GENERAL FUND HVAC IMPROVEMENTS
PHASE II EXTEND CHILLED WATER PIPING
CENTRAL CONNECTICUT STATE UNIVERSITY, NEW BRITAIN, CONNECTICUT
PROJECT: BI- RC – 339D

BID OPENING	**1:00 P.M.**	**SEPTEMBER 15, 2010**
ADDENDUM NO. 3	**ADDENDUM DATE**	**SEPTEMBER 7, 2010**

The following items address requests for information, and apply to drawings and Project Manual Technical Specification (hereinafter referred to as "specifications") issued for the subject project.

1. For Information: Specification section 23 00 00 "Summary of Work" paragraph 1.02, 5a - refers to Development of a - Construction Safety Program". The third paragraph from the bottom contains the words "The Construction Safety Program shall include onsite monitoring to assure compliance. Onsite monitoring shall be ongoing whenever work is performed." This addendum reconfirms - The Construction Safety Program shall be as specified.

2. For Information: Please refer to specification section 23 05 30, PART 1 – GENERAL, subparagraphs 1.03 C&D, apply to both, welded and seamless piping, and PART 2 – PRODUCTS, paragraph 1.02 sub-paragraph 1. This addendum reconfirms - carrier pipe shall be as specified.

   For Information: Please refer to specification section 23 05 10, PART 1 – GENERAL, subparagraphs 1.04 L&M, apply to both, welded and seamless piping, and PART 2 – PRODUCTS, paragraph 2.01 sub-paragraph 2A. This addendum reconfirms - pipe shall be as specified.

3. For Information: Please refer to drawing M-6 and notes that apply to "Supplemental Bid...". This addendum reconfirms – the scope of the work defined by the supplemental bid. No additional work or valves shall be required – other than that - specified.

4. Please refer to 23 05 45 "Chemical Water Treatment" PART 2 – PRODUCTS, sub-paragraph 2D, regarding the Side Stream Filtration Unit. This addendum adds the following words to the end of paragraph 2D, "The new Side Stream Filtration Unit shall be capable of 0.5 micron particle filtration, shall be designed for proper operation at 225 psig, and shall be capable of utilizing city water when backwashing.

5. For Information: Please refer to specification section 23 05 45 "Chemical Water Treatment" subparagraph 1.01 E, which contains the words, "Identify the chemical composition, solution, and concentrations, of the existing closed chilled water system". This addendum confirms - the work shall be as specified.

6. For Information: The operating pressure of the secondary chilled water system varies by location - along the length of supply and return piping. According to mfr's data – the shut-off head of the existing secondary chilled water pump(s) is 275 feet. The existing secondary chilled water pump(s) are piped in parallel and shall remain in service following completion of the subject project.

7. For Clarification: Please refer to drawings M-0, M-4, and M-7. This addendum confirms that the new chilled water supply and return piping running from - the tunnel junction marked 1SW to the tunnel junction at Catherine Beecher Hall - shall be 10 inches in diameter.

All questions must be in writing (not phone or e-mail) and must be forwarded to the consulting Architect/Engineer – Lawrence Mechanical, P.C., fax #203 966 0549, with copies sent to the DPW Project Manager – Mr. Lee Rowley, fax #860 713 7261.

End of Addendum 3

Mellanie Walton for
David Busanet, Bidding & Contracts Supervisor
Department of Public Works

GENERAL FUND HVAC IMPROVEMENTS
PHASE II EXTEND CHILLED WATER PIPING
CENTRAL CONNECTICUT STATE UNIVERSITY, NEW BRITAIN, CONNECTICUT
PROJECT: BI- RC – 339D

BID OPENING	**1:00 P.M.**	**SEPTEMBER 15, 2010**
ADDENDUM NUMBER 2	**ADDENDUM DATE**	**SEPTEMBER 2, 2010**

The following items address requests for information, and unanswered questions posed during the Pre-Bid Conference18-Aug-10, and apply to drawings and Project Manual Technical Specification (hereinafter referred to as "specifications") issued for the subject project.

1. Please refer to specifications section 20 02 50. The Header now reads: DIVISION 23, "Mechanical Insulation", section 20 02 50. This addendum changes the section number to 23 02 50.

2. Please refer to notes on drawing M-1. This addendum changes all references as follows: Division 15 to Division 23. No. 1 change Division 15 to 23. Change 15000 to 23 00 00. No. 8 change Division 15 to 23 and 15545 to 23 05 45. #No.9 change Division 15 to 23 and 15545 to 23 05 45.

3. For Clarification: Regarding the use of foreign materials, section 00 72 00 article 36.1 applies.

4. For Clarification: Regarding correction of rejected work, section 00 72 00 article 21 applies.

5. For Clarification: Regarding restrictions on work hours, normal work hours shall be - weekdays from 7:00 AM to 3:30 PM, except – no work shall be permitted within any dormitory before 9:00 AM. Refer to section 00 72 00 article 37, Division 01 sections 01 14 00, and 01 14 16, for additional requirements.

6. For Information: Gate valves and/or butterfly valves, consistent with specifications, may be provided.

7. Please refer to specification section 01 23 00 "Supplemental Bids" paragraph 'D' Schedule of Supplemental Bids. This addendum reverses the numbering as follows: Supplemental Bid 1 shall become Supplemental Bid 2, and Supplemental Bid 2 shall become Supplemental Bid 1. In other words, the Kaiser supplemental becomes # 1 and the DiLoreto / Willard supplemental becomes # 2.

8. Please refer to specification section 23 05 30 "Pre-insulated Piping System"

   PART 1 – GENERAL, paragraph 1.01, sub paragraph B., This addendum changes the words "Underground hot water ..." to read "Underground chilled water ..." Paragraph 1.02, this addendum deletes the words "similar to Xtru-Therm Gold as manufactured by Perma-Pipe or engineer equal". Paragraph 1.07, this addendum deletes sub-paragraph 'C'.

   PART 2 – PRODUCTS, paragraph 1.02 sub-paragraph 1 this confirms carrier pipe shall be as specified. Regarding sub-paragraph 4c, this confirms insulation thickness shall be as specified.

   PART 3 – EXECUTION, paragraph 5.01 sub paragraph 'H', This addendum replaces text in paragraph 'H'. Sub-paragraph 'H', as revised, shall read, "The carrier pipe shall be tested at 225 psig, and maintain test pressure for a minimum of four hours."

   Sub-paragraph 'K', this addendum adds the following text at the end of paragraph 'K', "Refer to section 23 00 00 sub-paragraphs 1.16 Excavating, 1.17 Trenching, and 1.21 Backfilling, for additional requirements".

   Sub-paragraph 'L', this addendum adds the following text at the end of paragraph 'L', "Refer to section 23 01 21 - Expansion Compensation - for additional requirements".

9. For Clarification: Please refer to underground piping expansion loops on drawing M-8. The expansion loops for underground piping shall be sized in accordance with specifications section 23 01 21 "Expansion Compensation" paragraph 1.04 "Design Criteria". Provide a minimum of four 90-degree elbows for each underground loop. Provide additional elbows (facing up /down) only where additional flexibility is required.

10. For Clarification: Specification section 23 00 00 "Summary of Work" paragraph 1.02, 5b - refers to radiographic testing for welded steel pipe joints. Factory welded steel pipe joints fabricated for the "Pre-insulated Piping System" and meeting the requirements of section 23 05 30 are not subject to the requirements of section 23 00 00 paragraph 1.02, 5b pertaining to radiographic testing. Field welded steel pipe joints fabricated for the "Pre-insulated Piping System" are subject to the requirements of section 23 00 00 paragraph 1.02, 5b.

11. Please refer to drawing M-8, and the note with eight bullets on the lower right hand side of M-8. The fourth bullet from the top reads "Remove existing valves". The scope of the work - related to providing new 14" ChW S&R piping in the Kaiser Hall Tunnel Spur – includes removing the two existing valves that had been installed in stub branches – at the tunnel spur - for future use, in addition to providing all other work indicated. The two existing branch valves and stub branches installed for future use - referenced above - are 10 inches in diameter.

12. For Information: There are two existing secondary chilled water pumps, both are located on the lower level of the Energy Center. Both are fitted with 500 HP electric motors and each is designed to pump 4,600 gpm nominally. A single pump is designed to operate with the second pump available as standby, under normal conditions.

13. For Information: Existing plate & frame heat exchangers designed to receive chilled water for air conditioning serve the following buildings: Copernicus Hall, Student Center, Student Center Addition, Sheridan Hall, Gallaudet Hall, Burritt Library, Vance School of Business, Welte Hall, and Marcus White Annex.

14. For Information: Please refer to specifications section 01 35 19 "Confined Space Entry" paragraph 6; sub-paragraph 02 for the definition of a "Confined Space".

15. Please refer to drawing M-3, and the note near the Davidson Hall heat exchanger (HX), located towards the middle / top of the sheet. The note reads "Cut & cap existing lines. Furnish & install new blind flanges". This addendum deletes the aforementioned note.

16. Please refer to drawing M-0, detail "Access Hatch Ladders – Typical". A new ladder is required at each location where access to the utility tunnel is via grade level galvanized steel-hinged doors, and as indicated on the drawings. New ladders shall be as indicated on the contract documents and shall meet the requirements of OSHA Standard 1910.27 "Fixed Ladders" with side rails capable of extending to a height of 3-1/2 feet above the existing steel hinged access doors.

17. For Information: Please refer to drawings M-1.1 and M-1.2, "Powerhouse Floor Plan..." and the note that appears on both drawings near the Stor Room to the lower left hand side of the floor plan that reads "Proposed location of FUTURE opening and fire rated doors". The opening and doors are not within the scope of the project.

18. For Information: Please refer to specifications section 23 05 45 "Chemical Water Treatment" paragraph 2.01. Sub-paragraph 'C' reads, "The contractor may utilize existing Chemical Feeding and filtration equipment". An existing chemical shot feeder serves the existing chilled water system. The existing chemical shot feeder is operated under the supervision of plant personnel.

19. Please refer to specification section 23 00 00 "Summary of Work" paragraph 1.03, sub-paragraph 'AA'. This addendum replaces text in paragraph 'AA':

    Paragraph 'AA', as revised, shall read, "The restoration of the integrity of all watertight construction, including that of utility tunnel roofs, disturbed by the work, shall be the responsibility of the contractor."

20. For Clarification: Please refer to drawing M-11 "Typical Pipe Trench Sections". The empty 2" PVC conduit for future signal shall extend beyond the full length of the respective trench and terminate within the respective building / tunnel. Provide an accessible pull-cord for each empty conduit.

21. For Information: Drawing LP-1 "Location Plan" in addition to showing the relative location of buildings, the drawing also shows the outline of drawings M-1 through M-8. Please note the outline of drawings M-1 through M-8, as depicted, on LP-1 is only a rough approximation of the area actually covered by the respective drawing, and is intended for general orientation only. The actual area covered by each respective drawing (M-1 through M-8) may not overlap or abut an adjacent drawing area. In addition, the actual area covered by each respective drawing (M-1 through M-8) may overlap the area covered by an adjacent drawing. In other words, collectively, drawings M-1 through M-8 may show the same

area more than once or not at all. Drawing M-0 shows the areas in question without overlapping or duplication.

22. Please refer to specifications section 23 05 15 "Hydronic Specialties and Equipment" paragraph 1.02 "Flow Balancing Devices". This addendum replaces text in paragraph 1.02:

    Paragraph 1.02, as revised, shall read, "Flow Balancing Devices shall be: Straight pattern valve designed to perform the functions of a non-slam check valve, positive shut-off valve, throttling valve, calibrated balancing valve, and system flow-meter; similar to ITT Bell & Gossett Model 3DS Triple Duty Valves. Valve shall be heavy-duty iron construction with standard 125 psig ANSI flanged connections, rated for a maximum working pressure of 175 psig at 250 degrees F. Valve shall be fitted with EPDM soft seat, replaceable bronze disc, stainless steel stem, and chatter-preventing spring. The valve design shall permit repacking under full system pressure. Each valve shall be equipped with brass readout valves with integral check valve for taking differential pressure readings across the orifice to accurately balance the system to specified design conditions.

23. Please refer to specifications section 23 05 15 "Hydronic Specialties and Equipment" paragraphs 1.04, 1.05, and 1.06. This addendum deletes paragraphs 1.04, 1.05, and 1.06.

24. Please refer to drawing M-11, detail at the lower right hand side of the sheet "General Arrangement Pipe Mains at Marcus White Tunnel". This addendum changes the words "Connect new 14inch Chilled Water S&R ..." to read as follows: Connect new 12 inch Chilled Water S&R ...".

25. This addendum adds sixteen (16) additional 14-inch diameter butterfly valves & blind flanges to be installed into the 24 inch primary chilled water loop located on the main and lower levels of the Energy Center. The new valves shall be installed at the points where 14-inch diameter blind flanges already exist, and includes removing the existing blind flanges, but does not require cutting-in new connections, or insulation repairs. The valves shall be installed while the chilled water system has been drained, as follows:

    Furnish and install eight (8) valves into the existing 24" overhead primary S&R loop located on the main floor of the Energy Center for new chillers. Furnish and install eight (8) valves into the existing 24" overhead primary S&R loop located on the lower level of for new pumps.

    By way of background – during construction of the Energy Center a certain number of blind flanges (without valves) were provided for future equipment. Since it is anticipated new chillers may be installed in the foreseeable future, and since the chilled water system will be drained under the subject project, in the interest of avoiding draining / filling again, this addendum adds the required valves.

26. For Clarification: Please refer to specifications section 23 02 50 "Mechanical Insulation" paragraph 3.03 "Insulation Schedule" for type of insulation to be provided for New Chilled Water Supply & Return piping, and paragraph 2.04 "Accessory Materials" for accessories, including PVC fitting covers. This addendum adds the words "utility tunnels and" to paragraph 3.02 sub-paragraph C7. Sub-paragraph C7, as revised, shall read, "Pipe exposed in utility tunnels and, mechanical spaces, or in finished spaces below 10 feet above finished floor: finish with Zeston 2000 PVC jacket and fittings covers ..."

All questions must be in writing (not phone or e-mail) and must be forwarded to the consulting Architect/Engineer – Lawrence Mechanical, P.C., fax #203 966 0549, with copies sent to the DPW Project Manager – Mr. Lee Rowley, fax #860 713 7261.

End of Addendum 2

Wellance Walton for

David Busanet, Bidding & Contracts Supervisor
Department of Public Works

GENERAL FUND HVAC IMPROVEMENTS
PHASE II EXTEND CHILLED WATER PIPING
CENTRAL CONNECTICUT STATE UNIVERSITY, NEW BRITAIN, CONNECTICUT
PROJECT: BI- RC – 339D

BID OPENING	**1:00 P.M.**	**SEPTEMBER 15, 2010**
ADDENDUM NUMBER ONE (1)	**DATE OF ADDENDUM**	**AUGUST, 3, 2010**

The following clarifications are applicable to drawings and specifications for the project referenced above.

Item 1

In accordance with the requirements of the Project Manual, specification section 00 40 15 - the DAS pre-qualification classification shall include, "Heating Ventilation, and Air Conditioning" (HVAC) in addition to DAS classification "Group 'A'".

Item 2

Refer to Project Manual, specification section 00 01 10, "Table of Contents" page 5 of 6. This Addendum deletes the word "MECHANICAL" from the heading at the top of page 5. The heading at the top of page shall read "Heating, Ventilating and Air conditioning".

All questions must be in writing (not phone or e-mail) and must be forwarded to the consulting Architect/Engineer - Lawrence Mechanical, P.C. fax # 203 966 0549, with copies sent to the DPW Project Manager - Mr. Lee Rowley fax # 860 713 7261.

End of Addendum Number One (1)

David Busanet, Bidding & Contracts Supervisor
Department of Public Works

INVITATION TO BID

FOR PROJECTS ESTIMATED TO COST MORE THAN $500,000.00

ADV. NO.: 11-03 ADV. DATE: July 30, 2010

SEALED BIDS FROM CONTRACTORS WHO HAVE BEEN PREQUALIFIED IN THE DAS CLASSIFICATION NOTED BELOW SHALL BE ADDRESSED TO THE DEPARTMENT OF PUBLIC WORKS - STATE OF CONNECTICUT FOR:

Project Title:	General Fund HVAC Improvements, Phase II Extend Chilled Water Piping Central Connecticut State University New Britain, CT
Project Number:	BI-RC-339D
DAS Classification:	Group A – General Building Construction
Special Requirement:	The bidder should be aware of the requirement for providing and implementing a comprehensive safety plan for all work on this project. This will require the successful bidder to provide an independent safety consultant to monitor the on-going project operations.
Cost Estimate Range:	$1,836,000. – $2,029,000.
Plans & Specs Ready For Sale Date:	August 4, 2010
A NON-REFUNDABLE FEE OF PER SET IS REQUIRED	$40.00 Checks should be made payable to "Treasurer, State Of Connecticut" and should *include* the prospective bidder's correct mailing address, email address, telephone and fax numbers. USE A SEPARATE CHECK FOR EACH PROJECT.
Examination or Purchase of Plans & Specs	at the State Of Connecticut, Department Of Public Works, Plans And Specifications Section, Room No. G-36, 165 Capitol Avenue, Hartford, CT 06106, during the hours of 7:30 A.M. to 3:00 P.M. (Monday-Friday) or by addressing a request to the above address with your Fedex number.
Pre-Bid Conference:	All prospective bidders are required to attend a MANDATORY Pre-Bid Conference
Pre-Bid Conference Time	to be held AT 10:00 A.M.
Pre-Bid Conference Date	ON August 18, 2010
Pre-Bid Conference Location	AT 1615 Stanley Street (Wells Street), New Britain, CT, meet in the conference room #2, East Hall.
Pre-Bid Conference Registration	All prospective bidders are required to *properly* register. *Proper* registration means that the attendee has *signed* his or her name to the official roster and *listed* the name and address

	of the company he or she represents on the official roster no later than the designated start time of the pre-bid conference. No attendee will be allowed to register *after* the advertised start time of the pre-bid conference. Bids submitted by contractors who have *not properly* registered and attended the pre-bid conference shall be *rejected* as non-responsive.
Pre-Bid Conference Contact	Robert Lebaron, Director of Engineering @ 860-637-4397
BID OPENING DATE:	September 15, 2010
Receipt of Bid Package	Bids will be received at the State Office Building, 165 Capitol Avenue, Hartford, CT, 06106 in Room No. G-36 UNTIL 1:00 P.M. on the date shown above and thereafter publicly opened and read aloud in Room No. G-32.
Bid Results:	Bid results are posted on the DPW Website in approximately two (2) days after the bid opening date.
Set-Aside Participation	25%
Including MBE	6.25%
Gift And Campaign Contribution Certification	If awarded the subject contract and the contract has a value of $50,000 or more the contractor will be required to sign and submit, at the time of contract execution, a Gift And Campaign Contribution Certification. See the DPW home page, http://www.ct.gov/dpw, click on Affidavits. For the purposes of signing the Certification, the "date DPW began planning" the subject project or services is such date noted below.
Date DPW Began Planning the Subject Project:	9/8/04
Summary and Affidavit Regarding State Ethics	Any one seeking a contract with a value of more than $500,000 shall provide with their bid an Ethics Affidavit *located* at CT DPW Website (www.ct.gov/dpw). Failure to provide this affidavit with the bid proposal shall result in rejection of the bid.
Bid Security	As security, *each* bid must be accompanied by a CERTIFIED CHECK made payable to "Treasurer, State of Connecticut," or the bid must be accompanied by a BID BOND, in the form required by the awarding authority and having surety thereto such Surety Company or Companies as are authorized to do business in this State and/or accepted by the Commissioner of the Department of Public Works for an amount not less than 10% of the bid.
Bidders are advised that *both* the DEPARTMENT OF ADMINISTRATIVE SERVICES PREQUALIFICATION CERTIFICATE and UPDATE STATEMENT must accompany the bid proposal for projects *estimated* to *exceed* Five Hundred Thousand Dollars ($500,000.00) (C.G.S. 4b-91 as amended). *Failure to supply them with the bid will result in rejection of the bid*	
Department of Administrative Services (DAS) Contractor Prequalification Program: http://www.das.state.ct.us/Purchase/New_PurchHome/Busopp.asp	
To access Executive Orders: http://www.ct.gov/governorrell/cwp/browse.asp?a=1719&bc=0&c=18433	
To access the Department of Public Works Web Site: http://www.ct.gov/dpw	

Performance and Labor and Material Bonds to be furnished by the bidder awarded the contract shall be an amount not less than 100% of the contract price.

The Commissioner reserves the right to do any of the following without liability, including but not limited to: (a) waive technical defects in the bid proposal as he or she deems best for the interest of the State; (b) negotiate with a contractor in accordance with Connecticut General Statutes Section 4b-91;(c) reject any or all bids; (d) cancel the award or execution of any contract prior to the issuance of the "Notice To Proceed;" and, (e) advertise for new bids.

Nonresident contractors: At the time of contract signing a certificate from the Commissioner of Revenue Services must be provided which evidences that C.G.S. 12-430 for non-resident contractors has been met. For details call the Department of Revenue Services at (860) 541-3280, ext. 7.

EXECUTIVE ORDERS:

The Contract is subject to the provisions of Executive Order No. Three of Governor Thomas J. Meskill, promulgated June 16, 1971, concerning labor employment practices, Executive Order No. Seventeen of Governor Thomas J. Meskill, promulgated February 15, 1973, concerning the listing of employment openings and Executive Order No. Sixteen of Governor John G. Rowland promulgated August 4, 1999, concerning violence in the workplace, all of which are incorporated into and are made a part of the Contract as if they had been fully set forth in it. At the Contractor's request, the Client Agency shall provide a copy of these orders to the Contractor. The Contract may also be subject to Executive Order No. 7C of Governor M. Jodi Rell, promulgated July 13, 2006, concerning contracting reforms and Executive Order No. 14 of Governor M. Jodi Rell, promulgated April 17, 2006, concerning procurement of cleaning products and services, in accordance with their respective terms and conditions.

This contract is subject to the provisions of the Department of Public Works Sexual Harassment Policy ("Policy") and, as such, the contract may be canceled, terminated, or suspended by DPW for violation of or noncompliance with said Policy. Said document is hereby incorporated herein by reference and made a part hereof as though fully set forth herein. This policy may be found at the Department of Public Works Website at http://www.ct.gov/dpw, under Publications.

All technical questions must be in writing (not phoned or emailed) and faxed to the Architect/Engineer with a copy to the DPW Project Manager listed below.

Architect/Engineer/ Consultant:	Lawrence Mechanical, P.C.	Fax No:	203-966-0549
Construction Administrator	Lawrence Mechanical P.C.	Fax No:	203-966-0549

DPW Project Manager:	Lee Rowley	Fax No:	860-713-7261

All bid questions should be addressed to the Officer listed below.

Associates Fiscal Administrative Officer:	Mellanee Walton	Fax No:	(860) 713-7395

Contract Time Allowed: 420 Calendar Days

Liquidated Damages: $ $1,575.00 Per Calendar Day beyond Substantial Completion

$ 2,476.00 Per Calendar Day beyond ninety (90) days after Substantial Completion

Prevailing Wage Rates: Prevailing wages are required on this project, in accordance with the schedule provided in the bid documents, pursuant to Connecticut General Statutes Section 31-53 (a) through (h), as amended.

Each contractor who is awarded a contract on or after October 1, 2002 shall be subject to provisions of the Connecticut General Statutes, Section 31-55a concerning annual adjustments to prevailing wages.

Wage Rates will be posted each July 1st on the Department of Labor website: www.ctdol.state.ct.us . Such prevailing wage adjustment shall not be considered a matter for any contract amendment.

The wages paid on an hourly basis to any mechanic, laborer or workman employed upon the work herein contracted to be done and the amount of payment or contribution paid or payable on behalf of each such employee to any employee welfare fund, as defined in subsection (h) of section 31-53 of the Connecticut General Statutes, 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 employees to any such employee welfare fund shall pay to each employee as part of his wages the amount of payment or contribution for his classification on each pay day.

Procurement
Department of Public Works