug/Kg	1	06/11/20	WB	SW8270D
Fluorene	ND	320	ug/Kg	1	06/11/20	WB	SW8270D
Hexachlorobenzene	ND	320	ug/Kg	1	06/11/20	WB	SW8270D
Hexachlorobutadiene	ND	200	ug/Kg	1	06/11/20	WB	SW8270D
Hexachlorocyclopentadiene	ND	320	ug/Kg	1	06/11/20	WB	SW8270D
Hexachloroethane	ND	320	ug/Kg	1	06/11/20	WB	SW8270D
Indeno(1,2,3-cd)pyrene	590	320	ug/Kg	1	06/11/20	WB	SW8270D
Isophorone	ND	320	ug/Kg	1	06/11/20	WB	SW8270D
Naphthalene	ND	320	ug/Kg	1	06/11/20	WB	SW8270D
Nitrobenzene	ND	200	ug/Kg	1	06/11/20	WB	SW8270D
N-Nitrosodimethylamine	ND	200	ug/Kg	1	06/11/20	WB	SW8270D
N-Nitrosodi-n-propylamine	ND	200	ug/Kg	1	06/11/20	WB	SW8270D
N-Nitrosodiphenylamine	ND	200	ug/Kg	1	06/11/20	WB	SW8270D

Project ID: TURNEY CREEK OUTFALL
Client ID: WC-1

Phoenix I.D.: CG10809

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	
Pentachloronitrobenzene	ND	140	ug/Kg	1	06/11/20	WB	SW8270D
Pentachlorophenol	ND	450	ug/Kg	1	06/11/20	WB	SW8270D
Phenanthrene	830	320	ug/Kg	1	06/11/20	WB	SW8270D
Phenol	ND	320	ug/Kg	1	06/11/20	WB	SW8270D
Pyrene	2200	320	ug/Kg	1	06/11/20	WB	SW8270D
Pyridine	ND	200	ug/Kg	1	06/11/20	WB	SW8270D
QA/QC Surrogates							
% 2,4,6-Tribromophenol	95		%	1	06/11/20	WB	30 - 130 %
% 2-Fluorobiphenyl	64		%	1	06/11/20	WB	30 - 130 %
% 2-Fluorophenol	67		%	1	06/11/20	WB	30 - 130 %
% Nitrobenzene-d5	65		%	1	06/11/20	WB	30 - 130 %
% Phenol-d5	75		%	1	06/11/20	WB	30 - 130 %
% Terphenyl-d14	83		%	1	06/11/20	WB	30 - 130 %
Field Extraction	Completed				06/10/20		SW5035A

RL/PQL=Reporting/Practical Quantitation Level ND=Not Detected BRL=Below Reporting Level
QA/QC Surrogates: Surrogates are compounds (preceeded with a %) added by the lab to determine analysis efficiency. Surrogate results(%) listed in the report are not "detected" compounds.

Comments:

Per 1.4.6 of EPA method 8270D, 1,2-Diphenylhydrazine is unstable and readily converts to Azobenzene. Azobenzene is used for the calibration of 1,2-Diphenylhydrazine.

Corrosivity is based solely on the pH analysis performed above.

Ignitability is based solely on the results of the closed cup flashpoint analysis performed above. Passed is >140 degree F.

The regulatory hold time for pH is immediately. This pH was performed in the laboratory and may be considered outside of hold-time.

The reactivity, reported above, is based only on the EPA Interim Guidance for Reactive Cyanide. This method is no longer listed in the current version of SW-846.

The reactivity, reported above, is based only on the EPA Interim Guidance for Reactive Sulfide. This method is no longer listed in the current version of SW-846.

All soils, solids and sludges are reported on a dry weight basis unless otherwise noted in the sample comments.

If you are the client above and have any questions concerning this testing, please do not hesitate to contact Phoenix Client Services at ext.200.
The contents of this report cannot be discussed with anyone other than the client listed above without their written consent.

Phyllis Shiller, Laboratory Director

June 17, 2020

Reviewed and Released by: Phyllis Shiller, Laboratory Director

Environmental Laboratories, Inc.
587 East Middle Turnpike, P.O.Box 370, Manchester, CT 06045
Tel. (860) 645-1102 Fax (860) 645-0823

QA/QC Report

June 17, 2020

QA/QC Data

SDG I.D.: GCG10797

Parameter	Blank	Blk RL	Sample Result	Dup Result	Dup RPD	LCS %	LCSD %	LCS RPD	MS %	MSD %	MS RPD	% Rec Limits	% RPD Limits	
QA/QC Batch 533533 (mg/kg), QC Sample No: CG10924 2X (CG10800, CG10802, CG10803, CG10806, CG10808, CG10809)														
Mercury - Soil	BRL	0.03	<0.03	<0.03	NC	101	96.2	4.9	86.8	85.3	1.7	70 - 130	30	
Comment: Additional Mercury criteria: LCS acceptance range for waters is 80-120% and for soils is 70-130%. MS acceptance range is 75-125%.														
QA/QC Batch 533274 (mg/kg), QC Sample No: CG11693 2X (CG10797)														
Mercury - Soil	BRL	0.03	0.16	0.18	11.8	97.4	103	5.6	91.6	94.3	2.9	70 - 130	30	
Comment: Additional Mercury criteria: LCS acceptance range for waters is 80-120% and for soils is 70-130%. MS acceptance range is 75-125%.														
QA/QC Batch 533023 (mg/kg), QC Sample No: CG10797 (CG10797, CG10800, CG10802, CG10803, CG10806, CG10808, CG10809)														
ICP Metals - Soil														
Antimony	BRL	3.3	<4.4	<4.4	NC	79.5	87.6	9.7	90.8			75 - 125	35	
Arsenic	BRL	0.67	1.91	1.32	NC	85.3	95.7	11.5	92.1			75 - 125	35	
Barium	BRL	0.33	25.8	20.6	22.4	96.8	110	12.8	103			75 - 125	35	
Beryllium	BRL	0.27	<0.35	<0.35	NC	96.8	103	6.2	96.7			75 - 125	35	
Cadmium	BRL	0.33	1.31	0.99	NC	95.9	103	7.1	95.5			75 - 125	35	
Chromium	BRL	0.33	15.2	11.5	27.7	91.2	101	10.2	92.9			75 - 125	35	
Copper	BRL	1.3	47.2	45.9	2.80	83.2	93.0	11.1	94.3			75 - 125	35	
Lead	BRL	0.33	35.4	17.3	68.7	83.7	91.9	9.3	90.8			75 - 125	35	r
Nickel	BRL	0.37	12.0	8.49	34.3	96.4	103	6.6	94.2			75 - 125	35	
Selenium	BRL	1.3	<1.8	<1.8	NC	87.1	97.2	11.0	91.1			75 - 125	35	
Silver	BRL	0.33	0.53	<0.44	NC	79.8	89.8	11.8	92.9			75 - 125	35	
Thallium	BRL	3.0	<4.0	<4.0	NC	89.8	98.8	9.5	92.9			75 - 125	35	
Vanadium	BRL	0.33	25.0	21.0	17.4	90.1	101	11.4	96.3			75 - 125	35	
Zinc	BRL	0.67	91.2	470	135	88.7	99.1	11.1	101			75 - 125	35	r
Comment: Additional Criteria: LCS acceptance range is 80-120% MS acceptance range 75-125%.														

r = This parameter is outside laboratory RPD specified recovery limits.

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QA/QC Report

June 17, 2020

QA/QC Data

SDG I.D.: GCG10797

Parameter	Blank	Blk RL	Sample Result	Dup Result	Dup RPD	LCS %	LCSD %	LCS RPD	MS %	MSD %	MS RPD	% Rec Limits	% RPD Limits
QA/QC Batch 533278 (mg/Kg), QC Sample No: CG10306 5X (CG10809)													
Reactivity Cyanide	BRL	5	<5	<5.2	NC	100						85 - 115	30
Reactivity Sulfide	BRL	20	<20	<20	NC	95.0						80 - 120	30
QA/QC Batch 533070 (PH), QC Sample No: CG10399 (CG10809)													
pH at 25C - Soil			5.86	5.81	0.90	99.7						85 - 115	20
QA/QC Batch 533319 (Degree F), QC Sample No: CG11103 (CG10809)													
Flash Point			92	87	NC	103						75 - 125	30

Comment:

Additional criteria matrix spike acceptance range is 75-125%.

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QA/QC Report

June 17, 2020

QA/QC Data

SDG I.D.: GCG10797

Parameter	Blank	Blk RL	LCS %	LCSD %	LCS RPD	MS %	MSD %	MS RPD	% Rec Limits	% RPD Limits
QA/QC Batch 533024 (mg/Kg), QC Sample No: CG10806 (CG10797, CG10800, CG10802, CG10803, CG10806, CG10808, CG10809)										
TPH by GC (Extractable Products) - Sediment										
Ext. Petroleum H.C. (C9-C36)	ND	50	67	70	4.4	86	87	1.2	60 - 120	30
% n-Pentacosane	55	%	77	74	4.0	89	74	18.4	50 - 150	30
Comment:										
Additional surrogate criteria: LCS acceptance range is 60-120% MS acceptance range 50-150%. The ETPH/DRO LCS has been normalized based on the alkane calibration.										
QA/QC Batch 532969 (ug/Kg), QC Sample No: CG07735 10X (CG10797, CG10800, CG10802, CG10803, CG10806, CG10808, CG10809)										
Polychlorinated Biphenyls - Sediment										
PCB-1016	ND	170	90	85	5.7	85	86	1.2	40 - 140	30
PCB-1221	ND	170							40 - 140	30
PCB-1232	ND	170							40 - 140	30
PCB-1242	ND	170							40 - 140	30
PCB-1248	ND	170							40 - 140	30
PCB-1254	ND	170							40 - 140	30
PCB-1260	ND	170	91	91	0.0	88	85	3.5	40 - 140	30
PCB-1262	ND	170							40 - 140	30
PCB-1268	ND	170							40 - 140	30
% DCBP (Surrogate Rec)	97	%	105	98	6.9	94	94	0.0	30 - 150	30
% DCBP (Surrogate Rec) (Confirm	101	%	108	102	5.7	98	97	1.0	30 - 150	30
% TCMX (Surrogate Rec)	79	%	95	76	22.2	87	89	2.3	30 - 150	30
% TCMX (Surrogate Rec) (Confirm	78	%	94	77	19.9	88	90	2.2	30 - 150	30
QA/QC Batch 533147 (ug/Kg), QC Sample No: CG11524 2X (CG10797, CG10800, CG10802, CG10803, CG10806, CG10808, CG10809)										
Pesticides - Sediment										
4,4' -DDD	ND	1.7	73	63	14.7	45	58	25.2	40 - 140	30
4,4' -DDE	ND	1.7	72	64	11.8	43	48	11.0	40 - 140	30
4,4' -DDT	ND	1.7	72	65	10.2	58	63	8.3	40 - 140	30
a-BHC	ND	1.0	65	58	11.4	39	46	16.5	40 - 140	30
Alachlor	ND	3.3	NA	NA	NC	NA	NA	NC	40 - 140	30
Aldrin	ND	1.0	65	58	11.4	40	47	16.1	40 - 140	30
b-BHC	ND	1.0	66	61	7.9	47	52	10.1	40 - 140	30
Chlordane	ND	33	66	60	9.5	41	49	17.8	40 - 140	30
d-BHC	ND	3.3	58	53	9.0	37	43	15.0	40 - 140	30
Dieldrin	ND	1.0	72	64	11.8	49	55	11.5	40 - 140	30
Endosulfan I	ND	3.3	72	65	10.2	39	45	14.3	40 - 140	30
Endosulfan II	ND	3.3	79	70	12.1	50	56	11.3	40 - 140	30
Endosulfan sulfate	ND	3.3	79	74	6.5	52	58	10.9	40 - 140	30
Endrin	ND	3.3	72	66	8.7	50	57	13.1	40 - 140	30
Endrin aldehyde	ND	3.3	68	59	14.2	44	50	12.8	40 - 140	30
Endrin ketone	ND	3.3	80	71	11.9	55	61	10.3	40 - 140	30

Parameter	Blank	Blk RL	LCS %	LCSD %	LCS RPD	MS %	MSD %	MS RPD	% Rec Limits	% RPD Limits	
g-BHC	ND	1.0	65	58	11.4	40	46	14.0	40 - 140	30	
Heptachlor	ND	3.3	67	59	12.7	42	49	15.4	40 - 140	30	
Heptachlor epoxide	ND	3.3	71	62	13.5	42	54	25.0	40 - 140	30	
Methoxychlor	ND	3.3	79	80	1.3	54	56	3.6	40 - 140	30	
Toxaphene	ND	130	NA	NA	NC	NA	NA	NC	40 - 140	30	
% DCBP	69	%	79	73	7.9	60	61	1.7	30 - 150	30	
% DCBP (Confirmation)	66	%	73	67	8.6	49	53	7.8	30 - 150	30	
% TCMX	53	%	60	54	10.5	36	43	17.7	30 - 150	30	
% TCMX (Confirmation)	52	%	60	54	10.5	39	44	12.0	30 - 150	30	
QA/QC Batch 533006 (ug/kg), QC Sample No: CG10505 (CG10797, CG10800, CG10803)											
Semivolatiles - Sediment											
1,2,4,5-Tetrachlorobenzene	ND	230	75	73	2.7	76	71	6.8	40 - 140	30	
1,2,4-Trichlorobenzene	ND	230	69	73	5.6	78	65	18.2	40 - 140	30	
1,2-Dichlorobenzene	ND	180	63	66	4.7	73	63	14.7	40 - 140	30	
1,2-Diphenylhydrazine	ND	230	94	93	1.1	99	70	34.3	40 - 140	30	r
1,3-Dichlorobenzene	ND	230	61	62	1.6	68	58	15.9	40 - 140	30	
1,4-Dichlorobenzene	ND	230	67	67	0.0	75	61	20.6	40 - 140	30	
2,4,5-Trichlorophenol	ND	230	83	84	1.2	89	79	11.9	40 - 140	30	
2,4,6-Trichlorophenol	ND	130	88	93	5.5	100	81	21.0	30 - 130	30	
2,4-Dichlorophenol	ND	130	76	77	1.3	81	73	10.4	30 - 130	30	
2,4-Dimethylphenol	ND	230	82	80	2.5	87	76	13.5	30 - 130	30	
2,4-Dinitrophenol	ND	230	55	34	47.2	73	52	33.6	30 - 130	30	r
2,4-Dinitrotoluene	ND	130	77	83	7.5	82	72	13.0	30 - 130	30	
2,6-Dinitrotoluene	ND	130	81	85	4.8	87	74	16.1	40 - 140	30	
2-Chloronaphthalene	ND	230	78	85	8.6	84	68	21.1	40 - 140	30	
2-Chlorophenol	ND	230	68	70	2.9	80	66	19.2	30 - 130	30	
2-Methylnaphthalene	ND	230	72	72	0.0	83	72	14.2	40 - 140	30	
2-Methylphenol (o-cresol)	ND	230	68	68	0.0	80	71	11.9	40 - 140	30	
2-Nitroaniline	ND	330	172	173	0.6	162	152	6.4	40 - 140	30	l,m
2-Nitrophenol	ND	230	106	108	1.9	112	95	16.4	40 - 140	30	
3&4-Methylphenol (m&p-cresol)	ND	230	72	72	0.0	88	79	10.8	30 - 130	30	
3,3'-Dichlorobenzidine	ND	130	92	89	3.3	82	70	15.8	40 - 140	30	
3-Nitroaniline	ND	330	92	88	4.4	79	76	3.9	40 - 140	30	
4,6-Dinitro-2-methylphenol	ND	230	80	63	23.8	86	65	27.8	30 - 130	30	
4-Bromophenyl phenyl ether	ND	230	93	93	0.0	91	76	18.0	40 - 140	30	
4-Chloro-3-methylphenol	ND	230	79	71	10.7	82	79	3.7	30 - 130	30	
4-Chloroaniline	ND	230	95	84	12.3	69	79	13.5	40 - 140	30	
4-Chlorophenyl phenyl ether	ND	230	87	90	3.4	91	78	15.4	40 - 140	30	
4-Nitroaniline	ND	230	90	92	2.2	98	80	20.2	40 - 140	30	
4-Nitrophenol	ND	230	95	95	0.0	103	98	5.0	30 - 130	30	
Acenaphthene	ND	230	77	81	5.1	89	71	22.5	30 - 130	30	
Acenaphthylene	ND	130	76	82	7.6	108	76	34.8	40 - 140	30	r
Acetophenone	ND	230	66	66	0.0	79	69	13.5	40 - 140	30	
Aniline	ND	330	63	62	1.6	62	57	8.4	40 - 140	30	
Anthracene	ND	230	79	82	3.7	109	73	39.6	40 - 140	30	r
Benz(a)anthracene	ND	230	80	82	2.5	NC	NC	NC	40 - 140	30	
Benzidine	ND	330	<10	<10	NC	<10	<10	NC	40 - 140	30	l,m
Benzo(a)pyrene	ND	130	85	83	2.4	NC	NC	NC	40 - 140	30	
Benzo(b)fluoranthene	ND	160	99	100	1.0	NC	NC	NC	40 - 140	30	
Benzo(ghi)perylene	ND	230	87	87	0.0	125	65	63.2	40 - 140	30	r
Benzo(k)fluoranthene	ND	230	62	62	0.0	90	36	85.7	40 - 140	30	m,r
Benzoic Acid	ND	670	<10	<10	NC	73	75	2.7	30 - 130	30	l

QA/QC Data

SDG I.D.: GCG10797

Parameter	Blank	Blk RL	LCS %	LCSD %	LCS RPD	MS %	MSD %	MS RPD	% Rec Limits	% RPD Limits	
Benzyl butyl phthalate	ND	230	74	74	0.0	71	61	15.2	40 - 140	30	
Bis(2-chloroethoxy)methane	ND	230	65	61	6.3	66	59	11.2	40 - 140	30	
Bis(2-chloroethyl)ether	ND	130	53	56	5.5	60	49	20.2	40 - 140	30	
Bis(2-chloroisopropyl)ether	ND	230	52	53	1.9	62	52	17.5	40 - 140	30	
Bis(2-ethylhexyl)phthalate	ND	230	77	74	4.0	76	67	12.6	40 - 140	30	
Carbazole	ND	230	81	83	2.4	83	71	15.6	40 - 140	30	
Chrysene	ND	230	79	82	3.7	NC	NC	NC	40 - 140	30	
Dibenz(a,h)anthracene	ND	130	87	91	4.5	104	78	28.6	40 - 140	30	
Dibenzofuran	ND	230	79	82	3.7	94	73	25.1	40 - 140	30	
Diethyl phthalate	ND	230	85	84	1.2	86	74	15.0	40 - 140	30	
Dimethylphthalate	ND	230	84	85	1.2	86	73	16.4	40 - 140	30	
Di-n-butylphthalate	ND	670	82	82	0.0	84	74	12.7	40 - 140	30	
Di-n-octylphthalate	ND	230	79	78	1.3	78	71	9.4	40 - 140	30	
Fluoranthene	ND	230	82	83	1.2	NC	NC	NC	40 - 140	30	
Fluorene	ND	230	80	84	4.9	102	72	34.5	40 - 140	30	r
Hexachlorobenzene	ND	130	95	94	1.1	94	75	22.5	40 - 140	30	
Hexachlorobutadiene	ND	230	77	81	5.1	86	75	13.7	40 - 140	30	
Hexachlorocyclopentadiene	ND	230	58	63	8.3	38	17	76.4	40 - 140	30	m,r
Hexachloroethane	ND	130	67	67	0.0	74	60	20.9	40 - 140	30	
Indeno(1,2,3-cd)pyrene	ND	230	84	85	1.2	116	58	66.7	40 - 140	30	r
Isophorone	ND	130	64	61	4.8	64	57	11.6	40 - 140	30	
Naphthalene	ND	230	64	67	4.6	74	63	16.1	40 - 140	30	
Nitrobenzene	ND	130	71	68	4.3	84	74	12.7	40 - 140	30	
N-Nitrosodimethylamine	ND	230	41	39	5.0	39	28	32.8	40 - 140	30	l,m,r
N-Nitrosodi-n-propylamine	ND	130	69	63	9.1	77	70	9.5	40 - 140	30	
N-Nitrosodiphenylamine	ND	130	90	87	3.4	93	80	15.0	40 - 140	30	
Pentachloronitrobenzene	ND	230	90	100	10.5	92	79	15.2	40 - 140	30	
Pentachlorophenol	ND	230	93	95	2.1	100	90	10.5	30 - 130	30	
Phenanthrene	ND	130	79	81	2.5	NC	NC	NC	40 - 140	30	
Phenol	ND	230	70	75	6.9	87	74	16.1	30 - 130	30	
Pyrene	ND	230	82	84	2.4	NC	NC	NC	30 - 130	30	
Pyridine	ND	230	44	42	4.7	39	31	22.9	40 - 140	30	m
% 2,4,6-Tribromophenol	103	%	112	113	0.9	113	97	15.2	30 - 130	30	
% 2-Fluorobiphenyl	68	%	68	72	5.7	74	58	24.2	30 - 130	30	
% 2-Fluorophenol	57	%	59	64	8.1	66	54	20.0	30 - 130	30	
% Nitrobenzene-d5	60	%	64	65	1.6	75	67	11.3	30 - 130	30	
% Phenol-d5	59	%	64	67	4.6	75	62	19.0	30 - 130	30	
% Terphenyl-d14	95	%	92	99	7.3	91	83	9.2	30 - 130	30	

Comment:

Additional 8270 criteria: 20% of compounds can be outside of acceptance criteria as long as recovery is at least 10%. (Acid surrogates acceptance range for aqueous samples: 15-110%, for soils 30-130%)

QA/QC Batch 532945 (ug/kg), QC Sample No: CG10924 (CG10802, CG10806, CG10808, CG10809)

Semivolatiles - Sediment

1,2,4,5-Tetrachlorobenzene	ND	230	57	58	1.7	51			40 - 140	30	
1,2,4-Trichlorobenzene	ND	230	56	57	1.8	51			40 - 140	30	
1,2-Dichlorobenzene	ND	180	49	51	4.0	47			40 - 140	30	
1,2-Diphenylhydrazine	ND	230	70	69	1.4	62			40 - 140	30	
1,3-Dichlorobenzene	ND	230	47	47	0.0	43			40 - 140	30	
1,4-Dichlorobenzene	ND	230	49	48	2.1	45			40 - 140	30	
2,4,5-Trichlorophenol	ND	230	70	68	2.9	60			40 - 140	30	
2,4,6-Trichlorophenol	ND	130	68	66	3.0	59			30 - 130	30	
2,4-Dichlorophenol	ND	130	62	61	1.6	57			30 - 130	30	

QA/QC Data

SDG I.D.: GCG10797

Parameter	Blank	Blk RL	LCS %	LCSD %	LCS RPD	MS %	MSD %	MS RPD	% Rec Limits	% RPD Limits	
2,4-Dimethylphenol	ND	230	70	69	1.4	57			30 - 130	30	
2,4-Dinitrophenol	ND	230	46	47	2.2	43			30 - 130	30	
2,4-Dinitrotoluene	ND	130	77	75	2.6	72			30 - 130	30	
2,6-Dinitrotoluene	ND	130	71	70	1.4	66			40 - 140	30	
2-Chloronaphthalene	ND	230	64	64	0.0	55			40 - 140	30	
2-Chlorophenol	ND	230	59	58	1.7	55			30 - 130	30	
2-Methylnaphthalene	ND	230	59	58	1.7	53			40 - 140	30	
2-Methylphenol (o-cresol)	ND	230	60	61	1.7	56			40 - 140	30	
2-Nitroaniline	ND	330	127	133	4.6	155			40 - 140	30	m
2-Nitrophenol	ND	230	61	63	3.2	58			40 - 140	30	
3&4-Methylphenol (m&p-cresol)	ND	230	62	61	1.6	59			30 - 130	30	
3,3'-Dichlorobenzidine	ND	130	32	50	43.9	63			40 - 140	30	l,r
3-Nitroaniline	ND	330	56	61	8.5	83			40 - 140	30	
4,6-Dinitro-2-methylphenol	ND	230	66	67	1.5	65			30 - 130	30	
4-Bromophenyl phenyl ether	ND	230	66	66	0.0	54			40 - 140	30	
4-Chloro-3-methylphenol	ND	230	70	68	2.9	64			30 - 130	30	
4-Chloroaniline	ND	230	40	41	2.5	65			40 - 140	30	
4-Chlorophenyl phenyl ether	ND	230	66	66	0.0	57			40 - 140	30	
4-Nitroaniline	ND	230	77	73	5.3	74			40 - 140	30	
4-Nitrophenol	ND	230	74	73	1.4	64			30 - 130	30	
Acenaphthene	ND	230	65	66	1.5	56			30 - 130	30	
Acenaphthylene	ND	130	63	61	3.2	56			40 - 140	30	
Acetophenone	ND	230	54	53	1.9	52			40 - 140	30	
Aniline	ND	330	31	33	6.3	45			40 - 140	30	l
Anthracene	ND	230	65	64	1.6	57			40 - 140	30	
Benz(a)anthracene	ND	230	67	64	4.6	55			40 - 140	30	
Benzidine	ND	330	<10	<10	NC	26			40 - 140	30	l,m
Benzo(a)pyrene	ND	130	68	65	4.5	56			40 - 140	30	
Benzo(b)fluoranthene	ND	160	82	78	5.0	67			40 - 140	30	
Benzo(ghi)perylene	ND	230	71	65	8.8	52			40 - 140	30	
Benzo(k)fluoranthene	ND	230	51	51	0.0	43			40 - 140	30	
Benzoic Acid	ND	670	21	20	4.9	20			30 - 130	30	l,m
Benzyl butyl phthalate	ND	230	74	71	4.1	62			40 - 140	30	
Bis(2-chloroethoxy)methane	ND	230	58	59	1.7	55			40 - 140	30	
Bis(2-chloroethyl)ether	ND	130	48	47	2.1	46			40 - 140	30	
Bis(2-chloroisopropyl)ether	ND	230	48	50	4.1	45			40 - 140	30	
Bis(2-ethylhexyl)phthalate	ND	230	75	72	4.1	61			40 - 140	30	
Carbazole	ND	230	69	69	0.0	64			40 - 140	30	
Chrysene	ND	230	68	66	3.0	56			40 - 140	30	
Dibenz(a,h)anthracene	ND	130	67	63	6.2	50			40 - 140	30	
Dibenzofuran	ND	230	67	67	0.0	58			40 - 140	30	
Diethyl phthalate	ND	230	74	75	1.3	67			40 - 140	30	
Dimethylphthalate	ND	230	69	67	2.9	64			40 - 140	30	
Di-n-butylphthalate	ND	670	75	74	1.3	65			40 - 140	30	
Di-n-octylphthalate	ND	230	75	71	5.5	61			40 - 140	30	
Fluoranthene	ND	230	69	69	0.0	61			40 - 140	30	
Fluorene	ND	230	66	67	1.5	58			40 - 140	30	
Hexachlorobenzene	ND	130	71	71	0.0	59			40 - 140	30	
Hexachlorobutadiene	ND	230	57	57	0.0	52			40 - 140	30	
Hexachlorocyclopentadiene	ND	230	27	23	16.0	15			40 - 140	30	l,m
Hexachloroethane	ND	130	50	51	2.0	46			40 - 140	30	
Indeno(1,2,3-cd)pyrene	ND	230	66	61	7.9	50			40 - 140	30	
Isophorone	ND	130	54	56	3.6	52			40 - 140	30	

QA/QC Data

SDG I.D.: GCG10797

Parameter	Blank	Blk RL	LCS %	LCSD %	LCS RPD	MS %	MSD %	MS RPD	% Rec Limits	% RPD Limits	
Naphthalene	ND	230	53	54	1.9	48			40 - 140	30	
Nitrobenzene	ND	130	57	56	1.8	53			40 - 140	30	
N-Nitrosodimethylamine	ND	230	34	36	5.7	37			40 - 140	30	l,m
N-Nitrosodi-n-propylamine	ND	130	53	53	0.0	51			40 - 140	30	
N-Nitrosodiphenylamine	ND	130	76	74	2.7	66			40 - 140	30	
Pentachloronitrobenzene	ND	230	74	73	1.4	63			40 - 140	30	
Pentachlorophenol	ND	230	26	16	47.6	44			30 - 130	30	l,r
Phenanthrene	ND	130	65	63	3.1	55			40 - 140	30	
Phenol	ND	230	68	64	6.1	67			30 - 130	30	
Pyrene	ND	230	72	71	1.4	66			30 - 130	30	
Pyridine	ND	230	28	29	3.5	40			40 - 140	30	l
% 2,4,6-Tribromophenol	47	%	76	72	5.4	62			30 - 130	30	
% 2-Fluorobiphenyl	64	%	57	55	3.6	48			30 - 130	30	
% 2-Fluorophenol	56	%	57	55	3.6	52			30 - 130	30	
% Nitrobenzene-d5	58	%	54	52	3.8	49			30 - 130	30	
% Phenol-d5	62	%	59	57	3.4	56			30 - 130	30	
% Terphenyl-d14	83	%	77	74	4.0	66			30 - 130	30	

Comment:

This batch consists of a Blank, LCS, LCSD and MS.

Additional 8270 criteria: 20% of compounds can be outside of acceptance criteria as long as recovery is at least 10%. (Acid surrogates acceptance range for aqueous samples: 15-110%, for soils 30-130%)

QA/QC Batch 533551 (ug/kg), QC Sample No: CG09674 (CG10802, CG10808, CG10809)

Volatiles - Sediment (Low Level)

1,1,1,2-Tetrachloroethane	ND	5.0	86	89	3.4	95	87	8.8	70 - 130	30	
1,1,1-Trichloroethane	ND	5.0	77	81	5.1	87	79	9.6	70 - 130	30	
1,1,2,2-Tetrachloroethane	ND	3.0	85	91	6.8	99	92	7.3	70 - 130	30	
1,1,2-Trichloroethane	ND	5.0	85	88	3.5	95	88	7.7	70 - 130	30	
1,1-Dichloroethane	ND	5.0	83	84	1.2	93	83	11.4	70 - 130	30	
1,1-Dichloroethene	ND	5.0	81	83	2.4	91	83	9.2	70 - 130	30	
1,1-Dichloropropene	ND	5.0	83	85	2.4	90	82	9.3	70 - 130	30	
1,2,3-Trichlorobenzene	ND	5.0	88	91	3.4	89	82	8.2	70 - 130	30	
1,2,3-Trichloropropane	ND	5.0	79	83	4.9	92	86	6.7	70 - 130	30	
1,2,4-Trichlorobenzene	ND	5.0	91	93	2.2	84	78	7.4	70 - 130	30	
1,2,4-Trimethylbenzene	ND	1.0	84	87	3.5	89	81	9.4	70 - 130	30	
1,2-Dibromo-3-chloropropane	ND	5.0	82	83	1.2	98	93	5.2	70 - 130	30	
1,2-Dibromoethane	ND	5.0	84	88	4.7	96	88	8.7	70 - 130	30	
1,2-Dichlorobenzene	ND	5.0	85	87	2.3	91	81	11.6	70 - 130	30	
1,2-Dichloroethane	ND	5.0	80	83	3.7	85	79	7.3	70 - 130	30	
1,2-Dichloropropane	ND	5.0	88	91	3.4	101	90	11.5	70 - 130	30	
1,3,5-Trimethylbenzene	ND	1.0	84	87	3.5	92	82	11.5	70 - 130	30	
1,3-Dichlorobenzene	ND	5.0	85	89	4.6	88	79	10.8	70 - 130	30	
1,3-Dichloropropane	ND	5.0	86	90	4.5	99	91	8.4	70 - 130	30	
1,4-Dichlorobenzene	ND	5.0	84	87	3.5	85	77	9.9	70 - 130	30	
2,2-Dichloropropane	ND	5.0	84	88	4.7	91	82	10.4	70 - 130	30	
2-Chlorotoluene	ND	5.0	85	88	3.5	92	83	10.3	70 - 130	30	
2-Hexanone	ND	25	72	76	5.4	83	80	3.7	70 - 130	30	
2-Isopropyltoluene	ND	5.0	83	85	2.4	92	82	11.5	70 - 130	30	
4-Chlorotoluene	ND	5.0	83	87	4.7	88	79	10.8	70 - 130	30	
4-Methyl-2-pentanone	ND	25	79	85	7.3	91	88	3.4	70 - 130	30	
Acetone	ND	10	67	66	1.5	71	65	8.8	70 - 130	30	l,m
Acrylonitrile	ND	5.0	77	83	7.5	93	87	6.7	70 - 130	30	
Benzene	ND	1.0	89	91	2.2	100	90	10.5	70 - 130	30	

QA/QC Data

SDG I.D.: GCG10797

Parameter	Blank	Blk RL	LCS %	LCSD %	LCS RPD	MS %	MSD %	MS RPD	% Rec Limits	% RPD Limits
Bromobenzene	ND	5.0	86	88	2.3	95	84	12.3	70 - 130	30
Bromochloromethane	ND	5.0	85	86	1.2	96	89	7.6	70 - 130	30
Bromodichloromethane	ND	5.0	86	90	4.5	93	87	6.7	70 - 130	30
Bromoform	ND	5.0	84	88	4.7	96	89	7.6	70 - 130	30
Bromomethane	ND	5.0	87	90	3.4	101	86	16.0	70 - 130	30
Carbon Disulfide	ND	5.0	79	81	2.5	88	79	10.8	70 - 130	30
Carbon tetrachloride	ND	5.0	82	86	4.8	92	84	9.1	70 - 130	30
Chlorobenzene	ND	5.0	85	88	3.5	93	85	9.0	70 - 130	30
Chloroethane	ND	5.0	81	85	4.8	92	84	9.1	70 - 130	30
Chloroform	ND	5.0	80	82	2.5	89	82	8.2	70 - 130	30
Chloromethane	ND	5.0	74	77	4.0	84	74	12.7	70 - 130	30
cis-1,2-Dichloroethene	ND	5.0	83	85	2.4	94	86	8.9	70 - 130	30
cis-1,3-Dichloropropene	ND	5.0	87	91	4.5	95	87	8.8	70 - 130	30
Dibromochloromethane	ND	3.0	89	90	1.1	97	89	8.6	70 - 130	30
Dibromomethane	ND	5.0	81	86	6.0	91	84	8.0	70 - 130	30
Dichlorodifluoromethane	ND	5.0	80	81	1.2	83	76	8.8	70 - 130	30
Ethylbenzene	ND	1.0	88	89	1.1	97	86	12.0	70 - 130	30
Hexachlorobutadiene	ND	5.0	86	86	0.0	90	85	5.7	70 - 130	30
Isopropylbenzene	ND	1.0	84	85	1.2	96	84	13.3	70 - 130	30
m&p-Xylene	ND	2.0	87	90	3.4	94	85	10.1	70 - 130	30
Methyl ethyl ketone	ND	5.0	67	73	8.6	82	75	8.9	70 - 130	30
Methyl t-butyl ether (MTBE)	ND	1.0	76	77	1.3	82	78	5.0	70 - 130	30
Methylene chloride	ND	5.0	75	78	3.9	83	75	10.1	70 - 130	30
Naphthalene	ND	5.0	89	93	4.4	101	93	8.2	70 - 130	30
n-Butylbenzene	ND	1.0	86	87	1.2	85	82	3.6	70 - 130	30
n-Propylbenzene	ND	1.0	84	86	2.4	90	83	8.1	70 - 130	30
o-Xylene	ND	2.0	88	92	4.4	99	87	12.9	70 - 130	30
p-Isopropyltoluene	ND	1.0	86	89	3.4	91	85	6.8	70 - 130	30
sec-Butylbenzene	ND	1.0	88	91	3.4	100	90	10.5	70 - 130	30
Styrene	ND	5.0	89	92	3.3	96	87	9.8	70 - 130	30
tert-Butylbenzene	ND	1.0	82	85	3.6	95	84	12.3	70 - 130	30
Tetrachloroethene	ND	5.0	83	87	4.7	89	84	5.8	70 - 130	30
Tetrahydrofuran (THF)	ND	5.0	77	78	1.3	88	87	1.1	70 - 130	30
Toluene	ND	1.0	88	91	3.4	98	89	9.6	70 - 130	30
trans-1,2-Dichloroethene	ND	5.0	80	81	1.2	87	79	9.6	70 - 130	30
trans-1,3-Dichloropropene	ND	5.0	85	89	4.6	91	85	6.8	70 - 130	30
trans-1,4-dichloro-2-butene	ND	5.0	84	89	5.8	94	87	7.7	70 - 130	30
Trichloroethene	ND	5.0	84	88	4.7	94	84	11.2	70 - 130	30
Trichlorofluoromethane	ND	5.0	75	78	3.9	82	73	11.6	70 - 130	30
Trichlorotrifluoroethane	ND	5.0	78	79	1.3	86	78	9.8	70 - 130	30
Vinyl chloride	ND	5.0	79	81	2.5	90	80	11.8	70 - 130	30
% 1,2-dichlorobenzene-d4	100	%	100	102	2.0	101	100	1.0	70 - 130	30
% Bromofluorobenzene	98	%	99	99	0.0	96	96	0.0	70 - 130	30
% Dibromofluoromethane	98	%	99	98	1.0	98	101	3.0	70 - 130	30
% Toluene-d8	97	%	99	99	0.0	99	99	0.0	70 - 130	30

Comment:

A blank MS/MSD was analyzed with this Low Level batch.

Additional 8260 criteria: 10% of LCS/LCSD compounds can be outside of acceptance criteria as long as recovery is 40-160%, 25-160% for Chloroethane-HL and Trichlorofluoromethane-HL.

QA/QC Batch 533328 (ug/kg), QC Sample No: CG10400 (CG10800, CG10803)

Volatiles - Sediment (Low Level)

1,1,1,2-Tetrachloroethane	ND	5.0	92	97	5.3	97	91	6.4	70 - 130	30

QA/QC Data

SDG I.D.: GCG10797

Parameter	Blank	Blk RL	LCS %	LCSD %	LCS RPD	MS %	MSD %	MS RPD	% Rec Limits	% RPD Limits	
1,1,1-Trichloroethane	ND	5.0	86	91	5.6	92	85	7.9	70 - 130	30	
1,1,2,2-Tetrachloroethane	ND	3.0	92	101	9.3	103	101	2.0	70 - 130	30	
1,1,2-Trichloroethane	ND	5.0	94	100	6.2	100	96	4.1	70 - 130	30	
1,1-Dichloroethane	ND	5.0	91	97	6.4	98	93	5.2	70 - 130	30	
1,1-Dichloroethene	ND	5.0	90	95	5.4	98	91	7.4	70 - 130	30	
1,1-Dichloropropene	ND	5.0	89	93	4.4	99	92	7.3	70 - 130	30	
1,2,3-Trichlorobenzene	ND	5.0	93	98	5.2	99	95	4.1	70 - 130	30	
1,2,3-Trichloropropane	ND	5.0	83	93	11.4	94	90	4.3	70 - 130	30	
1,2,4-Trichlorobenzene	ND	5.0	94	99	5.2	100	95	5.1	70 - 130	30	
1,2,4-Trimethylbenzene	ND	1.0	90	95	5.4	101	95	6.1	70 - 130	30	
1,2-Dibromo-3-chloropropane	ND	5.0	86	95	9.9	96	93	3.2	70 - 130	30	
1,2-Dibromoethane	ND	5.0	89	98	9.6	98	93	5.2	70 - 130	30	
1,2-Dichlorobenzene	ND	5.0	89	96	7.6	97	94	3.1	70 - 130	30	
1,2-Dichloroethane	ND	5.0	86	93	7.8	88	84	4.7	70 - 130	30	
1,2-Dichloropropane	ND	5.0	96	103	7.0	107	101	5.8	70 - 130	30	
1,3,5-Trimethylbenzene	ND	1.0	90	96	6.5	101	95	6.1	70 - 130	30	
1,3-Dichlorobenzene	ND	5.0	90	95	5.4	98	93	5.2	70 - 130	30	
1,3-Dichloropropane	ND	5.0	91	100	9.4	101	96	5.1	70 - 130	30	
1,4-Dichlorobenzene	ND	5.0	88	94	6.6	96	93	3.2	70 - 130	30	
2,2-Dichloropropane	ND	5.0	94	99	5.2	96	88	8.7	70 - 130	30	
2-Chlorotoluene	ND	5.0	90	96	6.5	101	96	5.1	70 - 130	30	
2-Hexanone	ND	25	90	95	5.4	83	81	2.4	70 - 130	30	
2-Isopropyltoluene	ND	5.0	87	93	6.7	99	94	5.2	70 - 130	30	
4-Chlorotoluene	ND	5.0	90	96	6.5	99	92	7.3	70 - 130	30	
4-Methyl-2-pentanone	ND	25	89	97	8.6	94	91	3.2	70 - 130	30	
Acetone	ND	10	103	108	4.7	59	55	7.0	70 - 130	30	m
Acrylonitrile	ND	5.0	89	99	10.6	97	95	2.1	70 - 130	30	
Benzene	ND	1.0	96	103	7.0	107	102	4.8	70 - 130	30	
Bromobenzene	ND	5.0	91	98	7.4	101	97	4.0	70 - 130	30	
Bromochloromethane	ND	5.0	94	102	8.2	101	96	5.1	70 - 130	30	
Bromodichloromethane	ND	5.0	94	100	6.2	95	91	4.3	70 - 130	30	
Bromoform	ND	5.0	89	98	9.6	93	91	2.2	70 - 130	30	
Bromomethane	ND	5.0	95	102	7.1	96	88	8.7	70 - 130	30	
Carbon Disulfide	ND	5.0	87	91	4.5	92	86	6.7	70 - 130	30	
Carbon tetrachloride	ND	5.0	91	96	5.3	94	88	6.6	70 - 130	30	
Chlorobenzene	ND	5.0	90	96	6.5	99	94	5.2	70 - 130	30	
Chloroethane	ND	5.0	90	96	6.5	93	85	9.0	70 - 130	30	
Chloroform	ND	5.0	89	95	6.5	95	90	5.4	70 - 130	30	
Chloromethane	ND	5.0	82	87	5.9	85	77	9.9	70 - 130	30	
cis-1,2-Dichloroethene	ND	5.0	92	103	11.3	105	99	5.9	70 - 130	30	
cis-1,3-Dichloropropene	ND	5.0	95	102	7.1	101	95	6.1	70 - 130	30	
Dibromochloromethane	ND	3.0	94	101	7.2	97	93	4.2	70 - 130	30	
Dibromomethane	ND	5.0	89	96	7.6	94	91	3.2	70 - 130	30	
Dichlorodifluoromethane	ND	5.0	79	83	4.9	80	71	11.9	70 - 130	30	
Ethylbenzene	ND	1.0	93	98	5.2	104	100	3.9	70 - 130	30	
Hexachlorobutadiene	ND	5.0	88	94	6.6	100	91	9.4	70 - 130	30	
Isopropylbenzene	ND	1.0	89	93	4.4	101	96	5.1	70 - 130	30	
m&p-Xylene	ND	2.0	91	97	6.4	103	97	6.0	70 - 130	30	
Methyl ethyl ketone	ND	5.0	96	99	3.1	88	82	7.1	70 - 130	30	
Methyl t-butyl ether (MTBE)	ND	1.0	84	91	8.0	86	82	4.8	70 - 130	30	
Methylene chloride	ND	5.0	83	88	5.8	91	87	4.5	70 - 130	30	
Naphthalene	ND	5.0	92	100	8.3	107	104	2.8	70 - 130	30	
n-Butylbenzene	ND	1.0	91	96	5.3	102	95	7.1	70 - 130	30	

Parameter	Blank	Blk RL	LCS %	LCSD %	LCS RPD	MS %	MSD %	MS RPD	% Rec Limits	% RPD Limits	
n-Propylbenzene	ND	1.0	88	94	6.6	102	96	6.1	70 - 130	30	
o-Xylene	ND	2.0	95	100	5.1	105	100	4.9	70 - 130	30	
p-Isopropyltoluene	ND	1.0	92	97	5.3	103	96	7.0	70 - 130	30	
sec-Butylbenzene	ND	1.0	95	101	6.1	109	102	6.6	70 - 130	30	
Styrene	ND	5.0	95	101	6.1	103	98	5.0	70 - 130	30	
tert-Butylbenzene	ND	1.0	88	95	7.7	100	94	6.2	70 - 130	30	
Tetrachloroethene	ND	5.0	93	95	2.1	101	96	5.1	70 - 130	30	
Tetrahydrofuran (THF)	ND	5.0	84	91	8.0	95	88	7.7	70 - 130	30	
Toluene	ND	1.0	96	101	5.1	106	101	4.8	70 - 130	30	
trans-1,2-Dichloroethene	ND	5.0	88	92	4.4	97	90	7.5	70 - 130	30	
trans-1,3-Dichloropropene	ND	5.0	94	101	7.2	95	92	3.2	70 - 130	30	
trans-1,4-dichloro-2-butene	ND	5.0	91	100	9.4	95	93	2.1	70 - 130	30	
Trichloroethene	ND	5.0	89	94	5.5	100	93	7.3	70 - 130	30	
Trichlorofluoromethane	ND	5.0	82	86	4.8	56	51	9.3	70 - 130	30	m
Trichlorotrifluoroethane	ND	5.0	85	87	2.3	89	82	8.2	70 - 130	30	
Vinyl chloride	ND	5.0	88	91	3.4	89	84	5.8	70 - 130	30	
% 1,2-dichlorobenzene-d4	99	%	100	100	0.0	99	99	0.0	70 - 130	30	
% Bromofluorobenzene	97	%	99	99	0.0	97	97	0.0	70 - 130	30	
% Dibromofluoromethane	95	%	101	102	1.0	96	98	2.1	70 - 130	30	
% Toluene-d8	98	%	101	101	0.0	99	99	0.0	70 - 130	30	

Comment:

A blank MS/MSD was analyzed with this Low Level batch.

Additional 8260 criteria: 10% of LCS/LCSD compounds can be outside of acceptance criteria as long as recovery is 40-160%, 25-160% for Chloroethane-HL and Trichlorofluoromethane-HL.

QA/QC Batch 533540 (ug/kg), QC Sample No: CG11105 (CG10797)

Volatiles - Sediment (Low Level)

1,1,1,2-Tetrachloroethane	ND	5.0	107	111	3.7	117	94	21.8	70 - 130	30	
1,1,1-Trichloroethane	ND	5.0	98	101	3.0	110	86	24.5	70 - 130	30	
1,1,2,2-Tetrachloroethane	ND	3.0	105	115	9.1	138	116	17.3	70 - 130	30	m
1,1,2-Trichloroethane	ND	5.0	96	101	5.1	98	81	19.0	70 - 130	30	
1,1-Dichloroethane	ND	5.0	88	91	3.4	99	79	22.5	70 - 130	30	
1,1-Dichloroethene	ND	5.0	104	108	3.8	117	89	27.2	70 - 130	30	
1,1-Dichloropropene	ND	5.0	99	101	2.0	105	79	28.3	70 - 130	30	
1,2,3-Trichlorobenzene	ND	5.0	107	115	7.2	64	47	30.6	70 - 130	30	m,r
1,2,3-Trichloropropane	ND	5.0	96	106	9.9	133	111	18.0	70 - 130	30	m
1,2,4-Trichlorobenzene	ND	5.0	112	119	6.1	70	52	29.5	70 - 130	30	m
1,2,4-Trimethylbenzene	ND	1.0	104	108	3.8	130	102	24.1	70 - 130	30	
1,2-Dibromo-3-chloropropane	ND	5.0	112	128	13.3	118	97	19.5	70 - 130	30	
1,2-Dibromoethane	ND	5.0	101	108	6.7	106	86	20.8	70 - 130	30	
1,2-Dichlorobenzene	ND	5.0	100	104	3.9	98	79	21.5	70 - 130	30	
1,2-Dichloroethane	ND	5.0	93	97	4.2	100	81	21.0	70 - 130	30	
1,2-Dichloropropane	ND	5.0	98	101	3.0	105	84	22.2	70 - 130	30	
1,3,5-Trimethylbenzene	ND	1.0	105	108	2.8	138	107	25.3	70 - 130	30	m
1,3-Dichlorobenzene	ND	5.0	104	108	3.8	109	85	24.7	70 - 130	30	
1,3-Dichloropropane	ND	5.0	99	105	5.9	110	90	20.0	70 - 130	30	
1,4-Dichlorobenzene	ND	5.0	102	106	3.8	102	81	23.0	70 - 130	30	
2,2-Dichloropropane	ND	5.0	105	105	0.0	115	89	25.5	70 - 130	30	
2-Chlorotoluene	ND	5.0	104	108	3.8	132	104	23.7	70 - 130	30	m
2-Hexanone	ND	25	92	104	12.2	64	47	30.6	70 - 130	30	m,r
2-Isopropyltoluene	ND	5.0	102	106	3.8	128	99	25.6	70 - 130	30	
4-Chlorotoluene	ND	5.0	104	107	2.8	124	97	24.4	70 - 130	30	
4-Methyl-2-pentanone	ND	25	97	107	9.8	80	61	27.0	70 - 130	30	m

QA/QC Data

SDG I.D.: GCG10797

Parameter	Blank	Blk RL	LCS %	LCSD %	LCS RPD	MS %	MSD %	MS RPD	% Rec Limits	% RPD Limits	
Acetone	ND	10	83	90	8.1	80	67	17.7	70 - 130	30	m
Acrylonitrile	ND	5.0	79	89	11.9	49	41	17.8	70 - 130	30	m
Benzene	ND	1.0	103	105	1.9	107	83	25.3	70 - 130	30	
Bromobenzene	ND	5.0	102	107	4.8	123	98	22.6	70 - 130	30	
Bromochloromethane	ND	5.0	100	104	3.9	106	86	20.8	70 - 130	30	
Bromodichloromethane	ND	5.0	102	104	1.9	103	83	21.5	70 - 130	30	
Bromoform	ND	5.0	110	118	7.0	93	75	21.4	70 - 130	30	
Bromomethane	ND	5.0	106	106	0.0	99	73	30.2	70 - 130	30	
Carbon Disulfide	ND	5.0	107	110	2.8	86	60	35.6	70 - 130	30	m,r
Carbon tetrachloride	ND	5.0	104	108	3.8	111	86	25.4	70 - 130	30	
Chlorobenzene	ND	5.0	102	104	1.9	105	81	25.8	70 - 130	30	
Chloroethane	ND	5.0	102	103	1.0	123	94	26.7	70 - 130	30	
Chloroform	ND	5.0	97	99	2.0	106	84	23.2	70 - 130	30	
Chloromethane	ND	5.0	92	97	5.3	97	75	25.6	70 - 130	30	
cis-1,2-Dichloroethene	ND	5.0	97	103	6.0	104	81	24.9	70 - 130	30	
cis-1,3-Dichloropropene	ND	5.0	104	106	1.9	91	72	23.3	70 - 130	30	
Dibromochloromethane	ND	3.0	111	115	3.5	114	91	22.4	70 - 130	30	
Dibromomethane	ND	5.0	97	100	3.0	100	82	19.8	70 - 130	30	
Dichlorodifluoromethane	ND	5.0	116	119	2.6	129	99	26.3	70 - 130	30	
Ethylbenzene	ND	1.0	106	109	2.8	116	89	26.3	70 - 130	30	
Hexachlorobutadiene	ND	5.0	105	108	2.8	87	60	36.7	70 - 130	30	m,r
Isopropylbenzene	ND	1.0	104	107	2.8	149	114	26.6	70 - 130	30	m
m&p-Xylene	ND	2.0	107	110	2.8	114	88	25.7	70 - 130	30	
Methyl ethyl ketone	ND	5.0	87	97	10.9	65	49	28.1	70 - 130	30	m
Methyl t-butyl ether (MTBE)	ND	1.0	95	99	4.1	107	88	19.5	70 - 130	30	
Methylene chloride	ND	5.0	93	95	2.1	106	85	22.0	70 - 130	30	
Naphthalene	ND	5.0	111	123	10.3	76	57	28.6	70 - 130	30	m
n-Butylbenzene	ND	1.0	110	114	3.6	123	89	32.1	70 - 130	30	r
n-Propylbenzene	ND	1.0	105	108	2.8	140	107	26.7	70 - 130	30	m
o-Xylene	ND	2.0	105	108	2.8	112	88	24.0	70 - 130	30	
p-Isopropyltoluene	ND	1.0	109	113	3.6	135	101	28.8	70 - 130	30	m
sec-Butylbenzene	ND	1.0	111	115	3.5	145	109	28.3	70 - 130	30	m
Styrene	ND	5.0	108	112	3.6	100	77	26.0	70 - 130	30	
tert-Butylbenzene	ND	1.0	102	106	3.8	140	108	25.8	70 - 130	30	m
Tetrachloroethene	ND	5.0	103	104	1.0	102	77	27.9	70 - 130	30	
Tetrahydrofuran (THF)	ND	5.0	90	101	11.5	99	83	17.6	70 - 130	30	
Toluene	ND	1.0	103	105	1.9	103	79	26.4	70 - 130	30	
trans-1,2-Dichloroethene	ND	5.0	103	106	2.9	109	85	24.7	70 - 130	30	
trans-1,3-Dichloropropene	ND	5.0	106	108	1.9	89	72	21.1	70 - 130	30	
trans-1,4-dichloro-2-butene	ND	5.0	119	129	8.1	111	90	20.9	70 - 130	30	
Trichloroethene	ND	5.0	99	101	2.0	104	80	26.1	70 - 130	30	
Trichlorofluoromethane	ND	5.0	101	104	2.9	118	90	26.9	70 - 130	30	
Trichlorotrifluoroethane	ND	5.0	101	105	3.9	114	88	25.7	70 - 130	30	
Vinyl chloride	ND	5.0	106	109	2.8	119	90	27.8	70 - 130	30	
% 1,2-dichlorobenzene-d4	101	%	101	101	0.0	97	96	1.0	70 - 130	30	
% Bromofluorobenzene	97	%	100	100	0.0	89	88	1.1	70 - 130	30	
% Dibromofluoromethane	95	%	99	101	2.0	101	100	1.0	70 - 130	30	
% Toluene-d8	99	%	99	98	1.0	96	95	1.0	70 - 130	30	

Comment:

Additional 8260 criteria: 10% of LCS/LCSD compounds can be outside of acceptance criteria as long as recovery is 40-160%, 25-160% for Chloroethane-HL and Trichlorofluoromethane-HL.

QA/QC Data

SDG I.D.: GCG10797

Parameter	Blank	Blk RL	LCS %	LCSD %	LCS RPD	MS %	MSD %	MS RPD	% Rec Limits	% RPD Limits

l = This parameter is outside laboratory LCS/LCSD specified recovery limits.
m = This parameter is outside laboratory MS/MSD specified recovery limits.
r = This parameter is outside laboratory RPD specified recovery limits.

If there are any questions regarding this data, please call Phoenix Client Services at extension 200.

RPD - Relative Percent Difference
LCS - Laboratory Control Sample
LCSD - Laboratory Control Sample Duplicate
MS - Matrix Spike
MS Dup - Matrix Spike Duplicate
NC - No Criteria
Intf - Interference

Phyllis Shiller, Laboratory Director
June 17, 2020

Wednesday, June 17, 2020

Criteria: CT: GAM, GBM, I/C, RC

State: CT

Sample Criteria Exceedances Report

GCG10797 - TIGHE-DAS

SampNo	Acode	Phoenix Analyte	Criteria	Result	RL	Criteria	RL Criteria	Analysis Units
CG10797	$8270-SMR	Benz(a)anthracene	CT / RSR DEC RES (mg/kg) / Semivolatiles	1400	290	1000	1000	ug/Kg
CG10797	$8270-SMR	Benz(a)anthracene	CT / RSR GA,GAA (mg/kg) / Semivolatiles	1400	290	1000	1000	ug/Kg
CG10797	$8270-SMR	Benz(a)anthracene	CT / RSR GB (mg/kg) / Semivolatiles	1400	290	1000	1000	ug/Kg
CG10797	$8270-SMR	Chrysene	CT / RSR GA,GAA (mg/kg) / APS Organics	1600	290	1000	1000	ug/Kg
CG10797	$8270-SMR	Chrysene	CT / RSR GB (mg/kg) / APS Organics	1600	290	1000	1000	ug/Kg
CG10797	$8270-SMR	Benzo(b)fluoranthene	CT / RSR DEC RES (mg/kg) / Semivolatiles	1100	290	1000	1000	ug/Kg
CG10797	$8270-SMR	Benzo(b)fluoranthene	CT / RSR GA,GAA (mg/kg) / Semivolatiles	1100	290	1000	1000	ug/Kg
CG10797	$8270-SMR	Benzo(b)fluoranthene	CT / RSR GB (mg/kg) / Semivolatiles	1100	290	1000	1000	ug/Kg
CG10797	$8270-SMR	Benzo(k)fluoranthene	CT / RSR GA,GAA (mg/kg) / Semivolatiles	1100	290	1000	1000	ug/Kg
CG10797	$8270-SMR	Benzo(k)fluoranthene	CT / RSR GB (mg/kg) / Semivolatiles	1100	290	1000	1000	ug/Kg
CG10797	$8270-SMR	Benzo(a)pyrene	CT / RSR DEC I/C (mg/kg) / Semivolatiles	1300	290	1000	1000	ug/Kg
CG10797	$8270-SMR	Benzo(a)pyrene	CT / RSR DEC RES (mg/kg) / Semivolatiles	1300	290	1000	1000	ug/Kg
CG10797	$8270-SMR	Benzo(a)pyrene	CT / RSR GA,GAA (mg/kg) / Semivolatiles	1300	290	1000	1000	ug/Kg
CG10797	$8270-SMR	Benzo(a)pyrene	CT / RSR GB (mg/kg) / Semivolatiles	1300	290	1000	1000	ug/Kg
CG10802	$ETPH_SMR	Ext. Petroleum H.C. (C9-C36)	CT / RSR DEC RES (mg/kg) / Pest/PCB/TPH	520	68	500	500	mg/Kg
CG10802	$ETPH_SMR	Ext. Petroleum H.C. (C9-C36)	CT / RSR GA,GAA (mg/kg) / Pesticides/TPH	520	68	500	500	mg/Kg
CG10809	$8270-SMR	Chrysene	CT / RSR GA,GAA (mg/kg) / APS Organics	1100	320	1000	1000	ug/Kg
CG10809	$8270-SMR	Chrysene	CT / RSR GB (mg/kg) / APS Organics	1100	320	1000	1000	ug/Kg

REASONABLE CONFIDENCE PROTOCOL
LABORATORY ANALYSIS QA/QC CERTIFICATION FORM

Laboratory Name: Phoenix Environmental Labs, Inc. ***Client:*** Tighe & Bond

Project Location: TURNEY CREEK OUTFALL ***Project Number:***

Laboratory Sample ID(s): CG10797, CG10800, CG10802, CG10803, CG10806, CG10808, CG10809 ***Sampling Date(s):*** 6/10/2020

List RCP Methods Used (e.g., 8260, 8270, et cetera) 6010, 7470/7471, 8081, 8082, 8260, 8270, ETPH

1	**For each analytical method referenced in this laboratory report package, were all specified QA/QC performance criteria followed, including the requirement to explain any criteria falling outside of acceptable guidelines, as specified in the CT DEP method-specific Reasonable Confidence Protocol documents?**	☑ Yes ☐ No
1A	**Were the method specified preservation and holding time requirements met?**	☑ Yes ☐ No
1B	***VPH and EPH methods only:*** **Was the VPH or EPH method conducted without significant modifications (see section 11.3 of respective RCP methods)**	☐ Yes ☐ No ☑ NA
2	**Were all samples received by the laboratory in a condition consistent with that described on the associated Chain-of-Custody document(s)?**	☑ Yes ☐ No
3	**Were samples received at an appropriate temperature (< 6 Degrees C)?**	☑ Yes ☐ No ☐ NA
4	**Were all QA/QC performance criteria specified in the Reasonable Confidence Protocol documents acheived? See Sections: ICP Narration, SVOA Narration, VOA Narration.**	☐ Yes ☑ No
5	**a) Were reporting limits specified or referenced on the chain-of-custody?** **b) Were these reporting limits met?**	☑ Yes ☐ No ☑ Yes ☐ No
6	**For each analytical method referenced in this laboratory report package, were results reported for all constituents identified in the method-specific analyte lists presented in the Reasonable Confidence Protocol documents?**	☑ Yes ☐ No
7	**Are project-specific matrix spikes and laboratory duplicates included in the data set?**	☑ Yes ☐ No

Notes: For all questions to which the response was "No" (with the exception of question #7), additional information must be provided in an attached narrative. If the answer to question #1, #1A or 1B is "No", the data package does not meet the requirements for "Reasonable Confidence". This form may not be altered and all questions must be answered.

I, the undersigned, attest under the pains and penalties of perjury that, to the best of my knowledge and belief and based upon my personal inquiry of those responsible for providing the information contained in this analytical report, such information is accurate and complete.

Authorized Signature: Phyllis Shiller **Position:** Laboratory Director

Printed Name: Phyllis Shiller **Date:** Wednesday, June 17, 2020

Name of Laboratory Phoenix Environmental Labs, Inc.

This certification form is to be used for RCP methods only.

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RCP Certification Report

June 17, 2020

SDG I.D.: GCG10797

Cyanide Narration

Were all QA/QC performance criteria specified in the Reasonable Confidence Protocol documents achieved? Yes.

Instrument:

LACHAT 06/12/20-1 Dustin Harrison, Greg Danielewski, Chemist 06/12/20

CG10809

The samples were distilled in accordance with the method.
The initial calibration met criteria.

The calibration check standards (ICV,CCV) were within 15% of true value and were analyzed at a frequencey of one per ten samples.
The continuing calibration blanks (ICB,CCB) had concentrations less than the reporting level.

The method blank, laboratory control sample (LCS), and matrix spike were distilled with the samples.

QC (Batch Specific):

Batch 533278 (CG10306)

CG10809

All LCS recoveries were within 80 - 120 with the following exceptions: None.
Additional: LCS acceptance range is 80-120% for soils MS acceptance range 75-125% for soils

ETPH Narration

Were all QA/QC performance criteria specified in the Reasonable Confidence Protocol documents achieved? Yes.

Instrument:

AU-FID1 06/11/20-1 Jeff Bucko, Chemist 06/11/20

CG10802 (1X)

The initial calibration (ETPH611I) RSD for the compound list was less than 30% except for the following compounds: None.
As per section 7.2.3, a discrimination check standard was run (611A018_1) and contained the following outliers: None.
The continuing calibration %D for the compound list was less than 30% except for the following compounds:None.

AU-FID21 06/11/20-1 Jeff Bucko, Chemist 06/11/20

CG10797 (1X)

The initial calibration (ETPH420I) RSD for the compound list was less than 30% except for the following compounds: None.
As per section 7.2.3, a discrimination check standard was run (611A003_2) and contained the following outliers: None.
The continuing calibration %D for the compound list was less than 30% except for the following compounds:None.

AU-FID22 06/11/20-1 Jeff Bucko, Chemist 06/11/20

CG10800 (1X), CG10803 (1X), CG10806 (1X), CG10808 (1X), CG10809 (1X)

The initial calibration (ETPH415I) RSD for the compound list was less than 30% except for the following compounds: None.
As per section 7.2.3, a discrimination check standard was run (611A010_1) and contained the following outliers: None.
The continuing calibration %D for the compound list was less than 30% except for the following compounds:None.

QC (Site Specific):

Batch 533024 (CG10806)

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SDG I.D.: GCG10797

ETPH Narration

CG10797, CG10800, CG10802, CG10803, CG10806, CG10808, CG10809

All LCS recoveries were within 60 - 120 with the following exceptions: None.
All LCSD recoveries were within 60 - 120 with the following exceptions: None.
All LCS/LCSD RPDs were less than 30% with the following exceptions: None.
All MS recoveries were within 50 - 150 with the following exceptions: None.
All MSD recoveries were within 50 - 150 with the following exceptions: None.
All MS/MSD RPDs were less than 30% with the following exceptions: None.
Additional surrogate criteria: LCS acceptance range is 60-120% MS acceptance range 50-150%. The ETPH/DRO LCS has been normalized based on the alkane calibration.

Mercury Narration

Were all QA/QC performance criteria specified in the analytical method achieved? Yes.

Instrument:

MERLIN 06/12/20 07:53 Rick Schweitzer, Chemist 06/12/20

CG10797

The method preparation blank, ICB, and CCBs contain all of the acids and reagents as the samples.
The initial calibration met all criteria including a standard run at or below the reporting level.
All calibration verification standards (ICV, CCV) met criteria.
All calibration blank verification standards (ICB, CCB) met criteria.
The matrix spike sample is used to identify spectral interference for each batch of samples, if within 85-115%, no interference is observed and no further action is taken.
The following Initial Calibration Verification (ICV) compounds did not meet criteria: None.
The following Continuing Calibration Verification (CCV) compounds did not meet criteria: None.

MERLIN 06/15/20 09:02 Rick Schweitzer, Chemist 06/15/20

CG10800, CG10802, CG10803, CG10806, CG10808, CG10809

The method preparation blank, ICB, and CCBs contain all of the acids and reagents as the samples.
The initial calibration met all criteria including a standard run at or below the reporting level.
All calibration verification standards (ICV, CCV) met criteria.
All calibration blank verification standards (ICB, CCB) met criteria.
The matrix spike sample is used to identify spectral interference for each batch of samples, if within 85-115%, no interference is observed and no further action is taken.
The following Initial Calibration Verification (ICV) compounds did not meet criteria: None.
The following Continuing Calibration Verification (CCV) compounds did not meet criteria: None.

QC (Batch Specific):

Batch 533274 (CG11693)

CG10797

All LCS recoveries were within 70 - 130 with the following exceptions: None.
All LCSD recoveries were within 70 - 130 with the following exceptions: None.
All LCS/LCSD RPDs were less than 30% with the following exceptions: None.
Additional Mercury criteria: LCS acceptance range for waters is 80-120% and for soils is 70-130%. MS acceptance range is 75-125%.

Batch 533533 (CG10924)

CG10800, CG10802, CG10803, CG10806, CG10808, CG10809

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June 17, 2020

SDG I.D.: GCG10797

Mercury Narration

All LCS recoveries were within 70 - 130 with the following exceptions: None.
All LCSD recoveries were within 70 - 130 with the following exceptions: None.
All LCS/LCSD RPDs were less than 30% with the following exceptions: None.
Additional Mercury criteria: LCS acceptance range for waters is 80-120% and for soils is 70-130%. MS acceptance range is 75-125%.

ICP Metals Narration

Were all QA/QC performance criteria specified in the analytical method achieved? No.

QC Batch 533023 (Samples: CG10797, CG10800, CG10802, CG10803, CG10806, CG10808, CG10809): -----

The Sample/Duplicate RPD exceeds the method criteria for one or more analytes, therefore there may be variability in the reported result. (Lead, Zinc)

Instrument:

ARCOS-2 06/11/20 09:17 Tina Hall, Chemist 06/11/20

CG10797, CG10800, CG10802, CG10803, CG10806, CG10808, CG10809

The linear range is defined daily by the calibration range.
The following Initial Calibration Verification (ICV) compounds did not meet criteria: None.
The following Continuing Calibration Verification (CCV) compounds did not meet criteria: None.
The following ICP Interference Check (ICSAB) compounds did not meet criteria: None.

QC (Site Specific):

Batch 533023 (CG10797)

CG10797, CG10800, CG10802, CG10803, CG10806, CG10808, CG10809

All LCS recoveries were within 75 - 125 with the following exceptions: None.
All LCSD recoveries were within 75 - 125 with the following exceptions: None.
All LCS/LCSD RPDs were less than 35% with the following exceptions: None.
All MS recoveries were within 75 - 125 with the following exceptions: None.
Additional Criteria: LCS acceptance range is 80-120% MS acceptance range 75-125%.

PCB Narration

Were all QA/QC performance criteria specified in the Reasonable Confidence Protocol documents achieved? Yes.

Instrument:

AU-ECD24 06/11/20-1 Saadia Chudary, Chemist 06/11/20

CG10797 (10X), CG10800 (10X), CG10802 (10X), CG10803 (10X), CG10806 (10X), CG10808 (10X), CG10809 (10X)

The initial calibration (PC604AI) RSD for the compound list was less than 20% except for the following compounds: None.
The initial calibration (PC604BI) RSD for the compound list was less than 20% except for the following compounds: None.
The continuing calibration %D for the compound list was less than 15% except for the following compounds:None.

QC (Batch Specific):

Batch 532969 (CG07735)

CG10797, CG10800, CG10802, CG10803, CG10806, CG10808, CG10809

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RCP Certification Report

June 17, 2020

SDG I.D.: GCG10797

PCB Narration

All LCS recoveries were within 40 - 140 with the following exceptions: None.
All LCSD recoveries were within 40 - 140 with the following exceptions: None.
All LCS/LCSD RPDs were less than 30% with the following exceptions: None.

PEST Narration

Were all QA/QC performance criteria specified in the Reasonable Confidence Protocol documents achieved? Yes.

Instrument:

AU-ECD4 06/12/20-1 Chelsey Guerette, Chemist 06/12/20

CG10797 (2X), CG10800 (2X), CG10802 (2X), CG10803 (2X), CG10806 (2X), CG10808 (2X), CG10809 (2X)

The initial calibration (PS0610AI) RSD for the compound list was less than 20% except for the following compounds: None.
The initial calibration (PS0610BI) RSD for the compound list was less than 20% except for the following compounds: None.
The Endrin and DDT breakdown does not exceed 15% except for the following compounds:None.
The Endrin and DDT breakdown does not exceed the maximum of 20% except for the following compounds:None.
The continuing calibration %D for the compound list was less than 20% except for the following compounds:
Samples: CG10809
Preceding CC 612A016 - Endrin aldehyde 28%H (20%), Endrin Ketone 21%H (20%), Methoxychlor 24%H (20%)
Succeeding CC 612A029 - Endrin aldehyde 39%H (20%), Methoxychlor 23%H (20%)
Samples: CG10797, CG10800, CG10802, CG10803, CG10806, CG10808
Preceding CC 612A029 - Endrin aldehyde 39%H (20%), Methoxychlor 23%H (20%)
Succeeding CC 612A043 - b-BHC 21%H (20%), Endrin aldehyde 40%H (20%), Endrin Ketone 23%H (20%), Methoxychlor 33%H (20%)

QC (Batch Specific):

Batch 533147 (CG11524)

CG10797, CG10800, CG10802, CG10803, CG10806, CG10808, CG10809

All LCS recoveries were within 40 - 140 with the following exceptions: None.
All LCSD recoveries were within 40 - 140 with the following exceptions: None.
All LCS/LCSD RPDs were less than 30% with the following exceptions: None.

SVOA Narration

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June 17, 2020

SDG I.D.: GCG10797

SVOA Narration

Were all QA/QC performance criteria specified in the Reasonable Confidence Protocol documents achieved? No.

QC Batch 532945 (Samples: CG10802, CG10806, CG10808, CG10809): -----

The LCS/LCSD is below the method criteria. A low bias is likely. (Benzidine)

The LCS/LCSD is below the lower range. A slight low bias is possible. (Benzoic Acid, Hexachlorocyclopentadiene, N-Nitrosodimethylamine, (Aniline, Pentachlorophenol, Pyridine)

The LCS recovery is below the lower range. All of the other QC is acceptable, therefore no significant bias is suspected. (3,3''-Dichlorobenzidine)

The LCS/LCSD RPD exceeds the method criteria for one or more analytes, but these analytes were not reported in the sample(s) so no variability is suspected. (3,3''-Dichlorobenzidine, Pentachlorophenol)

QC Batch 533006 (Samples: CG10797, CG10800, CG10803): -----

Several QC recoveries are below the lower range. A low bias is possible. (N-Nitrosodimethylamine)

The LCS/LCSD recovery is below the method criteria. A low bias is possible. (Benzoic Acid)

The LCS/LCSD RPD exceeds the method criteria for one analyte. This analyte was not reported in the sample(s) so no variability is suspected. (2,4-Dinitrophenol)

The QC recoveries are below the method criteria. A low bias is likely. (Benzidine)

The QC recovery for one analyte are above the upper range but was not reported in the sample(s), therefore no significant bias is suspected. (2-Nitroaniline)

Instrument:

CHEM34 06/10/20-1 Matt Richard, Chemist 06/10/20

CG10802 (1X), CG10806 (1X), CG10808 (1X), CG10809 (1X)

Initial Calibration Evaluation (CHEM34/34_SPLIT_0515):
100% of target compounds met criteria.
The following compounds had %RSDs >20%: None.
The following compounds did not meet recommended response factors: 2-Nitrophenol 0.080 (0.1), Hexachlorobenzene 0.090 (0.1)
The following compounds did not meet a minimum response factors: None.

Continuing Calibration Verification (CHEM34/0610_12-34_SPLIT_0515):
Internal standard areas were within 50 to 200% of the initial calibration with the following exceptions: None.
99% of target compounds met criteria.
The following compounds did not meet % deviation criteria: None.
The following compounds did not meet maximum % deviations: None.
The following compounds did not meet recommended response factors: 2-Nitrophenol 0.082 (0.1), Hexachlorobenzene 0.097 (0.1)
The following compounds did not meet minimum response factors: None.

CHEM69 06/10/20-1 Matt Richard, Chemist 06/10/20

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RCP Certification Report

June 17, 2020

SDG I.D.: GCG10797

SVOA Narration

CG10797 (1X), CG10800 (1X), CG10803 (1X)

Initial Calibration Evaluation (CHEM69/69_SPLIT_0527):
100% of target compounds met criteria.
The following compounds had %RSDs >20%: None.
The following compounds did not meet recommended response factors: 2-Nitrophenol 0.098 (0.1)
The following compounds did not meet a minimum response factors: None.

Continuing Calibration Verification (CHEM69/0610_13-69_SPLIT_0527):
Internal standard areas were within 50 to 200% of the initial calibration with the following exceptions: None.
100% of target compounds met criteria.
The following compounds did not meet % deviation criteria: None.
The following compounds did not meet maximum % deviations: None.
The following compounds did not meet recommended response factors: Bis(2-chloroethoxy)methane 0.263 (0.3), Bis(2-chloroethyl)ether 0.693 (0.7)
The following compounds did not meet minimum response factors: None.

QC (Batch Specific):

Batch 532945 (CG10924)

CG10802, CG10806, CG10808, CG10809

All LCS recoveries were within 40 - 140 with the following exceptions: 3,3'-Dichlorobenzidine(32%), Aniline(31%), Benzidine(<10%), Benzoic Acid(21%), Hexachlorocyclopentadiene(27%), N-Nitrosodimethylamine(34%), Pentachlorophenol(26%), Pyridine(28%)
All LCSD recoveries were within 40 - 140 with the following exceptions: Aniline(33%), Benzidine(<10%), Benzoic Acid(20%), Hexachlorocyclopentadiene(23%), N-Nitrosodimethylamine(36%), Pentachlorophenol(16%), Pyridine(29%)
All LCS/LCSD RPDs were less than 30% with the following exceptions: 3,3'-Dichlorobenzidine(43.9%), Pentachlorophenol(47.6%)
This batch consists of a Blank, LCS, LCSD and MS.
Additional 8270 criteria: 20% of compounds can be outside of acceptance criteria as long as recovery is at least 10%. (Acid surrogates acceptance range for aqueous samples: 15-110%, for soils 30-130%)

Batch 533006 (CG10505)

CG10797, CG10800, CG10803

All LCS recoveries were within 40 - 140 with the following exceptions: 2-Nitroaniline(172%), Benzidine(<10%), Benzoic Acid(<10%)
All LCSD recoveries were within 40 - 140 with the following exceptions: 2-Nitroaniline(173%), Benzidine(<10%), Benzoic Acid(<10%), N-Nitrosodimethylamine(39%)
All LCS/LCSD RPDs were less than 30% with the following exceptions: 2,4-Dinitrophenol(47.2%)
Additional 8270 criteria: 20% of compounds can be outside of acceptance criteria as long as recovery is at least 10%. (Acid surrogates acceptance range for aqueous samples: 15-110%, for soils 30-130%)

VOA Narration

Were all QA/QC performance criteria specified in the Reasonable Confidence Protocol documents achieved? No.

QC Batch 533551 (Samples: CG10802, CG10808, CG10809): -----

Several QC recoveries are below the lower range, a low bias is possible. (Acetone)

The LCS recovery is below the lower range. All of the other QC is acceptable, therefore no significant bias is suspected. (Methyl ethyl ketone)

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RCP Certification Report

June 17, 2020

SDG I.D.: GCG10797

VOA Narration

Instrument:

CHEM03 06/12/20-1 Jane Li, Chemist 06/12/20

CG10797 (1X)

Initial Calibration Evaluation (CHEM03/VT-L060420):
93% of target compounds met criteria.
The following compounds had %RSDs >20%: 1,2-Dibromo-3-chloropropane 29% (20%), Acetone 24% (20%), Bromoform 34% (20%), Chloroethane 25% (20%), Dibromochloromethane 22% (20%), trans-1,4-dichloro-2-butene 26% (20%)
The following compounds did not meet Table 4 recommended minimum response factors: Acetone 0.085 (0.1), Bromoform 0.099 (0.1), Tetrachloroethene 0.187 (0.2)
The following compounds did not meet the minimum response factor of 0.05: None.

Continuing Calibration Verification (CHEM03/0612_01-VT-L060420):
Internal standard areas were within 50 to 200% of the initial calibration with the following exceptions: None.
100% of target compounds met criteria.
The following compounds did not meet % deviation criteria: None.
The following compounds did not meet maximum % deviations: None.
The following compounds did not meet Table 4 recommended minimum response factors: None.

CHEM26 06/11/20-1 Jane Li, Chemist 06/11/20

CG10800 (1X), CG10803 (1X)

Initial Calibration Evaluation (CHEM26/VT-052720):
99% of target compounds met criteria.
The following compounds had %RSDs >20%: Acetone 26% (20%)
The following compounds did not meet Table 4 recommended minimum response factors: None.
The following compounds did not meet the minimum response factor of 0.05: None.

Continuing Calibration Verification (CHEM26/0611_01-VT-052720):
Internal standard areas were within 50 to 200% of the initial calibration with the following exceptions: None.
99% of target compounds met criteria.
The following compounds did not meet % deviation criteria: None.
The following compounds did not meet maximum % deviations: None.
The following compounds did not meet Table 4 recommended minimum response factors: None.

CHEM26 06/12/20-1 Jane Li, Chemist 06/12/20

CG10802 (1X), CG10808 (1X), CG10809 (1X)

Initial Calibration Evaluation (CHEM26/VT-052720):
99% of target compounds met criteria.
The following compounds had %RSDs >20%: Acetone 26% (20%)
The following compounds did not meet Table 4 recommended minimum response factors: None.
The following compounds did not meet the minimum response factor of 0.05: None.

Continuing Calibration Verification (CHEM26/0612_02-VT-052720):
Internal standard areas were within 50 to 200% of the initial calibration with the following exceptions: None.
100% of target compounds met criteria.
The following compounds did not meet % deviation criteria: None.
The following compounds did not meet maximum % deviations: None.
The following compounds did not meet Table 4 recommended minimum response factors: None.

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RCP Certification Report

June 17, 2020

SDG I.D.: GCG10797

VOA Narration

QC (Batch Specific):

Batch 533328 (CG10400) CHEM26 6/11/2020-1

CG10800(1X), CG10803(1X)

All LCS recoveries were within 70 - 130 with the following exceptions: None.
All LCSD recoveries were within 70 - 130 with the following exceptions: None.
All LCS/LCSD RPDs were less than 30% with the following exceptions: None.
A blank MS/MSD was analyzed with this Low Level batch.
Additional 8260 criteria: 10% of LCS/LCSD compounds can be outside of acceptance criteria as long as recovery is 40-160%, 25-160% for Chloroethane-HL and Trichlorofluoromethane-HL.

Batch 533540 (CG11105) CHEM03 6/12/2020-1

CG10797(1X)

All LCS recoveries were within 70 - 130 with the following exceptions: None.
All LCSD recoveries were within 70 - 130 with the following exceptions: None.
All LCS/LCSD RPDs were less than 30% with the following exceptions: None.
Additional 8260 criteria: 10% of LCS/LCSD compounds can be outside of acceptance criteria as long as recovery is 40-160%, 25-160% for Chloroethane-HL and Trichlorofluoromethane-HL.

Batch 533551 (CG09674) CHEM26 6/12/2020-1

CG10802(1X), CG10808(1X), CG10809(1X)

All LCS recoveries were within 70 - 130 with the following exceptions: Acetone(67%), Methyl ethyl ketone(67%)
All LCSD recoveries were within 70 - 130 with the following exceptions: Acetone(66%)
All LCS/LCSD RPDs were less than 30% with the following exceptions: None.
A blank MS/MSD was analyzed with this Low Level batch.
Additional 8260 criteria: 10% of LCS/LCSD compounds can be outside of acceptance criteria as long as recovery is 40-160%, 25-160% for Chloroethane-HL and Trichlorofluoromethane-HL.

Temperature Narration

The samples were received at 4.2C with cooling initiated.
(Note acceptance criteria for relevant matrices is above freezing up to 6°C)

Cooler: Yes ☐ No ☐
Coolant: IPK ☐ ICE ☐ No ☐
Temp 1.2 °C Pg of

PHOENIX Environmental Laboratories, Inc.

CHAIN OF CUSTODY RECORD

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Client Services (860) 645-8726

Data Delivery/Contact Options:
☐ Fax:
☐ Phone:
☒ Email: On file

Customer: See pg 1
Address:

Project: Turney Creek Outfall
Report to: See pg 1
Invoice to: " "
QUOTE # " "

Project P.O:

This section MUST be completed with Bottle Quantities.

Client Sample - Information - Identification
Sampler's Signature: Ian Adams Date: 6-10

Matrix Code:
DW=Drinking Water GW=Ground Water SW=Surface Water WW=Waste Water
RW=Raw Water SE=Sediment SL=Sludge S=Soil SD=Solid W=Wipe OIL=Oil
B=Bulk L=Liquid X = ____________(Other)

Analysis Request

PHOENIX USE ONLY SAMPLE #	Customer Sample Identification	Sample Matrix	Date Sampled	Time Sampled	ETPHs	SVOCs	PCBs Sox	RSR Metals	Pesticides	Reactivity	pH	Ignitability	Paint Filter test	VOCs	GL Amber 8 oz. w/H3PO4	Soil VOA Vials [X] methanol [X] H2O	GL Soil container (8) oz	GL Soil container ( ) oz	40 ml VOA Vial [■] As is [■] HCl	GL Amber 1000ml [ ] As is [ ] H2SO4 [ ] 1000ml	PL As is [ ] 250ml [ ] 500ml [ ] 1000ml	PL H2SO4 [ ] 250ml [ ] 500ml	PL HNO3 250ml	PL NaOH 250ml	Bacteria Bottle w/thio	Bacteria Bottle as is
10809	WC-1	SED	6-10	1300	X	X	X	X	X	X	X	X	X	X		3	2									

Relinquished by:	Accepted by:	Date:	Time:
Ian Adams	[signature]	6-10	1600

Comments, Special Requirements or Regulations:

Turnaround Time:
☐ 1 Day*
☐ 2 Days*
☐ 3 Days*
☒ Standard
☐ Other
* SURCHARGE APPLIES

RI
☐ Direct Exposure (Residential)
☐ GW
☐ Other

CT
☒ RCP Cert
☐ GW Protection
☐ SW Protection
☒ GA Mobility
☒ GB Mobility
☒ Residential DEC
☒ I/C DEC
☐ Other

MA
☐ MCP Certification
☐ GW-1
☐ GW-2
☐ GW-3
☐ S-1 GW-1 ☐ S-1 GW-2 ☐ S-1 GW-3
☐ S-2 GW-1 ☐ S-2 GW-2 ☐ S-2 GW-3
☐ S-3 GW-1 ☐ S-3 GW-2 ☐ S-3 GW-3
☐ MWRA eSMART ☐ Other

State where samples were collected: CT

Data Format
☒ Excel
☒ PDF
☐ GIS/Key
☐ EQuIS
☒ Other EnviroData

Data Package
☐ Tier II Checklist
☐ Full Data Package*
☒ Phoenix Std Report
☐ Other
* SURCHARGE APPLIES

Cooler: Yes ☐ No ☐
Coolant: IPK ☐ ICE ☐ No ☐

CHAIN OF CUSTODY RECORD

Temp 4.3 C Pg 1 of 2

PHOENIX Environmental Laboratories, Inc.

587 East Middle Turnpike, P.O. Box 370, Manchester, CT 06040
Email: info@phoenixlabs.com Fax (860) 645-0823
Client Services (860) 645-8726

Data Delivery/Contact Options:
☐ Fax:
☐ Phone:
☒ Email: On file

Customer: 213 Court St
Address: Suite 1100
Middletown CT 06457

Project: Turney Creek ~~Bridge~~ Outfall
Report to: Brian Sirowich, Ian Adomeit
Invoice to: Tighe + Bond Westfield
QUOTE #: DAS Rates
Project P.O:

This section MUST be completed with Bottle Quantities.

Client Sample - Information - Identification
Sampler's Signature: Ian Adomeit Date: 6-10

Analysis Request

Matrix Code:
DW=Drinking Water GW=Ground Water SW=Surface Water WW=Waste Water
RW=Raw Water SE=Sediment SL=Sludge S=Soil SD=Solid W=Wipe OIL=Oil
B=Bulk L=Liquid X = ____________(Other)

	PHOENIX USE ONLY SAMPLE #	Customer Sample Identification	Sample Matrix	Date Sampled	Time Sampled	ETPHs	VOCs	SVOCs	PCBs SOX	RSR metals	Pesticides	GL Amber 8 oz. w/H3PO4	Soil VOA Vials [H] methanol [ ] H2O	GL Soil container (8) oz	GL Soil container ( ) oz	40 ml Vial	GL Amber 1000ml [ ] As is [ ] H2SO4	PL As is [ ] 250ml [ ] 500ml [ ] 1000ml	PL H2SO4 [ ] 250ml [ ] 500ml	PL HNO3 250ml	PL NaOH 250ml	Bacteria Bottle w/thio	Bacteria Bottle as is
✱	10797	SED-1 (0-2')	SED	6-10	0930	X	X	X	X	X	X		3	1	[scribbled]	3							
	10798	SED-1 (2-4')	↓	↓	0945	↓	↓	↓	↓	↓	↓		↓	↓		[scribbled]							
	10799	SED-2 (0-2')			1000											[scribbled]							
	10800	SED-2 (2-4')			1015											[scribbled]							
	10801	SED-3 (0-2')			1030											[scribbled]							
	10802	SED-4 (0-2')			1100											[scribbled]							
	10803	SED-3 (2-4')			1045								↓			[scribbled]							
(✱)	10804	SED-4 (2-4')			1115								3		[scribbled]	3							
✱✱	10805	SED-5 (0-2')			1130		[scribbled]																
	10806	SED-5 (2-4')			1145		X						3			[scribbled]							
	10807	SED-6 (0-2')	↓	↓	1200								3	↓		[scribbled]							
	10808	SED-6 (2-4')	SED	6-10	1215	↓	↓	↓	↓	↓	↓		3	1		3							

Relinquished by:	Accepted by:	Date:	Time:
Ian Adomeit	[signature]	6-10	1600

Comments, Special Requirements or Regulations:
✱✱ Did rcv VOAs + Jar
SED-5 (0-2') does not have VOA vials
(✱) Rcvd 1 Jar emailed client (KO)
✱ Also Rcvd ziploc bag full of sample SED-1 (0-2')

Turnaround Time:
☐ 1 Day*
☐ 2 Days*
☐ 3 Days*
☒ Standard
☐ Other
* SURCHARGE APPLIES

RI
☐ (Residential) Direct Exposure
☐ (Comm/Industrial) Direct Exposure
☐ GA Leachability
☐ GB Leachability
☐ GA-GW Objectives
☐ GB-GW Objectives

CT
☒ RCP Cert
☐ GW Protection
☐ SW Protection
☒ GA Mobility
☒ GB Mobility
☒ Residential DEC
☒ I/C DEC
☐ Other

MA
☐ MCP Certification
☐ GW-1 ☐ MWRA eSMART
☐ GW-2
☐ GW-3
☐ S-1 GW-1 ☐ S-1 GW-2 ☐ S-1 GW-3
☐ S-2 GW-1 ☐ S-2 GW-2 ☐ S-2 GW-3
☐ S-3 GW-1 ☐ S-3 GW-2 ☐ S-3 GW-3
☐ SW Protection

State where samples were collected: CT

Data Format
☒ Excel
☒ PDF
☐ GIS/Key
☐ EQuIS
☒ Other EnviroData

Data Package
☐ Tier II Checklist
☐ Full Data Package*
☒ Phoenix Std Report
☐ Other
* SURCHARGE APPLIES

GCG 10797

Krystal Delgado

From: Krystal Delgado
Sent: Wednesday, June 10, 2020 8:01 PM
To: 'BSirowich@tighebond.com'
Subject: Turney Creek Outfall

Importance: High

Good Evening,

For the project mentioned above, there was a note on the COC stating sample ID "SED-5 (0-2)" did not have Voas. We did receive voas with this sample ID marked on them.

We did not receive voas for sample ID "SED-4 (2-4)"

If you have any questions or concerns please feel free to contact the lab.

Thank you

Krystal Delgado
Front Desk/Sample Receiving
Bottle Room Tech
Phoenix Environmental Laboratories
587 East Middle Tpke.
Manchester, CT 06040
krystald@phoenixlabs.com
PH: 860-645-1102
FX: 860-645-0823

Sarah Bell

From: Ian Adomeit <IAdomeit@TigheBond.com>
Sent: Thursday, June 11, 2020 6:27 AM
To: Krystal Delgado
Cc: Sarah Bell
Subject: GCG10797 Changes

Good morning,

I would like to make changes to the analyses being run for SDG GCG10797.

Please turn off all analyses for the following samples:

- CG10798
- CG10799
- CG10801
- CG10804
- CG10805
- CG10807

You can also throw out the ziplock bag labeled SED 1 (0-2'). That was inadvertently left in the cooler.

Thank you,

Ian

Ian Adomeit | Staff Engineer
Tighe & Bond | 213 Court Street, Suite 1100 | Middletown, CT 06457 | T. 860.852.5236 | C. 860.463.6715
www.tighebond.com | Follow us on: Twitter Facebook LinkedIn
Tighe & Bond

gcg 10797

Krystal Delgado

From: Krystal Delgado
Sent: Thursday, June 11, 2020 9:54 AM
To: 'Ian Adomeit'
Subject: RE: Turney Creek Outfall

Thank you for clarifying that for me! ☺
Have a good day!

From: Ian Adomeit [mailto:IAdomeit@TigheBond.com]
Sent: Wednesday, June 10, 2020 10:42 PM
To: Brian Sirowich
Cc: Krystal Delgado
Subject: Re: Turney Creek Outfall

Hi Krystal,

I wrote down the wrong sample ID in the comments. The comment should have read "SED-4 (2-4)' does not have VOAs." Thank you for catching that.

All my best,

Ian

Ian Adomeit | Staff Engineer
Tighe & Bond | 213 Court Street, Suite 1100 | Middletown, CT 06457 | T. 860-852-5236 | C. 860-463-6715
www.tighebond.com | Follow us on: Twitter Facebook LinkedIn
Tighe&Bond

From: Brian Sirowich <BSirowich@TigheBond.com>
Date: Wednesday, June 10, 2020 at 8:10 PM
To: Ian Adomeit <IAdomeit@TigheBond.com>
Subject: Fwd: Turney Creek Outfall

Let's discuss tomorrow and figure it out.

Get Outlook for iOS

From: Krystal Delgado <KrystalD@phoenixlabs.com>
Sent: Wednesday, June 10, 2020 8:00 PM
To: Brian Sirowich
Subject: Turney Creek Outfall

[Caution - External Sender]

Good Evening,

gcg 10797

For the project mentioned above, there was a note on the COC stating sample ID "SED-5 (0-2)" did not have Voas. We did receive voas with this sample ID marked on them.

We did not receive voas for sample ID "SED-4 (2-4)"

If you have any questions or concerns please feel free to contact the lab.

Thank you

Krystal Delgado
Front Desk/Sample Receiving
Bottle Room Tech
Phoenix Environmental Laboratories
587 East Middle Tpke.
Manchester, CT 06040
krystald@phoenixlabs.com
PH: 860-645-1102
FX: 860-645-0823

GCG 10797

Krystal Delgado

From: Sarah Bell
Sent: Thursday, June 11, 2020 7:54 AM
To: Ian Adomeit; Krystal Delgado
Cc: Shannon Wilhelm
Subject: RE: GCG10797 Changes

Ok will do

*Note: I am currently working remotely. You may call me directly at my cell number below or email

Sarah Bell
Project Manager
Phoenix Environmental Laboratories
587 East Middle Turnpike
Sarah@phoenixlabs.com
(C)860-558-0726
Website: www.phoenixlabs.com

From: Ian Adomeit [mailto:IAdomeit@TighеBond.com]
Sent: Thursday, June 11, 2020 6:27 AM
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Subject: GCG10797 Changes

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- CG10801
- CG10804
- CG10805
- CG10807

You can also throw out the ziplock bag labeled SED 1 (0-2'). That was inadvertently left in the cooler.

Thank you,

Ian

February 14, 2023

SUMMARY Cost Estimate for Turney Creek Culverts, Siphons and Tidegates:

Construction	$ 4.6 M (2023)	$ 3.822 Million (2020)
Siphon	$ 0.86 M (2023)	$ 0.784 Million (2021)
Const. Admin/Inspect	$ 0.66 M (2023)	$ 0.552 Million (2020)
Environmental prel. Est.	$ 0.4 M (2023)	Est. $ 0.333 Million (2020)

Total:	$ 5.491 Million (2020)	(10% cont. on construction only)
	$ 6.52 Million (2023)	(10% contingency on construction only)

Say $ 6.52 Million or up to $7.15 Million w/overall 10% contingency of project amount.

William Hurley P.E. based on Tighe & Bond estimates via Attached and phone.

From: Hurley, William
To: Hurley, William
Subject: Turney creek br siphon tidegates
Date: Tuesday, February 14, 2023 9:34:16 AM

20 YEAR

A RESOLUTION APPROPRIATING $11,000,000 FOR COSTS ASSOCIATED WITH THE INSPECTION AND CONSTRUCTION PHASE OF THE EAST TRUNK REPLACEMENT PROJECT, AUTHORIZING A GRANT TO REIMBURSE $3,000,000 OF SUCH APPROPRIATION AND AUTHORIZING THE ISSUANCE OF BONDS IN AN AMOUNT NOT TO EXCEED $8,000,000 TO FUND THE BALANCE OF SUCH APPROPRIATION.

WHEREAS, the Town of Fairfield, Connecticut (the "Town") seeks to appropriate $11,000,000 for the costs associated with the construction phase of the East Trunk Replacement Project (the "Appropriation"); and

WHEREAS, the Appropriation shall be funded by two sources including: 1) $3,000,000 in grant funds from the State of Connecticut Department of Economic and Community Development's Communities Challenge Grant Program (the "Grant"); and 2) $8,000,000 in bonds issued by the Town (the "Bonds"); and

WHEREAS, the Town seeks to authorize the Appropriation, to negotiate and accept the terms of the Grant and the Bonds in an amount not to exceed $8,000,000; and

WHEREAS, while the Town is liable for the debt service on the Bonds, for internal accounting purposes, it is appropriate that all costs of the Project including debt service on the Bonds be allocated to, and reimbursed to the Town by, the Water Pollution Control Authority (the "WPCA"); and

WHEREAS, simultaneously herewith, the Town shall secure approval of a Supplemental Resolution providing that all debt service on the Bonds shall be paid by the WPCA from its own funds as such debt service becomes due and the obligation of the WPCA shall be set forth in a memorandum of understanding with the Town satisfactory to the First Selectwoman; and

NOW, THEREFORE, IT IS HEREBY:

- -

RESOLVED:

1. As recommended by the Board of Finance and the Board of Selectmen, the Town of Fairfield (the "Town") hereby appropriates the sum of Eleven Million and 00/100 Dollars ($11,000,000) for costs of the inspection and construction phase of the East Trunk Replacement project, including but not limited to, the costs to replace the existing sanitary sewer pipe with a new pipe along the same alignment, and all related design, environmental inspection, administrative, financing, legal, contingency and other soft costs (the "Project").

2. As recommended by the Board of Finance and the Board of Selectmen, the Town may borrow a sum not to exceed Eight Million and 00/100 Dollars ($8,000,000) to fund the

balance of the appropriation and issue its general obligation bonds/bond anticipation notes for such indebtedness under its corporate name and seal and upon the full faith and credit of the Town in an amount not to exceed said sum for the purpose of financing the appropriation for the Project.

3. The Board of Selectmen, the Treasurer and the Chief Fiscal Officer of the Town are hereby appointed a committee (the "Committee") with full power and authority to cause said bonds to be sold, issued and delivered; to determine their form and terms, including provision for redemption prior to maturity; to determine the aggregate principal amount thereof within the amount hereby authorized and the denominations and maturities thereof; to fix the time of issue of each series thereof and the rate or rates of interest thereon as herein provided; to determine whether the interest rate on any series will be fixed or variable and to determine the method by which the variable rate will be determined, the terms of conversion, if any, from one mode to another or from fixed to variable; to set whatever other terms of the bonds they deem necessary, desirable or appropriate; to designate the bank or trust company to certify the issuance thereof and to act as transfer agent, paying agent and as registrar for the bonds, and to designate bond counsel. The Committee shall have all appropriate powers under the Connecticut General Statutes, as amended (the "Statutes") including Chapter 748 (Registered Public Obligations Act) and Chapter 109 (Municipal Bond Issues) to issue, sell and deliver the bonds and, further, shall have full power and authority to do all that is required under the Internal Revenue Code of 1986, as amended, and under rules of the Securities and Exchange Commission, and other applicable laws and regulations of the United States, to provide for issuance of the bonds in tax exempt form and to meet all requirements which are or may become necessary in and subsequent to the issuance and delivery of the bonds in order that the interest on the bonds be and remain exempt from Federal income taxes, including, without limitation, to covenant and agree to restriction on investment yield of bond proceeds, rebate of arbitrage earnings, expenditure of proceeds within required time limitations, the filing of information reports as and when required, and the execution of Continuing Disclosure Agreements for the benefit of the holders of the bonds and notes.

4. The First Selectwoman and Treasurer or Chief Fiscal Officer, on behalf of the Town, shall execute and deliver such bond purchase agreements, reimbursement agreements, line of credit agreement, credit facilities, remarketing, standby marketing agreements, standby bond purchase agreements, and any other commercially necessary or appropriate agreements which the Committee determines are necessary, appropriate or desirable in connection with or incidental to the sale and issuance of bonds, and if the Committee determines that it is necessary, appropriate, or desirable, the obligations under such agreements shall be secured by the Town's full faith and credit.

5. The First Selectwoman and Treasurer or Chief Fiscal Officer shall execute on the Town's behalf such interest rate swap agreements or similar agreements related to the bonds for the purpose of managing interest rate risk which the Committee determines are necessary, appropriate or desirable in connection with or incidental to the carrying or selling and issuance of the bonds, and if the Committee determines that it is necessary, appropriate or

desirable, the obligations under such interest rate swap agreements shall be secured by the Town's full faith and credit.

6. The bonds may be designated "Public Improvement Bonds of the Town of Fairfield", series of the year of their issuance and may be issued in one or more series, and may be consolidated as part of the same issue with other bonds of the Town; shall be in serial form maturing in not more than twenty (20) annual installments of principal, the first installment to mature not later than three years from the date of issue and the last installment to mature not later than twenty (20) years from the date of issuance or as otherwise provided by statute. The bonds may be sold at an aggregate sales price of not less than par and accrued interest at public sale upon invitation for bids to the responsible bidder submitting the bid resulting in the lowest true interest cost to the Town, provided that nothing herein shall prevent the Town from rejecting all bids submitted in response to any one invitation for bids and the right to so reject all bids is hereby reserved, and further provided that the Committee may sell the bonds on a negotiated basis, as provided by statute. Interest on the bonds shall be payable semi-annually or annually. The bonds shall be signed on behalf of the Town by at least a majority of the Board of Selectmen and the Treasurer, and shall bear the seal of the Town. The signing, sealing and certification of the bonds may be by facsimile as provided by statute.

7. The Committee is further authorized to make temporary borrowings as authorized by the Statutes and to issue temporary notes of the Town in anticipation of the receipt of proceeds from the sale of the bonds to be issued pursuant to this resolution. Such notes shall be issued and renewed at such time and with such maturities, requirements and limitations as provided by the Statutes. Notes evidencing such borrowings shall be signed by the First Selectwoman and Treasurer or Chief Fiscal Officer, have the seal of the Town affixed, which signing and sealing may be by facsimile as provided by statute, be certified by and payable at a bank or trust company incorporated under the laws of this or any other state, or of the United States, be approved as to their legality by bond counsel and may be consolidated with the issuance of other Town bond anticipation notes. The Committee shall determine the date, maturity, interest rates, form and manner of sale, including negotiated sale, and other details of said notes consistent with the provisions of this resolution and the Statutes and shall have all powers and authority as set forth above in connection with the issuance of bonds and especially with respect to compliance with the requirements of the Internal Revenue Code of 1986, as amended, and regulations thereunder in order to obtain and maintain issuance of the notes in tax exempt form.

8. Pursuant to Section 1.150-2, as amended, of the Federal Income Tax Regulations the Town hereby declares its official intent to reimburse expenditures (if any) paid for the Project from its General or Capital Funds, such reimbursement to be made from the proceeds of the sale of bonds and notes authorized herein and in accordance with the time limitations and other requirements of said regulations.

9. The First Selectwoman, Chief Fiscal Officer and Town Treasurer are hereby authorized, on behalf of the Town, to enter into agreements or otherwise covenant for the benefit of bondholders to provide information on an annual or other periodic basis to the Municipal

Securities Rulemaking Board (the "MSRB") and to provide notices to the MSRB of material events as enumerated in Securities and Exchange Commission Exchange Act Rule 15c2-12, as amended, as may be necessary, appropriate or desirable to effect the sale of the bonds and notes authorized by this resolution.

10. The Committee is hereby authorized to take all action necessary and proper for the sale, issuance and delivery of the bonds and notes in accordance with the provisions of the Statutes and the laws of the United States.

11. The First Selectwoman or other proper Town official is authorized to apply for and accept any available State or Federal grant, in addition to the Grant as defined in paragraph 2 herein, in aid of the financing of the Project, and to take all action necessary and proper in connection therewith. Any such grants or contribution received prior to the issuance of the Bonds authorized herein shall be applied to the costs of the Project or to pay at maturity the principal of any outstanding bond anticipation notes issued pursuant this resolution and shall reduce the amount of the Bonds that can be issued pursuant to this resolution. If such grants and contributions are received after the issuance of the Bonds, they shall be applied to pay the principal on the Bonds or as otherwise authorized by the Board of Selectmen, Board of Finance and Representative Town Meeting provided such application does not adversely affect the tax-exempt status of the Bonds or the Town's receipt of such grant or contribution.

FOURTEEN POINTS OF INFORMATION AND JUSTIFICATION FOR THE

EAST TRUNK SEWER LINE REPLACEMENT

TOTAL REQUESTED EXPENDITURES $10,000,000 Grant Application

(CT COMMUNITIES CHALLENGE GRANT REIMBERSMENT COVERS $3,000,000-Approved)

1. **Background** – East Trunk Sewer handles a 2/3rds of the Town's sewer flow to the WPCF plant. The sewer was originally constructed in 1947 and follows the layout of Ash Creek. There is indications that the pipe has sagged and joints have opened up along this section. Construction of the new sewer line will significantly reduce inflow and infiltration and sanitary sewer overflows (SSOs), and provide easier maintenance access and better resiliency against Ash Creek flows and rising sea level. This project was originally approved in May 2017, but was halted due to lack of funding. Design was performed by Cardinal Engineering from 2017-2020 and a Peer Review was performed by Wright-Pierce in 2020.

2. **Purpose** - This project proposes to construct a new sewer line away from Ash Creek within the public roadway and Right-of-Way. The project will reduce Inflow and Infiltration, reduce SSOs, reduce some "bottlenecks" and increase capacity for potential future development. The project design is 90% complete, has been reviewed by DOT and all necessary permits have been obtained.

3. **Detailed Description of Proposal** - The proposal is to install approximately 2500 feet of new 36 inch diameter sanitary sewer trunk line to replace the aged and undersized section of sewer main susceptible to Inflow and Infiltration, Sewer System Overflows and access issues. The existing line would diverted and in limited use until abandoned upon completion of the project. The 36 inch trunk line would be conventionally installed along the local streets. The project is expected to take 14 to 18 months depending on notice to proceed and if winter work can be performed.

4. **Reliability of Cost Estimate** – Based on a scale of 0 to 10, this is a 6. The design engineer's Opinion of Probably Cost (2019) has been revised based on construction plans, permits and updated 2022 costs. Current equipment/material pricing is inflated and ongoing issues with the supply chain, a solid number is difficult. Sheeting, traffic control, sewer pipe, manhole, bypass pumping 2/3 of the Town's sewage flow, dewatering and construction administration represent the largest increases in the estimate. The Contract bid opening and field conditions will ultimately determine the price of the project. Estimated costs include the following: $900K Contingency; $7.9 million Construction, $850,000 Inspection, $50K Remediation, and $40-300K for updating engineering/utility plans from 2019 and Testing.

5. **Increased Efficiency or Productivity** -- The existing sewer main will remain operational during construction. In some cases bypass pumping will be required when tying into the existing system manholes. The larger pipe diameter will increase flow capacity of the existing sewer trunk line.

6. **Additional Long Range Costs** - Typical maintenance of the line over the long term is expected, although there should be significantly less maintenance costs compared to the existing line.

7. **Additional Use or Demand on Existing Facilities** – According to the Wright Pierce Hydraulic Report, the increase in pipe size will allow for some reserve capacity for future development projects.

8. **Alternatives to this Request** - There are a few alternatives that were brought up in the past and more recently. Alternatives include constructing a pump station instead of sewer main project, creating a bypass/ overflow pipe, relining the existing pipe or do nothing alternative. Each alternative has been investigated conceptually- but are anticipated to be more costly or less feasible.
   - Pump Station is an engineering alternative but would be very costly. In generic terms, size of pump station would be approximately double the size of the Mill River Pump Station based on flows. The Town would have to acquire property, keep all mechanicals 3 ft above the flood plain, provide generators and have annual maintenance, labor and electrical costs. Typically, pump stations are only proposed when gravity fed systems are not available and are generally not desired by sewer authorities. Constructing a pump station would not alieve the I/I problems or provide resiliency.
   - Bypass or overflow pipe would be constructed using a smaller diameter pipe, following the proposed layout. Slopes of pipe would increase, creating better flow. Savings would be attributed to less depth, and slightly less construction; however almost all items would still be constructed including roadwork, utilities, sheeting, manholes, etc.. Drawbacks listed are there would be two sewer lines, Inflow and infiltration would still occur in the existing line, no improvements on environmental issues, and condition of the old existing line would worsen over time.
   - Trenchless technologies has been ruled out as an alternative for a number of reasons, most specifically the shallow slope of the pipe and the high groundwater table in the project area.
   - The Do nothing alternative will result in continued problems and most likely significant environmental violations and potential fines as pipe conditions worsen.

9. **Safety and Loss Control** - With the proposed project reducing Inflow and Infiltration, reducing sewer system overflows and providing easier access during storms, safety can be improved by providing improvement to water quality, hence better health/safety. Easier access to manholes should provide better safety for workers than manholes near the creek especially during storm events.

10. **Environmental Considerations** – The proposed project should help reduce potential violations with DEEP for SSOs.

11. **Insurance** – Contractor will be required to carry the necessary insurance as directed by the Town of Fairfield Purchasing Department.

12. **Financing** – The $10 million total cost of the project will financed using a $3 million Challenge Grant and $1 million WPCA Fund Balance. The remaining $6 million will be financed by Town General Obligation bonds. The debt service of the bonds will be split between the General Fund budget and the WPCA budget. Other sources of funding will be researched and applied for to try to lessen the financial impact on the Town. (The Town submitted the construction portion of the project for CT DECD Community Challenges Grant and was approved for $3,000,000). It is anticipated that the new sewer line will have a 50-year service life.

13. **Other Considerations** - None. Development of the Metro Center is dependent on this and another related sewer project.

14. **Approvals** – WPCA/BOS/BOF/RTM- Spring 2023

This Plan is not in scope.

RIVERSIDE DRIVE

Environmental Borings Not Advanced within this Portion of the Alignment

SANITARY MANHOLE	NORTHING	EASTING
EX. AT STA. 3+00	616,498.75	865,759.20
1	616,623.41	865,819.99
2	616,708.85	865,716.46
3	616,838.54	865,701.82
4	616,921.59	865,760.76

CONTROL POINT #2
PK NAIL
N 616,407.66
E 865,836.86
EL. 8.21

SMH-1 STA 4+38.69
SMH-2 STA 5+72.86
SMH-3 STA 7+03.35
SMH-4 STA 8+05.27

100 YEAR FLOODPLAIN (TYP)

134 LF 36" RCP

APPROX. LOCATION OF TEMPORARY SHEETING LEFT-IN-PLACE CUT OFF 1' BELOW GRADE

SUPPORT AND PROTECT EXISTING CONC. BLOCK WALL AND WOOD FENCE

PROP TEMPORARY CONSTRUCTION EASEMENT

C.I.P.P. LINER (TYP)

CLEAR WOODED AREA FOR SEWER BYPASS SYSTEM. CLEARING SHALL BE MINIMIZED.

INSTALL STEEL SHEETING COFFERDAM, DEWATER, BYPASS SEWAGE FLOW, EXCAVATE AND REMOVE EX. SMH, INSTALL NEW 7' I.D. MANHOLE. RE-CONNECT EXISTING 36" RCP AND CONNECT NEW 36" RCP. RAISE NEW MANHOLE TO TOP OF FRAME ELEV 12.0. STEEL SHEETING SHALL BE CUT OFF TO TOP ELEVATION 9.5 AND LEFT IN PLACE. FILL WATERWARD SIDE OF SHEETING AS SHOWN WITH INTERMEDIATE RIPRAP. SEE SHEET SED-01 FOR A 10 SCALE DETAIL OF THIS AREA. STEEL SHEETING SHALL BE DRIVEN TO A MINIMUM OF 2-FEET BELOW BOTTOM OF MANHOLE.

TREES TO BE REMOVED

REMOVE AND RESTORE BOULDERS

SILT FENCE (TYP)

20' PERMANENT SAN. SEWER EASEMENT (TO BE OBTAINED BY THE TOWN)

EX. 36" RCP TO BE ABANDONED-IN-PLACE (TYP)

PROPOSED CHIMNEY AND 6" PVC SEWER LATERAL FOR FUTURE BUILDING LOCATION. ELEVATION OF CHIMNEY AND SIZE AND INVERT OF SEWER LATERAL TO BE FIELD DETERMINED AFTER CONSULTATION WITH BUILDING MECHANICAL ENGINEER.

30' TEMPORARY CONSTRUCTION EASEMENT (TO BE OBTAINED BY THE TOWN)

APPROX. LOCATION OF TEMPORARY SHEETING

AREA RESERVED FOR DEWATERING SILT/FILTER BAG(S)

APPROXIMATE 50 YEAR FLOODPLAIN (TYP)

APPROXIMATE 10 YEAR FLOODPLAIN (TYP)

PROTECT OVERHEAD WIRES

SUPPORT AND PROTECT UG ELEC DUCTS

TEMP CONSTRUCTION EASEMENT

SUPPORT AND PROTECT EX. 15" RCP

102 LF 36" RCP

INSTALL 7' I.D. SMH. RE-CONNECT EX. 36" RCP. CONNECT NEW 36" RCP.

CATCH BASIN SEDIMENT FILTER (TYP)

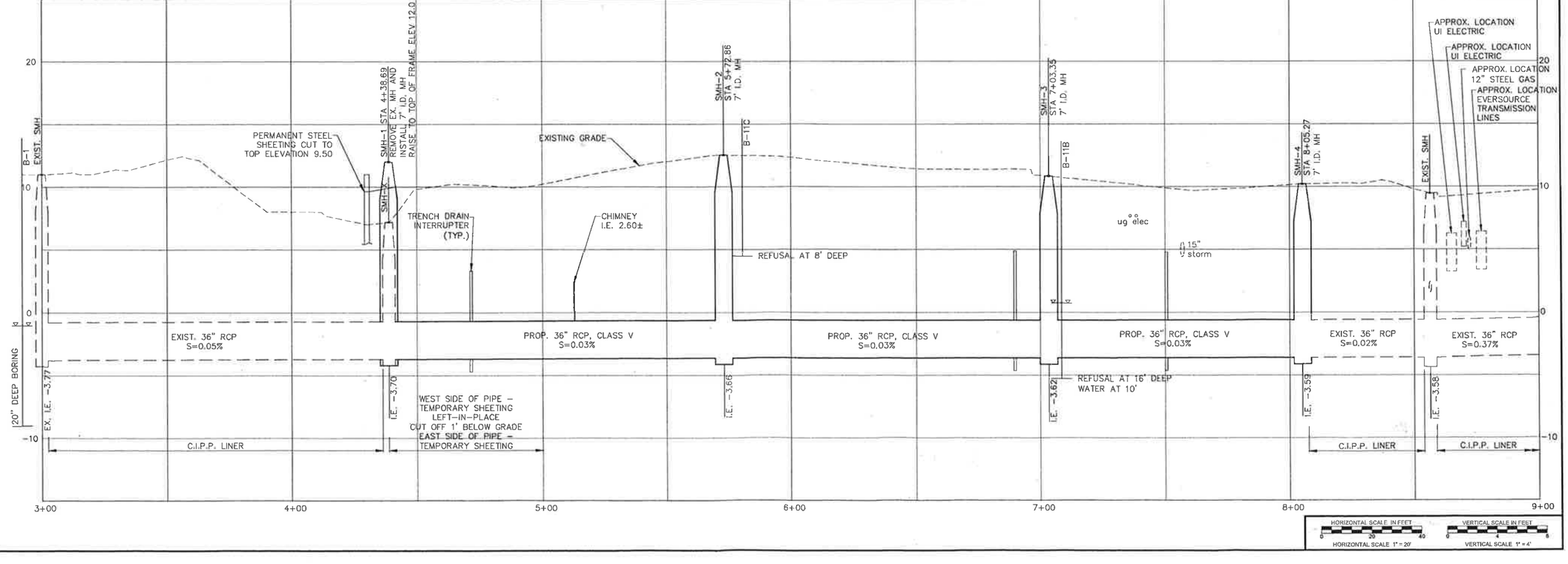
C.I.P.P. LINER (TYP)

POST ROAD

FOR CONTINUATION SEE SHEET PP-2

CT RTE. 130

SCALE IN FEET
0 20 40
SCALE 1" = 20'



HORIZONTAL SCALE IN FEET 0 20 40
HORIZONTAL SCALE 1" = 20'
VERTICAL SCALE IN FEET 0 4 8
VERTICAL SCALE 1" = 4'

CARDINAL ENGINEERING ASSOCIATES
3 Colony Street | Meriden, CT 06451 | 203-238-1969

DATE: AUGUST 2019
SCALE: AS NOTED
DESIGNED BY: WB
DRAWN BY: SS
CHECKED BY: WB
APPROVED BY: JAC

NO. | REVISION | DATE | BY

EAST TRUNK INTERCEPTOR SEWER RELOCATION
FAIRFIELD, CONNECTICUT
PLAN AND PROFILE - PRIVATE PROPERTY #1/#59 POST ROAD

PP-1
4

ISSUED FOR DECD REVIEW - AUGUST 21, 2019

OUT OF context

This section in not in Project Scope

FOR CONTINUATION SEE SHEET PP-1

RIVERSIDE DRIVE

SCALE IN FEET
0 20 40
SCALE 1" = 20'

SANITARY MANHOLE	NORTHING	EASTING
3	616,838.54	865,701.82
4	616,921.59	865,760.76
5	617,028.54	865,707.19
5A	617,023.23	865,686.85
6	616,892.24	865,576.38
7	616,925.80	865,524.15

NOTE:
THE EXISTING BUS STOP SIGN WILL BE RELOCATED BY THE CONTRACTOR TO A TEMPORARY LOCATION NEAR THE ASH CREEK BRIDGE (SEE THIS SHEET). THE CONTRACTOR SHALL CONTACT MR. STEVE DEMICHAEL OF THE GBTA (203-416-1258) TO COORDINATE THE REMOVAL, TEMPORARY PLACEMENT AND PERMANENT REPLACEMENT OF THE BUS STOP SIGN.

APPROXIMATE 10 YEAR FLOODPLAIN (TYP)
APPROXIMATE 50 YEAR FLOODPLAIN (TYP)
100 YEAR FLOODPLAIN (TYP)
POTENTIAL UTILITY POLE RELOCATION (BY UI)
TEMPORARY SEWER CONSTRUCTION EASEMENT (EQUIPMENT ACCESS/EGRESS)
C.I.P.P. LINER (TYP)
APPROX. LOCATION OF TEMPORARY SHEETING LEFT-IN-PLACE (TYP.) CUT OFF 4' BELOW GRADE
APPROXIMATE LOCATION OF TEMPORARY RELOCATED GBTA BUS STOP SIGN (SEE NOTE ABOVE)
CATCH BASIN SEDIMENTATION FILTER (TYP)
APPROX. LOCATION OF TEMPORARY SHEETING (TYP.)
POST ROAD
EXISTING GBTA BUS STOP SIGN TO BE RELOCATED
PROTECT HANDHOLE
SUPPORT AND PROTECT WATER VALVE MH
CT RTE. 130
SUPPORT AND PROTECT PEDESTRIAN SIGNAL
ROADWAY AREA TO BE MILLED AND OVERLAID
CONTROL POINT #5
PK NAIL
N 616,869.68
E 865,558.61
ELT=12.69'
21 LF 36" RCP
AREA RESERVED FOR DEWATERING DISCHARGE AREA AND SILT/FILTER BAGS(S)
ASH CREEK
SMH-5
STA 9+31.26
REMOVE EX. SMH AND REPLACE WITH NEW 7' I.D. SMH. RE-CONNECT EX. 33" AND 36" RCP. CONNECT NEW 36" RCP.
POTENTIAL UTILITY POLE RELOCATION (BY UI)
SMH-5A
STA 9+49, 11' RT
INSTALL NEW 7' I.D. SMH.
PROTECT AND SUPPORT WATER SERVICE
SILT FENCE (TYP)
REMOVE AND RESTORE SIGN AND AREA LIGHT
REMOVE TREE (TYP)
171 LF 36" RCP
TELEPHONE DUCT BANK (SEE NOTE 10 THIS SHEET)
TB-22
1-4'
RELOCATE UI POLE (BY OTHERS)
PROTECT AND SUPPORT HYDRANT
REMOVE, STORE AND REINSTALL BRICKS
REMOVE, STORE AND REINSTALL SIGN
PROTECT LIGHT POLE
SUPPORT AND PROTECT UG ELECTRIC DUCT BANK (SEE NOTE 10 THIS SHEET)
GRASMERE AVENUE
APPROX. LOCATION OF TEMPORARY SHEETING LEFT-IN-PLACE (TYP.) CUT OFF 4' BELOW GRADE (SMH 4 TO SMH 6)
EXISTING 10-INCH WATER MAIN TO BE ABANDONED BY AQUARION WATER COMPANY. SEE ATTACHED DRAWINGS BY LUCHS CONSULTING ENGINEERS AND SPECIAL CONDITION 369.
SUPPORT AND PROTECT UG ELECTRIC DUCT BANK (SEE NOTE 10 THIS SHEET)
FOR CONTINUATION SEE SHEET PP-3
SMH-6
STA 11+18.17
62.5 LF 36" RCP
SUPPORT AND PROTECT TELEPHONE DUCT BANK (SEE NOTE 10 THIS SHEET)
REMOVE, STORE AND REINSTALL LIGHT POLE
SUPPORT AND PROTECT UG ELECTRIC DUCT BANK (SEE NOTE 10 THIS SHEET)
SMH-7
STA 11+81.08
SUPPORT AND PROTECT EX. SEWER SERVICE (TYP)
TB-23
5-8'
GWS
EVERSOURCE TRANSMISSION LINES
UI ELECTRIC
UI ELECTRIC
12" STEEL GAS
EVERSOURCE TRANSMISSION LINES
EX. SMH=SMH-5 (STA 9+31.26) REMOVE EX. SMH AND INSTALL 7' I.D. MH (DROP)
SMH-5A (STA 9+49, 11' RT) INSTALL 7' I.D. MH
SMH-4 INSTALL NEW 7' I.D. MH
EXIST. SMH
SMH-6 STA 11+18.17 INSTALL 7' I.D. MH (DROP) AND CONNECT EX. 8" VCP WITH DROP CONNECTION
EXISTING GRADE
EXIST. SMH
B-10
SMH-7 STA 11+81.08 7' I.D. MH
TRENCH DRAIN INTERRUPTER (TYP.)
ABANDON EX. 8" VCP AFTER ALL SERVICE LATERALS ARE CONNECTED TO NEW 36" RCP
REFUSAL AT 6.5' DEEP
24" water
8" sewer (POST ROAD)
EXIST. 36" RCP S=0.02%
EXIST. 36" RCP S=0.37%
PROP. 36" RCP, CLASS V S=0.044%
PROP. 36" RCP, CLASS V S=0.044%
PROP. 36" RCP, CLASS V S=0.044%
15' DEEP BORING WATER AT 8.5'
REFUSAL AT 14.5' DEEP WATER AT 8.5'
36" I.E. -3.29
8" I.E. 2.20
6" I.E. 2.00
6" I.E. -0.50 (DROP)
33" & 36" I.E. -3.30
I.E. -3.58
I.E. -3.58
I.E. -3.19
C.I.P.P. LINER
C.I.P.P. LINER
BOTH SIDES OF PIPE - TEMPORARY SHEETING LEFT-IN-PLACE CUT OFF 4' BELOW GRADE
SOUTH SIDE OF PIPE - TEMPORARY SHEETING
NORTH SIDE OF PIPE - TEMPORARY SHEETING
SOUTH SIDE OF SOUTH PIPE - TEMP SHTNG
SOUTH SIDE OF PIPE - TEMP SHTNG
SOUTH SIDE OF PIPE - TEMP SHTNG
SOUTH SIDE OF PIPE - TEMP SHTNG
EX. 8" I.E. 4.1± (DROP)
36" I.E. -3.22
WEST SIDE OF PIPE - TEMPORARY SHEETING LEFT-IN-PLACE CUT OFF 4' BELOW GRADE
EAST SIDE OF PIPE - TEMPORARY SHEETING LEFT-IN-PLACE CUT OFF 4' BELOW GRADE
8+00 9+00 10+00 11+00 12+00
20 10 0 -10

NOTES:

1. A NEW 36" RCP SEWER PIPE SHALL BE INSTALLED IN A PORTION OF THE EX. 8" VCP HORIZONTAL LOCATION FROM SMH-5 TO SMH-6. CONNECT EX. 8" VCP TO SMH-6 AND INSTALL AN EXTERIOR DROP CONNECTION.

2. THE CONTRACTOR SHALL REPLACE THE EXISTING CONCRETE SIDEWALK, PEDESTRIAN RAMPS, BITUMINOUS DRIVEWAY, GRAVEL DRIVEWAY, BITUMINOUS CURB AND BRICK SIDEWALK WITHIN THE SHADED AREA BETWEEN SMH-5 AND SMH-7.

3. SEWAGE BYPASS PIPING ALIGNMENT FROM THE NORTH SIDE TO THE SOUTH SIDE OF POST ROAD SHALL BE DETERMINED BY THE CONTRACTOR. CROSSING POST ROAD WITH BYPASS PIPING WILL REQUIRE THE PIPE OR PIPES TO BE BURIED. THE BYPASS PUMPING PLAN MUST BE DESIGNED BY THE CONTRACTOR AND INCLUDED IN THE ENCROACHMENT PERMIT APPLICATION. CROSSING POST ROAD WILL REQUIRE LANE CLOSURES DURING THE TEMPORARY PIPE BURIAL AND REMOVAL. ALL LANE CLOSURES SHALL BE MUTCD COMPLIANT AND CONFORM TO THE APPLICABLE CT DOT STANDARD PLANS INCLUDED IN TECHNICAL SPECIFICATION No. 01576 OR AS REQUIRED BY THE ENCROACHMENT PERMIT CONDITIONS.

4. EXISTING LIGHT POLES WITHIN SIDEWALK SHALL BE PROTECTED OR REMOVED, STORED AND REINSTALLED. DAMAGED ELECTRICAL CONDUITS SHALL BE REPLACED AND/OR REPAIRED.

5. TEMPORARY SHEETING SHALL BE DRIVEN TO 4-FOOT BELOW PROPOSED PIPE OR REFUSAL. TEMPORARY SHEETING LEFT-IN-PLACE SHALL BE REMOVED TO THE GRADE INDICATED ON THE DRAWINGS OR AS DIRECTED BY THE ENGINEER.

6. THE CONTRACTOR SHALL CONTACT THE DISTRICT 3 SURVEY UNIT, MR. VINCENT HANCHURUCK (203-389-3112) PRIOR TO ANY CONSTRUCTION WITHIN THE STATE RIGHT-OF-WAY.

7. THE CONTRACTOR WILL BE RESPONSIBLE FOR ALL ENGINEERING COSTS SHOULD THE CT DOT BOUNDARY/SURVEY MARKERS BE DISTURBED OR DAMAGED.

8. IN THE EVENT THE CT DOT DETERMINES THAT BOUNDARY/SURVEY MARKERS WITHIN THE PROJECT AREA NEED TO BE REPLACED DUE TO THE PROPOSED CONSTRUCTION, THE CT DOT SURVEY UNIT WILL FURNISH NEW MONUMENTS, WHICH THE CONTRACTOR WILL BE REQUIRED TO INSTALL UNDER THE DIRECTION OF A CT LICENSED SURVEYOR.

9. THE CT DOT BOUNDARY/SURVEY MARKERS SHALL BE VERIFIED AND ACCEPTED BY THE DISTRICT 3 SURVEY UNIT PRIOR TO RELEASING THE ENCROACHMENT PERMIT BOND.

10. THE CONTRACTOR'S DESIGN ENGINEER SHALL CONTACT THE AFFECTED UTILITY COMPANY AND DESIGN A SUPPORT SYSTEM FOR THE UNDERGROUND UTILITY CROSSING. THE SUPPORT SYSTEM DESIGN SHALL BE SUBMITTED TO THE RESPECTIVE UTILITY FOR REVIEW AND ACCEPTANCE PRIOR TO CONSTRUCTION AT THE CROSSING (SEE SPECIAL CONDITION 366).

11. THE CONTRACTOR SHALL PERFORM AN EXISTING CONDITION SURVEY OF EACH EXISTING BUILDING STRUCTURE PRIOR TO ANY DRIVING OF SHEETING. THE PRE-SHEET DRIVING SURVEY SHALL BE PERFORMED FOR ALL STRUCTURES WITHIN A 250-FOOT RADIUS OF THE LIMITS OF DRIVING. THE COST OF THIS SURVEY SHALL BE INCLUDED IN THE UNIT BID COST FOR SHEETING.

12. THE CONTRACTOR WILL BE REQUIRED TO PREPARE A MUTCD COMPLIANT SIDEWALK CLOSURE PLAN AROUND THE WORK AREA IN POST ROAD. THE PLAN SHALL CONFORM TO MUTCD PART 6. THIS PLAN SHALL BE INCLUDED IN THE ENCROACHMENT PERMIT SUBMITTAL. IT IS SUGGESTED THAT THE CONTRACTOR CONSIDER UTILIZING A LANE CLOSURE WITH A DEDICATED PEDESTRIAN WALKWAY FOR THE NORTH SIDEWALK CLOSURE. THE CONTRACTOR IS NOTIFIED THAT THE SIDEWALK CLOSURE PLAN SHALL INCLUDE GRASMERE AVENUE AND THE PLACEMENT OF SIGNS DIRECTING PEDESTRIANS TO THE SOUTH SIDEWALK IN GRASMERE AVENUE. A SUGGESTED POST ROAD SIDEWALK CLOSURE PLAN HAS BEEN PREPARED, REVIEWED BY THE CT DOT DISTRICT 3, AND IS INCLUDED AS SHEETS 17 AND 18. ALSO SEE SPECIAL CONDITION 370.

13. THE CONTRACTOR SHALL BE REQUIRED TO CONFORM TO THE CT DOT STANDARD DETAILS FOR SIDEWALK, CURB, DRIVEWAY APRONS, PAVEMENT SECTIONS AS SHOWN ON THE DETAIL SHEETS PROVIDED. THE CONTRACTOR SHALL CONFORM TO THE TOWN STANDARD DETAILS FOR ALL RESTORATION OUTSIDE THE POST ROAD RIGHT-OF-WAY.

14. THE CONTRACTOR SHALL BE REQUIRED TO INCLUDE WITH THE ENCROACHMENT PERMIT APPLICATION SUBMITTAL A DESCRIPTION OF HIS PLANS FOR LANE CLOSURES IN POST ROAD AFFECTED BY THE CONSTRUCTION WITHIN THE POST ROAD RIGHT-OF-WAY. THE CONTRACTOR MAY REFER TO THE APPLICABLE STANDARD CT DOT TRAFFIC CONTROL SIGNAGE AND CONSTRUCTION TRAFFIC CONTROL PLANS INCLUDED IN SPECIFICATION SECTION 01576. THE SIGNAGE AND LANE CLOSURE PLANS TO BE EMPLOYED SHALL COVER THE WORK INVOLVING CONSTRUCTION EQUIPMENT MOVEMENTS AND PLACEMENTS, TEMPORARY SIDEWALK DETOURS, RESTORATION ACTIVITIES AND SEWAGE BYPASS PIPING INSTALLATION/REMOVAL. THE CONTRACTOR SHALL PREPARE AND SUBMIT A FORMAL M&PT PLAN IF BARRIERS AND ATTENUATORS ARE UTILIZED.

15. THE CONTRACTOR IS NOTIFIED THAT THE CT DOT WILL ALLOW FOR THE SEWAGE BYPASS PIPING TO CROSS THE POST ROAD VIA AN UNDERGROUND (BURIED) CROSSING. THE CONTRACTOR SHALL PROVIDE A BYPASS PUMPING PLAN THAT SHOWS LANE CLOSURES AND A SECTION DETAIL OF THE PROPOSED BYPASS PIPING CROSSING. THE DETAIL SHALL SHOW THE NUMBER AND SIZE OF BYPASS PIPES, THE DEPTH OF COVER AND THE CLEARANCE AT EXISTING UTILITY CROSSINGS. THE PIPING SHALL BE SECURELY ANCHORED AND BEDDED AND THE TRENCH BE PAVED WITH A TEMPORARY PAVEMENT OF 4-INCHES THICKNESS. THE BYPASS PIPING SHALL BE REMOVED AS SOON AS POSSIBLE AFTER BYPASSING IS COMPLETE.

16. ALL DRAWINGS, DETAILS, ETC. THAT ARE NOT STANDARD CT DOT DRAWING/DETAILS SHALL BE DESIGNED, SEALED/SIGNED BY A CT LICENSED P.E. AND SUBMITTED WITH THE ENCROACHMENT PERMIT.

17. THE CT P.E. SIGNED/SEALED SHEETING DESIGN AND A BLASTING PLAN (IF REQUIRED WITHIN POST ROAD) IN NARRATIVE FORM SHALL BE SUBMITTED WITH THE ENCROACHMENT PERMIT APPLICATION.

HORIZONTAL SCALE IN FEET 0 20 40
HORIZONTAL SCALE: 1" = 20'
VERTICAL SCALE IN FEET 0 4 8
VERTICAL SCALE: 1" = 4'

NO.	REVISION	DATE	BY

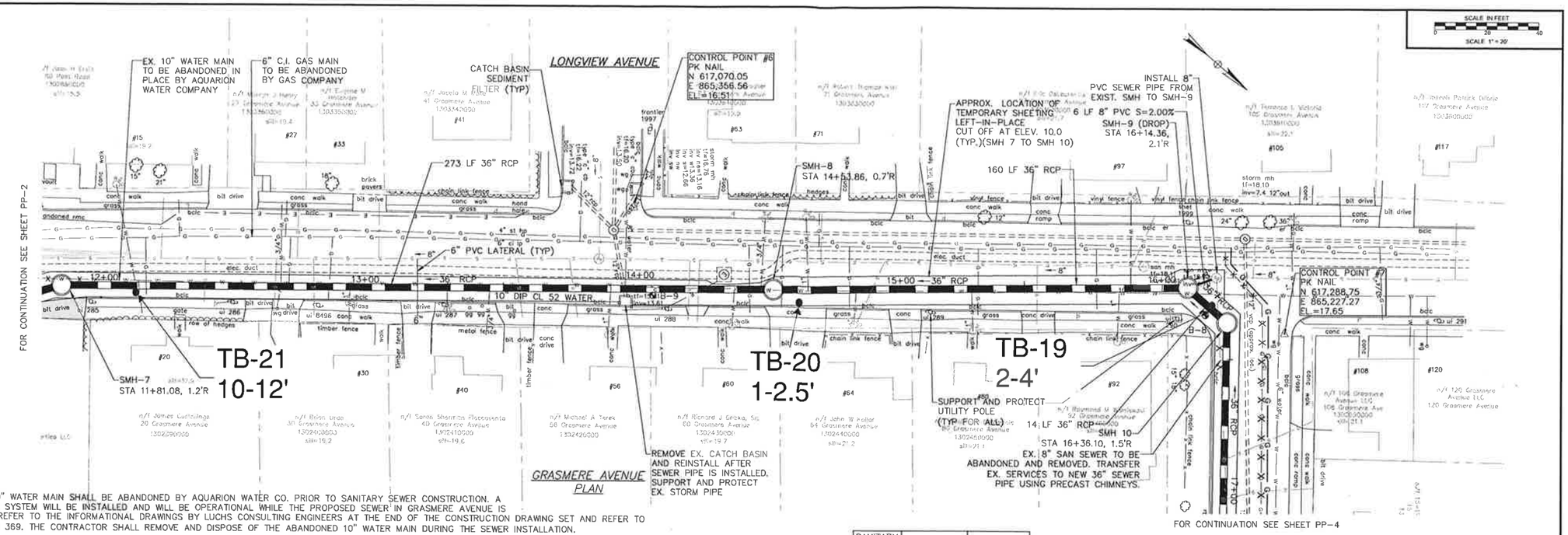
DATE: AUGUST 2019
SCALE: AS NOTED
DESIGNED BY: WB
DRAWN BY: SS
CHECKED BY: WB
APPROVED BY: JAC

CARDINAL ENGINEERING ASSOCIATES
3 Colony Street | Meriden, CT 06451 | 203-238-1369

ISSUED FOR DECD REVIEW - AUGUST 21, 2019

EAST TRUNK INTERCEPTOR SEWER RELOCATION
FAIRFIELD, CONNECTICUT
PLAN AND PROFILE - POST ROAD

PP-2
5



NOTES:

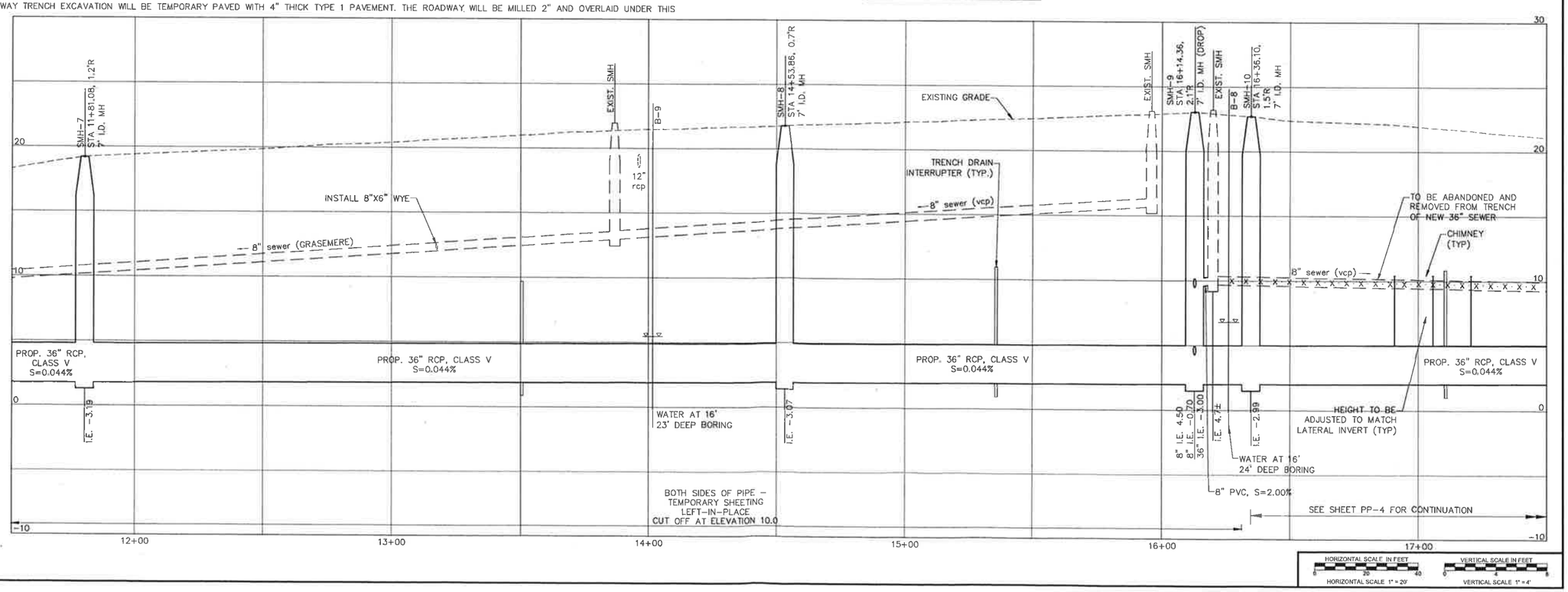
1. THE EXISTING 10" WATER MAIN SHALL BE ABANDONED BY AQUARION WATER CO. PRIOR TO SANITARY SEWER CONSTRUCTION. A TEMPORARY WATER SYSTEM WILL BE INSTALLED AND WILL BE OPERATIONAL WHILE THE PROPOSED SEWER IN GRASMERE AVENUE IS BEING INSTALLED. REFER TO THE INFORMATIONAL DRAWINGS BY LUCHS CONSULTING ENGINEERS AT THE END OF THE CONSTRUCTION DRAWING SET AND REFER TO SPECIAL CONDITION 369. THE CONTRACTOR SHALL REMOVE AND DISPOSE OF THE ABANDONED 10" WATER MAIN DURING THE SEWER INSTALLATION.

2. ALL EX. WATER AND SAN. SEWER SERVICES CROSSING THE NEW 36" RCP SEWER SHALL BE SUPPORTED AND PROTECTED. THE CONTRACTOR HAS THE OPTION OF REMOVING AND REPLACING THE SANITARY SEWER SERVICE LINES AT HIS CONVENIENCE AT NO ADDITIONAL COST TO THE OWNER.

3. THE CONTRACTOR SHALL SUPPORT AND PROTECT ALL GAS SERVICES AND THE EX. UNDERGROUND ELECTRIC DUCT BANK.

4. ALL ROADWAY TRENCH EXCAVATION WILL BE TEMPORARY PAVED WITH 4" THICK TYPE 1 PAVEMENT. THE ROADWAY WILL BE MILLED 2" AND OVERLAID UNDER THIS PROJECT.

SANITARY MANHOLE	NORTHING	EASTING
7	616,925.80	865,524.15
8	617,131.12	865,344.52
9	617,249.31	865,238.73
10	617,269.49	865,238.77



NO.	REVISION	DATE	BY

DATE: AUGUST 2019
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CARDINAL ENGINEERING ASSOCIATES
9 Colony Street | Meriden, CT 06451 | 203-238-1969

EAST TRUNK INTERCEPTOR SEWER RELOCATION
FAIRFIELD, CONNECTICUT
PLAN AND PROFILE - GRASMERE AVENUE

PP-3

6

ISSUED FOR DECD REVIEW - AUGUST 21, 2019

GRASMERE AVENUE

FOR CONTINUATION SEE THIS SHEET

FOR CONTINUATION SEE SHEET PP-3

TB-19
2-4'

TB-18
12-14'
PAH >DEC

TB-16
10-12'

TB-17
8-10'

TB-15
1-4'

TB-14
10-12

GWS

INSTALL 8" PVC SEWER PIPE FROM EXIST SMH TO SMH-9

EXISTING GAS MAIN TO BE ABANDONED

THE EXISTING WATER MAIN SHALL BE SUPPORTED AND PROTECTED AT THE SEWER CROSSING. DAMAGED WATER PIPING SHALL BE REPAIRED AT THE CONTRACTOR'S COST.

APPROX. LOCATION OF TEMPORARY SHEETING TO BE LEFT-IN-PLACE AND CUT OFF AT ELEV. 5.0 (SMH-10 TO SMH-13)

CONTROL POINT #7
PK NAIL
N 617,288.75
E 865,227.27
EL.=17.65

RELOCATED 2" PLASTIC GAS (BY GAS CO.)

SUPPORT AND PROTECT STORM DRAIN AND WATER

SMH-12
STA 18+60.32, 0.4'R

87 LF 36" RCP

SILT FENCE

CATCH BASIN SEDIMENT FILTER (TYP)

SEWER CHIMNEY (TYP)

SMH-10
STA 16+36.10, 1.5'R

20 LF 36" RCP

SMH-9
STA 16+14.

160 LF 36" RCP

145 LF 36" RCP

PROTECT AND SUPPORT UTILITY POLE

SMH-11
STA 17+79.83
CONNECT EX. SEWER SERVICE TO NEW MANHOLE

80 LF 36" RCP

AREA RESERVED FOR DEWATERING SILT/FILTER BAG(S)

CONTROL POINT #8
PK NAIL
N 617,411.05
E 865,396.99
EL.=14.33

100 YEAR FLOODPLAIN (TYP)

APPROXIMATE 50 YEAR FLOODPLAIN (TYP)

APPROXIMATE 10 YEAR FLOODPLAIN (TYP)

ASH STREET
PLAN

INSTALL CHIMNEY ON EX. 8" SEWER 6" I.E. 10.00

INSTALL NEW 6" PVC SEWER LATERAL, CAP END AND INSTALL MARKER

PROPOSED 2" PLASTIC GAS MAIN

210 LF 36" RCP

RELOCATED 2" GAS MAIN (BY GAS CO.)

EXIST. 4" C.I. GAS TO BE ABANDONED

CATCH BASIN SEDIMENT FILTER (TYP)

REMOVE EX. 8" VCP (SE) AND INSTALL NEW 8" PVC

REMOVE EX. GAS MAIN TO BE ABANDONED BY GAS CO.

91 LF 36" RCP

SUPPORT AND PROTECT STORM DRAIN

SMH-14
STA 21+58.28, 4.1'R
CONNECT 8" PVC FROM EXIST. SMH AND INSTALL 8" DROP CONNECTION

SUPPORT AND PROTECT STORM DRAIN

SMH-15
STA 22+11.67, 12.9'R

CONTROL POINT #9
PK NAIL
N 617,697.32
E 865,189.80
EL.=18.76

309 LF 36" RCP

RELOCATED 2" GAS MAIN (BY GAS CO.)

PROPOSED 36" SANITARY TO BE INSTALLED IN EXISTING GAS LOCATION. GAS LINE TO BE RELOCATED/ABANDONED BY GAS COMPANY.

SANITARY MANHOLE	NORTHING	EASTING
9	617,249.31	865,238.73
10	617,269.49	865,238.77
11	617,362.56	865,348.30
12	617,432.28	865,388.61
13	617,506.24	865,338.45
14	617,663.79	865,201.05
15	617,690.49	865,217.29

APPROX. LOCATION OF TEMPORARY SHEETING TO BE LEFT-IN-PLACE AND CUT OFF AT ELEV. 5.0 (SMH-13 TO SMH-15)

DALEWOOD AVENUE
PLAN

APPROXIMATE 50 YEAR FLOODPLAIN (TYP)

100 YEAR FLOODPLAIN (TYP)

APPROXIMATE 10 YEAR FLOODPLAIN (TYP)

KENWOOD AVENUE

FOR CONTINUATION SEE SHEET PP-5

NOTES:
1. BETWEEN SMH-11 AND SMH-13, THE CONTRACTOR MAY ELECT TO SUPPORT AND PROTECT THE EXISTING STORM DRAIN PIPES OR HE MAY ELECT TO REMOVE AND REPLACE THEM WITH PVC SDR-35 AFTER INSTALLATION OF THE NEW SEWER PIPE. THIS REMOVAL SHALL BE SCHEDULED TO OCCUR DURING A DRY PERIOD OR A TEMPORARY PIPE SHALL BE INSTALLED. THE COST OF REPLACING THE STORM PIPE SHALL BE INCLUDED IN OTHER ITEMS OF WORK.
2. IF THE STORM PIPES ARE NOT REMOVED AND REPLACED, THE CONTRACTOR SHALL BE RESPONSIBLE FOR ANY DAMAGE AND THE TRENCH SURROUNDING EACH STORM PIPE SHALL BE FILLED WITH CLSM FROM A POINT 2 FEET BELOW THE STORM PIPE TO 1-FOOT ABOVE THE PIPE. THE COST OF THE SUPPORT, PROTECTION AND CLSM INSTALLATION SHALL BE INCLUDED IN OTHER ITEMS OF WORK.
3. ALL ROADWAY TRENCH EXCAVATION WITHIN ASH STREET AND DALEWOOD AVENUE WILL BE TEMPORARY PAVED WITH 2" THICK PAVEMENT. THE TOWN WILL RETURN AT THE END OF THE PROJECT AND HAVE THE PAVING CONTRACTOR RECLAIM THE ROADWAYS.

EXISTING GRADE

SEWER LATERAL CHIMNEYS (TYP.) VERTICAL HEIGHT TO BE FIELD ADJUSTED TO LATERAL DEPTH (TYP)

TRENCH DRAIN INTERRUPTER (TYP.)

8" sewer (vcp)

TO BE ABANDONED AND REMOVED FROM TRENCH OF NEW 36" SEWER

PROP. 36" RCP, CLASS V S=0.044%

WATER AT 15' 22' DEEP BORING

BOTH SIDES OF PIPE – TEMPORARY SHEETING LEFT-IN-PLACE CUT OFF AT ELEVATION 5.0 (SMH-10 TO SMH-13)

PLUG EX. 8" VCP PIPE ENTERING EX. SMH AFTER ABANDONMENT OF SEWER AS SHOWN

CHIMNEY FOR NEW 6" LATERAL TO #26 DALEWOOD AVENUE 6" I.E. 10.00

SEWER LATERAL CHIMNEYS (TYP) VERTICAL HEIGHT TO BE FIELD ADJUSTED TO LATERAL DEPTH (TYP)

EXISTING 8" SEWER TO BE ABANDONED/REMOVED AND ALL SERVICES TRANSFERRED TO NEW 36" SEWER VIA CHIMNEYS

20 LF 8" PVC S=3.0%

PROP. 36" RCP, CLASS V S=0.044%

WATER AT 15' 24' DEEP BORING

BOTH SIDES OF PIPE – TEMPORARY SHEETING LEFT-IN-PLACE CUT OFF AT ELEVATION 5.0 (SMH-13 TO SMH-15)

HORIZONTAL SCALE 1" = 20'

VERTICAL SCALE 1" = 4'

SCALE 1" = 20'

CARDINAL ENGINEERING ASSOCIATES
3 Colony Street | Meriden, CT 06451 | 203-238-1969

DATE: AUGUST 2019
SCALE: AS NOTED
DESIGNED BY: WB
DRAWN BY: SS
CHECKED BY: WB
APPROVED BY: JAC

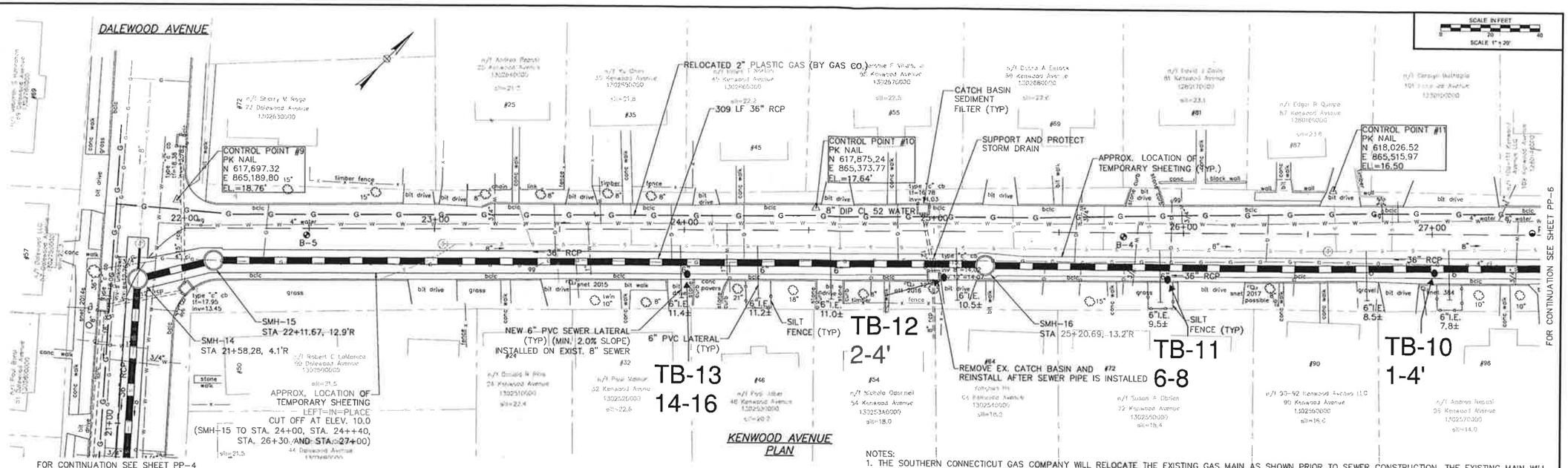
NO.	REVISION	DATE	BY

EAST TRUNK INTERCEPTOR SEWER RELOCATION
FAIRFIELD, CONNECTICUT
PLAN AND PROFILE - ASH STREET & DALEWOOD AVENUE

PP-4

7

ISSUED FOR DECD REVIEW - AUGUST 21, 2019



SANITARY MANHOLE	NORTHING	EASTING
14	617,663.79	865,201.05
15	617,690.49	865,217.29
16	617,906.70	865,438.01

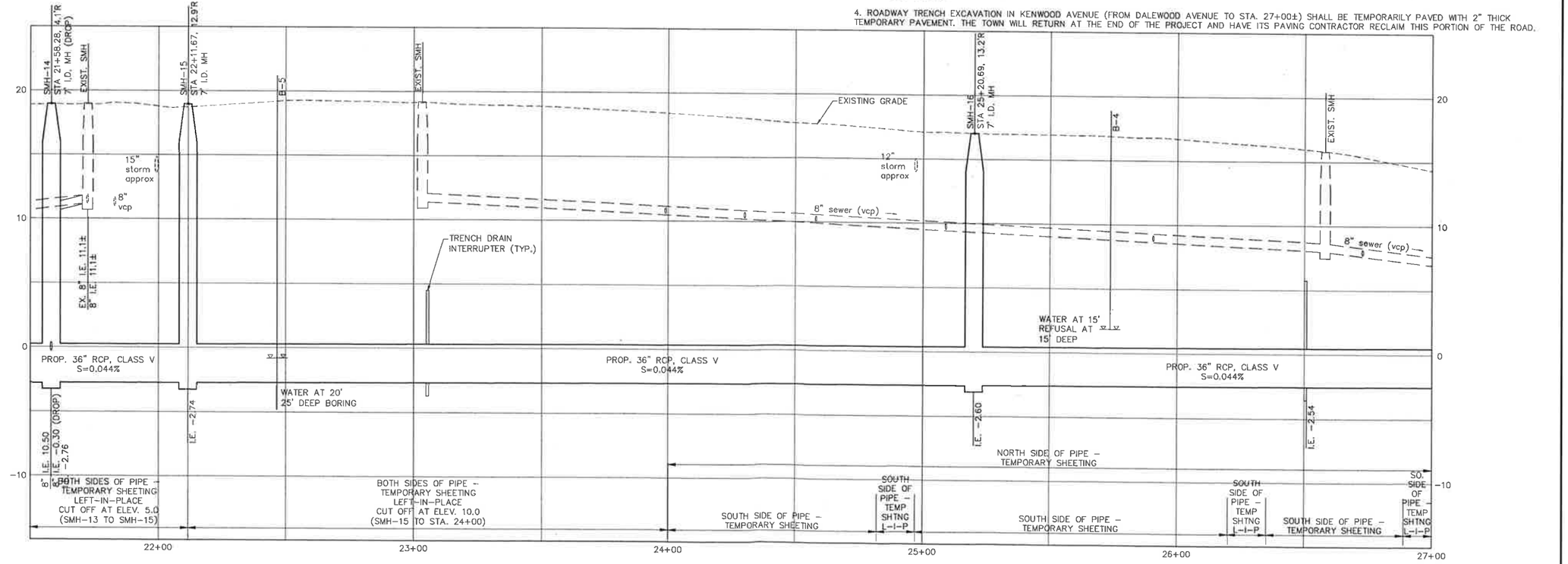
NOTES:

1. THE SOUTHERN CONNECTICUT GAS COMPANY WILL RELOCATE THE EXISTING GAS MAIN AS SHOWN PRIOR TO SEWER CONSTRUCTION. THE EXISTING MAIN WILL BE ABANDONED AND CAN BE REMOVED DURING SEWER INSTALLATION.

2. THE SEWER LATERALS FOR ALL HOUSES BETWEEN (AND INCLUDING) HOUSE #32 AND HOUSE #130 EXIT OUT OF THE REAR OF THE HOUSES TO THE EX. 33" SEWER.

3. THE CONTRACTOR SHALL EXCAVATE AND INSTALL NEW 6" PVC SEWER LATERALS FROM THE EXISTING 8" VCP SEWER TO THE SOUTH SIDE OF KENWOOD AVENUE FOR THE HOUSES SHOWN.

4. ROADWAY TRENCH EXCAVATION IN KENWOOD AVENUE (FROM DALEWOOD AVENUE TO STA. 27+00±) SHALL BE TEMPORARILY PAVED WITH 2" THICK TEMPORARY PAVEMENT. THE TOWN WILL RETURN AT THE END OF THE PROJECT AND HAVE ITS PAVING CONTRACTOR RECLAIM THIS PORTION OF THE ROAD.



HORIZONTAL SCALE IN FEET
HORIZONTAL SCALE 1" = 20'
VERTICAL SCALE IN FEET
VERTICAL SCALE 1" = 4'

NO.	REVISION	DATE	BY

DATE: AUGUST 2019
SCALE: AS NOTED
DESIGNED BY: WB
DRAWN BY: SS
CHECKED BY: WB
APPROVED BY: JAC

CARDINAL ENGINEERING
ENGINEERING ASSOCIATES
3 Colony Street | Meriden, CT 06451 | 203-238-1969

EAST TRUNK INTERCEPTOR SEWER RELOCATION
FAIRFIELD, CONNECTICUT
PLAN AND PROFILE - KENWOOD AVENUE

PP-5

8

ISSUED FOR DECD REVIEW - AUGUST 21, 2019

SANITARY MANHOLE	NORTHING	EASTING
17	618,172.47	865,706.75
17A	618,170.85	865,693.11
18	618,337.08	865,869.38

CONTROL POINT #11
PK NAIL
N 618,026.52
E 865,515.97
EL.=16.50'

CONTROL POINT #12
PK NAIL
N 618,151.82
E 865,690.45
EL.=8.87'

CONTROL POINT #13
SPIKE
N 618,384.26
E 865,906.99
EL.=6.29

KENARD STREET

METRO CENTER PROPERTY

FOR CONTINUATION SEE SHEET PP-5

100 YEAR FLOODPLAIN

RELOCATED 2" PLASTIC GAS (BY GAS CO.)

378 LF 36" RCP

APPROX. LOCATION OF TEMPORARY SHEETING (TYP.)

APPROX. LOCATION OF TEMPORARY SHEETING LEFT-IN-PLACE CUT OFF AT ELEV. 5.0

SMH-17A
INSTALL 5' I.D. SMH
CONNECT EXIST. SEWER LATERAL

TO BE ABANDONED (TYP)

234 LF 36" RCP

POSSIBLE LOCATION OF TEMPORARY ABOVEGROUND BYPASS PUMPING PIPE. ACTUAL LOCATION AND PIPE SIZE TO BE DETERMINED BY THE CONTRACTOR

CATCH BASIN SEDIMENT FILTER (TYP)

TB-1 1-3'

TB-2 2-4'

TB-3 1-3'

TB-4 4-6' GWS

TB-5 3-4'

TB-6 10-12'

TB-7 6-8'

TB-8 1-3'

TB-9 4-6'

TB-10 1-4'

EXISTING GAS MAIN TO BE ABANDONED BY GAS CO.

SILT FENCE (TYP)

APPROX. LOCATION OF TEMPORARY SHEETING LEFT-IN-PLACE CUT OFF TO ELEV. 10.0

NEW 6" PVC SEWER LATERAL (TYP) (MIN. 2.0% SLOPE)

APPROX. LOCATION OF TEMPORARY SHEETING LEFT-IN-PLACE CUT OFF TO ELEV. 5.0
7-LF 8" PVC S=2.9%

EXIST. SMH TO BE REMOVED AFTER EXISTING 8" SEWER IS CONNECTED TO NEW SMH-17

STEEL SHEETING TO BE LEFT-IN-PLACE

PROPOSED SMH-18
STA 31+31.61
REMOVE EXIST. SMH, AND INSTALL NEW 7' I.D. SMH, CONNECT EXIST. 33" RCP AND CONNECT NEW 36" RCP

SILT FENCE (TYP)

EXISTING 20' SAN. SEWER EASEMENT

AREA RESERVED FOR DEWATERING SILT/FILTER BAG(S)

MEAN HIGH WATER

MEAN HIGH TIDE

100 YEAR FLOODPLAIN (TYP)

APPROXIMATE 50 YEAR FLOODPLAIN (TYP)

APPROXIMATE 10 YEAR FLOODPLAIN (TYP)

SMH-17 (DROP)
STA 28+98.67, 13.6'R
CONNECT EX. 33" RCP AND MAINTAIN PARTIAL OPENING IN NEW SMH FOR MAINTENANCE ACCESS TO EX. 33" RCP UNTIL IT IS ABANDONED

20' SAN. EASEMENT

KENWOOD AVENUE PLAN

SCALE IN FEET
0 20 40
SCALE 1" = 20'

NOTES:

1. THE SEWER LATERALS FOR ALL HOUSES BETWEEN (AND INCLUDING) HOUSE #32 AND HOUSE #130 EXIST OUT OF THE REAR OF THE HOUSES TO THE EX. 33" SEWER.

2. THE CONTRACTOR SHALL TELEVISE EACH SECTION OF SEWER TO BE ABANDONED TO VERIFY AND LOCATE ACTIVE SERVICE LATERALS. ALL ACTIVE SERVICE LATERALS SHALL BE TRANSFERRED TO THE EXISTING 8" SEWER OR THE NEW 36" RCP SEWER VIA A CHIMNEY OR OTHER MEANS.

3. THE SOUTHERN CONNECTICUT GAS COMPANY WILL RELOCATE THE EXISTING GAS MAIN AS SHOWN PRIOR TO SEWER CONSTRUCTION. THE EXISTING MAIN WILL BE ABANDONED AND CAN BE REMOVED DURING SEWER INSTALLATION.

4. THE CONTRACTOR SHALL EXCAVATE AND INSTALL NEW 6" PVC SEWER LATERALS FROM THE EXISTING 8" VCP SEWER TO THE SOUTH SIDE OF KENWOOD AVENUE FOR THE HOUSES SHOWN.

5. THE CONTRACTOR SHALL STAKE AT 5' INTERVALS THE COASTAL JURISDICTION LINE (ELEVATION +5.2) AROUND THE 15" RCP STORM OUTFALL. THE PROPOSED STEEL SHEETING AND SILT FENCE SHALL BE PLACED LANDWARD OF THAT ELEVATION FOR THE CONSTRUCTION OF SMH-18.

6. ROADWAY TRENCH EXCAVATIONS WITHIN KENWOOD AVENUE (FROM STA. 27+00± TO KENARD STREET) WILL BE TEMPORARILY PAVED WITH 4" THICK TYPE 1 TEMPORARY PAVEMENT. THE ROADWAY WILL BE MILLED 2" AND OVERLAID UNDER THIS PROJECT.

EXIST. SMH
EXISTING GRADE
8" sewer (vcp)
TRENCH DRAIN INTERRUPTER (TYP.)
B-3
SMH-17A 5' I.D. MH
SMH-17, STA. 28+98.67, 13.6'R 7' I.D. MH (DROP)
EXIST. SMH
6" I.E. 3.00
EXISTING 33" RCP TO BE ABANDONED
15" storm approx
B-2
SMH-18 STA 31+31.61 7' I.D. MH
PROP. 36" RCP, CLASS V S=0.044%
PLUG 33" OPENING IN EX. SMH
PROP. 36" RCP, CLASS V S=0.039%
WATER AT 5' REFUSAL AT 12.5' DEEP
WATER AT 5' REFUSAL AT 9' DEEP
I.E. -2.54
I.E. -2.43
8" I.E. 1.90 (IN)
8" I.E. 0.00 (DROP)
I.E. -2.34
I.E. -2.33
8" I.E. 2.34± (IN)
8" I.E. 2.10 (OUT)
6" I.E. TO BE DETERMINED IN FIELD
NORTH SIDE OF PIPE – TEMPORARY SHEETING
SOUTH SIDE OF PIPE – TEMP SHTNG
SOUTH SIDE OF PIPE – TEMP SHTNG L-I-P
SOUTH SIDE OF PIPE – TEMPORARY SHEETING
SOUTH SIDE OF PIPE – TEMP SHTNG L-I-P
SOUTH SIDE OF PIPE – TEMPORARY SHEETING
SOUTH SIDE OF PIPE – TEMP SHTNG L-I-P
SOUTH SIDE OF PIPE – TEMP SHTNG
BOTH SIDES OF PIPE – TEMPORARY SHEETING LEFT-IN-PLACE CUT OFF AT ELEV. 5.0
20
10
0
-10
26+00
27+00
28+00
29+00
30+00
31+00

HORIZONTAL SCALE IN FEET
0 20 40
HORIZONTAL SCALE 1" = 20'

VERTICAL SCALE IN FEET
0 4 8
VERTICAL SCALE 1" = 4'

NO.	REVISION	DATE	BY
1	DLISP PERMIT COMMENTS ADDRESSED	1/30/19	WEB

DATE: AUGUST 2019
SCALE: AS NOTED
DESIGNED BY: WB
DRAWN BY: SS
CHECKED BY: WB
APPROVED BY: JAC

CARDINAL ENGINEERING ASSOCIATES
3 Colony Street | Meriden, CT 06451 | 203-238-1969

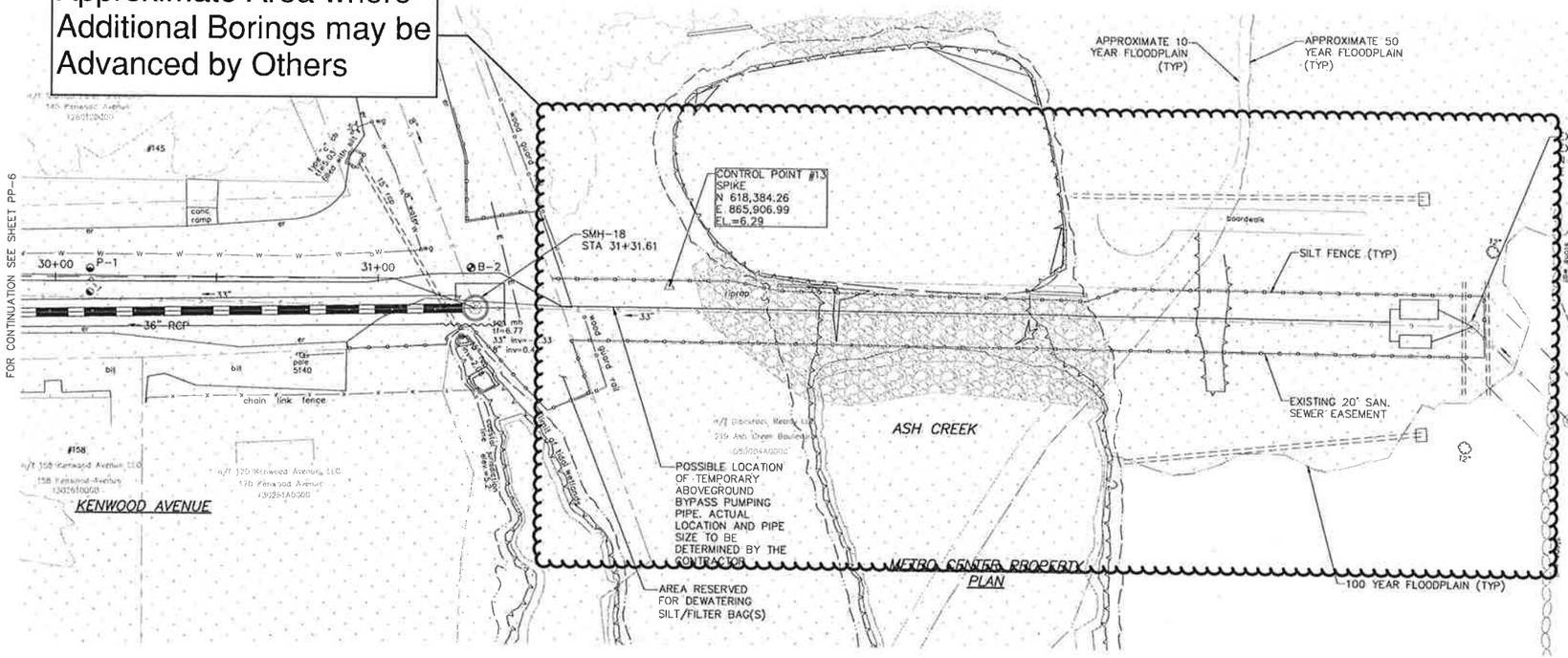
EAST TRUNK INTERCEPTOR SEWER RELOCATION
FAIRFIELD, CONNECTICUT
PLAN AND PROFILE - KENWOOD AVENUE

PP-6

9

ISSUED FOR DECD REVIEW - AUGUST 21, 2019

Approximate Area where Additional Borings may be Advanced by Others



NOTES:

1. THIS SHEET PROVIDED ONLY FOR INFORMATION SO THE CONTRACTOR CAN DETERMINE THE ABOVEGROUND BYPASS PUMPING ROUTE AND UPSTREAM BYPASS MANHOLE FOR THE INSTALLATION OF NEW SMH-19.

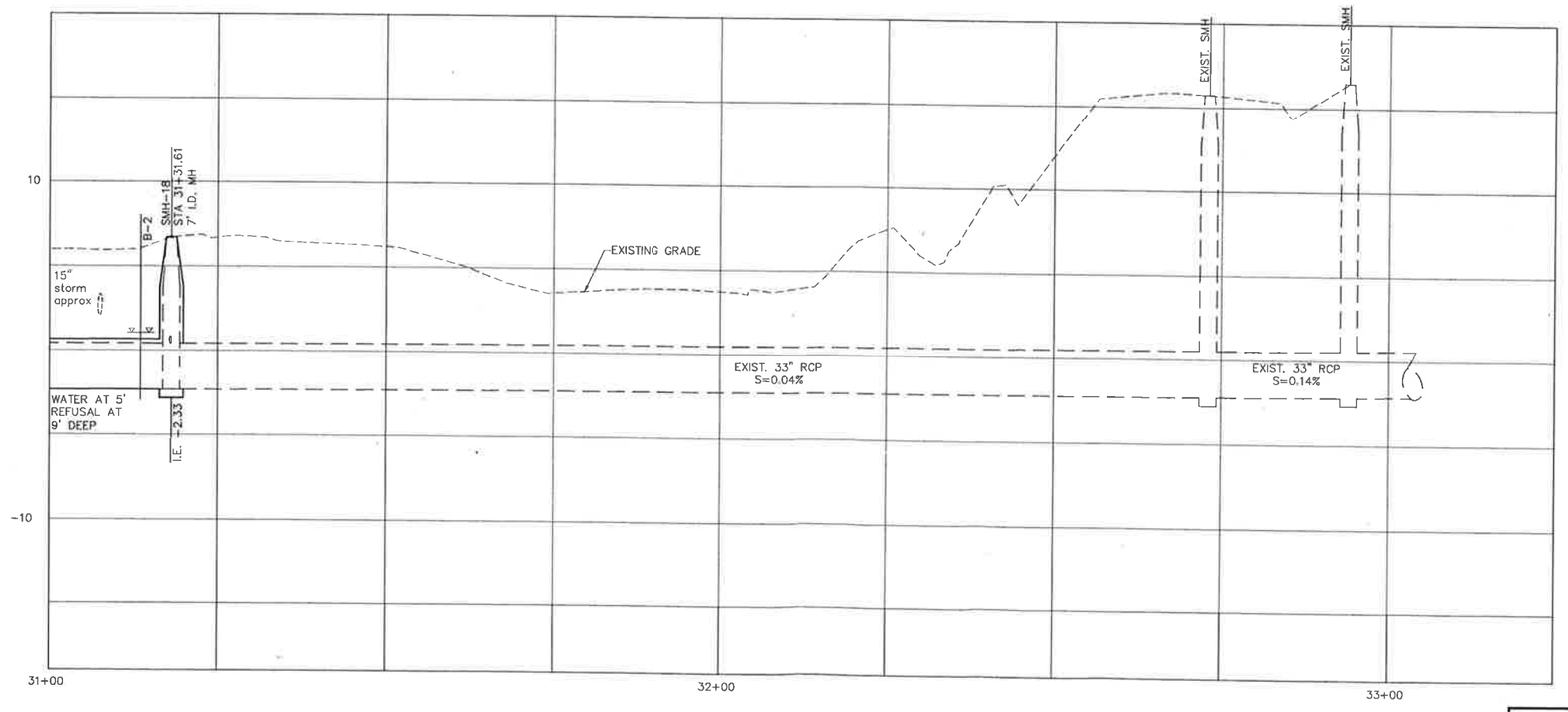
2. SILT FENCE SHALL BE REQUIRED TO BE USED ON BOTH SIDES OF EASEMENT AND AROUND BYPASS MANHOLE AS SHOWN.

3. THE CONTRACTOR SHALL BE REQUIRED TO USE HEAVY DUTY HDPE MATS (SIMILAR TO MEGADECK HD BY SIGNATURE SYSTEMS GROUP OR EQUAL) FROM THE EXISTING PAVEMENT AT KENARD STREET TO THE EXISTING SMH. A WHEEL-MOUNTED, DIESEL-DRIVEN CENTRIFUGAL PUMP PACKAGE IS SHOWN IN PLAN AND SHALL BE TRANSPORTED TO THE APPROXIMATE LOCATION SHOWN ON WOODEN OR HDPE MATS. THE PUMP PACKAGE, DISCHARGE PIPING AND MATS SHALL BE REMOVED AFTER BYPASS PUMPING IS NO LONGER NEEDED.

4. THE CONTRACTOR SHALL PROVIDE CT P.E. DESIGNED BYPASS PUMPING CALCULATIONS AND BYPASS PIPE DESIGN CALCULATION FOR REVIEW AND ACCEPTANCE DURING THE SHOP DRAWING PHASE. THE EXACT SIZE OF THE ABOVEGROUND BYPASS PIPING IS NOT KNOWN, BUT IT IS LIKELY TO BE 12" TO 18" DIAMETER, FUSED HDPE.

5. THIS EXISTING EASEMENT AREA IS WOODED/VEGETATED. THE CONTRACTOR SHALL PERFORM SELECTIVE CLEARING AND ONLY REMOVE THE MINIMUM VEGETATION REQUIRED TO INSTALL/REMOVE THE TEMPORARY SEWAGE BYPASS PIPING SYSTEM AND PUMPING EQUIPMENT. THE AREA SHALL BE RESTORED AFTER THE SYSTEM IS REMOVED.

SANITARY MANHOLE	NORTHING	EASTING
18	618,337.08	865,869.38
EXIST.	618,552.21	866,092.32



NO.	REVISION	DATE	BY

DATE: AUGUST 2019
SCALE: AS NOTED
DESIGNED BY: WB
DRAWN BY: SS
CHECKED BY: WB
APPROVED BY: JAC

CARDINAL ENGINEERING ASSOCIATES
3 Colony Street | Meriden, CT 06451 | 203-238-1969

EAST TRUNK INTERCEPTOR SEWER RELOCATION
FAIRFIELD, CONNECTICUT

PLAN AND PROFILE - METRO CENTER PROPERTY

PP-7

10

ISSUED FOR DECD REVIEW - AUGUST 21, 2019

AIA® Document A133® – 2019

Standard Form of Agreement Between Owner and Construction Manager as Constructor where the basis of payment is the Cost of the Work Plus a Fee with a Guaranteed Maximum Price

AGREEMENT made as of the 10th day of April in the year 2023
(In words, indicate day, month, and year.)

BETWEEN the Owner:
(Name, legal status, address, and other information)

Town of Fairfield
725 Old Post Road
Fairfield, CT 06824

and the Construction Manager:
(Name, legal status, address, and other information)

Bismark Construction Company, Inc.
100 Bridgeport Avenue
Milford, CT 06460

for the following Project:
(Name, location, and detailed description)

Penfield Pavilion Soil Remediation and Building Foundation Reconstruction
323 Fairfield Beach Road
Fairfield, CT 06824

The Architect:
(Name, legal status, address, and other information)

Joseph Sepot Architects
225 Montowese Street
Branford, CT 06405

The Owner and Construction Manager agree as follows.

ADDITIONS AND DELETIONS:
The author of this document has added information needed for its completion. The author may also have revised the text of the original AIA standard form. An *Additions and Deletions Report* that notes added information as well as revisions to the standard form text is available from the author and should be reviewed. A vertical line in the left margin of this document indicates where the author has added necessary information and where the author has added to or deleted from the original AIA text.

This document has important legal consequences. Consultation with an attorney is encouraged with respect to its completion or modification.

AIA Document A201™–2017, General Conditions of the Contract for Construction, is adopted in this document by reference. Do not use with other general conditions unless this document is modified.

TABLE OF ARTICLES

ARTICLE 1 INITIAL INFORMATION

§ 1.1 This Agreement is based on the Initial Information set forth in this Section 1.1.
(For each item in this section, insert the information or a statement such as "not applicable" or "unknown at time of execution.")

§ 1.1.1 The Owner's program for the Project, as described in Section 4.1.1:
(Insert the Owner's program, identify documentation that establishes the Owner's program, or state the manner in which the program will be developed.)

§ 1.1.2 The Project's physical characteristics:
(Identify or describe pertinent information about the Project's physical characteristics, such as size; location; dimensions; geotechnical reports; site boundaries; topographic surveys; traffic and utility studies; availability of public and private utilities and services; legal description of the site, etc.)

This is a foundation reconstruction project at the Penfield Pavilion. The scope of the work is to comply with FEMA flood zone requirements. This will be accomplished by reinstating engineers' foundations to the agreed elevation of 8 feet. The work will include required soil remediation removal and replacement as directed by the Town of Fairfield's hygienist, Weston & Sampson.

§ 1.1.3 The Owner's budget for the Guaranteed Maximum Price, as defined in Article 6:

(Provide total and, if known, a line item breakdown.)

§ 1.1.4 The Owner's anticipated design and construction milestone dates:

.1 Design phase milestone dates, if any:

DD Design Development to CD Plans – June 29, 2023

.2 Construction commencement date:

September 5, 2023

.3 Substantial Completion date or dates:

June 14, 2024

.4 Other milestone dates:

§ 1.1.5 The Owner's requirements for accelerated or fast-track scheduling, or phased construction, are set forth below:
(Identify any requirements for fast-track scheduling or phased construction.)

To meet the Project requirements construction will commence in September 2023. This will be completed under one phase. The project will include enabling, locker room building remediation, Pavilion Building foundation reconstruction and new building decks and perimeter upgrades. The final project cost will be finalized upon acceptance of bid offers, allowances and fees presented to GMP value. This final value will be adjusted by a contract change under amendment 1 portion of the contract.

§ 1.1.6 The Owner's anticipated Sustainable Objective for the Project:
(Identify and describe the Owner's Sustainable Objective for the Project, if any.)

N/A

§ 1.1.6.1 If the Owner identifies a Sustainable Objective, the Owner and Construction Manager shall complete and incorporate AIA Document E234™–2019, Sustainable Projects Exhibit, Construction Manager as Constructor Edition, into this Agreement to define the terms, conditions and services related to the Owner's Sustainable Objective. If E234–2019 is incorporated into this agreement, the Owner and Construction Manager shall incorporate the completed E234–2019 into the agreements with the consultants and contractors performing services or Work in any way associated with the Sustainable Objective.

§ 1.1.7 Other Project information:
(Identify special characteristics or needs of the Project not provided elsewhere.)

N/A

§ 1.1.8 The Owner identifies the following representative in accordance with Section 4.2:
(List name, address, and other contact information.)

Elias Ghazal
Project Manager - Construction
Town of Fairfield

§ 1.1.9 The persons or entities, in addition to the Owner's representative, who are required to review the Construction Manager's submittals to the Owner are as follows:
(List name, address and other contact information.)

Joseph Sepot Architects
Weston & Sampson, Malcolm Beeler, LEP

§ 1.1.10 The Owner shall retain the following consultants and contractors:
(List name, legal status, address, and other contact information.)

.1 Geotechnical Engineer:

Langan Engineering (Under Joseph Sepot Architects)
Clay Patterson

.2 Civil Engineer:

.3 Other, if any:
(List any other consultants retained by the Owner, such as a Project or Program Manager.)

Soils – Weston & Sampson
Malcolm Beeler, LEP

§ 1.1.11 The Architect's representative:
(List name, address, and other contact information.)

Joseph Sepot
Joseph Sepot Architects
225 Montowese Street
Branford, CT 06405

§ 1.1.12 The Construction Manager identifies the following representative in accordance with Article 3:
(List name, address, and other contact information.)

Lisa Johnson
Bismark Construction Co.
100 Bridgeport Avenue
Milford, CT 06460

§ 1.1.13 The Owner's requirements for the Construction Manager's staffing plan for Preconstruction Services, as required under Section 3.1.9:

(List any Owner-specific requirements to be included in the staffing plan.)

N/A

§ 1.1.14 The Owner's requirements for subcontractor procurement for the performance of the Work:
(List any Owner-specific requirements for subcontractor procurement.)

N/A

§ 1.1.15 Other Initial Information on which this Agreement is based:

N/A

§ 1.2 The Owner and Construction Manager may rely on the Initial Information. Both parties, however, recognize that such information may materially change and, in that event, the Owner and the Construction Manager shall appropriately adjust the Project schedule, the Construction Manager's services, and the Construction Manager's compensation. The Owner shall adjust the Owner's budget for the Guaranteed Maximum Price and the Owner's anticipated design and construction milestones, as necessary, to accommodate material changes in the Initial Information.

§ 1.3 Neither the Owner's nor the Construction Manager's representative shall be changed without ten days' prior notice to the other party.

ARTICLE 2 GENERAL PROVISIONS

§ 2.1 The Contract Documents

The Contract Documents consist of this Agreement, Conditions of the Contract (General, Supplementary and other Conditions), Drawings, Specifications, Addenda issued prior to execution of this Agreement, other documents listed in this Agreement, and Modifications issued after execution of this Agreement, all of which form the Contract and are as fully a part of the Contract as if attached to this Agreement or repeated herein. Upon the Owner's acceptance of the Construction Manager's Guaranteed Maximum Price proposal, the Contract Documents will also include the documents described in Section 3.2.3 and identified in the Guaranteed Maximum Price Amendment and revisions prepared by the Architect and furnished by the Owner as described in Section 3.2.8. The Contract represents the entire and integrated agreement between the parties hereto and supersedes prior negotiations, representations or agreements, either written or oral. If anything in the other Contract Documents, other than a Modification, is inconsistent with this Agreement, this Agreement shall govern. An enumeration of the Contract Documents, other than a Modification, appears in Article 15.

§ 2.2 Relationship of the Parties

The Construction Manager accepts the relationship of trust and confidence established by this Agreement and covenants with the Owner to cooperate with the Architect and exercise the Construction Manager's skill and judgment in furthering the interests of the Owner to furnish efficient construction administration, management services, and supervision; to furnish at all times an adequate supply of workers and materials; and to perform the Work in an expeditious and economical manner consistent with the Owner's interests. The Owner agrees to furnish or approve, in a timely manner, information required by the Construction Manager and to make payments to the Construction Manager in accordance with the requirements of the Contract Documents.

§ 2.3 General Conditions

§ 2.3.1 For the Preconstruction Phase, AIA Document A201™–2017, General Conditions of the Contract for Construction, shall apply as follows: Section 1.5, Ownership and Use of Documents; Section 1.7, Digital Data Use and Transmission; Section 1.8, Building Information Model Use and Reliance; Section 2.2.4, Confidential Information; Section 3.12.10, Professional Services; Section 10.3, Hazardous Materials; Section 13.1, Governing Law. The term "Contractor" as used in A201–2017 shall mean the Construction Manager.

§ 2.3.2 For the Construction Phase, the general conditions of the contract shall be as set forth in A201–2017, which document is incorporated herein by reference. The term "Contractor" as used in A201–2017 shall mean the Construction Manager.

ARTICLE 3 CONSTRUCTION MANAGER'S RESPONSIBILITIES

The Construction Manager's Preconstruction Phase responsibilities are set forth in Sections 3.1 and 3.2, and in the applicable provisions of A201-2017 referenced in Section 2.3.1. The Construction Manager's Construction Phase responsibilities are set forth in Section 3.3. The Owner and Construction Manager may agree, in consultation with the Architect, for the Construction Phase to commence prior to completion of the Preconstruction Phase, in which case, both phases will proceed concurrently. The Construction Manager shall identify a representative authorized to act on behalf of the Construction Manager with respect to the Project.

§ 3.1 Preconstruction Phase

§ 3.1.1 Extent of Responsibility

The Construction Manager shall exercise reasonable care in performing its Preconstruction Services. The Owner and Architect shall be entitled to rely on, and shall not be responsible for, the accuracy, completeness, and timeliness of services and information furnished by the Construction Manager. The Construction Manager, however, does not warrant or guarantee estimates and schedules except as may be included as part of the Guaranteed Maximum Price. The Construction Manager is not required to ascertain that the Drawings and Specifications are in accordance with applicable laws, statutes, ordinances, codes, rules and regulations, or lawful orders of public authorities, but the Construction Manager shall promptly report to the Architect and Owner any nonconformity discovered by or made known to the Construction Manager as a request for information in such form as the Architect may require.

§ 3.1.2 The Construction Manager shall provide a preliminary evaluation of the Owner's program, schedule and construction budget requirements, each in terms of the other.

§ 3.1.3 Consultation

§ 3.1.3.1 The Construction Manager shall schedule and conduct meetings with the Architect and Owner to discuss such matters as procedures, progress, coordination, and scheduling of the Work.

§ 3.1.3.2 The Construction Manager shall advise the Owner and Architect on proposed site use and improvements, selection of materials, building systems, and equipment. The Construction Manager shall also provide recommendations to the Owner and Architect, consistent with the Project requirements, on constructability; availability of materials and labor; time requirements for procurement, installation and construction; prefabrication; and factors related to construction cost including, but not limited to, costs of alternative designs or materials, preliminary budgets, life-cycle data, and possible cost reductions. The Construction Manager shall consult with the Architect regarding professional services to be provided by the Construction Manager during the Construction Phase.

§ 3.1.3.3 The Construction Manager shall assist the Owner and Architect in establishing building information modeling and digital data protocols for the Project, using AIA Document E203™–2013, Building Information Modeling and Digital Data Exhibit, to establish the protocols for the development, use, transmission, and exchange of digital data.

§ 3.1.4 Project Schedule

When Project requirements in Section 4.1.1 have been sufficiently identified, the Construction Manager shall prepare and periodically update a Project schedule for the Architect's review and the Owner's acceptance. The Construction Manager shall obtain the Architect's approval for the portion of the Project schedule relating to the performance of the Architect's services. The Project schedule shall coordinate and integrate the Construction Manager's services, the Architect's services, other Owner consultants' services, and the Owner's responsibilities; and identify items that affect the Project's timely completion. The updated Project schedule shall include the following: submission of the Guaranteed Maximum Price proposal; components of the Work; times of commencement and completion required of each Subcontractor; ordering and delivery of products, including those that must be ordered in advance of construction; and the occupancy requirements of the Owner.

§ 3.1.5 Phased Construction

The Construction Manager, in consultation with the Architect, shall provide recommendations with regard to accelerated or fast-track scheduling, procurement, and sequencing for phased construction. The Construction Manager shall take into consideration cost reductions, cost information, constructability, provisions for temporary facilities, and procurement and construction scheduling issues.

§ 3.1.6 Cost Estimates

§ 3.1.6.1 Based on the preliminary design and other design criteria prepared by the Architect, the Construction Manager shall prepare, for the Architect's review and the Owner's approval, preliminary estimates of the Cost of the Work or the cost of program requirements using area, volume, or similar conceptual estimating techniques. If the Architect or Construction Manager suggests alternative materials and systems, the Construction Manager shall provide cost evaluations of those alternative materials and systems.

§ 3.1.6.2 As the Architect progresses with the preparation of the Schematic Design, Design Development and Construction Documents, the Construction Manager shall prepare and update, at appropriate intervals agreed to by the Owner, Construction Manager and Architect, an estimate of the Cost of the Work with increasing detail and refinement. The Construction Manager shall include in the estimate those costs to allow for the further development of the design, price escalation, and market conditions, until such time as the Owner and Construction Manager agree on a Guaranteed Maximum Price for the Work. The estimate shall be provided for the Architect's review and the Owner's approval. The Construction Manager shall inform the Owner and Architect in the event that the estimate of the Cost of the Work exceeds the latest approved Project budget, and make recommendations for corrective action.

§ 3.1.6.3 If the Architect is providing cost estimating services as a Supplemental Service, and a discrepancy exists between the Construction Manager's cost estimates and the Architect's cost estimates, the Construction Manager and the Architect shall work together to reconcile the cost estimates.

§ 3.1.7 As the Architect progresses with the preparation of the Schematic Design, Design Development and Construction Documents, the Construction Manager shall consult with the Owner and Architect and make recommendations regarding constructability and schedules, for the Architect's review and the Owner's approval.

§ 3.1.8 The Construction Manager shall provide recommendations and information to the Owner and Architect regarding equipment, materials, services, and temporary Project facilities.

§ 3.1.9 The Construction Manager shall provide a staffing plan for Preconstruction Phase services for the Owner's review and approval.

§ 3.1.10 If the Owner identified a Sustainable Objective in Article 1, the Construction Manager shall fulfill its Preconstruction Phase responsibilities as required in AIA Document E234™–2019, Sustainable Projects Exhibit, Construction Manager as Constructor Edition, attached to this Agreement.

§ 3.1.11 Subcontractors and Suppliers

§ 3.1.11.1 If the Owner has provided requirements for subcontractor procurement in section 1.1.14, the Construction Manager shall provide a subcontracting plan, addressing the Owner's requirements, for the Owner's review and approval.

§ 3.1.11.2 The Construction Manager shall develop bidders' interest in the Project.

§ 3.1.11.3 The processes described in Article 9 shall apply if bid packages will be issued during the Preconstruction Phase.

§ 3.1.12 Procurement

The Construction Manager shall prepare, for the Architect's review and the Owner's acceptance, a procurement schedule for items that must be ordered in advance of construction. The Construction Manager shall expedite and coordinate the ordering and delivery of materials that must be ordered in advance of construction. If the Owner agrees to procure any items prior to the establishment of the Guaranteed Maximum Price, the Owner shall procure the items on terms and conditions acceptable to the Construction Manager. Upon the establishment of the Guaranteed Maximum Price, the Owner shall assign all contracts for these items to the Construction Manager and the Construction Manager shall thereafter accept responsibility for them.

§ 3.1.13 Compliance with Laws

The Construction Manager shall comply with applicable laws, statutes, ordinances, codes, rules and regulations, and lawful orders of public authorities applicable to its performance under this Contract, and with equal employment opportunity programs, and other programs as may be required by governmental and quasi-governmental authorities.

§ 3.1.14 Other Preconstruction Services

Insert a description of any other Preconstruction Phase services to be provided by the Construction Manager, or reference an exhibit attached to this document

(Describe any other Preconstruction Phase services, such as providing cash flow projections, development of a project information management system, early selection or procurement of subcontractors, etc.)

N/A

§ 3.2 Guaranteed Maximum Price Proposal

§ 3.2.1 At a time to be mutually agreed upon by the Owner and the Construction Manager, the Construction Manager shall prepare a Guaranteed Maximum Price proposal for the Owner's and Architect's review, and the Owner's acceptance. The Guaranteed Maximum Price in the proposal shall be the sum of the Construction Manager's estimate of the Cost of the Work, the Construction Manager's contingency described in Section 3.2.4, and the Construction Manager's Fee described in Section 6.1.2.

§ 3.2.2 To the extent that the Contract Documents are anticipated to require further development, the Guaranteed Maximum Price includes the costs attributable to such further development consistent with the Contract Documents and reasonably inferable therefrom. Such further development does not include changes in scope, systems, kinds and quality of materials, finishes, or equipment, all of which, if required, shall be incorporated by Change Order.

§ 3.2.3 The Construction Manager shall include with the Guaranteed Maximum Price proposal a written statement of its basis, which shall include the following:

.1 A list of the Drawings and Specifications, including all Addenda thereto, and the Conditions of the Contract;

.2 A list of the clarifications and assumptions made by the Construction Manager in the preparation of the Guaranteed Maximum Price proposal, including assumptions under Section 3.2.2;

.3 A statement of the proposed Guaranteed Maximum Price, including a statement of the estimated Cost of the Work organized by trade categories or systems, including allowances; the Construction Manager's contingency set forth in Section 3.2.4; and the Construction Manager's Fee;

.4 The anticipated date of Substantial Completion upon which the proposed Guaranteed Maximum Price is based; and

.5 A date by which the Owner must accept the Guaranteed Maximum Price.

§ 3.2.4 In preparing the Construction Manager's Guaranteed Maximum Price proposal, the Construction Manager shall include a contingency for the Construction Manager's exclusive use to cover those costs that are included in the Guaranteed Maximum Price but not otherwise allocated to another line item or included in a Change Order.

§ 3.2.5 The Construction Manager shall meet with the Owner and Architect to review the Guaranteed Maximum Price proposal. In the event that the Owner or Architect discover any inconsistencies or inaccuracies in the information presented, they shall promptly notify the Construction Manager, who shall make appropriate adjustments to the Guaranteed Maximum Price proposal, its basis, or both.

§ 3.2.6 If the Owner notifies the Construction Manager that the Owner has accepted the Guaranteed Maximum Price proposal in writing before the date specified in the Guaranteed Maximum Price proposal, the Guaranteed Maximum Price proposal shall be deemed effective without further acceptance from the Construction Manager. Following acceptance of a Guaranteed Maximum Price, the Owner and Construction Manager shall execute the Guaranteed Maximum Price Amendment amending this Agreement, a copy of which the Owner shall provide to the Architect. The Guaranteed Maximum Price Amendment shall set forth the agreed upon Guaranteed Maximum Price with the information and assumptions upon which it is based.

§ 3.2.7 The Construction Manager shall not incur any cost to be reimbursed as part of the Cost of the Work prior to the execution of the Guaranteed Maximum Price Amendment, unless the Owner provides prior written authorization for such costs.

§ 3.2.8 The Owner shall authorize preparation of revisions to the Contract Documents that incorporate the agreed-upon assumptions and clarifications contained in the Guaranteed Maximum Price Amendment. The Owner shall promptly furnish such revised Contract Documents to the Construction Manager. The Construction Manager shall notify the Owner

and Architect of any inconsistencies between the agreed-upon assumptions and clarifications contained in the Guaranteed Maximum Price Amendment and the revised Contract Documents.

§ 3.2.9 The Construction Manager shall include in the Guaranteed Maximum Price all sales, consumer, use and similar taxes for the Work provided by the Construction Manager that are legally enacted, whether or not yet effective, at the time the Guaranteed Maximum Price Amendment is executed.

§ 3.3 Construction Phase

§ 3.3.1 General

§ 3.3.1.1 For purposes of Section 8.1.2 of A201–2017, the date of commencement of the Work shall mean the date of commencement of the Construction Phase.

§ 3.3.1.2 The Construction Phase shall commence upon the Owner's execution of the Guaranteed Maximum Price Amendment or, prior to acceptance of the Guaranteed Maximum Price proposal, by written agreement of the parties. The written agreement shall set forth a description of the Work to be performed by the Construction Manager, and any insurance and bond requirements for Work performed prior to execution of the Guaranteed Maximum Price Amendment.

§ 3.3.2 Administration

§ 3.3.2.1 The Construction Manager shall schedule and conduct meetings to discuss such matters as procedures, progress, coordination, scheduling, and status of the Work. The Construction Manager shall prepare and promptly distribute minutes of the meetings to the Owner and Architect.

§ 3.3.2.2 Upon the execution of the Guaranteed Maximum Price Amendment, the Construction Manager shall prepare and submit to the Owner and Architect a construction schedule for the Work and a submittal schedule in accordance with Section 3.10 of A201–2017.

§ 3.3.2.3 Monthly Report

The Construction Manager shall record the progress of the Project. On a monthly basis, or otherwise as agreed to by the Owner, the Construction Manager shall submit written progress reports to the Owner and Architect, showing percentages of completion and other information required by the Owner.

§ 3.3.2.4 Daily Logs

The Construction Manager shall keep, and make available to the Owner and Architect, a daily log containing a record for each day of weather, portions of the Work in progress, number of workers on site, identification of equipment on site, problems that might affect progress of the work, accidents, injuries, and other information required by the Owner.

§ 3.3.2.5 Cost Control

The Construction Manager shall develop a system of cost control for the Work, including regular monitoring of actual costs for activities in progress and estimates for uncompleted tasks and proposed changes. The Construction Manager shall identify variances between actual and estimated costs and report the variances to the Owner and Architect, and shall provide this information in its monthly reports to the Owner and Architect, in accordance with Section 3.3.2.3 above.

ARTICLE 4 OWNER'S RESPONSIBILITIES

§ 4.1 Information and Services Required of the Owner

§ 4.1.1 The Owner shall provide information with reasonable promptness, regarding requirements for and limitations on the Project, including a written program which shall set forth the Owner's objectives, constraints, and criteria, including schedule, space requirements and relationships, flexibility and expandability, special equipment, systems, sustainability and site requirements.

§ 4.1.2 Prior to the execution of the Guaranteed Maximum Price Amendment, the Construction Manager may request in writing that the Owner provide reasonable evidence that the Owner has made financial arrangements to fulfill the Owner's obligations under the Contract. After execution of the Guaranteed Maximum Price Amendment, the Construction Manager may request such information as set forth in A201-2017 Section 2.2.

§ 4.1.3 The Owner shall establish and periodically update the Owner's budget for the Project, including (1) the budget for the Cost of the Work as defined in Article 7, (2) the Owner's other costs, and (3) reasonable contingencies related to all of these costs. If the Owner significantly increases or decreases the Owner's budget for the Cost of the Work, the Owner

shall notify the Construction Manager and Architect. The Owner and the Architect, in consultation with the Construction Manager, shall thereafter agree to a corresponding change in the Project's scope and quality.

§ 4.1.4 Structural and Environmental Tests, Surveys and Reports. During the Preconstruction Phase, the Owner shall furnish the following information or services with reasonable promptness. The Owner shall also furnish any other information or services under the Owner's control and relevant to the Construction Manager's performance of the Work with reasonable promptness after receiving the Construction Manager's written request for such information or services. The Construction Manager shall be entitled to rely on the accuracy of information and services furnished by the Owner but shall exercise proper precautions relating to the safe performance of the Work.

§ 4.1.4.1 The Owner shall furnish tests, inspections, and reports, required by law and as otherwise agreed to by the parties, such as structural, mechanical, and chemical tests, tests for air and water pollution, and tests for hazardous materials.

§ 4.1.4.2 The Owner shall furnish surveys describing physical characteristics, legal limitations and utility locations for the site of the Project, and a written legal description of the site. The surveys and legal information shall include, as applicable, grades and lines of streets, alleys, pavements and adjoining property and structures; designated wetlands; adjacent drainage; rights-of-way, restrictions, easements, encroachments, zoning, deed restrictions, boundaries and contours of the site; locations, dimensions and other necessary data with respect to existing buildings, other improvements and trees; and information concerning available utility services and lines, both public and private, above and below grade, including inverts and depths. All the information on the survey shall be referenced to a Project benchmark.

§ 4.1.4.3 The Owner, when such services are requested, shall furnish services of geotechnical engineers, which may include test borings, test pits, determinations of soil bearing values, percolation tests, evaluations of hazardous materials, seismic evaluation, ground corrosion tests and resistivity tests, including necessary operations for anticipating subsoil conditions, with written reports and appropriate recommendations.

§ 4.1.5 During the Construction Phase, the Owner shall furnish information or services required of the Owner by the Contract Documents with reasonable promptness. The Owner shall also furnish any other information or services under the Owner's control and relevant to the Construction Manager's performance of the Work with reasonable promptness after receiving the Construction Manager's written request for such information or services.

§ 4.1.6 If the Owner identified a Sustainable Objective in Article 1, the Owner shall fulfill its responsibilities as required in AIA Document E234™–2019, Sustainable Projects Exhibit, Construction Manager as Constructor Edition, attached to this Agreement.

§ 4.2 Owner's Designated Representative

The Owner shall identify a representative authorized to act on behalf of the Owner with respect to the Project. The Owner's representative shall render decisions promptly and furnish information expeditiously, so as to avoid unreasonable delay in the services or Work of the Construction Manager. Except as otherwise provided in Section 4.2.1 of A201–2017, the Architect does not have such authority. The term "Owner" means the Owner or the Owner's authorized representative.

§ 4.2.1 Legal Requirements. The Owner shall furnish all legal, insurance and accounting services, including auditing services, that may be reasonably necessary at any time for the Project to meet the Owner's needs and interests.

§ 4.3 Architect

The Owner shall retain an Architect to provide services, duties and responsibilities as described in AIA Document B133™–2019, Standard Form of Agreement Between Owner and Architect, Construction Manager as Constructor Edition, including any additional services requested by the Construction Manager that are necessary for the Preconstruction and Construction Phase services under this Agreement. The Owner shall provide the Construction Manager with a copy of the scope of services in the executed agreement between the Owner and the Architect, and any further modifications to the Architect's scope of services in the agreement.

ARTICLE 5 COMPENSATION AND PAYMENTS FOR PRECONSTRUCTION PHASE SERVICES

§ 5.1 Compensation

§ 5.1.1 For the Construction Manager's Preconstruction Phase services described in Sections 3.1 and 3.2, the Owner shall compensate the Construction Manager as follows:

(Insert amount of, or basis for, compensation and include a list of reimbursable cost items, as applicable.)

See attached Proposal Letter dated 4/10/2023, Exhibit C
Pre-Construction Pre Town-Approval - $36,000
CM Pre-Construction Fee Through July 2023 - $38,019.

§ 5.1.2 The hourly billing rates for Preconstruction Phase services of the Construction Manager and the Construction Manager's Consultants and Subcontractors, if any, are set forth below.
(If applicable, attach an exhibit of hourly billing rates or insert them below.)

Individual or Position	Rate
Project Executive	$165.00 / hr
Project Manager	$116.00 / hr
Project Estimator	$105.00 / hr
Assistant Project Manager	$75.00 / hr
Project Engineer	$85.00 / hr
Project Superintendent	$115.00 / hr
Carpenter	$94.00 / hr
Laborer	$88.00 / hr
Clerical	$55.00 / hr
Safety Officer	$105.00 / hr

§ 5.1.2.1 Hourly billing rates for Preconstruction Phase services include all costs to be paid or incurred by the Construction Manager, as required by law or collective bargaining agreements, for taxes, insurance, contributions, assessments and benefits and, for personnel not covered by collective bargaining agreements, customary benefits such as sick leave, medical and health benefits, holidays, vacations and pensions, and shall remain unchanged unless the parties execute a Modification.

§ 5.1.3 If the Preconstruction Phase services covered by this Agreement have not been completed within ( ) months of the date of this Agreement, through no fault of the Construction Manager, the Construction Manager's compensation for Preconstruction Phase services shall be equitably adjusted.

§ 5.2 Payments
§ 5.2.1 Unless otherwise agreed, payments for services shall be made monthly in proportion to services performed.

§ 5.2.2 Payments are due and payable upon presentation of the Construction Manager's invoice. Amounts unpaid thirty (30) days after the invoice date shall bear interest at the rate entered below, or in the absence thereof at the legal rate prevailing from time to time at the principal place of business of the Construction Manager.
(Insert rate of monthly or annual interest agreed upon.)

1 % One

ARTICLE 6 COMPENSATION FOR CONSTRUCTION PHASE SERVICES
§ 6.1 Contract Sum
§ 6.1.1 The Owner shall pay the Construction Manager the Contract Sum in current funds for the Construction Manager's performance of the Contract after execution of the Guaranteed Maximum Price Amendment. The Contract Sum is the Cost of the Work as defined in Article 7 plus the Construction Manager's Fee.

§ 6.1.2 The Construction Manager's Fee:
(State a lump sum, percentage of Cost of the Work or other provision for determining the Construction Manager's Fee.)

To be agreed upon execution of the GMP Amendment

§ 6.1.3 The method of adjustment of the Construction Manager's Fee for changes in the Work:

To be agreed upon execution of the GMP Amendment

§ 6.1.4 Limitations, if any, on a Subcontractor's overhead and profit for increases in the cost of its portion of the Work:

15%

§ 6.1.5 Rental rates for Construction Manager-owned equipment shall not exceed Ten percent (10 %) of the standard rental rate paid at the place of the Project.

§ 6.1.6 Liquidated damages, if any:
(Insert terms and conditions for liquidated damages, if any.)

N/A

§ 6.1.7 Other:
(Insert provisions for bonus, cost savings or other incentives, if any, that might result in a change to the Contract Sum.)

To be agreed upon execution of the GMP Amendment

§ 6.2 Guaranteed Maximum Price

The Construction Manager guarantees that the Contract Sum shall not exceed the Guaranteed Maximum Price set forth in the Guaranteed Maximum Price Amendment, subject to additions and deductions by Change Order as provided in the Contract Documents. Costs which would cause the Guaranteed Maximum Price to be exceeded shall be paid by the Construction Manager without reimbursement by the Owner.

§ 6.3 Changes in the Work

§ 6.3.1 The Owner may, without invalidating the Contract, order changes in the Work within the general scope of the Contract consisting of additions, deletions or other revisions. The Owner shall issue such changes in writing. The Construction Manager may be entitled to an equitable adjustment in the Contract Time as a result of changes in the Work.

§ 6.3.1.1 The Architect may order minor changes in the Work as provided in Article 7 of AIA Document A201–2017, General Conditions of the Contract for Construction.

§ 6.3.2 Adjustments to the Guaranteed Maximum Price on account of changes in the Work subsequent to the execution of the Guaranteed Maximum Price Amendment may be determined by any of the methods listed in Article 7 of AIA Document A201–2017, General Conditions of the Contract for Construction.

§ 6.3.3 Adjustments to subcontracts awarded on the basis of a stipulated sum shall be determined in accordance with Article 7 of A201–2017, as they refer to "cost" and "fee," and not by Articles 6 and 7 of this Agreement. Adjustments to subcontracts awarded with the Owner's prior written consent on the basis of cost plus a fee shall be calculated in accordance with the terms of those subcontracts.

§ 6.3.4 In calculating adjustments to the Guaranteed Maximum Price, the terms "cost" and "costs" as used in Article 7 of AIA Document A201–2017 shall mean the Cost of the Work as defined in Article 7 of this Agreement and the term "fee" shall mean the Construction Manager's Fee as defined in Section 6.1.2 of this Agreement.

§ 6.3.5 If no specific provision is made in Section 6.1.3 for adjustment of the Construction Manager's Fee in the case of changes in the Work, or if the extent of such changes is such, in the aggregate, that application of the adjustment provisions of Section 6.1.3 will cause substantial inequity to the Owner or Construction Manager, the Construction Manager's Fee shall be equitably adjusted on the same basis that was used to establish the Fee for the original Work, and the Guaranteed Maximum Price shall be adjusted accordingly.

ARTICLE 7 COST OF THE WORK FOR CONSTRUCTION PHASE

§ 7.1 Costs to Be Reimbursed

§ 7.1.1 The term Cost of the Work shall mean costs necessarily incurred by the Construction Manager in the proper performance of the Work. The Cost of the Work shall include only the items set forth in Sections 7.1 through 7.7.

§ 7.1.2 Where, pursuant to the Contract Documents, any cost is subject to the Owner's prior approval, the Construction Manager shall obtain such approval in writing prior to incurring the cost.

§ 7.1.3 Costs shall be at rates not higher than the standard rates paid at the place of the Project, except with prior approval of the Owner.

§ 7.2 Labor Costs

§ 7.2.1 Wages or salaries of construction workers directly employed by the Construction Manager to perform the construction of the Work at the site or, with the Owner's prior approval, at off-site workshops.

§ 7.2.2 Wages or salaries of the Construction Manager's supervisory and administrative personnel when stationed at the site and performing Work, with the Owner's prior approval.

§ 7.2.2.1 Wages or salaries of the Construction Manager's supervisory and administrative personnel when performing Work and stationed at a location other than the site, but only for that portion of time required for the Work, and limited to the personnel and activities listed below:
(Identify the personnel, type of activity and, if applicable, any agreed upon percentage of time to be devoted to the Work.)

Clerical / Assistant Project manager for shop drawing phase and closeout

§ 7.2.3 Wages and salaries of the Construction Manager's supervisory or administrative personnel engaged at factories, workshops or while traveling, in expediting the production or transportation of materials or equipment required for the Work, but only for that portion of their time required for the Work.

§ 7.2.4 Costs paid or incurred by the Construction Manager, as required by law or collective bargaining agreements, for taxes, insurance, contributions, assessments and benefits and, for personnel not covered by collective bargaining agreements, customary benefits such as sick leave, medical and health benefits, holidays, vacations and pensions, provided such costs are based on wages and salaries included in the Cost of the Work under Sections 7.2.1 through 7.2.3.

§ 7.2.5 If agreed rates for labor costs, in lieu of actual costs, are provided in this Agreement, the rates shall remain unchanged throughout the duration of this Agreement, unless the parties execute a Modification.

§ 7.3 Subcontract Costs

Payments made by the Construction Manager to Subcontractors in accordance with the requirements of the subcontracts and this Agreement.

§ 7.4 Costs of Materials and Equipment Incorporated in the Completed Construction

§ 7.4.1 Costs, including transportation and storage at the site, of materials and equipment incorporated, or to be incorporated, in the completed construction.

§ 7.4.2 Costs of materials described in the preceding Section 7.4.1 in excess of those actually installed to allow for reasonable waste and spoilage. Unused excess materials, if any, shall become the Owner's property at the completion of the Work or, at the Owner's option, shall be sold by the Construction Manager. Any amounts realized from such sales shall be credited to the Owner as a deduction from the Cost of the Work.

§ 7.5 Costs of Other Materials and Equipment, Temporary Facilities and Related Items

§ 7.5.1 Costs of transportation, storage, installation, dismantling, maintenance, and removal of materials, supplies, temporary facilities, machinery, equipment and hand tools not customarily owned by construction workers that are provided by the Construction Manager at the site and fully consumed in the performance of the Work. Costs of materials, supplies, temporary facilities, machinery, equipment, and tools, that are not fully consumed, shall be based on the cost or value of the item at the time it is first used on the Project site less the value of the item when it is no longer used at the Project site. Costs for items not fully consumed by the Construction Manager shall mean fair market value.

§ 7.5.2 Rental charges for temporary facilities, machinery, equipment, and hand tools not customarily owned by construction workers that are provided by the Construction Manager at the site, and the costs of transportation, installation, dismantling, minor repairs, and removal of such temporary facilities, machinery, equipment, and hand tools. Rates and quantities of equipment owned by the Construction Manager, or a related party as defined in Section 7.8, shall

be subject to the Owner's prior approval. The total rental cost of any such equipment may not exceed the purchase price of any comparable item.

§ 7.5.3 Costs of removal of debris from the site of the Work and its proper and legal disposal.

§ 7.5.4 Costs of the Construction Manager's site office, including general office equipment and supplies.

§ 7.5.5 Costs of materials and equipment suitably stored off the site at a mutually acceptable location, subject to the Owner's prior approval.

§ 7.6 Miscellaneous Costs

§ 7.6.1 Premiums for that portion of insurance and bonds required by the Contract Documents that can be directly attributed to this Contract.

§ 7.6.1.1 Costs for self-insurance, for either full or partial amounts of the coverages required by the Contract Documents, with the Owner's prior approval.

§ 7.6.1.2 Costs for insurance through a captive insurer owned or controlled by the Construction Manager, with the Owner's prior approval.

§ 7.6.2 Sales, use, or similar taxes, imposed by a governmental authority, that are related to the Work and for which the Construction Manager is liable.

§ 7.6.3 Fees and assessments for the building permit, and for other permits, licenses, and inspections, for which the Construction Manager is required by the Contract Documents to pay.

§ 7.6.4 Fees of laboratories for tests required by the Contract Documents; except those related to defective or nonconforming Work for which reimbursement is excluded under Article 13 of AIA Document A201–2017 or by other provisions of the Contract Documents, and which do not fall within the scope of Section 7.7.3.

§ 7.6.5 Royalties and license fees paid for the use of a particular design, process, or product, required by the Contract Documents.

§ 7.6.5.1 The cost of defending suits or claims for infringement of patent rights arising from requirements of the Contract Documents, payments made in accordance with legal judgments against the Construction Manager resulting from such suits or claims, and payments of settlements made with the Owner's consent, unless the Construction Manager had reason to believe that the required design, process, or product was an infringement of a copyright or a patent, and the Construction Manager failed to promptly furnish such information to the Architect as required by Article 3 of AIA Document A201–2017. The costs of legal defenses, judgments, and settlements shall not be included in the Cost of the Work used to calculate the Construction Manager's Fee or subject to the Guaranteed Maximum Price.

§ 7.6.6 Costs for communications services, electronic equipment, and software, directly related to the Work and located at the site, with the Owner's prior approval.

§ 7.6.7 Costs of document reproductions and delivery charges.

§ 7.6.8 Deposits lost for causes other than the Construction Manager's negligence or failure to fulfill a specific responsibility in the Contract Documents.

§ 7.6.9 Legal, mediation and arbitration costs, including attorneys' fees, other than those arising from disputes between the Owner and Construction Manager, reasonably incurred by the Construction Manager after the execution of this Agreement in the performance of the Work and with the Owner's prior approval, which shall not be unreasonably withheld.

§ 7.6.10 Expenses incurred in accordance with the Construction Manager's standard written personnel policy for relocation and temporary living allowances of the Construction Manager's personnel required for the Work, with the Owner's prior approval.

§ 7.6.11 That portion of the reasonable expenses of the Construction Manager's supervisory or administrative personnel incurred while traveling in discharge of duties connected with the Work.

§ 7.7 Other Costs and Emergencies

§ 7.7.1 Other costs incurred in the performance of the Work, with the Owner's prior approval.

§ 7.7.2 Costs incurred in taking action to prevent threatened damage, injury, or loss, in case of an emergency affecting the safety of persons and property, as provided in Article 10 of AIA Document A201–2017.

§ 7.7.3 Costs of repairing or correcting damaged or nonconforming Work executed by the Construction Manager, Subcontractors, or suppliers, provided that such damaged or nonconforming Work was not caused by the negligence of, or failure to fulfill a specific responsibility by, the Construction Manager, and only to the extent that the cost of repair or correction is not recovered by the Construction Manager from insurance, sureties, Subcontractors, suppliers, or others.

§ 7.7.4 The costs described in Sections 7.1 through 7.7 shall be included in the Cost of the Work, notwithstanding any provision of AIA Document A201–2017 or other Conditions of the Contract which may require the Construction Manager to pay such costs, unless such costs are excluded by the provisions of Section 7.9.

§ 7.8 Related Party Transactions

§ 7.8.1 For purposes of this Section 7.8, the term "related party" shall mean (1) a parent, subsidiary, affiliate, or other entity having common ownership of, or sharing common management with, the Construction Manager; (2) any entity in which any stockholder in, or management employee of, the Construction Manager holds an equity interest in excess of ten percent in the aggregate; (3) any entity which has the right to control the business or affairs of the Construction Manager; or (4) any person, or any member of the immediate family of any person, who has the right to control the business or affairs of the Construction Manager.

§ 7.8.2 If any of the costs to be reimbursed arise from a transaction between the Construction Manager and a related party, the Construction Manager shall notify the Owner of the specific nature of the contemplated transaction, including the identity of the related party and the anticipated cost to be incurred, before any such transaction is consummated or cost incurred. If the Owner, after such notification, authorizes the proposed transaction in writing, then the cost incurred shall be included as a cost to be reimbursed, and the Construction Manager shall procure the Work, equipment, goods, or service, from the related party, as a Subcontractor, according to the terms of Article 9. If the Owner fails to authorize the transaction in writing, the Construction Manager shall procure the Work, equipment, goods, or service from some person or entity other than a related party according to the terms of Article 9.

§ 7.9 Costs Not To Be Reimbursed

§ 7.9.1 The Cost of the Work shall not include the items listed below:

- **.1** Salaries and other compensation of the Construction Manager's personnel stationed at the Construction Manager's principal office or offices other than the site office, except as specifically provided in Section 7.2, or as may be provided in Article 14;
- **.2** Bonuses, profit sharing, incentive compensation, and any other discretionary payments, paid to anyone hired by the Construction Manager or paid to any Subcontractor or vendor, unless the Owner has provided prior approval;
- **.3** Expenses of the Construction Manager's principal office and offices other than the site office;
- **.4** Overhead and general expenses, except as may be expressly included in Sections 7.1 to 7.7;
- **.5** The Construction Manager's capital expenses, including interest on the Construction Manager's capital employed for the Work;
- **.6** Except as provided in Section 7.7.3 of this Agreement, costs due to the negligence of, or failure to fulfill a specific responsibility of the Contract by, the Construction Manager, Subcontractors, and suppliers, or anyone directly or indirectly employed by any of them or for whose acts any of them may be liable;
- **.7** Any cost not specifically and expressly described in Sections 7.1 to 7.7;
- **.8** Costs, other than costs included in Change Orders approved by the Owner, that would cause the Guaranteed Maximum Price to be exceeded; and
- **.9** Costs for services incurred during the Preconstruction Phase.

ARTICLE 8 DISCOUNTS, REBATES, AND REFUNDS

§ 8.1 Cash discounts obtained on payments made by the Construction Manager shall accrue to the Owner if (1) before making the payment, the Construction Manager included the amount to be paid, less such discount, in an Application for Payment and received payment from the Owner, or (2) the Owner has deposited funds with the Construction Manager with which to make payments; otherwise, cash discounts shall accrue to the Construction Manager. Trade discounts, rebates, refunds, and amounts received from sales of surplus materials and equipment shall accrue to the Owner, and the Construction Manager shall make provisions so that they can be obtained.

§ 8.2 Amounts that accrue to the Owner in accordance with the provisions of Section 8.1 shall be credited to the Owner as a deduction from the Cost of the Work.

ARTICLE 9 SUBCONTRACTS AND OTHER AGREEMENTS

§ 9.1 Those portions of the Work that the Construction Manager does not customarily perform with the Construction Manager's own personnel shall be performed under subcontracts or other appropriate agreements with the Construction Manager. The Owner may designate specific persons from whom, or entities from which, the Construction Manager shall obtain bids. The Construction Manager shall obtain bids from Subcontractors, and from suppliers of materials or equipment fabricated especially for the Work, who are qualified to perform that portion of the Work in accordance with the requirements of the Contract Documents. The Construction Manager shall deliver such bids to the Architect and Owner with an indication as to which bids the Construction Manager intends to accept. The Owner then has the right to review the Construction Manager's list of proposed subcontractors and suppliers in consultation with the Architect and, subject to Section 9.1.1, to object to any subcontractor or supplier. Any advice of the Architect, or approval or objection by the Owner, shall not relieve the Construction Manager of its responsibility to perform the Work in accordance with the Contract Documents. The Construction manager shall not be required to contract with anyone to whom the Construction Manager has reasonable objection.

§ 9.1.1 When a specific subcontractor or supplier (1) is recommended to the Owner by the Construction Manager; (2) is qualified to perform that portion of the Work; and (3) has submitted a bid that conforms to the requirements of the Contract Documents without reservations or exceptions, but the Owner requires that another bid be accepted, then the Construction Manager may require that a Change Order be issued to adjust the Guaranteed Maximum Price by the difference between the bid of the person or entity recommended to the Owner by the Construction Manager and the amount of the subcontract or other agreement actually signed with the person or entity designated by the Owner.

§ 9.2 Subcontracts or other agreements shall conform to the applicable payment provisions of this Agreement, and shall not be awarded on the basis of cost plus a fee without the Owner's prior written approval. If a subcontract is awarded on the basis of cost plus a fee, the Construction Manager shall provide in the subcontract for the Owner to receive the same audit rights with regard to the Subcontractor as the Owner receives with regard to the Construction Manager in Article 10.

ARTICLE 10 ACCOUNTING RECORDS

The Construction Manager shall keep full and detailed records and accounts related to the Cost of the Work, and exercise such controls, as may be necessary for proper financial management under this Contract and to substantiate all costs incurred. The accounting and control systems shall be satisfactory to the Owner. The Owner and the Owner's auditors shall, during regular business hours and upon reasonable notice, be afforded access to, and shall be permitted to audit and copy, the Construction Manager's records and accounts, including complete documentation supporting accounting entries, books, job cost reports, correspondence, instructions, drawings, receipts, subcontracts, Subcontractor's proposals, Subcontractor's invoices, purchase orders, vouchers, memoranda, and other data relating to this Contract. The Construction Manager shall preserve these records for a period of three years after final payment, or for such longer period as may be required by law.

ARTICLE 11 PAYMENTS FOR CONSTRUCTION PHASE SERVICES

§ 11.1 Progress Payments

§ 11.1.1 Based upon Applications for Payment submitted to the Architect by the Construction Manager, and Certificates for Payment issued by the Architect, the Owner shall make progress payments on account of the Contract Sum, to the Construction Manager, as provided below and elsewhere in the Contract Documents.

§ 11.1.2 The period covered by each Application for Payment shall be one calendar month ending on the last day of the month, or as follows:

N/A

§ 11.1.3 Provided that an Application for Payment is received by the Architect not later than the day of a month, the Owner shall make payment of the amount certified to the Construction Manager not later than the day of the month. If an Application for Payment is received by the Architect after the application date fixed above, payment of the amount certified shall be made by the Owner not later than ( ) days after the Architect receives the Application for Payment. *(Federal, state or local laws may require payment within a certain period of time.)*

§ 11.1.4 With each Application for Payment, the Construction Manager shall submit payrolls, petty cash accounts, receipted invoices or invoices with check vouchers attached, and any other evidence required by the Owner or Architect to demonstrate that payments already made by the Construction Manager on account of the Cost of the Work equal or exceed progress payments already received by the Construction Manager, plus payrolls for the period covered by the present Application for Payment, less that portion of the progress payments attributable to the Construction Manager's Fee.

§ 11.1.5 Each Application for Payment shall be based on the most recent schedule of values submitted by the Construction Manager in accordance with the Contract Documents. The schedule of values shall allocate the entire Guaranteed Maximum Price among: (1) the various portions of the Work; (2) any contingency for costs that are included in the Guaranteed Maximum Price but not otherwise allocated to another line item or included in a Change Order; and (3) the Construction Manager's Fee.

§ 11.1.5.1 The schedule of values shall be prepared in such form and supported by such data to substantiate its accuracy as the Architect may require. The schedule of values shall be used as a basis for reviewing the Construction Manager's Applications for Payment.

§ 11.1.5.2 The allocation of the Guaranteed Maximum Price under this Section 11.1.5 shall not constitute a separate guaranteed maximum price for the Cost of the Work of each individual line item in the schedule of values.

§ 11.1.5.3 When the Construction Manager allocates costs from a contingency to another line item in the schedule of values, the Construction Manager shall submit supporting documentation to the Architect.

§ 11.1.6 Applications for Payment shall show the percentage of completion of each portion of the Work as of the end of the period covered by the Application for Payment. The percentage of completion shall be the lesser of (1) the percentage of that portion of the Work which has actually been completed, or (2) the percentage obtained by dividing (a) the expense that has actually been incurred by the Construction Manager on account of that portion of the Work and for which the Construction Manager has made payment or intends to make payment prior to the next Application for Payment, by (b) the share of the Guaranteed Maximum Price allocated to that portion of the Work in the schedule of values.

§ 11.1.7 In accordance with AIA Document A201–2017 and subject to other provisions of the Contract Documents, the amount of each progress payment shall be computed as follows:

§ 11.1.7.1 The amount of each progress payment shall first include:

.1 That portion of the Guaranteed Maximum Price properly allocable to completed Work as determined by multiplying the percentage of completion of each portion of the Work by the share of the Guaranteed Maximum Price allocated to that portion of the Work in the most recent schedule of values;

.2 That portion of the Guaranteed Maximum Price properly allocable to materials and equipment delivered and suitably stored at the site for subsequent incorporation in the completed construction or, if approved in writing in advance by the Owner, suitably stored off the site at a location agreed upon in writing;

.3 That portion of Construction Change Directives that the Architect determines, in the Architect's professional judgment, to be reasonably justified; and

.4 The Construction Manager's Fee, computed upon the Cost of the Work described in the preceding Sections 11.1.7.1.1 and 11.1.7.1.2 at the rate stated in Section 6.1.2 or, if the Construction Manager's Fee is stated as a fixed sum in that Section, an amount that bears the same ratio to that fixed-sum fee as the Cost of the Work included in Sections 11.1.7.1.1 and 11.1.7.1.2 bears to a reasonable estimate of the probable Cost of the Work upon its completion.

§ 11.1.7.2 The amount of each progress payment shall then be reduced by:

.1 The aggregate of any amounts previously paid by the Owner;

.2 The amount, if any, for Work that remains uncorrected and for which the Architect has previously withheld a Certificate for Payment as provided in Article 9 of AIA Document A201–2017;

.3 Any amount for which the Construction Manager does not intend to pay a Subcontractor or material supplier, unless the Work has been performed by others the Construction Manager intends to pay;

.4 For Work performed or defects discovered since the last payment application, any amount for which the Architect may withhold payment, or nullify a Certificate of Payment in whole or in part, as provided in Article 9 of AIA Document A201–2017;

.5 The shortfall, if any, indicated by the Construction Manager in the documentation required by Section 11.1.4 to substantiate prior Applications for Payment, or resulting from errors subsequently discovered by the Owner's auditors in such documentation; and

.6 Retainage withheld pursuant to Section 11.1.8.

§ 11.1.8 Retainage

§ 11.1.8.1 For each progress payment made prior to Substantial Completion of the Work, the Owner may withhold the following amount, as retainage, from the payment otherwise due:
(Insert a percentage or amount to be withheld as retainage from each Application for Payment. The amount of retainage may be limited by governing law.)

5%

§ 11.1.8.1.1 The following items are not subject to retainage:
(Insert any items not subject to the withholding of retainage, such as general conditions, insurance, etc.)

Staff costs

§ 11.1.8.2 Reduction or limitation of retainage, if any, shall be as follows:
(If the retainage established in Section 11.1.8.1 is to be modified prior to Substantial Completion of the entire Work, insert provisions for such modification.)

N/A

§ 11.1.8.3 Except as set forth in this Section 11.1.8.3, upon Substantial Completion of the Work, the Construction Manager may submit an Application for Payment that includes the retainage withheld from prior Applications for Payment pursuant to this Section 11.1.8. The Application for Payment submitted at Substantial Completion shall not include retainage as follows:
(Insert any other conditions for release of retainage, such as upon completion of the Owner's audit and reconciliation, upon Substantial Completion.)

N/A

§ 11.1.9 If final completion of the Work is materially delayed through no fault of the Construction Manager, the Owner shall pay the Construction Manager any additional amounts in accordance with Article 9 of AIA Document A201–2017.

§ 11.1.10 Except with the Owner's prior written approval, the Construction Manager shall not make advance payments to suppliers for materials or equipment which have not been delivered and suitably stored at the site.

§ 11.1.11 The Owner and the Construction Manager shall agree upon a mutually acceptable procedure for review and approval of payments to Subcontractors, and the percentage of retainage held on Subcontracts, and the Construction Manager shall execute subcontracts in accordance with those agreements.

§ 11.1.12 In taking action on the Construction Manager's Applications for Payment the Architect shall be entitled to rely on the accuracy and completeness of the information furnished by the Construction Manager, and such action shall not be deemed to be a representation that (1) the Architect has made a detailed examination, audit, or arithmetic verification, of the documentation submitted in accordance with Section 11.1.4 or other supporting data; (2) that the Architect has made exhaustive or continuous on-site inspections; or (3) that the Architect has made examinations to ascertain how or for what purposes the Construction Manager has used amounts previously paid on account of the Contract. Such examinations,

audits, and verifications, if required by the Owner, will be performed by the Owner's auditors acting in the sole interest of the Owner.

§ 11.2 Final Payment

§ 11.2.1 Final payment, constituting the entire unpaid balance of the Contract Sum, shall be made by the Owner to the Construction Manager when

.1 the Construction Manager has fully performed the Contract, except for the Construction Manager's responsibility to correct Work as provided in Article 12 of AIA Document A201–2017, and to satisfy other requirements, if any, which extend beyond final payment;

.2 the Construction Manager has submitted a final accounting for the Cost of the Work and a final Application for Payment; and

.3 a final Certificate for Payment has been issued by the Architect in accordance with Section 11.2.2.2.

§ 11.2.2 Within 30 days of the Owner's receipt of the Construction Manager's final accounting for the Cost of the Work, the Owner shall conduct an audit of the Cost of the Work or notify the Architect that it will not conduct an audit.

§ 11.2.2.1 If the Owner conducts an audit of the Cost of the Work, the Owner shall, within 10 days after completion of the audit, submit a written report based upon the auditors' findings to the Architect.

§ 11.2.2.2 Within seven days after receipt of the written report described in Section 11.2.2.1, or receipt of notice that the Owner will not conduct an audit, and provided that the other conditions of Section 11.2.1 have been met, the Architect will either issue to the Owner a final Certificate for Payment with a copy to the Construction Manager, or notify the Construction Manager and Owner in writing of the Architect's reasons for withholding a certificate as provided in Article 9 of AIA Document A201–2017. The time periods stated in this Section 11.2.2 supersede those stated in Article 9 of AIA Document A201–2017. The Architect is not responsible for verifying the accuracy of the Construction Manager's final accounting.

§ 11.2.2.3 If the Owner's auditors' report concludes that the Cost of the Work, as substantiated by the Construction Manager's final accounting, is less than claimed by the Construction Manager, the Construction Manager shall be entitled to request mediation of the disputed amount without seeking an initial decision pursuant to Article 15 of AIA Document A201–2017. A request for mediation shall be made by the Construction Manager within 30 days after the Construction Manager's receipt of a copy of the Architect's final Certificate for Payment. Failure to request mediation within this 30-day period shall result in the substantiated amount reported by the Owner's auditors becoming binding on the Construction Manager. Pending a final resolution of the disputed amount, the Owner shall pay the Construction Manager the amount certified in the Architect's final Certificate for Payment.

§ 11.2.3 The Owner's final payment to the Construction Manager shall be made no later than 30 days after the issuance of the Architect's final Certificate for Payment, or as follows:

N/A

§ 11.2.4 If, subsequent to final payment, and at the Owner's request, the Construction Manager incurs costs, described in Sections 7.1 through 7.7, and not excluded by Section 7.9, to correct defective or nonconforming Work, the Owner shall reimburse the Construction Manager for such costs, and the Construction Manager's Fee applicable thereto, on the same basis as if such costs had been incurred prior to final payment, but not in excess of the Guaranteed Maximum Price. If adjustments to the Contract Sum are provided for in Section 6.1.7, the amount of those adjustments shall be recalculated, taking into account any reimbursements made pursuant to this Section 11.2.4 in determining the net amount to be paid by the Owner to the Construction Manager.

§ 11.3 Interest

Payments due and unpaid under the Contract shall bear interest from the date payment is due at the rate stated below, or in the absence thereof, at the legal rate prevailing from time to time at the place where the Project is located.
(Insert rate of interest agreed upon, if any.)

N/A %

ARTICLE 12 DISPUTE RESOLUTION

§ 12.1 Initial Decision Maker

§ 12.1.1 Any Claim between the Owner and Construction Manager shall be resolved in accordance with the provisions set forth in this Article 12 and Article 15 of A201–2017. However, for Claims arising from or relating to the Construction Manager's Preconstruction Phase services, no decision by the Initial Decision Maker shall be required as a condition precedent to mediation or binding dispute resolution, and Section 12.1.2 of this Agreement shall not apply.

§ 12.1.2 The Architect will serve as the Initial Decision Maker pursuant to Article 15 of AIA Document A201–2017 for Claims arising from or relating to the Construction Manager's Construction Phase services, unless the parties appoint below another individual, not a party to the Agreement, to serve as the Initial Decision Maker.
(If the parties mutually agree, insert the name, address and other contact information of the Initial Decision Maker, if other than the Architect.)

N/A

§ 12.2 Binding Dispute Resolution

For any Claim subject to, but not resolved by mediation pursuant to Article 15 of AIA Document A201–2017, the method of binding dispute resolution shall be as follows:
(Check the appropriate box.)

[X] Arbitration pursuant to Article 15 of AIA Document A201–2017

[ ] Litigation in a court of competent jurisdiction

[ ] Other: *(Specify)*

If the Owner and Construction Manager do not select a method of binding dispute resolution, or do not subsequently agree in writing to a binding dispute resolution method other than litigation, Claims will be resolved by litigation in a court of competent jurisdiction.

ARTICLE 13 TERMINATION OR SUSPENSION

§ 13.1 Termination Prior to Execution of the Guaranteed Maximum Price Amendment

§ 13.1.1 If the Owner and the Construction Manager do not reach an agreement on the Guaranteed Maximum Price, the Owner may terminate this Agreement upon not less than seven days' written notice to the Construction Manager, and the Construction Manager may terminate this Agreement, upon not less than seven days' written notice to the Owner.

§ 13.1.2 In the event of termination of this Agreement pursuant to Section 13.1.1, the Construction Manager shall be compensated for Preconstruction Phase services and Work performed prior to receipt of a notice of termination, in accordance with the terms of this Agreement. In no event shall the Construction Manager's compensation under this Section exceed the compensation set forth in Section 5.1.

§ 13.1.3 Prior to the execution of the Guaranteed Maximum Price Amendment, the Owner may terminate this Agreement upon not less than seven days' written notice to the Construction Manager for the Owner's convenience and without cause, and the Construction Manager may terminate this Agreement, upon not less than seven days' written notice to the Owner, for the reasons set forth in Article 14 of A201–2017.

§ 13.1.4 In the event of termination of this Agreement pursuant to Section 13.1.3, the Construction Manager shall be equitably compensated for Preconstruction Phase services and Work performed prior to receipt of a notice of termination. In no event shall the Construction Manager's compensation under this Section exceed the compensation set forth in Section 5.1.

§ 13.1.5 If the Owner terminates the Contract pursuant to Section 13.1.3 after the commencement of the Construction Phase but prior to the execution of the Guaranteed Maximum Price Amendment, the Owner shall pay to the Construction Manager an amount calculated as follows, which amount shall be in addition to any compensation paid to the Construction Manager under Section 13.1.4:

.1 Take the Cost of the Work incurred by the Construction Manager to the date of termination;

.2 Add the Construction Manager's Fee computed upon the Cost of the Work to the date of termination at the rate stated in Section 6.1 or, if the Construction Manager's Fee is stated as a fixed sum in that Section, an amount that bears the same ratio to that fixed-sum Fee as the Cost of the Work at the time of termination bears to a reasonable estimate of the probable Cost of the Work upon its completion; and

.3 Subtract the aggregate of previous payments made by the Owner for Construction Phase services.

§ 13.1.6 The Owner shall also pay the Construction Manager fair compensation, either by purchase or rental at the election of the Owner, for any equipment owned by the Construction Manager that the Owner elects to retain and that is not otherwise included in the Cost of the Work under Section 13.1.5.1. To the extent that the Owner elects to take legal assignment of subcontracts and purchase orders (including rental agreements), the Construction Manager shall, as a condition of receiving the payments referred to in this Article 13, execute and deliver all such papers and take all such steps, including the legal assignment of such subcontracts and other contractual rights of the Construction Manager, as the Owner may require for the purpose of fully vesting in the Owner the rights and benefits of the Construction Manager under such subcontracts or purchase orders. All Subcontracts, purchase orders and rental agreements entered into by the Construction Manager will contain provisions allowing for assignment to the Owner as described above.

§ 13.1.6.1 If the Owner accepts assignment of subcontracts, purchase orders or rental agreements as described above, the Owner will reimburse or indemnify the Construction Manager for all costs arising under the subcontract, purchase order or rental agreement, if those costs would have been reimbursable as Cost of the Work if the contract had not been terminated. If the Owner chooses not to accept assignment of any subcontract, purchase order or rental agreement that would have constituted a Cost of the Work had this agreement not been terminated, the Construction Manager will terminate the subcontract, purchase order or rental agreement and the Owner will pay the Construction Manager the costs necessarily incurred by the Construction Manager because of such termination.

§ 13.2 Termination or Suspension Following Execution of the Guaranteed Maximum Price Amendment

§ 13.2.1 Termination

The Contract may be terminated by the Owner or the Construction Manager as provided in Article 14 of AIA Document A201–2017.

§ 13.2.2 Termination by the Owner for Cause

§ 13.2.2.1 If the Owner terminates the Contract for cause as provided in Article 14 of AIA Document A201–2017, the amount, if any, to be paid to the Construction Manager under Article 14 of AIA Document A201–2017 shall not cause the Guaranteed Maximum Price to be exceeded, nor shall it exceed an amount calculated as follows:

.1 Take the Cost of the Work incurred by the Construction Manager to the date of termination;

.2 Add the Construction Manager's Fee, computed upon the Cost of the Work to the date of termination at the rate stated in Section 6.1 or, if the Construction Manager' Fee is stated as a fixed sum in that Section, an amount that bears the same ratio to that fixed-sum Fee as the Cost of the Work at the time of termination bears to a reasonable estimate of the probable Cost of the Work upon its completion;

.3 Subtract the aggregate of previous payments made by the Owner; and

.4 Subtract the costs and damages incurred, or to be incurred, by the Owner under Article 14 of AIA Document A201–2017.

§ 13.2.2.2 The Owner shall also pay the Construction Manager fair compensation, either by purchase or rental at the election of the Owner, for any equipment owned by the Construction Manager that the Owner elects to retain and that is not otherwise included in the Cost of the Work under Section 13.2.2.1.1. To the extent that the Owner elects to take legal assignment of subcontracts and purchase orders (including rental agreements), the Construction Manager shall, as a condition of receiving the payments referred to in this Article 13, execute and deliver all such papers and take all such steps, including the legal assignment of such subcontracts and other contractual rights of the Construction Manager, as the Owner may require for the purpose of fully vesting in the Owner the rights and benefits of the Construction Manager under such subcontracts or purchase orders.

§ 13.2.3 Termination by the Owner for Convenience

If the Owner terminates the Contract for convenience in accordance with Article 14 of AIA Document A201–2017, then the Owner shall pay the Construction Manager a termination fee as follows:
(Insert the amount of or method for determining the fee, if any, payable to the Construction Manager following a termination for the Owner's convenience.)

N/A

§ 13.3 Suspension
The Work may be suspended by the Owner as provided in Article 14 of AIA Document A201–2017; in such case, the Guaranteed Maximum Price and Contract Time shall be increased as provided in Article 14 of AIA Document A201–2017, except that the term "profit" shall be understood to mean the Construction Manager's Fee as described in Sections 6.1 and 6.3.5 of this Agreement.

ARTICLE 14 MISCELLANEOUS PROVISIONS
§ 14.1 Terms in this Agreement shall have the same meaning as those in A201–2017. Where reference is made in this Agreement to a provision of AIA Document A201–2017 or another Contract Document, the reference refers to that provision as amended or supplemented by other provisions of the Contract Documents.

§ 14.2 Successors and Assigns
§ 14.2.1 The Owner and Construction Manager, respectively, bind themselves, their partners, successors, assigns and legal representatives to covenants, agreements, and obligations contained in the Contract Documents. Except as provided in Section 14.2.2 of this Agreement, and in Section 13.2.2 of A201–2017, neither party to the Contract shall assign the Contract as a whole without written consent of the other. If either party attempts to make an assignment without such consent, that party shall nevertheless remain legally responsible for all obligations under the Contract.

§ 14.2.2 The Owner may, without consent of the Construction Manager, assign the Contract to a lender providing construction financing for the Project, if the lender assumes the Owner's rights and obligations under the Contract Documents. The Construction Manager shall execute all consents reasonably required to facilitate the assignment.

§ 14.3 Insurance and Bonds
§ 14.3.1 Preconstruction Phase
The Construction Manager shall maintain the following insurance for the duration of the Preconstruction Services performed under this Agreement. If any of the requirements set forth below exceed the types and limits the Construction Manager normally maintains, the Owner shall reimburse the Construction Manager for any additional cost.

§ 14.3.1.1 Commercial General Liability with policy limits of not less than ($) for each occurrence and ($) in the aggregate for bodily injury and property damage.
See attached Certificate of Insurance, Exhibit D

§ 14.3.1.2 Automobile Liability covering vehicles owned, and non-owned vehicles used, by the Construction Manager with policy limits of not less than ($) per accident for bodily injury, death of any person, and property damage arising out of the ownership, maintenance and use of those motor vehicles, along with any other statutorily required automobile coverage.
See attached Certificate of Insurance, Exhibit D

§ 14.3.1.3 The Construction Manager may achieve the required limits and coverage for Commercial General Liability and Automobile Liability through a combination of primary and excess or umbrella liability insurance, provided that such primary and excess or umbrella liability insurance policies result in the same or greater coverage as the coverages required under Sections 14.3.1.1 and 14.3.1.2, and in no event shall any excess or umbrella liability insurance provide narrower coverage than the primary policy. The excess policy shall not require the exhaustion of the underlying limits only through the actual payment by the underlying insurers.

§ 14.3.1.4 Workers' Compensation at statutory limits and Employers Liability with policy limits not less than one million dollars ($ 1,000,000.00) each accident, one million dollars ($ 1,000,000.00) each employee, and five million dollars ($ 5,000,000.00) policy limit.

§ 14.3.1.5 Professional Liability covering negligent acts, errors and omissions in the performance of professional services, with policy limits of not less than ($) per claim and ($) in the aggregate.
See attached Certificate of Insurance, Exhibit D

§ 14.3.1.6 Other Insurance
(List below any other insurance coverage to be provided by the Construction Manager and any applicable limits.)

Coverage	Limits
N/A	N/A

§ 14.3.1.7 Additional Insured Obligations. To the fullest extent permitted by law, the Construction Manager shall cause the primary and excess or umbrella polices for Commercial General Liability and Automobile Liability to include the Owner as an additional insured for claims caused in whole or in part by the Construction Manager's negligent acts or omissions. The additional insured coverage shall be primary and non-contributory to any of the Owner's insurance policies and shall apply to both ongoing and completed operations.

§ 14.3.1.8 The Construction Manager shall provide certificates of insurance to the Owner that evidence compliance with the requirements in this Section 14.3.1.

§ 14.3.2 Construction Phase
After execution of the Guaranteed Maximum Price Amendment, the Owner and the Construction Manager shall purchase and maintain insurance as set forth in AIA Document A133™–2019, Standard Form of Agreement Between Owner and Construction Manager as Constructor where the basis of payment is the Cost of the Work Plus a Fee with a Guaranteed Maximum Price, Exhibit B, Insurance and Bonds, and elsewhere in the Contract Documents.

§ 14.3.2.1 The Construction Manager shall provide bonds as set forth in AIA Document A133™–2019 Exhibit B, and elsewhere in the Contract Documents.

§ 14.4 Notice in electronic format, pursuant to Article 1 of AIA Document A201–2017, may be given in accordance with AIA Document E203™–2013, Building Information Modeling and Digital Data Exhibit, if completed, or as otherwise set forth below:
(If other than in accordance with AIA Document E203–2013, insert requirements for delivering notice in electronic format such as name, title, and email address of the recipient and whether and how the system will be required to generate a read receipt for the transmission.)

N/A

§ 14.5 Other provisions:

N/A

ARTICLE 15 SCOPE OF THE AGREEMENT
§ 15.1 This Agreement represents the entire and integrated agreement between the Owner and the Construction Manager and supersedes all prior negotiations, representations or agreements, either written or oral. This Agreement may be amended only by written instrument signed by both Owner and Construction Manager.

§ 15.2 The following documents comprise the Agreement:

.1 AIA Document A133™–2019, Standard Form of Agreement Between Owner and Construction Manager as Constructor where the basis of payment is the Cost of the Work Plus a Fee with a Guaranteed Maximum Price

.2 AIA Document A133™-2019, Exhibit A, Guaranteed Maximum Price Amendment, if executed

.3 AIA Document A133™–2019, Exhibit B, Insurance and Bonds

.4 AIA Document A201™–2017, General Conditions of the Contract for Construction

.5 AIA Document E203™–2013, Building Information Modeling and Digital Data Exhibit, dated as indicated below:
(Insert the date of the E203-2013 incorporated into this Agreement.)

.6 Other Exhibits:
(Check all boxes that apply.)

[ ] AIA Document E234™–2019, Sustainable Projects Exhibit, Construction Manager as Constructor Edition, dated as indicated below:
(Insert the date of the E234-2019 incorporated into this Agreement.)

[ ] Supplementary and other Conditions of the Contract:

Document	Title	Date	Pages

.7 Other documents, if any, listed below:
(List here any additional documents that are intended to form part of the Contract Documents. AIA Document A201–2017 provides that the advertisement or invitation to bid, Instructions to Bidders, sample forms, the Construction Manager's bid or proposal, portions of Addenda relating to bidding or proposal requirements, and other information furnished by the Owner in anticipation of receiving bids or proposals, are not part of the Contract Documents unless enumerated in this Agreement. Any such documents should be listed here only if intended to be part of the Contract Documents.)

This Agreement is entered into as of the day and year first written above.

OWNER *(Signature)*

(Printed name and title)

CONSTRUCTION MANAGER *(Signature)*

Gregory M Raucci President
(Printed name and title)

Certification of Document's Authenticity

AIA® Document D401™ – 2003

I, Gregory M. Raucci, hereby certify, to the best of my knowledge, information and belief, that I created the attached final document simultaneously with its associated Additions and Deletions Report and this certification at 09:58:38 ET on 04/14/2023 under Order No. 2114339036 from AIA Contract Documents software and that in preparing the attached final document I made no changes to the original text of AIA® Document A133™ – 2019, Standard Form of Agreement Between Owner and Construction Manager as Constructor where the basis of payment is the Cost of the Work Plus a Fee with a Guaranteed Maximum Price, other than those additions and deletions shown in the associated Additions and Deletions Report.

(Signed)

President

(Title)

4/14/23

(Dated)

AIA® Document B133® – 2019

Standard Form of Agreement Between Owner and Architect, Construction Manager as Constructor Edition

AGREEMENT made as of the Twenty-seventh day of October in the year Two Thousand Twenty-two
(In words, indicate day, month and year.)

BETWEEN the Architect's client identified as the Owner:
(Name, legal status, address, and other information)

Town of Fairfield
725 Old Post Road
Fairfield CT 06045

and the Architect:
(Name, legal status, address, and other information)

Joseph T. Sepot, Architects, Professional Corporation
225 Montowese Street
Branford, CT 06405
Telephone Number: 203 483-5229

for the following Project:
(Name, location, and detailed description)

Alterations to Penfield Pavilion
323 Fairfield Beach Road
Fairfield CT 06824

The Construction Manager (if known):
(Name, legal status, address, and other information)

Greg Raucci Sr Bismark Construction
100 Bridgeport Ave
Milford CT 06460

The Owner and Architect agree as follows.

ADDITIONS AND DELETIONS:
The author of this document has added information needed for its completion. The author may also have revised the text of the original AIA standard form. An *Additions and Deletions Report* that notes added information as well as revisions to the standard form text is available from the author and should be reviewed. A vertical line in the left margin of this document indicates where the author has added necessary information and where the author has added to or deleted from the original AIA text.

This document has important legal consequences. Consultation with an attorney is encouraged with respect to its completion or modification.

This document is intended to be used in conjunction with AIA Documents A201–2017™, General Conditions of the Contract for Construction; A133–2019™ Standard Form of Agreement Between Owner and Construction Manager as Constructor where the basis of payment is the Cost of the Work Plus a Fee with a Guaranteed Maximum Price; and A134–2019™ Standard Form of Agreement Between Owner and Construction Manager as Constructor where the basis of payment is the Cost of the Work Plus a Fee without a Guaranteed Maximum Price. AIA Document A201™–2017 is adopted in this document by reference. Do not use with other general conditions unless this document is modified.

TABLE OF ARTICLES

ARTICLE 1 INITIAL INFORMATION

§ 1.1 This Agreement is based on the Initial Information set forth in this Section 1.1.
(For each item in this section, insert the information or a statement such as "not applicable" or "unknown at time of execution.")

§ 1.1.1 The Owner's program for the Project:
(Insert the Owner's program, identify documentation that establishes the Owner's program, or state the manner in which the program will be developed.)

1. Below-floor renovation to bring the structure into compliance with FEMA and DEEP
2. Replace existing outdoor decking, stairs, and ramping
3. Alternate #1
Provide survey
4. Alternate #2
-Misc. interior Renovation of the Main Building including:
-Convert the existing Office 117 into a Bridal Room
-Enlarge warming kitchen into the adjacent storage room
-Replace the existing wainscot in the Gathering Room
-Explore non-structural options for better utilization of Corridor 116 near the toilet rooms
-New painting scheduled of rooms being renovated
-Replace existing exterior lighting mounted on the building
5. Alternate #3
- As Built Drawings

§ 1.1.2 The Project's physical characteristics:

(Identify or describe pertinent information about the Project's physical characteristics, such as size; location; dimensions; geotechnical reports; site boundaries; topographic surveys; traffic and utility studies; availability of public and private utilities and services; legal description of the site, etc.)

§ 1.1.3 The Owner's budget for the Cost of the Work, as defined in Section 6.1:
(Provide total and, if known, a line item breakdown.)

§ 1.1.4 The Owner's anticipated design and construction milestone dates:

.1 Design phase milestone dates, if any:

DD Design Development to CD Plans - June 29,2023

.2 Construction commencement date:

September 5, 2023

.3 Substantial Completion date or dates:

June 14, 2024

.4 Other milestone dates:

§ 1.1.5 The Owner intends to retain a Construction Manager pursuant to the following agreement:
(Indicate agreement type.)

[X] AIA Document A133–2019, Standard Form of Agreement Between Owner and Construction Manager as Constructor where the basis of payment is the Cost of the Work Plus a Fee with a Guaranteed Maximum Price.

[ ] AIA Document A134–2019, Standard Form of Agreement Between Owner and Construction Manager as Constructor where the basis of payment is the Cost of the Work Plus a Fee without a Guaranteed Maximum Price.

§ 1.1.6 The Owner's requirements for accelerated or fast-track design and construction, or phased construction are set forth below:
(List number and type of bid/procurement packages.)

DD Design Development to CD Plans - June 29,2023

§ 1.1.7 The Owner's anticipated Sustainable Objective for the Project:
(Identify and describe the Owner's Sustainable Objective for the Project, if any.)

NA

§ 1.1.7.1 If the Owner identifies a Sustainable Objective, the Owner and Architect shall complete and incorporate AIA Document E234™–2019, Sustainable Projects Exhibit, Construction Manager as Constructor Edition, into this Agreement to define the terms, conditions and services related to the Owner's Sustainable Objective. If E234-2019 is incorporated into this Agreement, the Owner and Architect shall incorporate the completed E234–2019 into the agreements with the consultants and contractors performing services or Work in any way associated with the Sustainable Objective.

§ 1.1.8 The Owner identifies the following representative in accordance with Section 5.4:
(List name, address, and other contact information.)

Elias Ghazal
Project Manager – Construction
Town of Fairfield

§ 1.1.9 The persons or entities, in addition to the Owner's representative, who are required to review the Architect's submittals to the Owner are as follows:
(List name, address, and other contact information.)

NA

§ 1.1.10 The Owner shall retain the following consultants and contractors:
(List name, legal status, address, and other contact information.)

.1 Construction Manager:
(The Construction Manager is identified on the cover page. If a Construction Manager has not been retained as of the date of this Agreement, state the anticipated date of retention. If the Architect is to assist the Owner in selecting the Construction Manager, complete Section 4.1.1.1)

.2 Land Surveyor:

NA by Architect

.3 Geotechnical Engineer:

NA by Architect

.4 Civil Engineer:

NA by Architect

.5 Other consultants and contractors:
(List any other consultants and contractors retained by the Owner.)

§ 1.1.11 The Architect identifies the following representative in accordance with Section 2.4:

(List name, address, and other contact information.)

Joe Sepot, Joseph Sepot Architects
225 Montowese St
Branford CT 06405
203 483-5229

§ 1.1.12 The Architect shall retain the consultants identified in Sections 1.1.12.1 and 1.1.12.2:
(List name, legal status, address, and other contact information.)

§ 1.1.12.1 Consultants retained under Basic Services:

.1 Structural Engineer:

Paul Sheenan MHA, Inc
151 Meadow Street
Branford, CT 06405

.2 Mechanical Engineer:

Frank Centore Centek Engineers
63-2 North Branford Road
Branford CT 06405

.3 Electrical Engineer:

Frank Centore Centek Engineers

63-2 North Branford Road

Branford CT 06405

§ 1.1.12.2 Consultants retained under Supplemental Services:

Geotechnical & Civil Engineer:
Clay Patterson, Langan
Long Wharf Maritime Center
555 Long Wharf Drive
New Haven, CT 06511

§ 1.1.13 Other Initial Information on which the Agreement is based:

NA

§ 1.2 The Owner and Architect may rely on the Initial Information. Both parties, however, recognize that the Initial Information may materially change and, in that event, the Owner and the Architect shall appropriately adjust the Architect's services, schedule for the Architect's services, and the Architect's compensation. The Owner shall adjust

the Owner's budget for the Cost of the Work and the Owner's anticipated design and construction milestones, as necessary, to accommodate material changes in the Initial Information.

§ 1.3 The parties shall agree upon protocols governing the transmission and use of Instruments of Service or any other information or documentation in digital form. The parties will use AIA Document E203™–2013, Building Information Modeling and Digital Data Exhibit, to establish the protocols for the development, use, transmission, and exchange of digital data.

§ 1.3.1 Any use of, or reliance on, all or a portion of a building information model without agreement to protocols governing the use of, and reliance on, the information contained in the model and without having those protocols set forth in AIA Document E203™–2013, Building Information Modeling and Digital Data Exhibit, and the requisite AIA Document G202™–2013, Project Building Information Modeling Protocol Form, shall be at the using or relying party's sole risk and without liability to the other party and its contractors or consultants, the authors of, or contributors to, the building information model, and each of their agents and employees.

ARTICLE 2 ARCHITECT'S RESPONSIBILITIES

§ 2.1 The Architect shall provide professional services as set forth in this Agreement. The Architect represents that it is properly licensed in the jurisdiction where the Project is located to provide the services required by this Agreement, or shall cause such services to be performed by appropriately licensed design professionals.

§ 2.2 The Architect shall perform its services consistent with the professional skill and care ordinarily provided by architects practicing in the same or similar locality under the same or similar circumstances. The Architect shall perform its services as expeditiously as is consistent with such professional skill and care and the orderly progress of the Project.

§ 2.3 The Architect shall provide its services in conjunction with the services of a Construction Manager as described in the agreement identified in Section 1.1.5. The Architect shall not be responsible for actions taken by the Construction Manager.

§ 2.4 The Architect shall identify a representative authorized to act on behalf of the Architect with respect to the Project.

§ 2.5 Except with the Owner's knowledge and consent, the Architect shall not engage in any activity, or accept any employment, interest or contribution that would reasonably appear to compromise the Architect's professional judgment with respect to this Project.

§ 2.6 Insurance. The Architect shall maintain the following insurance until termination of this Agreement. If any of the requirements set forth below are in addition to the types and limits the Architect normally maintains, the Owner shall pay the Architect as set forth in Section 11.9.

§ 2.6.1 Commercial General Liability with policy limits of not less than one million ($ 1,000,000) for each occurrence and two million ($ 2,000,000) in the aggregate for bodily injury and property damage.

§ 2.6.2 Automobile Liability covering vehicles owned, and non-owned vehicles used, by the Architect with policy limits of not less than one million ($ 1,000,000) per accident for bodily injury, death of any person, and property damage arising out of the ownership, maintenance and use of those motor vehicles, along with any other statutorily required automobile coverage.

§ 2.6.3 The Architect may achieve the required limits and coverage for Commercial General Liability and Automobile Liability through a combination of primary and excess or umbrella liability insurance, provided such primary and excess or umbrella liability insurance policies result in the same or greater coverage as the coverages required under Sections 2.6.1 and 2.6.2, and in no event shall any excess or umbrella liability insurance provide narrower coverage than the primary policy. The excess policy shall not require the exhaustion of the underlying limits only through the actual payment by the underlying insurers.

§ 2.6.4 Workers' Compensation at statutory limits.

§ 2.6.5 Employers' Liability with policy limits not less than two million ($ 2,000,000) each accident, one million ($ 1,000,000) each employee, and one million ($ 1,000,000) policy limit.

§ 2.6.6 Professional Liability covering negligent acts, errors and omissions in the performance of professional services, with policy limits of not less than two million ($ 2,000,000) per claim and two million ($ 2,000,000) in the aggregate.

§ 2.6.7 Additional Insured Obligations. To the fullest extent permitted by law, the Architect shall cause the primary and excess or umbrella polices for Commercial General Liability and Automobile Liability to include the Owner as an additional insured for claims caused in whole or in part by the Architect's negligent acts or omissions. The additional insured coverage shall be primary and non-contributory to any of the Owner's insurance policies and shall apply to both ongoing and completed operations.

§ 2.6.8 The Architect shall provide certificates of insurance to the Owner that evidence compliance with the requirements in this Section 2.6.

ARTICLE 3 SCOPE OF ARCHITECT'S BASIC SERVICES

§ 3.1 The Architect's Basic Services consist of those described in this Article 3 and include usual and customary structural, mechanical, and electrical engineering services. Services not set forth in this Article 3 are Supplemental or Additional Services.

§ 3.1.1 The Architect shall manage the Architect's services, research applicable design criteria, attend Project meetings, communicate with members of the Project team, and report progress to the Owner.

§ 3.1.2 The Architect shall coordinate its services with those services provided by the Owner, the Construction Manager, and the Owner's consultants. The Architect shall be entitled to rely on, and shall not be responsible for, the accuracy, completeness, and timeliness of, services and information furnished by the Owner, the Construction Manager, and the Owner's consultants. The Architect shall provide prompt written notice to the Owner if the Architect becomes aware of any error, omission, or inconsistency in such services or information.

§ 3.1.3 As soon as practicable after the date of this Agreement, the Architect shall submit, for the Construction Manager's review and the Owner's approval, a schedule for the performance of the Architect's services. The schedule shall include design phase milestone dates, as well as the anticipated dates for the commencement of construction and for Substantial Completion of the Work as set forth in the Initial Information. The schedule shall include allowances for periods of time required for the Owner's review, for the Construction Manager's review, for the performance of the Construction Manager's Preconstruction Phase services, for the performance of the Owner's consultants, and for approval of submissions by authorities having jurisdiction over the Project. Once approved by the Owner, time limits established by the schedule shall not, except for reasonable cause, be exceeded by the Architect or Owner. With the Owner's approval, the Architect shall adjust the schedule, if necessary, as the Project proceeds until the commencement of construction.

§ 3.1.4 The Architect shall submit information to the Construction Manager and participate in developing and revising the Project schedule as it relates to the Architect's services. The Architect shall review and approve, or take other appropriate action upon, the portion of the Project schedule relating to the performance of the Architect's services.

§ 3.1.5 The Architect shall not be responsible for an Owner's directive or substitution, or for the Owner's acceptance of non-conforming work, made or given without the Architect's written approval.

§ 3.1.6 The Architect shall, in coordination with the Construction Manager, contact governmental authorities required to approve the Construction Documents and entities providing utility services to the Project. The Architect shall respond to applicable design requirements imposed by those authorities and entities.

§ 3.1.7 The Architect shall assist the Owner and Construction Manager in connection with the Owner's responsibility for filing documents required for the approval of governmental authorities having jurisdiction over the Project.

§ 3.1.8 Prior to the Owner's acceptance of the Construction Manager's Guaranteed Maximum Price proposal, or the Owner's approval of the Construction Manager's Control Estimate, as applicable, the Architect shall consider the Construction Manager's requests for substitutions and, upon written request of the Construction Manager, provide clarification or interpretations pertaining to the Drawings, Specifications, and other documents submitted by the Architect. The Architect and Construction Manager shall include the Owner in communications related to substitution requests, clarifications, and interpretations.

§ 3.2 Review of the Construction Manager's Guaranteed Maximum Price Proposal or Control Estimate

§ 3.2.1 At a time to be mutually agreed upon by the Owner and the Construction Manager, the Construction Manager shall prepare, for review by the Owner and Architect, and for the Owner's acceptance or approval, a Guaranteed Maximum Price proposal or Control Estimate. The Architect shall assist the Owner in reviewing the Construction Manager's proposal or estimate. The Architect's review is not for the purpose of discovering errors, omissions, or inconsistencies; for the assumption of any responsibility for the Construction Manager's proposed means, methods, sequences, techniques, or procedures; or for the verification of any estimates of cost or estimated cost proposals. In the event that the Architect discovers any inconsistencies or inaccuracies in the information presented, the Architect shall promptly notify the Owner and Construction Manager.

§ 3.2.2 Upon authorization by the Owner, and subject to Section 4.2.1.14, the Architect shall update the Drawings, Specifications, and other documents to incorporate the agreed upon assumptions and clarifications contained in the Guaranteed Maximum Price Amendment or Control Estimate.

§ 3.3 Schematic Design Phase Services

§ 3.3.1 The Architect shall review the program, and other information furnished by the Owner and Construction Manager, and shall review laws, codes, and regulations applicable to the Architect's services.

§ 3.3.2 The Architect shall prepare a preliminary evaluation of the Owner's program, schedule, budget for the Cost of the Work, Project site, and other Initial Information, each in terms of the other, to ascertain the requirements of the Project. The Architect shall notify the Owner of (1) any inconsistencies discovered in the information, and (2) other information or consulting services that may be reasonably needed for the Project.

§ 3.3.3 The Architect shall present its preliminary evaluation to the Owner and Construction Manager and shall discuss with the Owner and Construction Manager alternative approaches to design and construction of the Project. The Architect shall reach an understanding with the Owner regarding the requirements of the Project.

§ 3.3.4 Based on the Project requirements agreed upon with the Owner, the Architect shall prepare and present, to the Owner and Construction Manager, for the Owner's approval, a preliminary design illustrating the scale and relationship of the Project components.

§ 3.3.5 Based on the Owner's approval of the preliminary design, the Architect shall prepare Schematic Design Documents for Construction Manager's review and the Owner's approval. The Schematic Design Documents shall consist of drawings and other documents including a site plan, if appropriate, and preliminary building plans, sections and elevations; and may include some combination of study models, perspective sketches, or digital representations. Preliminary selections of major building systems and construction materials shall be noted on the drawings or described in writing.

§ 3.3.5.1 The Architect shall consider sustainable design alternatives, such as material choices and building orientation, together with other considerations based on program and aesthetics, in developing a design that is consistent with the Owner's program, schedule and budget for the Cost of the Work. The Owner may obtain more advanced sustainable design services as a Supplemental Service under Section 4.1.

§ 3.3.5.2 The Architect shall consider with the Owner and the Construction Manager the value of alternative materials, building systems and equipment, together with other considerations based on program and aesthetics, in developing a design for the Project that is consistent with the Owner's program, schedule, and budget for the Cost of the Work.

§ 3.3.6 The Architect shall submit the Schematic Design Documents to the Owner and the Construction Manager. The Architect shall meet with the Construction Manager to review the Schematic Design Documents.

§ 3.3.7 Upon receipt of the Construction Manager's review comments and cost estimate at the conclusion of the Schematic Design Phase, the Architect shall take action as required under Section 6.4, and request the Owner's approval of the Schematic Design Documents. If revisions to the Schematic Design Documents are required to comply with the Owner's budget for the Cost of the Work at the conclusion of the Schematic Design Phase, the Architect shall incorporate the required revisions in the Design Development Phase.

§ 3.3.8 In the further development of the Drawings and Specifications during this and subsequent phases of design, the Architect shall be entitled to rely on the accuracy of the estimates of the Cost of the Work, which are to be provided by the Construction Manager under the Construction Manager's agreement with the Owner.

§ 3.4 Design Development Phase Services

§ 3.4.1 Based on the Owner's approval of the Schematic Design Documents, and on the Owner's authorization of any adjustments in the Project requirements and the budget for the Cost of the Work, the Architect shall prepare Design Development Documents for the Construction Manager's review and the Owner's approval. The Design Development Documents shall be based upon information provided, and estimates prepared by, the Construction Manager and shall illustrate and describe the development of the approved Schematic Design Documents and shall consist of drawings and other documents including plans, sections, elevations, typical construction details, and diagrammatic layouts of building systems to fix and describe the size and character of the Project as to architectural, structural, mechanical and electrical systems, and other appropriate elements. The Design Development Documents shall also include outline specifications that identify major materials and systems and establish in general their quality levels.

§ 3.4.2 Prior to the conclusion of the Design Development Phase, the Architect shall submit the Design Development Documents to the Owner and the Construction Manager. The Architect shall meet with the Construction Manager to review the Design Development Documents.

§ 3.4.3 Upon receipt of the Construction Manager's information and estimate at the conclusion of the Design Development Phase, the Architect shall take action as required under Sections 6.5 and 6.6 and request the Owner's approval of the Design Development Documents.

§ 3.5 Construction Documents Phase Services

§ 3.5.1 Based on the Owner's approval of the Design Development Documents, and on the Owner's authorization of any adjustments in the Project requirements and the budget for the Cost of the Work, the Architect shall prepare Construction Documents for the Construction Manager's review and the Owner's approval. The Construction Documents shall illustrate and describe the further development of the approved Design Development Documents and shall consist of Drawings and Specifications setting forth in detail the quality levels and performance criteria of materials and systems and other requirements for the construction of the Work. The Owner and Architect acknowledge that, in order to perform the Work, the Construction Manager will provide additional information, including Shop Drawings, Product Data, Samples and other similar submittals, which the Architect shall review in accordance with Section 3.6.4.

§ 3.5.2 The Architect shall incorporate the design requirements of governmental authorities having jurisdiction over the Project into the Construction Documents.

§ 3.5.3 During the development of the Construction Documents, if requested by the Owner, the Architect shall assist the Owner and Construction Manager in the development and preparation of (1) the Conditions of the Contract for Construction (General, Supplementary and other Conditions) and (2) a project manual that includes the Conditions of the Contract for Construction and Specifications, and may include sample forms.

§ 3.5.4 Prior to the conclusion of the Construction Documents Phase, the Architect shall submit the Construction Documents to the Owner and the Construction Manager. The Architect shall meet with the Construction Manager to review the Construction Documents.

§ 3.5.5 Upon receipt of the Construction Manager's information and estimate at the conclusion of the Construction Documents Phase, the Architect shall take action as required under Section 6.7, and request the Owner's approval of the Construction Documents.

§ 3.6 Construction Phase Services

§ 3.6.1 General

§ 3.6.1.1 The Architect shall provide administration of the Contract between the Owner and the Construction Manager as set forth below and in AIA Document A201™–2017, General Conditions of the Contract for Construction. If the Owner and Construction Manager modify AIA Document A201–2017, those modifications shall not affect the Architect's services under this Agreement unless the Owner and the Architect amend this Agreement. The term "Contractor" as used in A201-2017 shall mean the Construction Manager.

§ 3.6.1.2 Subject to Section 4.2, the Architect's responsibility to provide Construction Phase Services commences upon the Owner's acceptance of the Construction Manager's Guaranteed Maximum Price proposal, the Owner's approval of the Construction Manager's Control Estimate, or by a written agreement between the Owner and Construction Manager which sets forth a description of the Work to be performed by the Construction Manager prior to such acceptance or approval. Subject to Section 4.2, and except as provided in Section 3.6.6.5, the Architect's responsibility to provide Construction Phase Services terminates on the date the Architect issues the final Certificate for Payment.

§ 3.6.1.3 The Architect shall advise and consult with the Owner and Construction Manager during the Construction Phase Services. The Architect shall have authority to act on behalf of the Owner only to the extent provided in this Agreement. The Architect shall not have control over, charge of, or responsibility for the construction means, methods, techniques, sequences or procedures, or for safety precautions and programs in connection with the Work, nor shall the Architect be responsible for the Construction Manager's failure to perform the Work in accordance with the requirements of the Contract Documents. The Architect shall be responsible for the Architect's negligent acts or omissions, but shall not have control over or charge of, and shall not be responsible for, acts or omissions of the Construction Manager or of any other persons or entities performing portions of the Work.

§ 3.6.2 Evaluations of the Work

§ 3.6.2.1 The Architect shall visit the site at intervals appropriate to the stage of construction, or as otherwise required in Section 4.2.3, to become generally familiar with the progress and quality of the portion of the Work completed, and to determine, in general, if the Work observed is being performed in a manner indicating that the Work, when fully completed, will be in accordance with the Contract Documents. However, the Architect shall not be required to make exhaustive or continuous on-site inspections to check the quality or quantity of the Work. On the basis of the site visits, the Architect shall keep the Owner reasonably informed about the progress and quality of the portion of the Work completed, and promptly report to the Owner (1) known deviations from the Contract Documents, (2) known deviations from the most recent construction schedule submitted by the Construction Manager, and (3) defects and deficiencies observed in the Work.

§ 3.6.2.2 The Architect has the authority to reject Work that does not conform to the Contract Documents. Whenever the Architect considers it necessary or advisable, the Architect shall have the authority to require inspection or testing of the Work in accordance with the provisions of the Contract Documents, whether or not the Work is fabricated, installed or completed. However, neither this authority of the Architect nor a decision made in good faith either to exercise or not to exercise such authority shall give rise to a duty or responsibility of the Architect to the Construction Manager, Subcontractors, suppliers, their agents or employees, or other persons or entities performing portions of the Work.

§ 3.6.2.3 The Architect shall interpret and decide matters concerning performance under, and requirements of, the Contract Documents on written request of either the Owner or Construction Manager. The Architect's response to such requests shall be made in writing within any time limits agreed upon or otherwise with reasonable promptness.

§ 3.6.2.4 Interpretations and decisions of the Architect shall be consistent with the intent of, and reasonably inferable from, the Contract Documents and shall be in writing or in the form of drawings. When making such interpretations and decisions, the Architect shall endeavor to secure faithful performance by both Owner and Construction Manager, shall not show partiality to either, and shall not be liable for results of interpretations or decisions rendered in good faith. The Architect's decisions on matters relating to aesthetic effect shall be final if consistent with the intent expressed in the Contract Documents.

§ 3.6.2.5 Unless the Owner and Construction Manager designate another person to serve as an Initial Decision Maker, as that term is defined in AIA Document A201–2017, the Architect shall render initial decisions on Claims between the Owner and Construction Manager as provided in the Contract Documents.

§ 3.6.3 Certificates for Payment to Construction Manager

§ 3.6.3.1 The Architect shall review and certify the amounts due the Construction Manager and shall issue certificates in such amounts. The Architect's certification for payment shall constitute a representation to the Owner, based on the Architect's evaluation of the Work as provided in Section 3.6.2 and on the data comprising the Construction Manager's Application for Payment, that, to the best of the Architect's knowledge, information and belief, the Work has progressed to the point indicated, the quality of the Work is in accordance with the Contract Documents, and that the Construction Manager is entitled to payment in the amount certified. The foregoing representations are subject to (1) an evaluation of the Work for conformance with the Contract Documents upon Substantial Completion, (2) results of subsequent tests and inspections, (3) correction of minor deviations from the Contract Documents prior to completion, and (4) specific qualifications expressed by the Architect.

§ 3.6.3.2 The issuance of a Certificate for Payment shall not be a representation that the Architect has (1) made exhaustive or continuous on-site inspections to check the quality or quantity of the Work, (2) reviewed construction means, methods, techniques, sequences or procedures, (3) reviewed copies of requisitions received from Subcontractors and suppliers and other data requested by the Owner to substantiate the Construction Manager's right to payment, or (4) ascertained how or for what purpose the Construction Manager has used money previously paid on account of the Contract Sum.

§ 3.6.3.3 The Architect shall maintain a record of the Applications and Certificates for Payment.

§ 3.6.4 Submittals

§ 3.6.4.1 The Architect shall review the Construction Manager's submittal schedule and shall not unreasonably delay or withhold approval of the schedule. The Architect's action in reviewing submittals shall be taken in accordance with the approved submittal schedule or, in the absence of an approved submittal schedule, with reasonable promptness while allowing sufficient time, in the Architect's professional judgment, to permit adequate review.

§ 3.6.4.2 The Architect shall review and approve, or take other appropriate action upon, the Construction Manager's submittals such as Shop Drawings, Product Data and Samples, but only for the limited purpose of checking for conformance with information given and the design concept expressed in the Contract Documents. Review of such submittals is not for the purpose of determining the accuracy and completeness of other information such as dimensions, quantities, and installation or performance of equipment or systems, which are the Construction Manager's responsibility. The Architect's review shall not constitute approval of safety precautions or construction means, methods, techniques, sequences or procedures. The Architect's approval of a specific item shall not indicate approval of an assembly of which the item is a component.

§ 3.6.4.3 If the Contract Documents specifically require the Construction Manager to provide professional design services or certifications by a design professional related to systems, materials, or equipment, the Architect shall specify the appropriate performance and design criteria that such services must satisfy. The Architect shall review and take appropriate action on Shop Drawings and other submittals related to the Work designed or certified by the Construction Manager's design professional, provided the submittals bear such professional's seal and signature when submitted to the Architect. The Architect's review shall be for the limited purpose of checking for conformance with information given and the design concept expressed in the Contract Documents. The Architect shall be entitled to rely upon, and shall not be responsible for, the adequacy and accuracy of the services, certifications, and approvals performed or provided by such design professionals.

§ 3.6.4.4 Subject to Section 4.2, the Architect shall review and respond to requests for information about the Contract Documents. The Architect shall set forth, in the Contract Documents, the requirements for requests for information. Requests for information shall include, at a minimum, a detailed written statement that indicates the specific Drawings or Specifications in need of clarification and the nature of the clarification requested. The Architect's response to such requests shall be made in writing within any time limits agreed upon, or otherwise with reasonable promptness. If appropriate, the Architect shall prepare and issue supplemental Drawings and Specifications in response to the requests for information.

§ 3.6.4.5 The Architect shall maintain a record of submittals and copies of submittals supplied by the Construction Manager in accordance with the requirements of the Contract Documents.

§ 3.6.5 Changes in the Work

§ 3.6.5.1 The Architect may order minor changes in the Work that are consistent with the intent of the Contract Documents and do not involve an adjustment in the Contract Sum or an extension of the Contract Time. Subject to Section 4.2, the Architect shall prepare Change Orders and Construction Change Directives for the Owner's approval and execution in accordance with the Contract Documents.

§ 3.6.5.2 The Architect shall maintain records relative to changes in the Work.

§ 3.6.6 Project Completion

§ 3.6.6.1 The Architect shall:

.1 conduct inspections to determine the date or dates of Substantial Completion and the date of final completion;

.2 issue Certificates of Substantial Completion;

.3 forward to the Owner, for the Owner's review and records, written warranties and related documents required by the Contract Documents and received from the Construction Manager; and

.4 issue a final Certificate for Payment based upon a final inspection indicating that, to the best of the Architect's knowledge, information, and belief, the Work complies with the requirements of the Contract Documents.

§ 3.6.6.2 The Architect's inspections shall be conducted with the Owner to (1) check conformance of the Work with the requirements of the Contract Documents and (2) verify the accuracy and completeness of the list submitted by the Construction Manager of Work to be completed or corrected.

§ 3.6.6.3 When Substantial Completion has been achieved, the Architect shall inform the Owner about the balance of the Contract Sum remaining to be paid the Construction Manager, including the amount to be retained from the Contract Sum, if any, for final completion or correction of the Work.

§ 3.6.6.4 The Architect shall forward to the Owner the following information received from the Construction Manager: (1) consent of surety or sureties, if any, to reduction in or partial release of retainage or the making of final payment; (2) affidavits, receipts, releases and waivers of liens, or bonds indemnifying the Owner against liens; and (3) any other documentation required of the Construction Manager under the Contract Documents.

§ 3.6.6.5 Upon request of the Owner, and prior to the expiration of one year from the date of Substantial Completion, the Architect shall, without additional compensation, conduct a meeting with the Owner to review the facility operations and performance.

ARTICLE 4 SUPPLEMENTAL AND ADDITIONAL SERVICES

§ 4.1 Supplemental Services

§ 4.1.1 The services listed below are not included in Basic Services but may be required for the Project. The Architect shall provide the listed Supplemental Services only if specifically designated in the table below as the Architect's responsibility, and the Owner shall compensate the Architect as provided in Section 11.2. Unless otherwise specifically addressed in this Agreement, if neither the Owner nor the Architect is designated, the parties agree that the listed Supplemental Service is not being provided for the Project.

(Designate the Architect's Supplemental Services and the Owner's Supplemental Services required for the Project by indicating whether the Architect or Owner shall be responsible for providing the identified Supplemental Service. Insert a description of the Supplemental Services in Section 4.1.2 below or attach the description of services as an exhibit to this Agreement.)

Supplemental Services	Responsibility *(Architect, Owner, or not provided)*
§ 4.1.1.1 Assistance with Selection of Construction Manager	Not provided
§ 4.1.1.2 Programming	Owner
§ 4.1.1.3 Multiple Preliminary Designs	Not Provided

§ 4.1.1.4 Measured drawings	Architect base contract
§ 4.1.1.5 Existing facilities surveys	Not Provided
§ 4.1.1.6 Site evaluation and planning	Architect base contract
§4.1.1.7 Building Information Model management responsibilities	Not Provided
§ 4.1.1.8 Development of Building Information Models for post construction use	Not Provided
§ 4.1.1.9 Civil engineering	Architect base contract
§ 4.1.1.10 Landscape design	Architect base contract
§ 4.1.1.11 Architectural interior design	Architect (Alternate #2)
§ 4.1.1.12 Value analysis	Not Provided
§ 4.1.1.13 Cost estimating	Not Provided
§4.1.1.14 On-site project representation	Not Provided
§ 4.1.1.15 Conformed documents for construction	Not Provided
§ 4.1.1.16 As-designed record drawings	Architect
§ 4.1.1.17 As-constructed record drawings	Not Provided (Alternate #3)
§ 4.1.1.18 Post-occupancy evaluation	Not Provided
§ 4.1.1.19 Facility support services	Not Provided
§ 4.1.1.20 Tenant-related services	Not Provided
§ 4.1.1.21 Architect's coordination of the Owner's consultants	Not Provided
§ 4.1.1.22 Telecommunications/data design	Not Provided
§ 4.1.1.23 Security evaluation and planning	Not Provided
§ 4.1.1.24 Commissioning	Not Provided
§ 4.1.1.25 Sustainable Project Services pursuant to Section 4.1.3	Not Provided
§ 4.1.1.26 Historic preservation	Not Provided
§ 4.1.1.27 Furniture, furnishings, and equipment design	Not Provided
§ 4.1.1.28 Other services provided by specialty Consultants	Not Provided
§ 4.1.1.29 Other Supplemental Services	Not Provided

§ 4.1.2 Description of Supplemental Services

§ 4.1.2.1 A description of each Supplemental Service identified in Section 4.1.1 as the Architect's responsibility is provided below.

(Describe in detail the Architect's Supplemental Services identified in Section 4.1.1 or, if set forth in an exhibit, identify the exhibit. The AIA publishes a number of Standard Form of Architect's Services documents that can be included as an exhibit to describe the Architect's Supplemental Services.)

NA

§ 4.1.2.2 A description of each Supplemental Service identified in Section 4.1.1 as the Owner's responsibility is provided below.

(Describe in detail the Owner's Supplemental Services identified in Section 4.1.1 or, if set forth in an exhibit, identify the exhibit.)

NA

§ 4.1.3 If the Owner identified a Sustainable Objective in Article 1, the Architect shall provide, as a Supplemental Service, the Sustainability Services required in AIA Document E234™–2019, Sustainable Projects Exhibit, Construction Manager as Constructor Edition, attached to this Agreement. The Owner shall compensate the Architect as provided in Section 11.2.

§ 4.2 Architect's Additional Services

The Architect may provide Additional Services after execution of this Agreement without invalidating the Agreement. Except for services required due to the fault of the Architect, any Additional Services provided in accordance with this Section 4.2 shall entitle the Architect to compensation pursuant to Section 11.3 and an appropriate adjustment in the Architect's schedule.

§ 4.2.1 Upon recognizing the need to perform the following Additional Services, the Architect shall notify the Owner with reasonable promptness and explain the facts and circumstances giving rise to the need. The Architect shall not proceed to provide the following Additional Services until the Architect receives the Owner's written authorization:

- **.1** Services necessitated by a change in the Initial Information, previous instructions or recommendations given by the Construction Manager or the Owner, approvals given by the Owner, or a material change in the Project including size, quality, complexity, the Owner's schedule or budget for Cost of the Work, or bid packages in addition to those listed in Section 1.1.6;
- **.2** Making revisions in Drawings, Specifications, or other documents (as required pursuant to Section 6.7), when such revisions are required because the Construction Manager's estimate of the Cost of the Work, Guaranteed Maximum Price proposal, or Control Estimate exceeds the Owner's budget, except where such excess is due to changes initiated by the Architect in scope, capacities of basic systems, or the kinds and quality of materials, finishes, or equipment;
- **.3** Services necessitated by the enactment or revision of codes, laws, or regulations, including changing or editing previously prepared Instruments of Service;
- **.4** Changing or editing previously prepared Instruments of Service necessitated by official interpretations of applicable codes, laws or regulations that are either (a) contrary to specific interpretations by the applicable authorities having jurisdiction made prior to the issuance of the building permit, or (b) contrary to requirements of the Instruments of Service when those Instruments of Service were prepared in accordance with the applicable standard of care;
- **.5** Services necessitated by decisions of the Owner or Construction Manager not rendered in a timely manner or any other failure of performance on the part of the Owner or the Owner's consultants or contractors;
- **.6** Preparing digital models or other design documentation for transmission to the Owner's consultants and contractors, or to other Owner- authorized recipients;
- **.7** Preparation of design and documentation for alternate bid or proposal requests proposed by the Owner or Construction Manager;
- **.8** Preparation for, and attendance at, a public presentation, meeting or hearing;
- **.9** Preparation for, and attendance at, a dispute resolution proceeding or legal proceeding, except where the Architect is party thereto;
- **.10** Consultation concerning replacement of Work resulting from fire or other cause during construction; or
- **.11** Assistance to the Initial Decision Maker, if other than the Architect;
- **.12** Services necessitated by replacement of the Construction Manager or conversion of the Construction Manager as constructor project delivery method to an alternative project delivery method;
- **.13** Services necessitated by the Owner's delay in engaging the Construction Manager;
- **.14** Making revisions to the Drawings, Specifications, and other documents resulting from agreed-upon assumptions and clarifications included in the Guaranteed Maximum Price Amendment or Control Estimate; and
- **.15** Making revisions to the Drawings, Specifications, and other documents resulting from substitutions included in the Guaranteed Maximum Price Amendment or Control Estimate.

§ 4.2.2 To avoid delay in the Construction Phase, the Architect shall provide the following Additional Services, notify the Owner with reasonable promptness, and explain the facts and circumstances giving rise to the need. If, upon receipt of the Architect's notice, the Owner determines that all or parts of the services are not required, the Owner shall give prompt written notice to the Architect of the Owner's determination. The Owner shall compensate the Architect for the services provided prior to the Architect's receipt of the Owner's notice:

- **.1** Reviewing a Construction Manager's submittal out of sequence from the submittal schedule approved by the Architect;
- **.2** Responding to the Construction Manager's requests for information that are not prepared in accordance with the Contract Documents or where such information is available to the Construction Manager from a careful study and comparison of the Contract Documents, field conditions, other Owner-

provided information, Construction Manager-prepared coordination drawings, or prior Project correspondence or documentation;

.3 Preparing Change Orders, and Construction Change Directives that require evaluation of the Construction Manager's proposals and supporting data, or the preparation or revision of Instruments of Service;

.4 Evaluating an extensive number of Claims as the Initial Decision Maker; or

.5 Evaluating substitutions proposed by the Owner or Construction Manager and making subsequent revisions to Instruments of Service resulting therefrom.

§ 4.2.3 The Architect shall provide Construction Phase Services exceeding the limits set forth below as Additional Services. When the limits below are reached, the Architect shall notify the Owner:

.1 NA ( ) reviews of each Shop Drawing, Product Data item, sample and similar submittals of the Construction Manager

.2 NA ( ) visits to the site by the Architect during construction

.3 NA ( ) inspections for any portion of the Work to determine whether such portion of the Work is substantially complete in accordance with the requirements of the Contract Documents

.4 NA ( ) inspections for any portion of the Work to determine final completion

§ 4.2.4 Except for services required under Section 3.6.6.5 and those services that do not exceed the limits set forth in Section 4.2.3, Construction Phase Services provided more than 60 days after (1) the date of Substantial Completion of the Work or (2) the initial date of Substantial Completion identified in the agreement between the Owner and Contractor, whichever is earlier, shall be compensated as Additional Services to the extent the Architect incurs additional cost in providing those Construction Phase Services.

§ 4.2.5 If the services covered by this Agreement have not been completed within Thirteen (13) months of the date of this Agreement, through no fault of the Architect, extension of the Architect's services beyond that time shall be compensated as Additional Services.

ARTICLE 5 OWNER'S RESPONSIBILITIES

§ 5.1 Unless otherwise provided for under this Agreement, the Owner shall provide information in a timely manner regarding requirements for and limitations on the Project, including a written program which shall set forth the Owner's objectives; schedule; constraints and criteria, including space requirements and relationships; flexibility; expandability; special equipment; systems; and site requirements.

§ 5.2 The Owner shall retain a Construction Manager to provide services, duties, and responsibilities as described in the agreement selected in Section 1.1.5.

§ 5.3 The Owner shall establish the Owner's budget for the Project, including (1) the budget for the Cost of the Work as defined in Section 6.1; (2) the Owner's other costs; and, (3) reasonable contingencies related to all of these costs. The Owner shall update the Owner's budget for the Project as necessary throughout the duration of the Project until final completion. If the Owner significantly increases or decreases the Owner's budget for the Cost of the Work, the Owner shall notify the Architect and Construction Manager. The Owner and the Architect, in consultation with the Construction Manager, shall thereafter agree to a corresponding change in the Project's scope and quality.

§ 5.3.1 The Owner acknowledges that accelerated, phased or fast-track scheduling provides a benefit, but also carries with it associated risks. Such risks include the Owner incurring costs for the Architect to coordinate and redesign portions of the Project affected by procuring or installing elements of the Project prior to the completion of all relevant Construction Documents, and costs for the Construction Manager to remove and replace previously installed Work. If the Owner selects accelerated, phased or fast-track scheduling, the Owner agrees to include in the budget for the Project sufficient contingencies to cover such costs.

§ 5.4 The Owner shall identify a representative authorized to act on the Owner's behalf with respect to the Project. The Owner shall render decisions and approve the Architect's submittals in a timely manner in order to avoid unreasonable delay in the orderly and sequential progress of the Architect's services.

§ 5.5 The Owner shall furnish surveys to describe physical characteristics, legal limitations and utility locations for the site of the Project, and a written legal description of the site. The surveys and legal information shall include, as

applicable, grades and lines of streets, alleys, pavements and adjoining property and structures; designated wetlands; adjacent drainage; rights-of-way, restrictions, easements, encroachments, zoning, deed restrictions, boundaries and contours of the site; locations, dimensions, and other necessary data with respect to existing buildings, other improvements and trees; and information concerning available utility services and lines, both public and private, above and below grade, including inverts and depths. All the information on the survey shall be referenced to a Project benchmark.

§ 5.6 The Owner shall furnish services of geotechnical engineers, which may include test borings, test pits, determinations of soil bearing values, percolation tests, evaluations of hazardous materials, seismic evaluation, ground corrosion tests and resistivity tests, including necessary operations for anticipating subsoil conditions, with written reports and appropriate recommendations.

§ 5.7 The Owner shall provide the Supplemental Services designated as the Owner's responsibility in Section 4.1.1.

§ 5.8 If the Owner identified a Sustainable Objective in Article 1, the Owner shall fulfill its responsibilities as required in AIA Document E234™–2019, Sustainable Projects Exhibit, Construction Manager as Constructor Edition, attached to this Agreement.

§ 5.9 The Owner shall coordinate the services of its own consultants with those services provided by the Architect. Upon the Architect's request, the Owner shall furnish copies of the scope of services in the contracts between the Owner and the Owner's consultants. The Owner shall furnish the services of consultants other than those designated as the responsibility of the Architect in this Agreement, or authorize the Architect to furnish them as an Additional Service, when the Architect requests such services and demonstrates that they are reasonably required by the scope of the Project. The Owner shall require that its consultants and contractors maintain insurance, including professional liability insurance, as appropriate to the services or work provided.

§ 5.10 The Owner shall furnish tests, inspections and reports required by law or the Contract Documents, such as structural, mechanical, and chemical tests, tests for air and water pollution, and tests for hazardous materials.

§ 5.11 The Owner shall furnish all legal, insurance and accounting services, including auditing services, that may be reasonably necessary at any time for the Project to meet the Owner's needs and interests.

§ 5.12 The Owner shall provide prompt written notice to the Architect and Construction Manager if the Owner becomes aware of any fault or defect in the Project, including errors, omissions or inconsistencies in the Architect's Instruments of Service.

§ 5.13 The Owner shall include the Architect in all communications with the Construction Manager that relate to or affect the Architect's services or professional responsibilities. The Owner shall promptly notify the Architect of the substance of any direct communications between the Owner and the Construction Manager otherwise relating to the Project. Communications by and with the Architect's consultants shall be through the Architect.

§ 5.14 The Owner shall coordinate the Architect's duties and responsibilities set forth in the Agreement between the Owner and the Construction Manager with the Architect's services set forth in this Agreement. The Owner shall provide the Architect a copy of the executed agreement between the Owner and Construction Manager, including the General Conditions of the Contract for Construction.

§ 5.15 The Owner shall provide the Architect access to the Project site prior to commencement of the Work and shall obligate the Construction Manager to provide the Architect access to the Work wherever it is in preparation or progress.

§ 5.16 Within 15 days after receipt of a written request from the Architect, the Owner shall furnish the requested information as necessary and relevant for the Architect to evaluate, give notice of, or enforce lien rights.

ARTICLE 6 COST OF THE WORK

§ 6.1 For purposes of this Agreement, the Cost of the Work shall be the total cost to the Owner to construct all elements of the Project designed or specified by the Architect and shall include the Construction Manager's general conditions costs, overhead, and profit. The Cost of the Work also includes the reasonable value of labor, materials,

and equipment, donated to, or otherwise furnished by, the Owner. The Cost of the Work does not include the compensation of the Architect; the compensation of the Construction Manager for Preconstruction Phase services; the costs of the land, rights-of-way, financing, or contingencies for changes in the Work; or other costs that are the responsibility of the Owner.

§ 6.2 The Owner's budget for the Cost of the Work is provided in the Initial Information, and shall be adjusted throughout the Project as required under Sections 5.3 and 6.4. Evaluations of the Owner's budget for the Cost of the Work represent the Architect's judgment as a design professional.

§ 6.3 The Owner shall require the Construction Manager to include appropriate contingencies for design, bidding or negotiating, price escalation, and market conditions in estimates of the Cost of the Work. The Architect shall be entitled to rely on the accuracy and completeness of estimates of the Cost of the Work the Construction Manager prepares as the Architect progresses with its Basic Services. The Architect shall prepare, as an Additional Service, revisions to the Drawings, Specifications or other documents required due to the Construction Manager's inaccuracies or incompleteness in preparing cost estimates, or due to market conditions the Architect could not reasonably anticipate. The Architect may review the Construction Manager's estimates solely for the Architect's guidance in completion of its services, however, the Architect shall report to the Owner any material inaccuracies and inconsistencies noted during any such review.

§ 6.3.1 If the Architect is providing cost estimating services as a Supplemental Service, and a discrepancy exists between the Construction Manager's cost estimates and the Architect's cost estimates, the Architect and the Construction Manager shall work together to reconcile the cost estimates.

§ 6.4 If, prior to the conclusion of the Design Development Phase, the Construction Manager's estimate of the Cost of the Work exceeds the Owner's budget for the Cost of the Work, the Architect, in consultation with the Construction Manager, shall make appropriate recommendations to the Owner to adjust the Project's size, quality or budget for the Cost of the Work, and the Owner shall cooperate with the Architect in making such adjustments.

§ 6.5 If the Construction Manager's estimate of the Cost of the Work at the conclusion of the Design Development Phase exceeds the Owner's budget for the Cost of the Work, the Owner shall

.1 give written approval of an increase in the budget for the Cost of the Work;
.2 terminate in accordance with Section 9.5;
.3 in consultation with the Architect and Construction Manager, revise the Project program, scope, or quality as required to reduce the Cost of the Work; or
.4 implement any other mutually acceptable alternative.

§ 6.6 If the Owner chooses to proceed under Section 6.5.3, the Architect, without additional compensation, shall incorporate the revisions in the Construction Documents Phase as necessary to comply with the Owner's budget for the Cost of the Work at the conclusion of the Design Development Phase Services, or the budget as adjusted under Section 6.5.1. The Architect's revisions in the Construction Documents Phase shall be the limit of the Architect's responsibility under this Article 6.

§ 6.7 After incorporation of modifications under Section 6.6, the Architect shall, as an Additional Service, make any required revisions to the Drawings, Specifications or other documents necessitated by the Construction Manager's subsequent cost estimates, the Guaranteed Maximum Price proposal, or Control Estimate that exceed the Owner's budget for the Cost of the Work, except when the excess is due to changes initiated by the Architect in scope, basic systems, or the kinds and quality of materials, finishes or equipment.

ARTICLE 7 COPYRIGHTS AND LICENSES

§ 7.1 The Architect and the Owner warrant that in transmitting Instruments of Service, or any other information, the transmitting party is the copyright owner of such information or has permission from the copyright owner to transmit such information for its use on the Project.

§ 7.2 The Architect and the Architect's consultants shall be deemed the authors and owners of their respective Instruments of Service, including the Drawings and Specifications, and shall retain all common law, statutory and other reserved rights, including copyrights. Submission or distribution of Instruments of Service to meet official

regulatory requirements or for similar purposes in connection with the Project is not to be construed as publication in derogation of the reserved rights of the Architect and the Architect's consultants.

§ 7.3 The Architect grants to the Owner a nonexclusive license to use the Architect's Instruments of Service solely and exclusively for purposes of constructing, using, maintaining, altering and adding to the Project, provided that the Owner substantially performs its obligations under this Agreement, including prompt payment of all sums due, pursuant to Article 9 and Article 11. The Architect shall obtain similar nonexclusive licenses from the Architect's consultants consistent with this Agreement. The license granted under this section permits the Owner to authorize the Construction Manager, Subcontractors, Sub-subcontractors, and suppliers, as well as the Owner's consultants and separate contractors, to reproduce applicable portions of the Instruments of Service, subject to any protocols established pursuant to Section 1.3, solely and exclusively for use in performing services or construction for the Project. If the Architect rightfully terminates this Agreement for cause as provided in Section 9.4, the license granted in this Section 7.3 shall terminate.

§ 7.3.1 In the event the Owner uses the Instruments of Service without retaining the authors of the Instruments of Service, the Owner releases the Architect and Architect's consultant(s) from all claims and causes of action arising from such uses. The Owner, to the extent permitted by law, further agrees to indemnify and hold harmless the Architect and its consultants from all costs and expenses, including the cost of defense, related to claims and causes of action asserted by any third person or entity to the extent such costs and expenses arise from the Owner's use of the Instruments of Service under this Section 7.3.1. The terms of this Section 7.3.1 shall not apply if the Owner rightfully terminates this Agreement for cause under Section 9.4.

§ 7.4 Except for the licenses granted in this Article 7, no other license or right shall be deemed granted or implied under this Agreement. The Owner shall not assign, delegate, sublicense, pledge or otherwise transfer any license granted herein to another party without the prior written agreement of the Architect. Any unauthorized use of the Instruments of Service shall be at the Owner's sole risk and without liability to the Architect and the Architect's consultants.

§ 7.5 Except as otherwise stated in Section 7.3, the provisions of this Article 7 shall survive the termination of this Agreement.

ARTICLE 8 CLAIMS AND DISPUTES

§ 8.1 General

§ 8.1.1 The Owner and Architect shall commence all claims and causes of action against the other and arising out of or related to this Agreement, whether in contract, tort, or otherwise, in accordance with the requirements of the binding dispute resolution method selected in this Agreement and within the period specified by applicable law, but in any case not more than 10 years after the date of Substantial Completion of the Work. The Owner and Architect waive all claims and causes of action not commenced in accordance with this Section 8.1.1.

§ 8.1.2 To the extent damages are covered by property insurance, the Owner and Architect waive all rights against each other and against the contractors, consultants, agents and employees of the other for damages, except such rights as they may have to the proceeds of such insurance as set forth in AIA Document A201–2017, General Conditions of the Contract for Construction. The Owner or the Architect, as appropriate, shall require of the Construction Manager, contractors, consultants, agents and employees of any of them, similar waivers in favor of the other parties enumerated herein.

§ 8.1.3 The Architect shall indemnify and hold the Owner and the Owner's officers and employees harmless from and against damages, losses and judgments arising from claims by third parties, including reasonable attorneys' fees and expenses recoverable under applicable law, but only to the extent they are caused by the negligent acts or omissions of the Architect, its employees and its consultants in the performance of professional services under this Agreement. The Architect's obligation to indemnify and hold the Owner and the Owner's officers and employees harmless does not include a duty to defend. The Architect's duty to indemnify the Owner under this Section 8.1.3 shall be limited to the available proceeds of the insurance coverage required by this Agreement.

§ 8.1.4 The Architect and Owner waive consequential damages for claims, disputes, or other matters in question arising out of or relating to this Agreement. This mutual waiver is applicable, without limitation, to all consequential damages due to either party's termination of this Agreement, except as specifically provided in Section 9.7.

§ 8.2 Mediation

§ 8.2.1 Any claim, dispute, or other matter in question arising out of or related to this Agreement shall be subject to mediation as a condition precedent to binding dispute resolution. If such matter relates to or is the subject of a lien arising out of the Architect's services, the Architect may proceed in accordance with applicable law to comply with the lien notice or filing deadlines prior to resolution of the matter by mediation or by binding dispute resolution.

§ 8.2.2 The Owner and Architect shall endeavor to resolve claims, disputes and other matters in question between them by mediation, which, unless the parties mutually agree otherwise, shall be administered by the American Arbitration Association in accordance with its Construction Industry Mediation Procedures in effect on the date of this Agreement. A request for mediation shall be made in writing, delivered to the other party to this Agreement, and filed with the person or entity administering the mediation. The request may be made concurrently with the filing of a complaint or other appropriate demand for binding dispute resolution but, in such event, mediation shall proceed in advance of binding dispute resolution proceedings, which shall be stayed pending mediation for a period of 60 days from the date of filing, unless stayed for a longer period by agreement of the parties or court order. If an arbitration proceeding is stayed pursuant to this section, the parties may nonetheless proceed to the selection of the arbitrator(s) and agree upon a schedule for later proceedings.

§ 8.2.3 The parties shall share the mediator's fee and any filing fees equally. The mediation shall be held in the place where the Project is located, unless another location is mutually agreed upon. Agreements reached in mediation shall be enforceable as settlement agreements in any court having jurisdiction thereof.

§ 8.2.4 If the parties do not resolve a dispute through mediation pursuant to this Section 8.2, the method of binding dispute resolution shall be the following:
(Check the appropriate box.)

[**X**] Arbitration pursuant to Section 8.3 of this Agreement

[ ] Litigation in a court of competent jurisdiction

[ ] Other: *(Specify)*

If the Owner and Architect do not select a method of binding dispute resolution, or do not subsequently agree in writing to a binding dispute resolution method other than litigation, the dispute will be resolved in a court of competent jurisdiction.

§ 8.3 Arbitration

§ 8.3.1 If the parties have selected arbitration as the method for binding dispute resolution in this Agreement, any claim, dispute or other matter in question arising out of or related to this Agreement subject to, but not resolved by, mediation shall be subject to arbitration, which, unless the parties mutually agree otherwise, shall be administered by the American Arbitration Association in accordance with its Construction Industry Arbitration Rules in effect on the date of this Agreement. A demand for arbitration shall be made in writing, delivered to the other party to this Agreement, and filed with the person or entity administering the arbitration.

§ 8.3.1.1 A demand for arbitration shall be made no earlier than concurrently with the filing of a request for mediation, but in no event shall it be made after the date when the institution of legal or equitable proceedings based on the claim, dispute or other matter in question would be barred by the applicable statute of limitations. For statute of limitations purposes, receipt of a written demand for arbitration by the person or entity administering the arbitration shall constitute the institution of legal or equitable proceedings based on the claim, dispute or other matter in question.

§ 8.3.2 The foregoing agreement to arbitrate, and other agreements to arbitrate with an additional person or entity duly consented to by parties to this Agreement, shall be specifically enforceable in accordance with applicable law in any court having jurisdiction thereof.

§ 8.3.3 The award rendered by the arbitrator(s) shall be final, and judgment may be entered upon it in accordance with applicable law in any court having jurisdiction thereof.

§ 8.3.4 Consolidation or Joinder

§ 8.3.4.1 Either party, at its sole discretion, may consolidate an arbitration conducted under this Agreement with any other arbitration to which it is a party provided that (1) the arbitration agreement governing the other arbitration permits consolidation; (2) the arbitrations to be consolidated substantially involve common questions of law or fact; and (3) the arbitrations employ materially similar procedural rules and methods for selecting arbitrator(s).

§ 8.3.4.2 Either party, at its sole discretion, may include by joinder persons or entities substantially involved in a common question of law or fact whose presence is required if complete relief is to be accorded in arbitration, provided that the party sought to be joined consents in writing to such joinder. Consent to arbitration involving an additional person or entity shall not constitute consent to arbitration of any claim, dispute or other matter in question not described in the written consent.

§ 8.3.4.3 The Owner and Architect grant to any person or entity made a party to an arbitration conducted under this Section 8.3, whether by joinder or consolidation, the same rights of joinder and consolidation as the Owner and Architect under this Agreement.

§ 8.4 The provisions of this Article 8 shall survive the termination of this Agreement.

ARTICLE 9 TERMINATION OR SUSPENSION

§ 9.1 If the Owner fails to make payments to the Architect in accordance with this Agreement, such failure shall be considered substantial nonperformance and cause for termination or, at the Architect's option, cause for suspension of performance of services under this Agreement. If the Architect elects to suspend services, the Architect shall give seven days' written notice to the Owner before suspending services. In the event of a suspension of services, the Architect shall have no liability to the Owner for delay or damage caused the Owner because of such suspension of services. Before resuming services, the Owner shall pay the Architect all sums due prior to suspension and any expenses incurred in the interruption and resumption of the Architect's services. The Architect's fees for the remaining services and the time schedules shall be equitably adjusted.

§ 9.2 If the Owner suspends the Project, the Architect shall be compensated for services performed prior to notice of such suspension. When the Project is resumed, the Architect shall be compensated for expenses incurred in the interruption and resumption of the Architect's services. The Architect's fees for the remaining services and the time schedules shall be equitably adjusted.

§ 9.3 If the Owner suspends the Project for more than 90 cumulative days for reasons other than the fault of the Architect, the Architect may terminate this Agreement by giving not less than seven days' written notice.

§ 9.4 Either party may terminate this Agreement upon not less than seven days' written notice should the other party fail substantially to perform in accordance with the terms of this Agreement through no fault of the party initiating the termination.

§ 9.5 The Owner may terminate this Agreement upon not less than seven days' written notice to the Architect for the Owner's convenience and without cause.

§ 9.6 If the Owner terminates this Agreement for its convenience pursuant to Section 9.5, or the Architect terminates this Agreement pursuant to Section 9.3, the Owner shall compensate the Architect for services performed prior to termination, Reimbursable Expenses incurred, and costs attributable to termination, including the costs attributable to the Architect's termination of consultant agreements.

§ 9.7 In addition to any amounts paid under Section 9.6, if the Owner terminates this Agreement for its convenience pursuant to Section 9.5, or the Architect terminates this Agreement pursuant to Section 9.3, the Owner shall pay to the Architect the following fees:
(Set forth below the amount of any termination or licensing fee, or the method for determining any termination or licensing fee.)

.1 Termination Fee:

NA

.2 Licensing Fee if the Owner intends to continue using the Architect's Instruments of Service:

NA

§ 9.8 Except as otherwise expressly provided herein, this Agreement shall terminate one year from the date of Substantial Completion.

§ 9.9 The Owner's rights to use the Architect's Instruments of Service in the event of a termination of this Agreement are set forth in Article 7 and Section 9.7.

ARTICLE 10 MISCELLANEOUS PROVISIONS

§ 10.1 This Agreement shall be governed by the law of the place where the Project is located, excluding that jurisdiction's choice of law rules. If the parties have selected arbitration as the method of binding dispute resolution, the Federal Arbitration Act shall govern Section 8.3.

§ 10.2 Terms in this Agreement shall have the same meaning as those in AIA Document A201–2017, General Conditions of the Contract for Construction, except as modified in this Agreement. The term "Contractor" as used in A201–2017 shall mean the Construction Manager.

§ 10.3 The Owner and Architect, respectively, bind themselves, their agents, successors, assigns, and legal representatives to this Agreement. Neither the Owner nor the Architect shall assign this Agreement without the written consent of the other, except that the Owner may assign this Agreement to a lender providing financing for the Project if the lender agrees to assume the Owner's rights and obligations under this Agreement, including any payments due to the Architect by the Owner prior to the assignment.

§ 10.4 If the Owner requests the Architect to execute certificates, the proposed language of such certificates shall be submitted to the Architect for review at least 14 days prior to the requested dates of execution. If the Owner requests the Architect to execute consents reasonably required to facilitate assignment to a lender, the Architect shall execute all such consents that are consistent with this Agreement, provided the proposed consent is submitted to the Architect for review at least 14 days prior to execution. The Architect shall not be required to execute certificates or consents that would require knowledge, services, or responsibilities beyond the scope of this Agreement.

§ 10.5 Nothing contained in this Agreement shall create a contractual relationship with, or a cause of action in favor of, a third party against either the Owner or Architect.

§ 10.6 Unless otherwise required in this Agreement, the Architect shall have no responsibility for the discovery, presence, handling, removal or disposal of, or exposure of persons to, hazardous materials or toxic substances in any form at the Project site.

§ 10.7 The Architect shall have the right to include photographic or artistic representations of the design of the Project among the Architect's promotional and professional materials. The Architect shall be given reasonable access to the completed Project to make such representations. However, the Architect's materials shall not include the Owner's confidential or proprietary information if the Owner has previously advised the Architect in writing of the specific information considered by the Owner to be confidential or proprietary. The Owner shall provide professional credit for the Architect in the Owner's promotional materials for the Project. This Section 10.7 shall survive the termination of this Agreement unless the Owner terminates this Agreement for cause pursuant to Section 9.4.

§ 10.8 If the Architect or Owner receives information specifically designated as "confidential" or "business proprietary," the receiving party shall keep such information strictly confidential and shall not disclose it to any other person except as set forth in Section 10.8.1. This Section 10.8 shall survive the termination of this Agreement.

§ 10.8.1 The receiving party may disclose "confidential" or "business proprietary" information after 7 days' notice to the other party, when required by law, arbitrator's order, or court order, including a subpoena or other form of compulsory legal process issued by a court or governmental entity, or to the extent such information is reasonably necessary for the receiving party to defend itself in any dispute. The receiving party may also disclose such information to its employees, consultants, or contractors in order to perform services or work solely and exclusively for the Project, provided those employees, consultants and contractors are subject to the restrictions on the disclosure and use of such information as set forth in this Section 10.8.

§ 10.9 The invalidity of any provision of the Agreement shall not invalidate the Agreement or its remaining provisions. If it is determined that any provision of the Agreement violates any law, or is otherwise invalid or unenforceable, then that provision shall be revised to the extent necessary to make that provision legal and enforceable. In such case the Agreement shall be construed, to the fullest extent permitted by law, to give effect to the parties' intentions and purposes in executing the Agreement.

ARTICLE 11 COMPENSATION

§ 11.1 For the Architect's Basic Services described under Article 3, the Owner shall compensate the Architect as follows:

.1 Stipulated Sum
(Insert amount)

NA

.2 Percentage Basis
(Insert percentage value)

NA ( ) % of the Owner's budget for the Cost of the Work, as calculated in accordance with Section 11.6.

.3 Other
(Describe the method of compensation)

Phase I	Project Investigation and Analysis	$ 15,410.00 NTE
Phase II	Schematic Design	$ 42,275.00 NTE
Phase III	Design Development	$ 63,235.00 NTE
Phase IV	Contracting & Bidding Oversight	$ 8,945.00 NTE
Phase V*	Construction Administration	$ 58,335.00 NTE
Allowance	MEP	$ 20,000.00 NTE
Alternate #1	Survey	$ 12,000.00 NTE
Alternate #2	Interior Renovation	$ 20,000.00 NTE
Alternate #3	As-Built Drawings	$ 5,000.00 NTE
Total		$245,200.00 NTE

*Construction Administration is based on a 13-month period ending July 1, 2024

§ 11.2 For the Architect's Supplemental Services designated in Section 4.1.1 and for any Sustainability Services required pursuant to Section 4.1.3, the Owner shall compensate the Architect as follows:
(Insert amount of, or basis for, compensation. If necessary, list specific services to which particular methods of compensation apply.)

NA

§ 11.3 For Additional Services that may arise during the course of the Project, including those under Section 4.2, the Owner shall compensate the Architect as follows:

(Insert amount of, or basis for, compensation.)

Lump sum proposal based on scope of work

§ 11.4 Compensation for Supplemental and Additional Services of the Architect's consultants when not included in Sections 11.2 or 11.3, shall be the amount invoiced to the Architect plus Ten percent (10 %), or as follows:
(Insert amount of, or basis for computing, Architect's consultants' compensation for Supplemental or Additional Services.)

Lump sum proposal based on scope of work

§ 11.5 When compensation for Basic Services is based on a stipulated sum or a percentage basis, the proportion of compensation for each phase of services shall be as follows:

Schematic Design Phase		percent (		%)
Design Development Phase		percent (		%)
Construction Documents Phase		percent (		%)
Construction Phase		percent (		%)
Total Basic Compensation	one hundred	percent (	100	%)

The Owner acknowledges that with an accelerated Project delivery, multiple bid package process, or Construction Manager as constructor project delivery method, the Architect may be providing its services in multiple Phases simultaneously. Therefore, the Architect shall be permitted to invoice monthly in proportion to services performed in each Phase of Services, as appropriate.

§ 11.6 When compensation identified in Section 11.1 is on a percentage basis, progress payments for each phase of Basic Services shall be calculated by multiplying the percentages identified in this Article by the Owner's most recent budget for the Cost of the Work. Compensation paid in previous progress payments shall not be adjusted based on subsequent updates to the Owner's budget for the Cost of the Work.

§ 11.6.1 When compensation is on a percentage basis and any portions of the Project are deleted or otherwise not constructed, compensation for those portions of the Project shall be payable to the extent services are performed on those portions. The Architect shall be entitled to compensation in accordance with this Agreement for all services performed whether or not the Construction Phase is commenced.

§ 11.7 The hourly billing rates for services of the Architect and the Architect's consultants are set forth below. The rates shall be adjusted in accordance with the Architect's and Architect's consultants' normal review practices.
(If applicable, attach an exhibit of hourly billing rates or insert them below.)

Employee or Category	Rate ($0.00)
Langan	
Principal	350
Senior Project Mgr/ Assoc	300
Project Manager	250
Staff Personal	175
MHA	
Principal	175
Project Manager	140
Senior Engineer	125
Staff Engineer	110
Construction Administrator	100
CAD/ Revit Draftsperson	90
Administrative Staff	40
JSA	
Principal	225
Senior Project Manager	165
Project Manager	135
Interior Designer	120
Architectural Designer	110
Draftsperson	95
Administrative Staff	65

§ 11.8 Compensation for Reimbursable Expenses

§ 11.8.1 Reimbursable Expenses are in addition to compensation for Basic, Supplemental, and Additional Services and include expenses incurred by the Architect and the Architect's consultants directly related to the Project, as follows:

.1 Transportation and authorized out-of-town travel and subsistence;
.2 Long distance services, dedicated data and communication services, teleconferences, Project web sites, and extranets;
.3 Permitting and other fees required by authorities having jurisdiction over the Project;
.4 Printing, reproductions, plots, and standard form documents;
.5 Postage, handling, and delivery;
.6 Expense of overtime work requiring higher than regular rates, if authorized in advance by the Owner;
.7 Renderings, physical models, mock-ups, professional photography, and presentation materials requested by the Owner or required for the Project;
.8 If required by the Owner, and with the Owner's prior written approval, the Architect's consultants' expenses of professional liability insurance dedicated exclusively to this Project, or the expense of additional insurance coverage or limits in excess of that normally maintained by the Architect's consultants;
.9 All taxes levied on professional services and on reimbursable expenses;
.10 Site office expenses;
.11 Registration fees and any other fees charged by the Certifying Authority or by other entities as necessary to achieve the Sustainable Objective; and
.12 Other similar Project-related expenditures.

§ 11.8.2 For Reimbursable Expenses the compensation shall be the expenses incurred by the Architect and the Architect's consultants plus one point one percent (1.1 %) of the expenses incurred.

§ 11.9 Architect's Insurance. If the types and limits of coverage required in Section 2.6 are in addition to the types and limits the Architect normally maintains, the Owner shall pay the Architect for the additional costs incurred by the Architect for the additional coverages as set forth below:
(Insert the additional coverages the Architect is required to obtain in order to satisfy the requirements set forth in Section 2.6, and for which the Owner shall reimburse the Architect.)

NA

§ 11.10 Payments to the Architect
§ 11.10.1 Initial Payments
§ 11.10.1.1 An initial payment of NA ($) shall be made upon execution of this Agreement and is the minimum payment under this Agreement. It shall be credited to the Owner's account in the final invoice.

§ 11.10.1.2 If a Sustainability Certification is part of the Sustainable Objective, an initial payment to the Architect of NA ($) shall be made upon execution of this Agreement for registration fees and other fees payable to the Certifying Authority and necessary to achieve the Sustainability Certification. The Architect's payments to the Certifying Authority shall be credited to the Owner's account at the time the expense is incurred.

§ 11.10.2 Progress Payments
§ 11.10.2.1 Unless otherwise agreed, payments for services shall be made monthly in proportion to services performed. Payments are due and payable upon presentation of the Architect's invoice. Amounts unpaid NA ( ) days after the invoice date shall bear interest at the rate entered below, or in the absence thereof at the legal rate prevailing from time to time at the principal place of business of the Architect.
(Insert rate of monthly or annual interest agreed upon.)

% 0.0 per annum

§ 11.10.2.2 The Owner shall not withhold amounts from the Architect's compensation to impose a penalty or liquidated damages on the Architect, or to offset sums requested by or paid to contractors for the cost of changes in the Work, unless the Architect agrees or has been found liable for the amounts in a binding dispute resolution proceeding.

§ 11.10.2.3 Records of Reimbursable Expenses, expenses pertaining to Supplemental and Additional Services, and services performed on the basis of hourly rates shall be available to the Owner at mutually convenient times.

ARTICLE 12 SPECIAL TERMS AND CONDITIONS

Special terms and conditions that modify this Agreement are as follows:
(Include other terms and conditions applicable to this Agreement.)
Exclusions
This contract does not include the following:
Survey and removal of environmental/ hazmat materials
Landscaping & site lighting design
Telecommunications, security design
Building commissioning, retro-commissioning, re-commissioning
Monitoring of contractor's safety practices and compliance with OSHA standards
Cost estimating services
Cost of securing approval/ permits of the authorities having jurisdiction over the project
Parking studies and traffic engineering
Selection of equipment and furnishing by Owner
Structural engineering for all interior design work, this work is to be non-structural in nature

ARTICLE 13 SCOPE OF THE AGREEMENT

§ 13.1 This Agreement represents the entire and integrated agreement between the Owner and the Architect and supersedes all prior negotiations, representations or agreements, either written or oral. This Agreement may be amended only by written instrument signed by both the Owner and Architect.

§ 13.2 This Agreement is comprised of the following documents identified below:

.1 AIA Document B133™–2019, Standard Form Agreement Between Owner and Architect, Construction Manager as Constructor Edition

.2 AIA Document E203™–2013, Building Information Modeling and Digital Data Exhibit, dated as indicated below, if completed, or the following:

(Insert the date of the E203-2013 incorporated into this agreement.)

NA

.3 Exhibits:
(Check the appropriate box for any exhibits incorporated into this Agreement.)

[NA] AIA Document E234™–2019, Sustainable Projects Exhibit, Construction Manager as Constructor Edition dated as indicated below.
(Insert the date of the E234-2019 incorporated into this agreement.)

[ ] Other Exhibits incorporated into this Agreement:
(Clearly identify any other exhibits incorporated into this Agreement, including any exhibits and scopes of services identified as exhibits in Section 4.1.2.)

.4 Other documents:
(List other documents, if any, forming part of the Agreement.)

This Agreement entered into as of the day and year first written above.

OWNER *(Signature)*	**ARCHITECT** *(Signature)*
	Joseph T Sepot AIAPresident
(Printed name and title)	*(Printed name, title, and license number, if required)*

November 11, 2022

Town of Fairfield
Engineering Department
725 Old Post Road
Fairfield, CT 06824

Attention: Mr. Elias Ghazal, Project Manager
eghazal@fairfieldct.org

Reference: Proposed Agreement for Design Professional Services
Coastal Engineering and Flood Impact Analysis
Penfield Pavilion
RACE Proposal No. P2022176

Dear Mr. Ghazal:

RACE COASTAL ENGINEERING, INC. ("**RACE**") herein submits to you this proposed Agreement for Design Professional Services related to coastal engineering and flood impact analysis at the Penfield Pavilion. The purpose of this Agreement is to provide you with our understanding of **RACE's** Scope of Services and estimated fees to perform these services. The services are to be provided to the **Town of Fairfield** ("Client").

1. SCOPE OF SERVICES:

The following paragraphs identify the specific Scope of Services to be provided. **RACE's** Scope of Services will include the following Phases:

Phase 1: Coastal Analysis of Foundation Elements
Phase 2: Numerical Modeling of Penfield Pavilion Site and Adjacent Upland
Phase 3: Meetings

Services specifically included in the Scope of Services are identified as *Basic Services*. Fees for the *Basic Services* are listed in Section 3 of this Agreement. During the course of the Work, the Client may authorize services that are not specifically included in the Scope of Services. Such services are identified as *Additional Services.* The fees for *Additional Services* are NOT included in the fees for the *Basic Services.* The fees for *Additional Services* are in accordance with Section 3 of this Agreement.

Phase 1: Coastal Analysis of Foundation Elements

RACE will review the building foundation elements (piles, columns, and grade beams) for:

- Wave height transformation
- Wave run-up
- Erosion / Scour
- Wave reflection / diversion
- Water velocity

These will be reviewed for three distinct cases, including existing, proposed interim, and final conditions. Client shall be responsible for providing details on proposed interim and final conditions. Additionally, the Client shall provide current topographic survey and building structural drawings representing existing conditions.

RACE will make a site visit to review existing conditions and obtain 3 sand samples for grain size analyses.

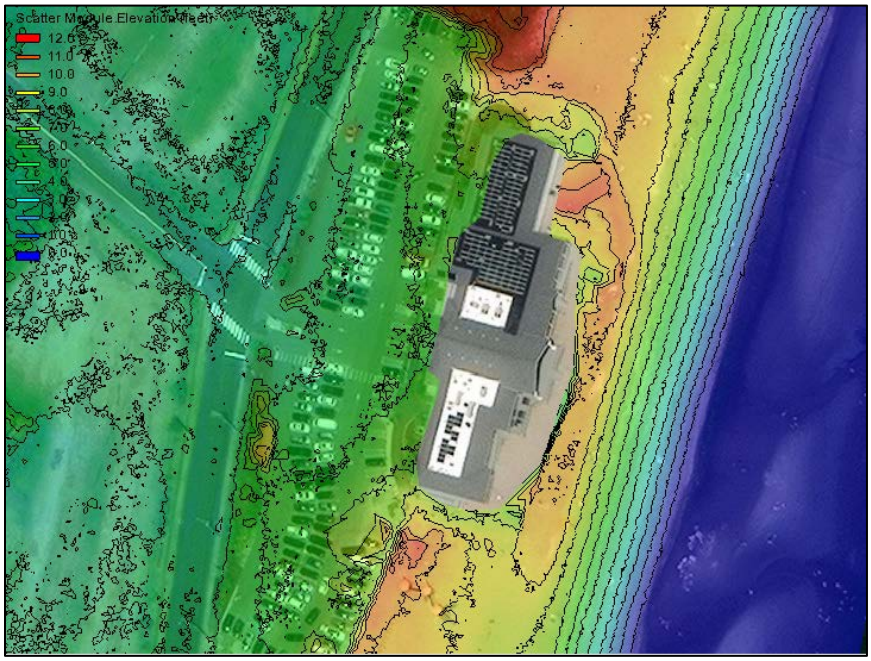
Analysis performed as part of this Phase will include 1-dimension calculations through empirical formulations in both the FEMA P-55 Coastal Construction Manual and U.S. Army Corps of Engineers Coastal Engineering Manual.

These calculations have typically been acceptable to regulatory authorities that review these matters, including FEMA, CT-DEEP, and Local Building and Zoning Officials.

RACE will prepare a calculation package and summary letter including the results of our analysis. Deliverables shall include report and tables summarizing the design loads on the foundation element as well as wave heights, runup elevation, scour depths and water velocities for the existing and proposed conditions.

Phase 2: Numerical Modeling of Penfield Pavilion Site and Adjacent Upland

In our experience, typical 1-D analyses described in Phase 1 scope narrative is typically sufficient for building analysis. However, the Town is being asked to lower the grade approximately two (2) feet at the Penfield Pavilion Site which may result in unintended consequences related to scour and flooding of adjacent upland areas. Based on review of current LIDAR data shown below, this lowering of grade has the potential to create a potential breach in the dune system with a limited section at El. +8'NAVD and remaining adjacent shoreline at El. +10' NAVD to EL. +12' NAVD.



2016 CT LiDAR Data

Based on the above, RACE believes it to be prudent to investigate the macro scale of the building site and not just the foundation elements.

RACE will prepare a 2-D numerical model, CMS-Flow to better understand where the impacts of site grade modification on the site and adjacent upland areas. The analysis will consider the 1% annual event with and without sea level rise as requested in the RFP.

CMS-Flow is a hydrodynamic circulation model developed by the US Army Corps of Engineers Coastal and Hydraulics Laboratory. CMS-Flow is a two-dimensional, depth-integrated model for simulating wave-averaged hydrodynamics and nonuniform sediment transport and morphology change in coastal waters. CMS-Flow is interfaced through the Surface-water Modeling System (SMS) which can provide before and after graphical representation of waves, scour, and flow at the site due to storm events.
RACE will prepare a summary letter of results of our analysis with graphics from the model.

Phase 3: Meetings

As part of Basic Services, RACE will attend 3 meetings with the Town. It is anticipated that these will include a Project Kick-off Meeting, Phase 1 Review Meeting, and Phase 2 Review Meeting. RACE will attend additional meetings as may be requested by the Town as *Additional Service.*

2. EXCLUSIONS AND LIMITATIONS:

The Scope of Services described under Section 1 of this Agreement include specific phases and activities that **RACE** will perform, which are considered as *Basic Services.* Certain information may be required to be provided by others prior to or during the performance of such work which is not part of the *Basic Services*. Work to be performed by others or work not specifically listed as *Basic Services* within the Scope of Services consist of, but are not limited, to the exclusions listed below. The Client may authorize **RACE** to perform any of the Phases listed below or other Phases, and such Phases shall be considered as *Additional Services*.

1. Land surveying
2. Sediment sampling and testing
3. Soil test boring operations
4. Sampling and/or testing (destructive or non-destructive) of materials
5. Professional Design Services other than specifically noted herein
6. Attendance to meetings except as noted herein
7. Regulatory application and other fees that may be required by federal, state, or local agencies
8. Geotechnical investigations and geotechnical engineering
9. Landscape Architecture and preparation of planting plans, plant list, or plant specifications
10. Design of utilities such as electrical, water, and sanitary service
11. Design of storm-water management infrastructure
12. Design of repairs to ancillary structures.
13. Special Inspections
14. Construction Management
15. Corrective revisions due to errors in fabrication or placement of items by a construction contractor or his sub-contractors
16. Review and approval of alternate designs proffered by the contractor
17. Assessment of changes that may be required due to unforeseen conditions
18. Post-Construction survey requirements as may be required by regulatory agencies
19. Reproduction, mailing and courier costs

Basic Services to be provided in this Agreement are based on information provided by the Client. It shall be understood by the Client that conditions may be revealed during the course of the project that were unknown during preparation of this Agreement. Such conditions may require *Additional Services* to be performed.

It shall be understood by the Client that **RACE** has no control over regulatory authorities having jurisdiction, statutes, or site conditions that the project may be subject to. Any opinion of eligibility for authorization of any proposed structure or activity is made on the basis of professional judgment and experience. **RACE** makes no warranty, express or implied, that a proposed structure or activity, in whole or portion thereof, will be authorized by those agencies having jurisdiction.

3. ESTIMATED FEES:

Basic Services

The Scope of Services identified in Section 1 includes the *Basic Services* of this Agreement. The estimated fees for the *Basic Services* are broken down by Phase on the following Fee Schedule. A Retainer Fee in the amount of **$-0-** shall be paid by the Client to **RACE** as a condition to commence service. The retainer shall be applied against the final invoice.

FEE SCHEDULE

Summary Phase Description		Budgeted Hours	Basic Services Fees	Estimated Pass-Thru Fees	Total Basic Services Fees
Phase 1:	Coastal Analysis of Foundation Elements	57	$ 9,473	$ 1,000(1)	$ 10,473
Phase 2:	Numerical Modeling of Penfield Pavilion Site and Adjacent Upland	112	$ 19,260	$ 0	$ 19,260
Phase 3:	Meetings	12	$ 2,520	$ 50(2)	$ 2,570
PROJECT TOTAL		**181**	**$ 31,253**	**$ 1,050**	**$ 32,303**

1. Material Testing – Sieve Analysis
2. Travel

Additional Services

During the course of the Work, the Client may authorize services that are not specifically included in the Scope of Services. Such services are identified as *Additional Services*. The fees for *Additional Services* are NOT included in the fees for the *Basic Services*. All time and materials invoices and all *Additional Services* which may be required or requested by the Client during the performance of the *Basic Services* shall be invoiced per the following Rate Schedule for the professional services indicated. These rates are subject to change at the beginning of each calendar year.

RATE SCHEDULE

POSITION	HOURLY RATE	POSITION	HOURLY RATE
Principal	$225.00	Project Engineer	$150.00
VP of Coastal Engineering	$225.00	Engineer	$130.00
Project Manager	$195.00	Field Technician	$130.00
Senior Engineer	$195.00	CAD Operator	$120.00
Coastal Engineer	$150.00	Administrative	$75.00
Expert Witness Testimony: Court appearances and other expert witness testimony services are invoiced at a fixed rate of $3,500.00 per day. All travel and related expenses are invoiced as reimbursable expenses and include a 10% carrying charge.			

4. GENERAL TERMS AND CONDITIONS:

This Agreement shall be governed by the laws of the State of Connecticut.

Payment Terms All reimbursable expenses shall be invoiced at direct cost plus 10% overhead expense. Reimbursable expenses shall include such expenses as: overnight deliveries; courier services; reproduction of documents; shipping and mailing expenses; and any other disbursement including, without limitation, application fees made on behalf of the Client. The total fee payable, projected prior to commencement of services, if stated, shall be a reasonable estimate subject to change. The final fee shall not exceed by more than 10% of such estimate, exclusive of reimbursable expenses, without prior written approval of the Client. Where the fee arrangement is to be on an hourly basis, the rates shall be those included as a part of this Agreement.

Invoices for professional services shall be submitted, at the option of the Engineer, either upon completion of such services or on a monthly basis. Invoices shall be payable within thirty (30) days after the date of the invoice. All billings over thirty (30) days past due will be subject to interest charges of 1.0% per month on the unpaid balance. In the event that part or all of the account remains unpaid in full, ninety (90) days after initial billing, the Client shall be responsible for all costs of collection including, without limitation, reasonable attorney's fees. This Agreement is notice, where required, that the Engineer shall file a lien whenever necessary to collect past due amounts. Failure to make payment within thirty (30) days of invoice shall constitute a release of **RACE** from any and all claims which client may have, either in tort or contract, and whether known or unknown at the time.

Unconditional Payment Payment to **RACE** is expressly not conditioned upon the Client receiving any payment from third parties who are not a party to this Agreement, such as property owners, developers, funding agencies.

Risk Allowance The parties to this Agreement agree that the risks of the proposed project shall be allocated such the total liability of **RACE** to the Client for any and all claims, injuries, losses, expenses, damages or claim expenses arising out of this Agreement from any cause or causes shall not exceed ten (10) times the total fee for services of **RACE** at the time such claims or causes arise or $100,000, whichever is less. Such claims or causes include, without limitation, negligence, errors, omissions, strict liability, breach of contract and breach of warranty.

Standard of Care The Standard of Care as defined under this Agreement shall mean the rendering of services with the ordinary degree of skill and care that would be used by other reasonably competent practitioners of the same discipline under similar circumstances, and do so in a reasonably careful and prudent manner. Services requested by the Client, which are in the opinion of **RACE**, beyond the normal Standard of Care, are considered as *Additional Services*.

Flow of Work Fees assume a steady progression of the work from start to finish. A start-up fee will be charged to resume work delayed for more than 30 days for any reason. This Agreement for engineering services is based upon the assumption that the Client will provide all required information in a timely manner. **RACE** will not be expected to proceed with portions of his work until necessary information to be provided by the Client and requested in writing by **RACE** has been provided. If the Client requests **RACE** to perform work out of sequence or based upon preliminary information, then additional time required to perform work under these circumstances or to revise work based on revised project data or criteria supplied by the Client will be billable as *Additional Services.*

Opinion of Probable Costs In providing an Opinion of Probable Cost for any construction work, it shall be understood by the Client that **RACE** has no control over the cost or availability of labor, equipment, materials, market conditions, or the Contractors method of pricing. Any Opinion of Probable Cost provided by **RACE** is made on the basis of professional judgment and experience. **RACE** makes no warranty, express or implied, that any bids or negotiated cost of the Work will not vary from the Opinion of Probable Cost provided.

Ownership of Documents All documents produced by **RACE** under this Agreement, such as drawings, specifications, and computer files, are instruments of service and shall remain the property of **RACE** and may not be altered or used by the Client for any other endeavor without the written consent of **RACE**.

Concealed Conditions It is understood by the parties to this Agreement that the evaluation, reconstruction or rehabilitation of an existing structure requires that certain assumptions be made regarding existing conditions which are concealed or otherwise not visible. Some of these assumptions may not be verifiable without significant cost or destroying otherwise adequate and serviceable portions of the structure. Where it is impractical to verify assumptions concerning hidden conditions, **RACE** assumes no responsibility for any additional costs or liabilities associated with existing conditions which deviate from that assumed.

Existing Conditions Information on the existing structures have been obtained from existing drawings, preliminary site visits, and other documents. This Agreement is based upon the assumption that the construction of the existing structures was done in strict accordance with these drawings or with common construction standards and that the existing structural elements are, unless noted herein, in sound condition and are fully permitted with all required regulatory agencies. No attempt has been made to verify the integrity of the existing structures other than what will be explicitly shown on our drawings, and we assume no responsibility for its condition if it should turn out not to be adequate. It shall be the responsibility of the contractor for the construction of the new structure to report to **RACE** immediately any

discrepancies and any evidence of impairment of structural strength found during the course of construction.

Client Provided Information **RACE** shall be entitled to generally rely on the accuracy and completeness of information and documents furnished by Client and by other consultants such as surveys, soil boring logs, geotechnical reports, and working drawings of existing structures. Any substantial inaccuracies in the quality or completeness of information provided which requires a substantial effort to change or correct our work which is based on Client provided information shall constitute a change in the Scope of Services and be subject to the provisions which pertain to *Additional Services*.

Jobsite Safety Neither the professional activities of **RACE**, nor the presence of **RACE** or its sub-consultants at a construction site, shall relieve the General Contractor and any other entity of their obligations, duties, and responsibilities including, but not limited to, construction means, methods, sequences, techniques, or procedures necessary for performing, superintending, or coordinating all portions of the work of construction in accordance with the contract documents and any health or safety precautions required by any regulatory agencies.

Time Period for Accepting Contract This Agreement is valid for a period of 30 days, after which the Consultant reserves the right to review and revise the estimated fee, time schedule, and other terms specified herein.

Alternate Dispute Resolution All claims, counterclaims, disputes and other matters in question between the parties hereto arising out of or relating to this Agreement or breach thereof (except claims by **RACE** or its associates for fees and costs for professional services) will be presented to non-binding mediation, subject to the parties agreeing to a mediator(s).

Contract Signatures The individual executing this Agreement, if acting on behalf of a partnership, corporation, or funding agency, represents that he has the authority to do so.

Discovery of Unanticipated Hazardous Materials Hazardous materials or certain types of hazardous materials may exist where there is no reason to believe they could or should be present. **RACE** and the Client agree that the discovery of unanticipated hazardous materials constitutes a changed condition mandating a renegotiation of the scope of work. The Client and **RACE** also agree that the discovery of unanticipated hazardous materials may make it necessary for **RACE** to take immediate measures to protect human health and safety, and/or the environment. **RACE** agrees to notify the Client as soon as practically possible should unanticipated hazardous materials or suspected hazardous materials be encountered. The Client encourages **RACE** to take any and all measures that in **RACE'**s professional opinion are justified to preserve and protect the health and safety of **RACE**'s personnel and the public, and/or the environment, and the Client agrees to compensate **RACE** for the additional cost of such work. In addition, the Client waives any claims against **RACE** and agrees to indemnify for injury or loss arising from **RACE**'s encountering unanticipated hazardous materials or suspected hazardous materials. The Client also agrees to compensate **RACE** for any time spent and any expenses incurred by **RACE** in defense of any such claim, with such compensation to be based upon **RACE**'s prevailing fee schedule and expense reimbursement policy.

Indemnification The Client agrees to hold harmless and indemnify **RACE** for and against all claims, damages, awards and costs of defense arising out of delays in or failures of **RACE**'s performance resulting from events beyond the control of **RACE**. The Client agrees to stipulate within the contract documents between the Contractor and the Client, that the Contractor or Client shall purchase and maintain, during the course of construction, "all-risk" builder's risk insurance in a reasonable amount of coverage which names **RACE**, the Contractor, the Client, and the Client's agents as additional insureds.

Delivery of Electronic Files In accepting and utilizing any drawings, reports and data on any form of electronic media generated and furnished by **RACE**, the Client agrees that all such electronic files are instruments of service of **RACE**, who shall be deemed the author, and shall retain all common law, statutory law and other rights, including copyrights. The Client agrees not to reuse these electronic files, in whole or in part, for any purpose other than for the Project. The Client agrees not to transfer these electronic files to others without the prior written consent of **RACE**. The Client further agrees to waive all claims against **RACE** resulting in any way from any unauthorized changes to or reuse of the electronic files for any other project by anyone other than **RACE**. The Client and **RACE** shall agree upon the format for any electronic files furnished by either party prior to the initiation of work. Any changes to the electronic specifications by either the Client or **RACE** are subject to review and acceptance by the other party. Additional services by **RACE** made necessary by changes to the electronic file specifications shall be compensated for as *Additional Services*. Electronic files furnished by either party shall be subject to an acceptance period of thirty (30) days during which the receiving party agrees to perform appropriate acceptance tests. The party furnishing the electronic file shall correct any discrepancies or errors detected and reported within the acceptance period. After the acceptance period, the electronic files shall be deemed to be accepted and neither party shall have any obligation to correct errors or maintain electronic files.

The Client is aware that differences may exist between the electronic files delivered and the printed hard-copy construction documents. In the event of a conflict between the signed construction documents prepared by **RACE** and electronic files, the signed or sealed hard-copy construction documents shall govern. In addition, the Client agrees, to the fullest extent permitted by law, to indemnify and hold harmless **RACE**, its officers, directors, employees and sub-consultants against all damages, liabilities or costs, including reasonable attorneys' fees and defense costs, arising from any changes made by anyone other than **RACE** or his designate from any reuse of the electronic files without the prior written consent of **RACE**. Under no circumstances shall delivery of electronic files for use by the Client be deemed a sale by **RACE**, and **RACE** makes no warranties, either express or implied, of merchantability and fitness for any particular purpose. In no

event shall **RACE** be liable for indirect or consequential damages as a result of the Client's use or reuse of the electronic files, unless those damages are a result of an error or omission which is shown on both the hard-copy documents and the electronic files.

Termination

(1) This Agreement between the Client and **RACE** may be terminated by either party and shall be deemed effective upon receipt of seven (7) days prior written notice.

(2) If this Agreement is terminated during the course of performance of the work, **RACE** shall be paid within seven (7) days of such termination the reasonable value of the services performed during the period prior to the effective date of termination.

(3) If, prior to termination of this Agreement, any work by **RACE** during any phase of the work is suspended in whole or in part for more than three (3) months or abandoned after written notice from the Client, **RACE** shall be paid for such services performed prior to receipt of such notice.

5. AUTHORIZATION

We are prepared to undertake this project upon of receipt of your written authorization to proceed. Please sign this Agreement and return one fully executed copy and the requested retainer fee to this office. We recommend that you retain a copy for your records. If you have any questions, please do not hesitate to contact the undersigned. We are looking forward to working with you on this project.

OFFERED BY:	**AUTHORIZED BY**:
(SIGNATURE)	(authorized signatory) (Date)
Devin J. Santa, P.E. President	
(printed name/title)	(printed name/title)
RACE COASTAL ENGINEERING, INC.	**Town of Fairfield** For (Client Name)

Weston & Sampson

273 Dividend Road, Rocky Hill, CT 06067
Tel: 860.513.1473

February 24, 2023

Mr. Thomas R. Bremer
Chief Administrative Officer
Sullivan Independence Hall, Second Floor
725 Old Post Road
Fairfield, CT 06824

Re: **Penfield Pavilion Remediation Support**
Town of Fairfield
323 Fairfield Beach Road, Fairfield, Connecticut

Dear Mr. Bremmer

Weston & Sampson Engineers, Inc. (Weston & Sampson) is pleased to provide the Town of Fairfield (Town) with this proposal to support remediation efforts at the Penfield Pavilion (Site) and to prepare the required closure documents. Fill used during construction at the Site is classified by the Connecticut Department of Energy and Environmental Protection (CT DEEP) as a solid waste and must be remediated in accordance with the requirements of Consent Order No. 2020002DEEP (the CO) dated October 27, 2020. Removal with offsite disposal has been selected as the remedial alternative to be implemented at this Site.

PROJECT UNDERSTANDING

Fill materials from the Aggregate Recycling Facility were used during the reconstruction of the Penfield Pavilion. Materials from that facility are known to be impacted with asbestos, polychlorinated biphenyls (PCBs), extractable total petroleum hydrocarbons (ETPH), select metals, and polynuclear aromatic hydrocarbons (PAHs) and are classified as Solid Waste by the CT DEEP. As such, remediation is required by the CO and the selected remedial option for this Site is to remove the Solid Waste fill materials and to arrange for offsite disposal. Because of the presence of PCBs review of the RAP by the United States Environmental Protection Agency (EPA) was required. A Remedial Action Plan (RAP) was prepared and submitted to EPA and CT DEEP under a previous proposal.

Weston & Sampson has completed negotiations with CT DEEP and EPA concerning the RAP and no further comments on the document will be made by either agency. As part of the response to EPA comments, the Town agreed to perform a limited soil sampling program at the Site and Weston & Sampson has completed that work as well and will prepare a summary report for submittal to the Town, EPA, and CT DEEP.

The removal actions will be performed as part of a larger overall construction project for the Penfield Pavilion. As such, the Town has requested that Weston & Sampson coordinate with the other members of the Town's Construction team. Weston & Sampson has and will continue to participate in meetings regarding the construction and has provided the RAP to the construction team. Weston & Sampson will also prepare technical specifications and contract drawings related to the environmental work only for inclusion in a bid package for the entire project. It has been assumed that the construction and environmental work at the Site will be performed in a single phase and that Weston & Sampson will prepare a single set of drawings and specifications for the entire scope of the environmental work. When bids are received, Weston & Sampson will aid the Town and the project team in the review of bids. Weston & Sampson has also prepared a remedial cost estimate for the environmental portion of the work for use by the Town in public meetings.

Weston & Sampson will provide oversight for remediation activities during construction. The remediation oversight personnel will be responsible for documenting work progress in field notes and with photographs and will collect post-excavation verification samples.

Following completion of construction at the Site, Weston & Sampson will install three groundwater monitoring wells and perform post-remediation groundwater monitoring as required by CT DEEP. Upon the completion of the groundwater monitoring, Weston & Sampson will prepare and submit a Remedial Action Report (RAR) for submittal to EPA that addresses the remediation of PCBs at the Site. Weston & Sampson will also prepare a final report for

submittal to CT DEEP that documents all of the sampling performed at the Site and demonstrates that remedial goals have been achieved. These documents will be sufficient to close out the Site as per the CO.

SCOPE OF WORK

The Scope of Work described in this proposal includes:

- Already completed regulatory negotiations with EPA and CT DEEP and the additional soil sampling negotiated with the regulatory agencies and submittal of a summary report describing the findings;
- Preparation of Bid Documents, i.e., technical specifications and contract drawings, for the environmental portion of the work and participation in construction meetings with the project team;
- Remediation oversight including collection of information required for post-remediation submittals as stated in the CO and post-excavation verification sampling; and
- Post-remediation groundwater monitoring and completion of reports to be submitted to CT DEEP and EPA.

Regulatory Negotiations and Soil Sampling

Weston & Sampson has provided response to comments from both EPA and CT DEEP. Negotiations have been completed and both CT DEEP and EPA have indicated that they will provide no additional comments. Weston & Sampson has also completed sampling in the parking lot that was requested by EPA. The data collected will be summarized in a letter report that will include a description of the sampling, boring logs and photographs of soil removed at each location, figures showing sample locations, tables summarizing the analytical data, and recommendations for future actions. PCBs were not detected in any of the samples collected and debris, indicating the possible presence of solid waste fill from the Aggregate Recycling Facility, was not noted in the soil borings. Thus, the letter report will state that no further actions are required.

Bid Documents

Weston & Sampson has generated a list of technical specifications and bid items for the remediation scope of work and this has been accepted by the Town's project team. Weston & Sampson will complete the technical specifications and contract drawings and submit to the Town's project team for review and comment. The bid documents will be finalized and submitted to the Town for inclusion in the final bid package.

Following award of the remedial contract, Weston & Sampson will collect waste profiling samples from around and beneath the building for the selected remedial contractor. The sample results will be used by the remedial contractor to complete waste profiles for the soil to be disposed.

Remediation Oversight

Weston & Sampson will provide remediation oversight for each day that removal of solid waste fill is being performed. Weston & Sampson personnel will be responsible for documenting daily activities through field logs and site photographs. Weston & Sampson personnel will also collect post-excavation verification samples. Sample results will be reviewed upon receipt and instructions provided to the remedial contractor as to 1) completion of remedial excavations in that area or 2) the need for additional excavation. If additional excavation is required, Weston & Sampson will indicate to the remedial contractor the area and depth of additional excavation work to be performed. Air monitoring, including that required for the required for the excavation areas for asbestos, will be performed by the remedial contractor. Weston & Sampson will obtain that data from the remedial contractor for inclusion in the final RAR. The remedial contractor will also be responsible for communications with the Connecticut Department of Public Health (CT DPH) to obtain approvals required to excavate asbestos impacted soil.

Costs provided for remediation oversight assumes that Weston & Sampson personnel will be onsite for a total of fifty (50) days. Weston & Sampson will credit the Town if the number of days onsite is less than that assumed. If the remediation takes longer than anticipated, Weston & Sampson will provide the Town with a change order documenting the extra days spent onsite and the associated costs.

All verification samples will be submitted to Alpha Analytical Laboratory with a 72-hour turnaround time and all analytical data will be reported following the CT DEEP Reasonable Confidence Protocol (RCP) as required in the CO. Costs for verification sampling have been developed based upon the following sample count:

- 45 samples analyzed for total PCBs using EPA Methods 3540 and 8082;
- 80 samples analyzed for PAHs by EPA Method 8270;
- 80 samples analyzed for ETPH using the CT DEEP Method;
- 80 samples analyzed for arsenic and lead using EPA Method 6010; and
- 10 samples analyzed for asbestos using Transmission Electron Microscopy (TEM).

Weston & Sampson will document the number and type of samples collected and will credit the Town if the total number of samples collected is less than that assumed. Weston & Sampson will provide the Town with a change order documenting costs and number of samples if the number of post-excavation verification samples collected is greater than that assumed.

Reporting and Groundwater Monitoring

Following the completion of soil remediation, Weston & Sampson will prepare:

1) Figures showing verification sample locations;
2) Tables summarizing the verification sample results; and
3) A summary report for the PCB-related soil excavations with tables, figures, and waste manifests for submittal to EPA.

Following the completion of the construction at the Site, Weston & Sampson will install three groundwater monitoring wells. One monitoring well will be located within the parking lot and the other two will be installed in the beach, downgradient of the remedial excavations. Weston & Sampson will develop the wells one-week after installation. Weston & Sampson will sample the three monitoring wells for four quarters following development. Samples will be collected and analyzed for total PCBs by EPA Method 8082, PAHs by EPA Method 8270 using selected ion monitoring (SIM) to achieve reporting limits low enough to demonstrate compliance with applicable remedial criteria, ETPH by CT DEEP Method, arsenic and lead by EPA Method 6010, and asbestos by TEM.

Following the completion of groundwater monitoring, Weston & Sampson will prepare a table summarizing groundwater data and a figure showing monitoring well locations. The groundwater table and figure will be combined with the soil sampling data and provided to CT DEEP in a RAR for submittal to CT DEEP.

PROJECT SCHEDULE

Weston & Sampson has completed certain tasks as described above. Tasks not yet completed and the schedule to perform the work is as follows:

- The summary soil report for additional sampling requested by EPA will be completed within one week of receipt of this signed proposal.
- Weston & Sampson understands that the Town is working through a period of public communication prior to finalizing bid documents for this project. The documents have been drafted and will be finalized on a schedule agreed to between the Town and Weston & Sampson. Waste Profile soil sampling will be completed within one week of award of the project work and the data provided to the selected contractor within three weeks of award.
- Weston & Sampson will provide remediation oversight personnel on a schedule agreed to between Weston & Sampson and the remedial contractor.
- The PCB soil RAR will be provided to the Town for review and comment one month after the completion of PCB remediation. The PCB soil RAR will be submitted electronically to EPA once comments have been received and resolved. The final RAR for submittal to CT DEEP will be submitted to the Town for comment one month after the completion of groundwater monitoring. The groundwater monitoring will take approximately one year to complete following the completion of construction at the Site. The final RAR will be submitted electronically to CT DEEP once comments have been received and resolved.

PROJECT FEE

Our proposed lump sum cost for the scope of work described above is $227,000 and a cost breakdown by task is provided in the table below.

Task	Labor	Subs/ODCs	Subtotal
Regulatory Negotiations and Soil Sampling	$8,200	$2,900	$11,100
Bid Documents	$26,620	$5,680	$32,300
Remediation Oversight	$64,820	$63,980	$128,800
Reporting and Groundwater Monitoring	$43,640	$11,160	$54,800
Totals	**$143,280**	**$83,720**	**$227,000**

Work will be performed under the General Terms and Conditions previously agreed to between the Town and Weston & Sampson.

If you have any questions, comments, or concerns regarding this proposal, please do not hesitate to contact Malcolm Beeler via phone at 860-986-7929 or email at beelerm@wseinc.com.

Sincerely,
WESTON & SAMPSON ENGINEERS, INC.

Malcolm A. Beeler, LEP
Senior Technical Leader

John Figurelli, PG, LEP
VP, Discipline Lead

Accepted By:

Signature

CHIEF ADMINISTRATIVE OFFICER
Title

March 31, 2023
Date

WESTON & SAMPSON GENERAL TERMS AND CONDITIONS

1. It is understood that the Proposal attached hereto and dated January 28, 2020 is valid for a period of ninety (90) days. Upon the expiration of that period of time or the delay or suspension of the services, WESTON & SAMPSON reserves the right to review the proposed basis of payment and fees, to allow for changing costs as well as to adjust the period of performance to conform to work loads. References herein to WESTON & SAMPSON are understood to refer to WESTON & SAMPSON ENGINEERS, INC.

2. Invoices will be submitted periodically (customarily on a monthly basis), and terms are net cash, due and payable upon receipt of invoice. If the OWNER fails to make any payment due to WESTON & SAMPSON for services and expenses within thirty (30) days after receipt of WESTON & SAMPSON'S statement therefor, WESTON & SAMPSON may, after giving seven (7) days' written notice to the OWNER, suspend services under this Agreement. Unless payment is received by WESTON & SAMPSON within seven (7) days of the date of the notice, the suspension shall take effect without further notice. In the event of a suspension of services, WESTON & SAMPSON shall have no responsibility to the OWNER for delay or damage caused the OWNER because of such suspension of services.

3. WESTON & SAMPSON will serve as the professional representative of the OWNER as defined by the Proposal or under any Agreement and will provide advice, consultation and services to the OWNER in accordance with generally accepted professional practice consistent with that degree of skill and care ordinarily exercised by practicing design professionals performing similar services in the same locality, at the same site and under the same or similar circumstances and conditions. Therefore, estimates of cost, approvals, recommendations, opinions, and decisions by WESTON & SAMPSON are made on the basis of WESTON & SAMPSON'S experience, qualifications and professional judgment. Accordingly, WESTON & SAMPSON does not warrant or represent that bids or negotiated prices will not vary from the OWNER'S budget for the project, or from any estimate of the Cost of the Work evaluation prepared or agreed to by WESTON & SAMPSON. WESTON & SAMPSON makes no warranty or guarantee, express or implied, regarding the services or work to be provided under this Proposal or any related Agreement. Notwithstanding any other provision of these General Terms and Conditions, unless otherwise subject to a greater limitation, and to the fullest extent permitted by law, the total liability in the aggregate, of WESTON & SAMPSON and their officers, directors, employees, agents, and independent professional associates, and any of them, to OWNER and any one claiming by, through or under OWNER, for any and all injuries, claims, losses, expenses, or damages whatsoever arising out of in any way related to WESTON & SAMPSON's services, the project, or this Agreement, from any cause or causes whatsoever, including but not limited to, the negligence, errors, omissions, strict liability, breach of contract, misrepresentation, or breach of warranty of WESTON & SAMPSON or WESTON & SAMPSON's officers, directors, employees, agents or independent professional associates, or any of them, shall not exceed the greater of $50,000 or the total compensation received by WESTON & SAMPSON hereunder and OWNER hereby releases WESTON & SAMPSON from any liability above such amount. WESTON & SAMPSON shall have no upfront duty to defend the OWNER but shall reimburse defense costs of the OWNER to the same extent of its indemnity obligation herein.

4. Where the Services include subsurface exploration, the OWNER acknowledges that the use of exploration equipment may alter or damage the terrain, vegetation, structures, improvements, or the other property at the Site and accepts the risk. Provided WESTON & SAMPSON uses reasonable care, WESTON & SAMPSON shall not be liable for such alteration or damage or for damage to or interference with any subterranean structure, pipe, tank, cable, or other element or condition whose nature and location are not called to WESTON & SAMPSON'S attention in writing before exploration begins.

5. WESTON & SAMPSON and its consultants shall have no responsibility for the discovery, presence, handling, removal or disposal of, or exposure of persons to, hazardous waste in any form at the project site. Accordingly, the OWNER agrees to assert no claims against WESTON & SAMPSON, its principals, agents, employees and consultants, if such claim is based, in whole or in part, upon the negligence, breach of contract, breach of warranty, indemnity or other alleged obligation of WESTON & SAMPSON or its consultants, and arises out of or in connection with the detection, assessment, abatement, identification or remediation of hazardous materials, pollutants or asbestos at, in,

under or in the vicinity of the project site identified in the Proposal. OWNER shall defend, indemnify and hold harmless WESTON & SAMPSON, its principals, agents, employees, and consultants and each of them, harmless from and against any and all costs, liability, claims, demands, damages or expenses, including reasonable attorneys' fees, with respect to any such claim or claims described in the preceding sentence, whether asserted by OWNER or any other person or entity. WESTON & SAMPSON shall not be liable for any damages or injuries of any nature whatsoever, due to any delay or suspension in the performance of its services caused by or arising out of the discovery of hazardous substances or pollutants at the project site.

6. WESTON & SAMPSON agrees to purchase at its own expense, Worker's Compensation insurance, Comprehensive General Liability insurance, and Engineer's Professional Liability insurance and will, upon request, furnish insurance certificates to OWNER reflecting WESTON & SAMPSON's standard coverage. WESTON & SAMPSON agrees to purchase whatever additional insurance is requested by OWNER (presuming such insurance is available, from carriers acceptable to WESTON & SAMPSON) provided OWNER reimburses the premiums for additional insurance.

7. As a part of this Agreement, OWNER without cost to WESTON & SAMPSON agrees to do the following in a timely manner so as not to delay the services of WESTON & SAMPSON:

    a. Designate in writing a person to act as OWNER'S representative with respect to work to be performed under this Agreement, such person to have complete authority to transmit instructions, receive information, interpret and define OWNER'S policies and decisions with respect to materials, equipment elements and systems pertinent to the work covered by the Agreement.

    b. Through its officials and other employees who have knowledge of pertinent conditions, confer with WESTON & SAMPSON regarding both general and special considerations relating to the Project.

    c. Assist WESTON & SAMPSON by placing at the disposal of WESTON & SAMPSON, all available information pertinent to the Project including previous reports and other data relative to design or construction of Project.

    d. Furnish or cause to be furnished to WESTON & SAMPSON all documents and information known to OWNER that relate to the identity, location, quantity, nature or characteristics of any hazardous waste at, on or under the site. In addition, OWNER will furnish or cause to be furnished such other reports, data, studies, plans, specifications, documents and other information on surface and subsurface site conditions required by WESTON & SAMPSON for proper performance of its services.

    e. WESTON & SAMPSON shall be entitled to rely, without liability, on the accuracy and completeness of information and documents provided by the OWNER, OWNER'S CONSULTANTS and CONTRACTORS and information from public records, without the need for independent verification.

    f. Pay for all application and permit fees associated with approvals and permits for all governmental authorities having jurisdiction over the Project and such approvals and consents from others as may be necessary for completion of the Project.

    g. Arrange for and make all provisions for WESTON & SAMPSON and its agents to enter upon public and private lands as required for WESTON & SAMPSON to perform its work under this Agreement.

    h. Furnish WESTON & SAMPSON with all necessary topographic, property, boundary and right-of-way maps.

    i. Cooperate with and assist WESTON & SAMPSON in all additional work that is mutually agreed upon.

    j. Pay WESTON & SAMPSON for work performed in accordance with terms specified herein.

8. The obligation to provide further services under this Agreement may be terminated by either party upon thirty days' written notice in the event of substantial failure by the other party to perform in accordance with the terms hereof through no fault of the terminating party. If the Project is suspended or abandoned in whole or in part for more than three (3) months, WESTON & SAMPSON shall be compensated for all services performed prior to receipt of written notice from OWNER of such

suspension or abandonment, together with the other direct costs then due. If the Project is resumed after being suspended for more than three (3) months, WESTON & SAMPSON'S compensation shall be equitably adjusted. In the event of termination by either party, WESTON & SAMPSON shall be compensated for all services performed prior to receipt of written termination, together with other direct costs then due, including WESTON & SAMPSON's independent consultants, and for the services necessary to affect termination.

9. The OWNER and WESTON & SAMPSON waive all rights against each other and against the contractors, consultants, agents and employees of the other for damages, but only to the extent covered by any property or other insurance in effect whether during or after the project. The OWNER and WESTON & SAMPSON shall each require similar waivers from their contractors, consultants and agents.

10. All Drawings, diagrams, plans, specifications, calculations, reports, processes, computer processes and software, operational and design data, and all other documents and information produced in connection with the project as instruments of service, regardless of form, shall be confidential and the property of WESTON & SAMPSON, and shall remain the sole and exclusive property of WESTON & SAMPSON whether the project for which they are made is executed or not. The OWNER shall not have or acquire any title to or ownership rights in any of the documents or information prepared by WESTON & SAMPSON. OWNER may make and retain copies for information and reference in connection with the use and occupancy of the Project by the OWNER and others; however, such documents are not intended or represented to be suitable for reuse by OWNER or others on extensions of the Project or on any other Projects. Any reuse without written verification or adaptation by WESTON & SAMPSON for the specific purpose intended will be at OWNER'S sole risk and without liability or legal exposure to WESTON & SAMPSON or to WESTON & SAMPSON's independent consultants, and OWNER shall indemnify and hold harmless WESTON & SAMPSON and WESTON & SAMPSON's independent consultants from all claims, damages, losses, and expenses, including attorneys' fees arising out of or resulting therefrom. Any such verification or adaptation will entitle WESTON & SAMPSON to further compensation at rates to be agreed upon by OWNER and WESTON & SAMPSON.

11. The substantive laws of the Commonwealth of Massachusetts shall govern any disputes between WESTON & SAMPSON and the OWNER arising out of the interpretation and performance of this Agreement.

12. WESTON & SAMPSON and the OWNER agree that any disputes arising under this Agreement and the performance thereof shall be subject to nonbinding mediation as a prerequisite to further legal proceedings.

13. WESTON & SAMPSON shall not be required to sign any documents, no matter by who requested, that would result in WESTON & SAMPSON having to certify, guaranty, or warrant the existence of conditions that would require knowledge, services or responsibilities beyond the scope of this Agreement.

14. Nothing contained in this Agreement shall create a contractual relationship with, or a cause of action in favor of, a third party against either the OWNER or WESTON & SAMPSON. WESTON & SAMPSON'S services hereunder are being performed solely for the benefit of the OWNER, and no other entity shall have any claim against WESTON & SAMPSON because of this Agreement or WESTON & SAMPSON'S performance of services hereunder.

15. Notwithstanding anything to the contrary contained herein, OWNER and ENGINEER agree that their sole and exclusive claim, demand, suit, judgment or remedy against each other shall be asserted against each other's corporate entity and not against each other's shareholders, A/E's, directors, officers or employees.

16. To the extent they are inconsistent or contradictory, express terms of this Proposal take precedence over these General Terms and Condition. It is understood and agreed that the services or work performed under this Proposal or any Agreement are not subject to any provision of any Uniform Commercial Code. Any terms and conditions set forth in OWNER'S purchase order, requisition, or other notice or authorization to proceed are inapplicable to the services under this Proposal or any related Agreement, except when specifically provided for in full on the face of such purchase order, requisition, or notice or authorization and specifically accepted in writing by WESTON & SAMPSON. WESTON & SAMPSON'S acknowledgement of receipt of any

purchase order, requisition, notice or authorization, or WESTON & SAMPSON'S performance of work subsequent to receipt thereof, does not constitute acceptance of any terms or conditions other than those set forth herein.

17. If any provision of this Agreement shall be finally determined to be invalid or unenforceable in whole or in part, the remaining provisions hereof shall remain in full force and effect, and be binding upon the parties hereto. The parties agree to reform this Agreement to replace any such invalid or unenforceable provision with a valid and enforceable provision that comes as close as possible to the intention of the stricken provision.

Approved by:

_____
OWNER Name

_____
Signature Date

_____
Printed Name and Title

Document2

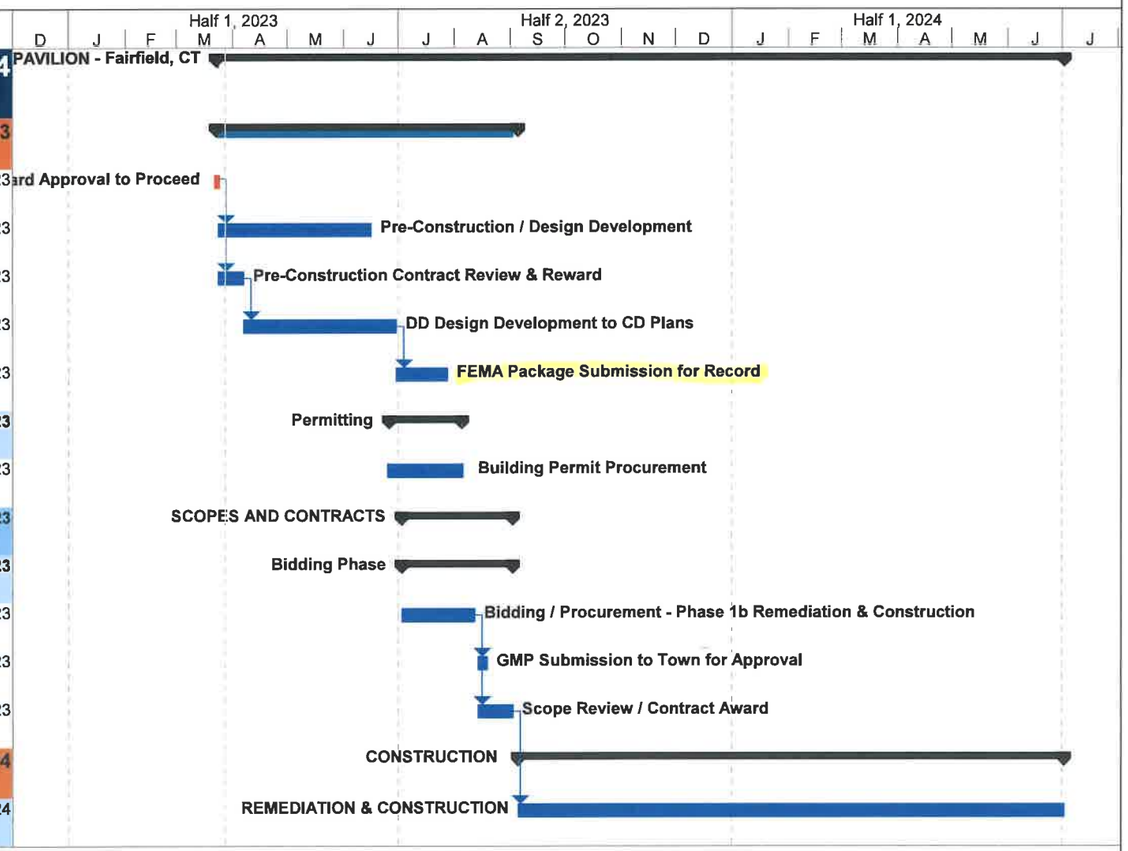
TOWN OF FAIRFIELD

PENFIELD PAVILION PROJECT

Project Schedule

March 2023

ID	Task Name	Duration	Start	Finish
1	**PENFIELD BEACH PAVILION - Fairfield, CT**	**333 days**	**Thu 3/23/23**	**Mon 7/1/24**
2	**PRE-CONSTRUCTION**	**118 days**	**Thu 3/23/23**	**Mon 9/4/23**
3	Board Approval to Proceed	1 day	Thu 3/23/23	Thu 3/23/23
4	Pre-Construction / Design Development	60 days	Fri 3/24/23	Thu 6/15/23
5	Pre-Construction Contract Review & Reward	10 days	Fri 3/24/23	Thu 4/6/23
6	DD Design Development to CD Plans	60 days	Fri 4/7/23	Thu 6/29/23
7	FEMA Package Submission for Record	20 days	Fri 6/30/23	Thu 7/27/23
8	**Permitting**	**30 days**	**Mon 6/26/23**	**Fri 8/4/23**
9	Building Permit Procurement	30 days	Mon 6/26/23	Fri 8/4/23
10	**SCOPES AND CONTRACTS**	**45 days**	**Mon 7/3/23**	**Fri 9/1/23**
11	**Bidding Phase**	**45 days**	**Mon 7/3/23**	**Fri 9/1/23**
12	Bidding / Procurement - Phase 1b Remediation & Construction	30 days	Mon 7/3/23	Fri 8/11/23
13	GMP Submission to Town for Approval	5 days	Mon 8/14/23	Fri 8/18/23
14	Scope Review / Contract Award	15 days	Mon 8/14/23	Fri 9/1/23
15	**CONSTRUCTION**	**215 days**	**Tue 9/5/23**	**Mon 7/1/24**
16	**REMEDIATION & CONSTRUCTION**	215 days	Tue 9/5/23	Mon 7/1/24



Project: Pavilion - Schedule
Date: Tue 3/28/23

Task	Project Summary	Inactive Summary	Manual Summary	External Milestone
Split	External Tasks	Manual Task	Start-only	Progress
Milestone	External Milestone	Duration-only	Finish-only	Deadline
Summary	Inactive Milestone	Manual Summary Rollup	External Tasks	

Penfield Pavilion

	Anticipated Total Costs	Grade Beam Repair	Remediation	General Construction & Misc Fees
	$ 11,500	**$ 3,000**	**$ 5,500**	**$ 3,000**
I. Existing Conditions-Prepare Site for Construction				
II. Concrete Work				
III. Metals-Structural Steel				
IIII. Wood, Plastics, & Composites				
A. Structural Wood Framing				
B. New Building Skirting				
C. New Decks, Ramps, Railings, and Stairs				
IV. Roofing				
V. Earthwork				
VI. Exterior Improvements				
A. Re-Landscape				
B. New Concrete Walks				
C. New Concrete Stairs				
VII. Utilities				
A. Reconnect Utilities				
B. Roof Leader Drainage System				
C. New Concrete Stairs				
VIII. Professional Services				
A. Construction Manager-Bismark (Pre-Construction)				$ 74
B. Architect- Joseph Sepot				$ 245
C. Coastal Engineering and Flood Impact-Race Engineering				$ 32
D. Remediation Consulting Services-Weston & Sampson			$ 227	
VIIII. Soft Costs				
A. Builder's Risk Insurance				
B. Owner Contingency				
C. Contingency				
X. Remediation				
A. Excavation and Disposal of Contaminated Soil				
Total Project	**$ 11,500**			

* Coastal engineering study and update of previous resiliency study pertaining to Penfield Pavilion not included.

REFUNDS SUBMITTED FOR APPROVAL
5/1/2023

Name	List No.	Tax	Interest	DMV	Bill	Reason
2021 MOTOR VEHICLE						
A & A QUALITY HOME IMPR LLC	2021 03 50004	$360.38				OVERPAID DUE TO ADJUSTMENT
ANDREWS GARY P	2021 03 51407	$16.56				OVERPAID DUE TO ADJUSTMENT
BICKEL JOHN A	2021 03 53336	$67.47				OVERPAID IN ERROR
BRAUN DAVID K & NANCY D	2021 03 54287	$163.99				OVERPAID IN ERROR
BRAUN JAE S	2021 03 54293	$60.32				OVERPAID DUE TO ADJUSTMENT
CARROLL PATRICIA A	2021 03 55922	$258.37				OVERPAID IN ERROR
CCAP AUTO LEASE LTD	2021 03 56384	$375.22				OVERPAID DUE TO ADJUSTMENT
CHAUFFEURED LIMOUSINE SERV	2021 03 56977	$980.10				OVERPAID DUE TO ADJUSTMENT
CHIBWE PIERRO	2021 03 57095	$57.38				OVERPAID IN ERROR
COCKFIELD RICHARD A	2021 03 57681	$241.49				OVERPAID IN ERROR
CONETTA BRYAN D	2021 03 57969	$124.90				OVERPAID IN ERROR
COWIE BRIAN J	2021 03 58501	$39.24				OVERPAID DUE TO ADJUSTMENT
CROMWELL RIDGELY H	2021 03 58654	$135.80				OVERPAID IN ERROR
DIMOPOULOS GEORGE	2021 03 60804	$88.40				OVERPAID IN ERROR
EMANUEL JOSEPH D	2021 03 62279	$89.98				OVERPAID IN ERROR
FEROLETO STEEL COMPANY INC	2021 03 63340	$144.95				OVERPAID DUE TO ADJUSTMENT
FERRARO ROBERT F	2021 03 63371	$66.47				OVERPAID IN ERROR
FESTA EMILY A	2021 03 63426	$47.04				OVERPAID DUE TO ADJUSTMENT
FESTA FRANCES A	2021 03 63427	$102.70				OVERPAID IN ERROR
FESTA MICHAEL R	2021 03 63429	$388.58				OVERPAID IN ERROR
FLINK PETER H	2021 03 64467	$12.91				OVERPAID DUE TO ADJUSTMENT
G&B SHELLFISH INC	2021 03 65189	$333.28				OVERPAID DUE TO ADJUSTMENT
GARDINER NANCY	2021 03 65552	$45.55				OVERPAID DUE TO ADJUSTMENT
GEORGIADIS DRU M	2021 03 65897	$409.96				OVERPAID IN ERROR
GEORGIADIS MARTIN R	2021 03 65898	$327.97				OVERPAID IN ERROR
GORDON FREDDA C	2021 03 66618	$174.46				OVERPAID DUE TO ADJUSTMENT
GOSSELIN LORRAINE S	2021 03 66673	$76.82				OVERPAID IN ERROR
HARRIS CHRISTOPHER J	2021 03 67850	$21.86				OVERPAID DUE TO ADJUSTMENT
JACOBS JANICE G	2021 03 70802	$14.96				OVERPAID DUE TO ADJUSTMENT
KARPEL YOLANDA	2021 03 72332	$41.78				OVERPAID DUE TO ADJUSTMENT
KISH LOUISE	2021 03 73144	$248.98				OVERPAID IN ERROR
LASKO ROBERT E	2021 03 74516	$174.06				OVERPAID IN ERROR
LUDORF RICHARD & CATHERINE	2021 03 75850	$21.25				OVERPAID DUE TO ADJUSTMENT
MARTERE RONALD F JR	2021 03 76887	$168.35				OVERPAID IN ERROR
MASON CRAIG K	2021 03 77075	$111.09				OVERPAID DUE TO ADJUSTMENT
MASON CRAIG K	2021 03 77076	$133.21				OVERPAID IN ERROR
NISSAN INFINITI LT LLC	2021 03 80649	$170.16				OVERPAID DUE TO ADJUSTMENT
NISSAN INFINITI LT LLC	2021 03 80760	$308.48				OVERPAID DUE TO ADJUSTMENT
NISSAN INFINITI LT LLC	2021 03 80888	$411.32				OVERPAID DUE TO ADJUSTMENT
PILIERO JOSEPH A	2021 03 83436	$371.69				OVERPAID IN ERROR
TOYOTA LEASE TRUST	2021 03 91392	$322.12				OVERPAID DUE TO ADJUSTMENT
TOYOTA LEASE TRUST	2021 03 91412	$371.74				OVERPAID DUE TO ADJUSTMENT
TOYOTA LEASE TRUST	2021 03 91480	$632.16				OVERPAID DUE TO ADJUSTMENT
TOYOTA LEASE TRUST	2021 03 91764	$161.26				OVERPAID DUE TO ADJUSTMENT
TOYOTA LEASE TRUST	2021 03 91801	$286.82				OVERPAID DUE TO ADJUSTMENT
TOYOTA LEASE TRUST	2021 03 92103	$810.40				OVERPAID DUE TO ADJUSTMENT
VAULT TRUST	2021 03 93261	$444.28				OVERPAID DUE TO ADJUSTMENT
NISSAN INFINITI LT LLC	2021 03 97169	$235.74				OVERPAID DUE TO ADJUSTMENT
TOYOTA LEASE TRUST	2021 04 87404	$233.86				OVERPAID DUE TO ADJUSTMENT
TOTAL		**$10,885.86**				
2021 PERSONAL PROPERTY						
DIKKO & ASSOCIATES LLC	2021 02 32020	$43.31				OVERPAID IN ERROR

GOPINATHJI LLC	2021 02 37250	$946.73		OVERPAID IN ERROR
MASI JOHN J CO INC	2021 02 37678	$183.33		OVERPAID IN ERROR
BLUSH TAN OF FAIRFIELD LLC	2021 02 38053	$80.92		OVERPAID IN ERROR
TOTAL		**$1,254.29**		

2021 SEWER USE

160-162 SAWYER ROAD ASSOC	2021 08 02389	$150.00		OVERPAID IN ERROR
MINOGUE SUZANNE K	2021 08 04369	$50.00		OVERPAID IN ERROR
BOOS JONATHAN T	2021 08 05742	$192.06		OVERPAID IN ERROR
LERCHEN PETER WILLIAM DOUG	2021 08 06137	$14.32		OVERPAID IN ERROR
AEL REAL ESTATE GROUP LLC	2021 08 06414	$512.16		OVERPAID IN ERROR
SUCHY PETER F & KATHLEEN	2021 08 06852	$267.72		OVERPAID IN ERROR
KALAPIR ANDRE & KATHLEEN	2021 08 08991	$65.25		OVERPAID IN ERROR
HATHEWAY JOAN MCKENNA	2021 08 11473	$150.00		OVERPAID IN ERROR
RIENDEAU MATTHEW	2021 08 14891	$541.74		OVERPAID DUE TO ADJUSTMENT
ELLETSON CARMELLA D	2021 08 15019	$45.24		OVERPAID IN ERROR
DICAIRANO ANTHONY T	2021 08 16056	$157.14		OVERPAID IN ERROR
DERI DAWN M TAGLIAVIA	2021 08 16165	$27.00		OVERPAID IN ERROR
POLING GREGORY E	2021 08 16249	$186.24		OVERPAID IN ERROR
2300 FAIRFIELD BEACH ROAD LLC	2021 08 16400	$150.00		OVERPAID IN ERROR
GRANEY ANNE E	2021 08 17070	$238.62		OVERPAID IN ERROR
STUART TIMOTHY J	2021 08 18294	$150.00		OVERPAID IN ERROR
RODRIGUEZ LAURIE A	2021 08 18373	$285.18		OVERPAID IN ERROR
SASCO 10 LLC	2021 08 19253	$337.56		OVERPAID IN ERROR
CARAMICO LISA A TRUSTEE	2021 08 20533	$150.00		OVERPAID IN ERROR
SCHOLAN GAIL C & JAMES D	2021 08 20698	$81.48		OVERPAID DUE TO ADJUSTMENT
BUNDHOO ARVIN S & ELENA	2021 08 21649	$27.03		OVERPAID IN ERROR
TOTAL		**$3,778.74**		

2020 REAL ESTATE

VITALE RONALD G	2020 01 08737	$2,106.58		OVERPAID IN ERROR
TOTAL		**$2,106.58**		

2020 MOTOR VEHICLE

DAIMLER TRUST	2020 03 58958	$924.34		OVERPAID DUE TO ADJUSTMENT
DELANEY KYLE P	2020 04 82207	$359.59	$ 11.12	OVERPAID DUE TO ADJUSTMENT
TOTAL		**$1,283.93**	**$ 11.12**	

2020 SEWER USE

KANE GREGORY T & NICOLE P	2020 08 03404	$21.12		OVERPAID IN ERROR
KIMBALL JUDITH F	2020 08 11086	$145.50		OVERPAID IN ERROR
TOTAL		**$166.62**		

TOTAL TAX	**$19,476.02**
TOTAL INTEREST	**$11.12**
GRAND TOTAL	**$19,487.14**