From Erik Jeannette <ejeannette@iconergy.com>
Subject **BVSD BCSIS/ High Peaks**
To Travis Cook <travis.cook@bvsd.org>, Gene Temanson <gene.temanson@bvsd.org>
Cc Dallas McCoy <dmccoy@iconergy.com>, Kris Stoppenhagen <kris.stoppenhagen@bvsd.org>, Dillon Recen <dillon.recen@bvsd.org>
Date June 6, 2024 9:49:43 AM MDT

Hi Gene,
Attached is the design proposal for the supplemental electric heaters we talked about yesterday. We are going to look through the electrical plans to see if there is enough spare capacity to go this route (the last A/C project used up a bit of the spare capacity so it might be close…)
Let us know if you would like to proceed.
Erik

Erik Jeannette, P.E., CCP | Director of Engineering
Mobile: (720) 949-5943 | EJeannette@iconergy.com
iconergy

From: Travis Cook <travis.cook@bvsd.org>
Sent: Friday, May 31, 2024 11:01 AM
To: Gene Temanson <gene.temanson@bvsd.org>
Cc: Dallas McCoy <dmccoy@iconergy.com>; Kris Stoppenhagen <kris.stoppenhagen@bvsd.org>; Erik Jeannette <ejeannette@iconergy.com>; Dillon Recen <dillon.recen@bvsd.org>
Subject: Re: BVSD BCSIS/ High Peaks

All I have a 12:15 walk at the Culinary Center after the conversion check in on 6/4 that shouldn't last more than an hour. If we get together after that or as Kris said, after 2:15 on Wednesday, 6/5.

Let me know what works for everyone.

Thank you

Travis Cook | HVAC/R Manager
6500 E Arapahoe Rd Boulder, CO 80303
720.561.5044 (office) | 303.591-3044 (mobile)

On Fri, May 31, 2024 at 10:24 AM Gene Temanson <gene.temanson@bvsd.org> wrote:

> Hey Dallas and Erik,
>
> Can we touch base after our Conversion Check In on Tuesday (which runs from 11:00am to 12:00pm)?
>
> gt
>
> Gene Temanson
> gene.temanson@bvsd.org
> 720 561 5951 (o)
> 303 522 8191 (c)
>
> BUILDING FOR STUDENT SUCCESS
> **Gene Temanson**
> *Project Manager*
> 6500 East Arapahoe Road
> Boulder, Colorado 80303
> 720.561.5951 (office)
> 303.522.8191 (mobile)
> bond.bvsd.org
>
> On Fri, May 31, 2024 at 9:56 AM Dallas McCoy <dmccoy@iconergy.com> wrote:
>
> > Kris,
> >
> > Erik will be out on Monday, is there another day next week that will work to discuss?
> >
> > Thank You,
> > **Dallas McCoy, PE** | *Project Engineer*
> > Mobile: 303.453.9533
> > dmccoy@iconergyCO.com
> > Denver, CO | iconergy.com
> > iconergy
> > Consult.Construct. Sustain.
> >
> > ---
> >
> > **From:** Kris Stoppenhagen <kris.stoppenhagen@bvsd.org>
> > **Sent:** Thursday, May 30, 2024 4:50 PM

To: Erik Jeannette <ejeannette@iconergy.com>
Cc: Travis Cook <travis.cook@bvsd.org>; Gene Temanson <gene.temanson@bvsd.org>; Dallas McCoy <dmccoy@iconergy.com>; Dillon Recen <dillon.recen@bvsd.org>
Subject: Re: BVSD BCSIS/ High Peaks

Erik -
I appreciate the detailed summary here and think it is pertinent to have a meeting to discuss scenarios. Schedule alone with a Fall install will not be feasible with school in session along with BCSIS needing to have our bond critical needs scope clarified. Would you have time for a discussion after our Ed Center check in on Monday 6/3?

Kris Stoppenhagen

Executive Director of Bond Planning & Construction

6500 Arapahoe Rd | Boulder, CO 80303

720-561-5045 (office)

(970) 556-2267 (mobile)

bond.bvsd.org

On Wed, May 29, 2024 at 11:14 AM Erik Jeannette <ejeannette@iconergy.com> wrote:

> Hi Gene and BVSD team,
> We met with Travis and Jason and its pretty mind blowing as to how bad the HVAC design is for these spaces. The ERV spaces get 100% outside air when they only need 30% outside air, so that's a very wasteful, energy efficient design. They also did not size the heating coils associated with the ERVs adequately so there is no chance in meeting the space temperature requirements probably anytime the outside air temperature is below 35F. The walls of the North Western area served by the ERVs are block walls with little to no insulation, plus neither the ERV or the ducts serving that area have heating coils and there is no baseboard heat! So that area could use some load calcs to see just how much heat is really needed, which I am sure will be a lot more than just an energy recovery coil can produce. The majority of the ducts might be ok as-is, and this can be confirmed through the design process.
> The conclusion is that ERVs 3&5 need to be replaced with RTUs with economizers / mixed air dampers and heating coils (with circ pumps). All these spaces recently had split DX cooling units installed so it might be fine to leave those in place for cooling and not have to add cooling to the RTUs, which can reduce the weight and electrical requirements of the new RTUs.
> The proposal attached is still applicable to get the design started and put a construction budget in place, but honestly this should be a high priority to get RTUs on order soon with hopes that they could be installed in the Fall of 2024.
> In this process we would also confirm that the existing boilers and hot water pumps have the capacity needed to support the additional heat that will be needed for these spaces.
> Let us know how we can support you for the next steps.
> Erik
>
> **Erik Jeannette, P.E., CCP** | Director of Engineering
> Mobile: (720) 949-5943 | EJeannette@iconergy.com
> **iconergy**
>
> ---
>
> **From:** Travis Cook <travis.cook@bvsd.org>
> **Sent:** Tuesday, April 23, 2024 9:38 AM
> **To:** Gene Temanson <gene.temanson@bvsd.org>
> **Cc:** Dallas McCoy <dmccoy@iconergy.com>; Erik Jeannette <ejeannette@iconergy.com>; Dillon Recen <dillon.recen@bvsd.org>; Kris Stoppenhagen <kris.stoppenhagen@bvsd.org>
> **Subject:** Re: BVSD BCSIS/ High Peaks
>
> Dallas,
>
> Attached are the floor plans from BAS to help clarify which areas are served by each unit. RTUs 3&4 and ERV 4 all have Gas Heat. The areas that are served by ERVs 3&5 are the areas we need help with because the only form of heating in these units is whatever transfer we can get from the heat wheel. The Hot Water Coils downstream on both units are not sized for heating the entire space, therefore, there is not enough heat to bring back to the wheel on extremely cold days.
>
> Let me know if this makes sense and if you are looking for something else.
>
> **Travis Cook | HVAC/R Manager**
> 6500 E Arapahoe Rd Boulder, CO 80303
> 720.561.5044 (office) | 303.591-3044 (mobile)
>
> On Thu, Apr 18, 2024 at 4:18 PM Gene Temanson <gene.temanson@bvsd.org> wrote:
>
> > Hey Dallas - I appreciate you looking into it but early May will be fine if it works for you guys.
> >
> > Hey Travis and Co - Can you answer the questions below?
> >
> > Thanks everyone.

gt

Gene Temanson
gene.temanson@bvsd.org
720 561 5951 (o)
303 522 8191 (c)

Gene Temanson
Project Manager
6500 East Arapahoe Road
Boulder, Colorado 80303
720.561.5951 (office)
303.522.8191 (mobile)
bond.bvsd.org

On Thu, Apr 18, 2024 at 4:16 PM Dallas McCoy <dmccoy@iconergy.com> wrote:

> Gene,
>
> Erik will be out for the next two weeks (coming back on May 6th). I will have him submit you a revised proposal then unless you are needing something sooner. In that case I will revise the proposal and have someone else approve it.
>
> Just to clarify, we were going to look at ERVs 3 & 5 and the areas they serve, but you are looking for that to expand to ERV-04, RTU-3, and RTU-4. Do RTU's 3 & 4 provide heat or is heating just up to ERV-05 in that area?
>
> Thank You,
> **Dallas McCoy, PE** | *Project Engineer*
> Mobile: 303.453.9533
> dmccoy@iconergyCO.com
> Denver, CO | iconergy.com
>
> iconergy
> Consult.Construct. Sustain.
>
> **From:** Gene Temanson <gene.temanson@bvsd.org>
> **Sent:** Thursday, April 18, 2024 9:24 AM
> **To:** Erik Jeannette <ejeannette@iconergy.com>; Dallas McCoy <dmccoy@iconergy.com>
> **Cc:** Dillon Recen <dillon.recen@bvsd.org>; Kris Stoppenhagen <kris.stoppenhagen@bvsd.org>; Travis Cook <travis.cook@bvsd.org>
> **Subject:** Re: BVSD BCSIS/ High Peaks
>
> Thanks Travis and Dillon.
>
> Hey Erik and Dallas - Please revise the proposal to include the areas identified in the attached. Let me know if you have any questions.
>
> Thanks.
>
> gt
>
> Gene Temanson
> gene.temanson@bvsd.org
> 720 561 5951 (o)
> 303 522 8191 (c)
>
> **Gene Temanson**
> *Project Manager*
> 6500 East Arapahoe Road
> Boulder, Colorado 80303
> 720.561.5951 (office)
> 303.522.8191 (mobile)
> bond.bvsd.org
>
> On Wed, Apr 17, 2024 at 2:29 PM Travis Cook <travis.cook@bvsd.org> wrote:
>
> > Dillon,
> >
> > You are correct that everything north of the ramp has issues heating when we dip into the teens and single digits.
> >
> > **Travis Cook | HVAC/R Manager**
> > 6500 E Arapahoe Rd Boulder, CO 80303
> > 720.561.5044 (office) | 303.591-3044 (mobile)
> >
> > On Wed, Apr 17, 2024 at 12:32 PM Dillon Recen <dillon.recen@bvsd.org> wrote:
> >
> > > Gene,

My understanding is that we were having issues with all areas North of the bottom of the ramp, except for the exercise room.

Travis - Can you please confirm the areas we need to address?

Thanks,
Dillon

On Wed, Apr 17, 2024 at 8:15 AM Gene Temanson <gene.temanson@bvsd.org> wrote:

> Hey Dillon,
>
> Is the correct location identified on the proposal? For some reason, I thought we were having trouble on the NW side



Gene Temanson
gene.temanson@bvsd.org
720 561 5951 (o)
303 522 8191 (c)

Gene Temanson
Project Manager
6500 East Arapahoe Road
Boulder, Colorado 80303
720.561.5951 (office)
303.522.8191 (mobile)
bond.bvsd.org

---------- Forwarded message ---------
From: **Erik Jeannette** <ejeannette@iconergy.com>
Date: Tue, Apr 16, 2024 at 5:30 PM
Subject: BVSD BCSIS/ High Peaks
To: Gene Temanson <gene.temanson@bvsd.org>
Cc: Dallas McCoy <dmccoy@iconergy.com>, dillon.recen@bvsd.org <dillon.recen@bvsd.org>

Hi Gene,
Please see the attached SD design / budget proposal for BCSIS/ High Peaks as we discussed recently, and let us know if you have any questions or comments.
Thanks!
Erik

Erik Jeannette, P.E., CCP | Director of Engineering
Mobile: (720) 949-5943 | EJeannette@iconergy.com
Boulder, Colorado | iconergy.com
Energy Consulting + Efficiency Retrofits + Commissioning

--
Dillon Recen | ***Assistant Director - Facilities***

6500 E Arapahoe Rd Boulder, CO 80303
720.561.5277 (office) | 303.668.0952 (mobile)

Attachments:

- Proposal_BVSD_BCSIS Design_Iconergy 060524.pdf

iconergy
www.iconergyco.com
1905 Sherman St. #1040
Denver, CO 80203

June 5, 2024

Gene Temanson
Boulder Valley School District
6600 Arapahoe Rd | Boulder, CO 80303
Gene.Temanson@bvsd.org

Dear Gene:
Thank you for the opportunity to provide BVSD with this proposal for design engineering consulting services to help remedy heating issues that exist within the BCSIS/ High Peaks School. Erik Jeannette, P.E., will be the primary engineer working on this project from Iconergy, and he will be assisted by Dallas McCoy, P.E..

SCOPE OF WORK

Iconergy will provide mechanical, and electrical 100% CD design to alleviate the heating issues in the energy recovery ventilator areas at BCSIS / High Peaks.
The design scope is as follows:

1. ME schematic design to develop a solution to provide adequate heating to all spaces served by ERV3 and ERV5 (See yellow and orange highlighted image below).
    i. Iconergy will review existing conditions and as-built plans
    ii. Iconergy will generate an energy load model to identify the amount of heating that is needed to satisfy the space on a -5F design winter day.
    iii. Iconergy will create a mechanical and electrical design to add (3) electric duct heaters to the main ERV supply air ducts that serve exterior spaces to bring the supply air up to an acceptable temperature so that the reheat coils can heat the spaces to 69F on a design Winter day.



GENERAL ACTIVITIES

Mechanical, Electrical Engineering Design & Construction Administration

1) Field verify existing conditions and HVAC equipment, and duct routing, electrical infrastructure.
2) Perform calculations for required design requirements.
3) Select equipment based on the HVAC load data from the original design solution
4) CA: Review submittals, perform (1) construction site visit, respond to RFIs

Meetings and Site visits

1) Include site visits and design meetings as needed to support the design

EXCLUSIONS / ASSUMPTIONS

Note that this design scope assumes that there is adequate electrical service to cost effectively add electrical duct heaters.

The following are excluded from the scope of services. Iconergy is not obligated to provide any services not specifically outlined. Most of the below scopes can be provided by Iconergy for an additional fee if BVSD desires.

1) Changes to scope of Work, or Owner/client requested design changes resulting from modifications to project.
2) Life cycle cost analysis or return on investment calculations (can be provided as an alternate service).
3) Architectural drawings
4) Commissioning

FEE SCHEDULE

The pricing shown is based on the above proposed scope of work for this project. This is a fixed fee price and invoicing will occur monthly as work progresses. Fees are based on the assumption that the project will run without interruption.

Scope	Fee
100% Design: Mechanical, Electrical	$15,000

Thank you for the opportunity to work with BVSD on this project!

Regards,



Erik Jeannette, P.E., CCP
Iconergy Ltd
720-949-5943
ejeannette@iconergyco.com

GENERAL PROVISIONS

Completion of work: Engineer expects to start services promptly after receipt of client's acceptance of this proposal. Fees are based upon the assumption that the project will proceed without interruption.

Additional Services: Additional Services include all services not specifically described in the Letter of Agreement. Additional services will be billed at hourly rates (can be provided separately) unless a negotiated fee is agreed upon by the parties in writing that will amend this agreement.

Project Information: The Client will furnish the Engineer with full information as to Project requirements including any extraordinary considerations or special services needed, and also make available all pertinent existing data.

Construction Means: Engineer does not assume responsibility for construction means, methods, techniques, sequences or procedures, or for safety precautions and programs in connection with the work, nor does he assume responsibility for the contractor's failure to carry out the work in accordance with the contract requirements or for stopping the work in the event of such failure. Engineer's review of the contractor's performance is not intended to include review of the adequacy of safety measures, in, on or near the construction site.

Construction Review: It is agreed that the services of the Engineer do not extend to or include the review or site observation of the contractor's work or performance. It is further agreed that the client will defend, indemnify and hold harmless the Engineer from any claim or suite whatsoever, including but not limited to all payments, expenses or costs involved, arising from or alleged to have arisen from the contractor's performance or the failure of the contractor's work to conform to the design intent and the contract documents. The Engineer agrees to be responsible for his own or his employees' negligent acts, errors or omissions.

Ownership of Drawings: Engineers' drawings and other work products remain his property whether the project for which they are made is executed or not. They are not to be used by anyone on other projects except by written agreement with the Engineer. Copies of the drawings may be deposited in Client's file with other drawings for the project. All original documents will be retained by the Engineer.

Arbitration: All claims, disputes and other matters in question between the parties to this agreement may be decided by arbitration only upon prior agreement by both parties.

Laws: This agreement shall be governed by the laws of the State of Colorado.

Project Abandonment: If the Project is abandoned, terminated or deferred for a substantial period of time, this agreement may be terminated upon 15 days written notice. Engineer shall be paid for services performed, subject to the maximum limits of compensation previously set forth herein, a sum equal to the hourly rates indicated above times the number of hours incurred up to the end of the 15 day notice of abandonment period, plus all reimbursable costs incurred in connection therewith. Engineer shall provide Client with reproducible copies of all documents completed at the date of abandonment.

Remodeling and Rehabilitation Liability Disclaimer: Inasmuch as the remodeling and/or rehabilitation of any existing building required that certain assumptions be made regarding existing conditions, and because some of these assumptions may not be verifiable without expending additional sums of money, or destroying otherwise adequate or serviceable portions of the building, the Client agrees that, except for negligence on the part of the Engineer, he will hold harmless, indemnify and defend the Engineer from and against any and all claims arising out of professional services provided under this agreement.

Late Payment: If the Client fails to make payment due the Engineer for services and expenses after submission of Engineer's invoice, Engineer, may, after giving notice to Client, suspend services under this Agreement until he has been paid in full all amounts due him for services, expenses and interest. Engineer shall not be held liable for Project delays or Project cost increases because of suspended service. Payment due Engineer and unpaid under this agreement after thirty (30) calendar days from the date on the invoice shall bear interest from the date on the invoice at the rate of one and one-half percent per month, until such time as payment is made.

Legal Expenses: In case suit should be brought because of the breach of any covenant herein contained, on the part of the Client or Engineer, to be kept or performed a breach shall be established and prevailing party shall be entitled to recover all expenses incurred, including reasonable attorney's fees.

Reimbursable Expenses (When applicable as noted in the proposal): Reimbursable expenses means the actual expense incurred directly or indirectly, including handling charges, in connection with Project for: materials, transportation and subsistence incidental thereto; obtaining bids or proposals from contractor(s); toll telephone calls and telegrams; reproduction of reports, drawings, specifications and similar Project related items in addition to those required in the Letter of Agreement.

Termination of Agreement: The obligation to provide further services under this Agreement may be terminated by either party upon a material breach of disagreement to perform in accordance with the terms hereof through no fault of the terminating party. In the event of any termination, Engineer will be paid for all services rendered to the date of termination, all reimbursable expenses and termination expenses.

Successors and Assigns: This agreement shall be binding upon and insure benefit to the heirs, personal representatives, successors and assigns of the parties hereto. Neither the Client nor the Engineer shall assign, sublet or transfer any rights under or interest in (including, but without limitation, moneys that may become due or moneys that are due) this agreement without the written consent of the other, except as stated above and except to the extent that the effect of this limitation may be restricted by law. Unless specifically stated to the contrary in any written consent to an assignment, no assignment will release from discharge the assignor from any duty or responsibility under the Agreement. Nothing contained in this paragraph shall prevent Engineer from employing such independent consultants, associates and subcontractors, as he may deem appropriate to assist him in the performance of services hereunder.

Limitation Of Liability: The Client agrees to limit the Engineer's liability to the Client, Project Owners, and to all construction contractors and subcontractors on the project, due to the engineer's negligent acts, errors or omissions, such that the total aggregate liability of the Engineer to all those named shall not exceed the Engineer's total fee for services rendered on this Project.