Bond Reimbursement and Grant Review Committee Meeting Agenda

December 4, 2019
8:30am - 4:30pm

Anchorage Legislative Information Office, Foraker Conference Room
1500 W. Benson Blvd, Anchorage, Alaska

Audio Teleconference available through free online WebEx application. Meeting Number 806 627 427
1-650-479-3207 Call-in toll number (US/Canada)

Chair: Heidi Teshner

Wednesday, Dec. 4, 2019

Agenda Topics

8:30 – 8:35 AM	**Committee Preparation** • Call-in, Roll Call, Introductions • Chair's Opening Remarks • Agenda Review/Approval • Past Meeting Minutes Review/Approval
8:35 – 8:45 AM	**Public Comment** (additional comments related to agenda topics may be solicited throughout the meeting)

8:45 – 9:30 AM	**Department Briefing**
	• FY2021 CIP Report
	  • Summary Statistics
	  • Initial Priority Lists
	• Statewide Six-year Plan
	• School Capital Project Funding Report
	• Preventive Maintenance Update (PM State of the State)
	• DEED Facilities Book – Data & Updates

9:30 – 10:15	**Briefing Papers** • FY2021 CIP Issues and Clarifications • HB212 Implementation Status • 4 AAC 31.013 "Retro Commissioning" Implementation
10:15 – 10:30 AM	**BREAK**
10:30 – 11:00 AM	**Briefing Papers (Cont.)**

Wednesday, Dec. 4, 2019

Agenda Topics

11:00 – 11:45 AM	**Subcommittee Reports** • Commissioning (Randy Williams) • Design Ratio (Dale Smythe) • Model School (Don Hiley) • Space (Dale Smythe)
11:45 AM – 12:15 PM	**Construction Standards for Cost-effective School Construction** • Model School Subcommittee – anticipated cost recommendations • Model School Subcommittee – building standards recommendations • Design Ratios Subcommittee – school design ratios recommendations • Commissioning Subcommittee – 5-system scoping requirements Action Item: Approve Final 5-System Commissioning Scoping Requirements for inclusion in a department publication
12:15 – 1:30 PM	**LUNCH**
1:30 – 2:15 PM	**Construction Standards for Cost-effective School Construction (Cont.)**
2:15 – 3:15 PM	**Publications Update** • *Guide for School Facility Condition Surveys* • *Cost Format - DEED Standard Construction Cost Estimate Format*
3:15 – 3:45 PM	**Regulations Update** • ASHRAE Standard 90.1 Update
3:45 – 4:00 PM	**BR&GR Work Plan Review**
4:00 – 4:10 PM	**Set Date for Next Meeting**
4:10 – 4:25 PM	**Committee Member Comments**
4:30 PM	**Adjourn**

BOND REIMBURSEMENT & GRANT REVIEW COMMITTEE
April 16 & 17, 2019, Wednesday & Thursday
State Board Room, Juneau
DRAFT MEETING MINUTES FOR APPROVAL

Committee Members Present	Staff	Additional Participants
Heidi Teshner, Chair	Elwin Blackwell	Karen Emberton, Legislative Aide to Rep. Wilson
James Estes	Wayne Marquis	Kent Gamble, HMS
William Glumac	Tim Mearig	Aimee Smith, HMS
Don Hiley	Larry Morris	
David Kingsland	Sharol Roys	
Dale Smythe	Lori Weed	
Randy Williams		

April 16, 2019

CALL TO ORDER and ROLL CALL at 1:01 p.m.

Elwin Blackwell, chair, called the meeting to order at 1:01 p.m. Roll call and introduction of members present; no Senate legislative member appointed; Rep. Tammie Wilson is excused. Quorum of 7 members.

CHAIR'S OPENING REMARKS

Elwin shared his appreciation for every member's effort in being on the committee and taking up the task of the facilities work around the state for school districts. There is a lot of interest in school facilities at this point in time, so there is a great deal of opportunity for this committee to make some progress on school facilities and their management across the state.

REVIEW and APPROVAL of AGENDA

Agenda reviewed and approved as presented by unanimous consent.

REVIEW and APPROVAL of PAST MEETING MINUTES

Minutes reviewed from the December 12, 2018 and February 21, 2019 meetings and approved as submitted by unanimous consent.

NEW MEMBER INTRODUCTIONS

Committee members provided introductions. Lori Weed explained typical meeting protocols.

PUBLIC COMMENT

No public comment.

DEPARTMENT BRIEFING

Tim Mearig thanked members for their participation on the committee and noted that the Senate position has yet to be filled by the Senate president. He expressed appreciation for the legislative designee positions because they provide an important voice to the committee. Noted the new member orientation packet was recently created and feedback could be welcomed by the department.

Tim presented the FY19 Capital Improvement Project (CIP) lists, offered to answer questions on the specific projects. The department received reconsideration requests from three districts on three projects; none of the decisions were appealed. The final lists were approved by the State Board of Education in March 2019.

The DEED *Program Demand Cost Model* will be updated again in 2019. This will be the 18th edition, and it will incorporate the updated geographic cost factors and line item enhancements identified by the Model Alaska School Subcommittee. Publication will be later due to delays in receiving updated wage rates from Department of Labor. Additional agenda item later in the meeting.

An excerpt of the report to the legislature on school construction and major maintenance funding is provided. A report on the Regional Education Attendance Area and Small Municipality (REAA) Fund details how much has been capitalized into the program through appropriations since the fund's inception, all allocations made by the department, and forecasting for 2020 pending legislative appropriation. Final funding report shows a 10-year look at funding, and tracks a number of applications received. Last year was an all-time record low number of participating districts and number of applications. Don Hiley observed that the lack of applications could be due to the amount of projects funded in FY18 and FY19 and other district projects hadn't moved in to take those slots yet; it may just be an anomaly.

Reviewed the summary of current legislative actions, including current status of operating and capital budget bills. SB 64 would eliminate the debt reimbursement program. HB 106 would keep the debt reimbursement program in place, but it would extend the moratorium from July 1, 2020 to July 1, 2025.

Regulation projects on commissioning and general cleanup are with the Department of Law, so they have not progressed further for filing and publication. When this committee gets to the CIP application review, there are changes the department is recommending that implement those pending regulations.

Tim overviewed the publications the department seeks committee approval on. The department has instituted a rolling five-year update process. The full publications for the *Swimming Pool Guidelines* and *A Handbook to Writing Educational Specifications* were provided in the packet for further discussion.

Committee members engaged in a discussion regarding the rubric for scoring project applications. Jim Estes shared his appreciation for the thoroughness of the scoring process in the various categories, noting that it helps all districts as a tool to determine what is needed to develop a project.

PUBLICATION UPDATES

Swimming Pool Guidelines

Tim noted that the publication was last updated in 1997, and the proposed draft incorporates the move toward a more clear and prescriptive document that provides maximum pool tank sizes and maximum facility sizes based on the number of students in the approved instructional Learn-to-

Swim program. One contention has been that this update may not be necessary because lack of bond funding and debt reimbursement could prevent future pool funding. Because a publication is required in statute, it is wise for the department, with the participation of this committee, to provide updates to the process.

Committee members discussed opinions regarding Learn-to-Swim programs being the baseline requirement for swimming pool space. Reviewed the remaining items as they referenced the guidelines and the draft changes proposed. Don requested that the baseline include cold water safety. A common theme among the committee was consideration of borough and district cost responsibilities to maintain and operate swimming pools.

The department feels there a great amount of clarity has been provided in the guide, and that it's ready to seek input through the public comment process. Elwin clarified that committee members can also participate in the public comment. The public comments will be provided to the committee for additional feedback before the draft is forwarded to the State Board of Education. The guideline will not be put into place until regulations are finalized, and that process also includes additional review and public comment processes.

David Kingsland **MOVED** to put the *Swimming Pool Publication Guidelines* out for public comment, **SECONDED** by Dale. Don objected to the motion and offered three items of discussion:

- Instead of Learn-to-Swim, the guidelines should be more water safety based.
- Competitive swimming should be included as a legitimate use of the pool.
- Remove timing equipment from the list of specifically excluded equipment.

William Glumac agreed to the amendments. It was asked that the amendments be taken up individually. The committee discussed the amendments.

A roll call vote was taken for the department to develop a definition of water safety and include it as a mandatory program, with 2 in favor and 5 opposed the amendment **FAILED**.

A roll call vote was taken to list AASA competitive swimming as an elective use of a pool, with 7 in favor and 0 opposed this amendment **PASSED**.

A roll call vote was taken to remove timing equipment as specifically ineligible equipment with 6 in favor and 1 opposed this amendment **PASSED**.

The full motion before the committee is for the department to put out the *Swimming Pool Guidelines* for a period of public comment, as amended. Motion **PASSED** by unanimous roll call vote.

A Handbook to Writing Educational Specifications

Tim stated that the most recent update of the *Educational Specifications Handbook* was in 2005. The department looked at several elements, two of them fairly general. The first is the inclusion language about alternative project delivery, the other one is an appendix on sustainability. A third element is more directive, it changes 'should to 'shall', specifying that an approvable educational specification has to include a tabulation of proposed school equipment and cost. The department has developed a tool to assist districts in developing the tabulation.

Committee discussed the need for identifying specific equipment and costing at the educational specification level, in the context of the spreadsheet tool provided by the department. Listing equipment in the educational specification is a regulatory requirement; list is to inform the project and provide guidance on anticipated quality and use. There were no changes proposed to the document as presented during the course of discussion.

William **MOVED** to accept the department's proposed update of the *A Handbook to Writing Educational Specifications* with the amendment of a bullet point referring to alternative energy under Appendix E, and recommend that the department open a period of public comment, **SECONDED** by David. Motion **PASSED** by unanimous roll call vote.

DEPARTMENT BRIEFING: CIP APPLICATION AND SUPPORT MATERIALS

Tim explained that the April meeting is traditionally when the committee takes action on the application, which has consistently remained the bulk of the work of the committee since 1994. The committee will be reviewing some significant issues related to the application. He stated that it is rare for point elements to be added to the application, but there are two for this cycle.

Tim referred to the summary description of changes to the application and instructions. He reviewed with the committee issues on the list where magnitude of change is considered major.

The scoring rubric was introduced last year for the life/safety scoring criteria and contains seven categories with points pertaining to different issues related to conditions of buildings as well as graduated impacts of how serious of an issue it is within each system. Suggested edits are scoring elements that were a challenge to apply.

The department briefed the committee in February on the changes conforming to the regulation updates, including the threshold change for minimum project size from $25,000 to $50,000 and allowing districts to carry over scores of completed projects for an extended period of time. The biggest application change is the requirement added to statute dealing with reused and approved school designs and reused and approved building systems, a/k/a prototypes. The department's proposal is to add a point category, but noted there may be other ways to achieve that goal. When the department develops regionally-based model school construction standards the application will have to incorporate an evaluation of those.

Tim stated that the department developed two 5-point scoring elements related to energy management. One is a requirement to provide energy consumption reports for main school buildings, and the other is related to the new regulations and speaks to a district's requirement to have a way to assess when an existing building needs commissioning within their energy management program. Over the last three years, 11 out of 23 districts that were evaluated have not been able to demonstrate tracking of utility consumption on their buildings. Districts are paying attention to energy matters, but the actual tracking and management is lacking.

Tim reviewed the primer on scoring for the committee to ensure they have a good understanding of how applications are scored. He stated that for applications that come to the department, they currently have a total possible points of 520, 255 are evaluative points and 265 are formula-driven. The formula-driven points sometimes have some judgment that is necessary, but they try to remove as much of that as possible through the definitions the committee arrives at for how

those are scored. The additional point elements for the committee to consider will be a fairly significant point addition overall if they go with all of them. It is the committee's responsibility to weight these point elements from statute and regulation to determine which projects rise to the level of being the most important to fund.

RECESS

The meeting recessed at 4:30 p.m.

April 17, 2019

CALL TO ORDER and ROLL CALL at 8:35 a.m.

CHAIR'S OPENING REMARKS

Heidi Teshner welcomed members to the meeting and explained that the focus for today will be on the FY21 application review.

PUBLIC COMMENT

No public comment.

FY2021 APPLICATION REVIEW (Continued)

Lori reviewed the types of changes caused by conforming the documents to meet ADA accessibility standards. Tim led the committee through the proposed changes to the application, instructions, and guidelines to raters sequentially through the sections. Language was added conforming to the regulation change allowing reuse of score for multiple years for completed projects. In question 3d, project description and scope of work were separated. Lori proposed an edit to new instruction language in question 3e, project schedule, to remind applicants of the need for DEED approval of any alternate project delivery method. Committee discussed history of districtwide projects in relation to the new question added to separate districtwide project justification from project description/scope of work.

In question 4a, life safety, the rating matrix options were added to provide an opportunity for applicant to select conditions they believe are appropriate and provide the location of supporting data. General agreement that the inclusion is helpful; Tim observed that this may lead to additional reconsideration when the department scores differently that what is requested. Don stated he would like to have a committee work session to vet the matrix prior to the next application approval. Tim responded that it may be helpful to have more history, current scoring is based on historical department scoring and welcomes input. Committee reviewed edits to the scoring matrix. William proposed that all ages align with the renewal and replacement schedule system life, no objections. It was noted that the scoring matrix will most likely be revised yearly as issues arise. School security is an issue that is not currently scored on the matrix, committee would like to take up at a later time.

In section 6, planning and design, Tim presented proposed new questions 6b and 6c added relating to the use of prior school design or prior building system design to conform to statutory requirement. Committee discussed proposal, concerns included design ownership, limited number of districts that can utilize a prototype without state ownership of design, difficulty in proving savings, varying population sizes, number of suggested points. Clarified that application can either receive points for prior school design or system standards.

William **MOVED** to amend question 6b from 20 points to 5 points, **SECONDED** by Don. Further discussion ensued. Roll call vote was taken with 3 in favor and 4 opposed; the motion **FAILED**.

Dale Smythe **MOVED** to change the scoring for use of prior school design to 10 points, and add a fifth measure to the instructions and rater's guidelines that is for design savings. Change criteria 4 to construction savings and add two points to each one if applicant is able to support an estimate of the construction savings of the project greater than 10 percent of the construction cost; criteria 5 would be the supported estimate of 10 percent design savings to the project. The motion was **SECONDED**. Motion **PASSED** by unanimous roll call vote.

For proposed new question 6c, building system design, the savings will be based on the energy efficiency standard savings. Tim explained that within the framework of the adopted energy efficiency standard there are guidelines on various elements of building systems, which the department is indexing to determine whether they are minimally compliant, and they are planning some life cycle analysis that says that there is savings to be had if that standard could be exceeded. Members of the committee discussed this issue and offered feedback. It was noted that to comply with ASHRAE 90.1 standards, all systems in a building need to be in compliance.

William **MOVED** to change the total points possible in question 6c to 10 points and allow 2 points per each of the five identified systems if districts can demonstrate a written district standard that meets ASHRAE 90.1. Randy Williams **SECONDED**. Further discussion ensued that this motion leaves out the cost savings aspect, and it should be included that whatever is proposed should demonstrate cost savings. The motion **PASSED** unanimously by roll call vote. Lori reviewed the changes that will be made in that section of the rater's guide.

General agreement that new question 9f, item A, requiring energy consumption reports, is an important inclusion; item B, requiring an energy use index metric, may be premature.

The following summary of changes to the instructions was reviewed with the committee:

- 9e – Add evaluation of need for commissioning as part of an energy management plan to conform to regulation change.
- New 9f - Add conforming instructions. New item A to provide site-specific energy usage report. New item B to provide district metric to evaluate need for existing building commissioning.
- Appx A – Update minimum $25,000 project references to $50,000 to conform to regulation change.
- Appx C – Update recommended equipment/technology percentage.
- Appx E – Update minimum $25,000 project reference to $50,000 to conform to regulation change.
- Various – Renumber existing questions as needed.
- All - Footer: conforming changes for new fiscal year and form.

Feedback and suggestions were offered during the course of discussion, and that feedback was incorporated into the changes by staff at the time of the meeting.

William Glumac **MOVED** to approve question 9f, item A as written, **SECONDED** by a committee member. Hearing no opposition, the motion **PASSED.**

Committee engaged in a discussion regarding retro-commissioning. Tim noted that the department hasn't looked into how regulations would be implemented. Discussion on districts measuring annual energy use index (EUI) against a target for any particular building. The purpose of the measure is to collect the data over time to determine if a building is no longer performing at a set threshold, at which point a district will be able to determine if a building needs commissioning. Randy noted there is a nationwide database that contains EUIs for different types of buildings that can be adjusted for climate. If there isn't an energy model for a building, a good estimate would be the standard measure. Tim noted that they want to be sensitive to whether or not this is an achievable measure for every district even if they don't have the benefit of having a dedicated energy management person on staff. Don noted that smaller districts will struggle to deal with retro-commissioning. He stated that many people aren't aware of what is supposed to happen as far as implementing it; and then once they have the data, they won't know how to relate it to the cost of retro-commissioning. Don noted that retro-commissioning could be helpful to a lot of districts, but there hasn't been enough education yet for people to grasp the concept. The other issue of concern for districts is upfront costs that may save them in the long run; but in this fiscal climate, districts are worried about assuming additional costs. Larry Morris observed that if a district is tracking an EUI, it can state how many extra dollars it's been spending, then can compare that to the cost of performing the retro-commissioning.

Don **MOVED** that that category be delayed and not included in the application, **SECONDED** by David. Hearing no opposition, the motion **PASSED**. Lori clarified that points related to question 9f, item B would also be removed.

Committee discussed what energy consumption reports would be required for question 9f, item B.

Tim directed members of the committee to Table 7.1, which was also categorized as a major change. That change is reflecting language that would require FF&E lists and estimates for projects that needed educational specifications. His observation is that they might have put that into the application prematurely; it is currently making its way through the public comment and review process, and that won't be completed for a while.

Don **MOVED** to remove the note in Table 7.1 regarding FF&E lists in educational specifications, **SECONDED** by Jim. Hearing no opposition, the motion **PASSED** by unanimous consent.

Members of the committee discussed the change in percentage in Table 7.1 from 130 percent to 125 percent. Tim Mearig stated that when they revised the FF&E handbook in 2017, they reassessed dollars per student according to what they were seeing with the costs of technology, et cetera. Generally speaking, the cost cap reduced a little bit, and he isn't sure they can sustain that reduction looking at some current project work and pressures on that budget line item for a five-year interval. At the time they made the change, they noted that nothing keeps them from re-looking at that issue at any point and adjusting the handbook accordingly. He noted that no one is getting anywhere close to the application's 10 percent maximum using the allowable per student costs, so they reflected a reality-based change that rolled down and changed the 130 to

125. The department has been doing a lot of reductions in the district overhead where nine percent was being projected in the cost where no justification was provided, and the department took it down to five or six percent anyways because of the lack of justification. Tim also noted that it doesn't really change much in terms of the entire CIP.

Don **MOVED** to remove the reduction to the budget percentage to 125 percent, to keep it at the 130 percent. The motion was **SECONDED** by Jim. Hearing no opposition, the motion **PASSED.** It was recommended to add this topic to a future working meeting to review percentages.

Dale **MOVED** to approve the FY21 CIP application documents as amended, **SECONDED** by William. Hearing no opposition, the motion **PASSED.**

SUBCOMMITTEE ACTIVITY

Tim reported that the committee uses subcommittees to take on specific topics, and the subcommittees are structured with one or more members that can then reach out to other constituencies and stakeholders for participation. The subcommittees have no decision-making authority, and all decisions of the subcommittees come back to the full committee for final approval. Due to lack of personnel, some of the subcommittees have not been functional; Tim would like to rejuvenate and repopulate those subcommittees with the new membership.

SUBCOMMITTEE REPORTS

School Space Subcommittee

Current membership is Dale and Don, with Tim and Larry as department staff to the subcommittee. This subcommittee has not yet fully launched.

Dale stated that the impetus for this subcommittee was from a discussion years ago in trying to apply square footage limitations that related to equity across the state in schools to real cost implications. Concerns over complicating school design shapes to meet space restrictions, causing increased construction costs; potentially penalizing facilities with increased wall insulation/thickness; lack of storage in remote areas, increasing operational costs.

Jim and David volunteered to participate on this committee. Additional representation on this subcommittee may be available from people from rural school districts. Tim Mearig suggested this committee meet the first week of September, because A4LE has tentatively identified a workshop regarding this topic the week of August 26th.

Commissioning Subcommittee

No committee members are on this subcommittee, so there is no leadership for this subcommittee. Tim noted that a lot of the work has been completed. Standards have been set. Next is work to compile a list of credentialing organizations for a department to approved and list, perhaps in a handbook. A relatively small item to finalize the open item in the commissioning system standards previously developed. Last item, is an analysis and cost/benefit of creating comprehensive commissioning standards for Alaska school projects, which does not currently have funding available.

Randy and William volunteered to be on this committee, Randy volunteered to chair. Wayne Marquis is the department staff assigned to this subcommittee.

Design Ratios Subcommittee

Current membership of this subcommittee is Dale, and Lori is the department staff assigned to this subcommittee. Dale explained the subcommittee intent to study and identify potential design ratios, ultimately focusing on Openings Area to Exterior Wall Area (O:EW), Building Footprint Area to Gross Square Footage (FPA:GSF), Building Volume to Net Floor Area (V:NSF), and Building Volume to Exterior Surface Area (V:ES). Important to understand what difference a ratio would make and what the cost/cost savings would be. An RFP was issued late winter for cost estimating and energy modeling services to explore the results of the design ratio options. In February a team was selected and negotiations successfully completed. The subcommittee is working with the consultant to define options for modeling and the format of final data. Work is expected to be complete prior to the funding expiring.

The topic for the next subcommittee meeting will be for the subcommittee to review and vet the consultant work and provide analysis on whether or not it will be beneficial to have those items be reported by school districts and design teams.

Randy and William volunteered to participate in this subcommittee.

Model School Subcommittee

Don is the current member of this committee, and Tim is department staff. Tim provided background on the four recommendations the subcommittee suggested to the legislature. First, cost model enhancements, to more fully develop the existing department tool, is underway and nearly complete. Second, to establish a process of updating the Model School Elements in conjunction with HMS, Inc., as performed in the meeting today. Might be necessary to develop a written procedure for desired analysis. Third, developing Model Alaskan School standards by building system needed to ensure cost-effective school construction, has struggled and requires additional review. An RFP is underway to secure services to conduct a feasibility and cost/benefit analysis on developing outline standards into comprehensive state-level model school standards. The final item is awaiting any action the legislature may decide to take.

There are no future meetings currently scheduled, but the RFP will need to be done by May 8th. Don asked whether the State Board of Education would want to get involved in the potential items the legislature may not be willing to fund, such as sports fields, high school stadiums, etc., that are popular public projects. Tim noted it will need to examine the statutory basis of what it would be possible for the department to do.

Jim volunteered to participate on this subcommittee.

COST MODEL UPDATE – HMS, Inc. Presentation

Kent Gamble from HMS, Inc. presented to the committee on the Model School changes. He noted that the changes this year are a little bit more straightforward, with no additional ASHRAE 90.1 changes, following the significant changes made the year before. He shared that HMS was counseled to leave steel pricing alone this year, as the industry is in flux right now, and there is a lot of uncertainty to prices because of import tariffs. If DEED is concerned about cost risk on projects as a result of future tariffs, there could be a conversation about hedging against that.

Kent Gamble stated that additional changes are mostly just going to be unit price changes for material pricing, and they are anticipating getting labor rates by May 1 (typically released April 1). Reviewed additional price changes and noted additional price adjustments throughout. Kent stated that he wants to explore the three different options for diesel power generation: emergency, standby, and primary. He wants to have a thorough understanding of what these different power systems refer to and how costs will be captured through them.

Committee members and Kent reviewed specific line items in greater detail based upon questions from the committee. Tim suggested that in discussing this topic at future meetings, it would be helpful to have year-to-year comparisons, and Kent said he would make a note in their file. Tim observed that the cost format established in the early 2000s should allow for cost comparison between schools.

William **MOVED** that the committee recommend the incorporation of the Escalation Cost Study Model School Building as presented, **SECONDED** by Dale. The motion **PASSED** by unanimous consent.

ASHRAE 90.1-2010 UPDATE

Larry noted that there is no statewide authority having jurisdiction (AHJ) to review compliance with the energy standard. As he was reviewing some designs, he noted that not all of the consultants were submitting complying construction documents, and the department realizes there is a need to work with consultants and owners to make sure they have compliant documents in construction. Following the December 2018 meeting, the department developed a compliance checklist specific to Alaska schools based on the "Commercial Building Data Collection Checklist – ANSI/ASHRAE/IESNA Standard 90.1-2010" provided by the United States Department of Energy. The checklist was modified by removing items not commonly associated with educational facilities or not applicable to climate zones 7 and 8. It is anticipated that the checklist will become part of the required project documents.

Randy noted that he has never worked with a checklist such as this before, but he has used a tool called Comp Check, which is a free tool on the Department of Energy's website that develops a checklist that is customized to each project, both design and construction. Larry stated that ultimately the department would like to be able to put this checklist up on their website so consultants/owners can go there and load the checklist. Randy shared his concern that each time ASHRAE 90.1 is updated and adopted, the department would incur additional maintenance challenges ensuring the checklist still complies with the latest version.

Tim stated that this is not directly in the committee's purview. The committee is to approve the standard, but how that is rolled out and implemented only requires recommendations and feedback from the committee.

BR&GR CALENDAR and WORK PLAN REVIEW

Tim asked members of the committee to review the topics of the work plan to ensure all areas committee members would like to address have a slot in the plan. Suggestions included:

- Add 3.3.1.2 – Action item for existing buildings - help the department develop the implementation of the regulation.

- Suggestion to add 3.6, cost-effective school space. School space allocation issues were included in 5.10 under CIP. Committee agreed to move it into 5.4.
- Committee will receive a draft of the condition survey document before the end of the year, which needs to be updated.

SET DATE FOR NEXT MEETING

Next meeting date set for teleconference on July 18. Tentative teleconference on September 5 and tentative in-person meeting December 4.

COMMITTEE MEMBER COMMENTS

Discussion on historical protocol of addressing topics or researching information related to areas of interest for committee members. Tim shared that the department supports the committee in its work by providing research papers and background information, and can assist with convening the committee to do its work in whatever fashion is deemed appropriate. Committee members shared that they would appreciate being notified of the opportunity to be more involved when substantial changes are made to documentation so they can have a greater appreciation for the direction of the department before they are asked to make final decisions at quarterly meetings. Tim shared that he thought the committee did a great job at this meeting and worked through the agenda items in a thoughtful fashion. Lori also suggested that when the meeting packet with the briefings are sent to the committee, members should feel free to e-mail comments, suggestions, and questions ahead of the meeting.

Committee members shared their final comments. Highlights included:

- Very educational process, looking forward to addressing the issues.
- First meeting, lots of great discussions and collaborations. Good to work through things instead of around things.
- Thanks to the staff and all they do behind the scenes. Feel like a lot was accomplished.
- Interesting to learn a lot on the administrative side of things.
- Committee is very well balanced between the education, grant writing, and the engineering/construction sides of things. Everyone is able to bring a different perspective to each of the topics discussed.
- Nice that the committee and the department are working toward the same goals.
- Appreciate all the new faces at the table to get fresh perspectives.
- Staff are amazing.

MEETING ADJOURNED

The meeting adjourned at 4:14 p.m.

BOND REIMBURSEMENT & GRANT REVIEW COMMITTEE
Thursday, July 18, 2019
2:00 p.m. – 4:00 p.m.
Teleconference

DRAFT MEETING MINUTES FOR APPROVAL

Committee Members Present	Staff	Additional Participants
Elwin Blackwell, Acting Chair	Tim Mearig	None
Randy Williams	Larry Morris	
Dale Smythe	Sharol Roys	
James Estes	Lori Weed	
David Kingsland		
Don Hiley		

CALL TO ORDER and ROLL CALL at 2:00 p.m.

Acting Chair Elwin Blackwell called the meeting to order at 2:00 p.m. Roll call and introduction of members and guests present; Heidi Teshner, Rep. Tammie Wilson, Sen. Cathy Giessel are excused; William Glumac, not present. Quorum of six members.

CHAIR'S OPENING REMARKS

Elwin noted his filling in for Chair Heidi Teshner.

REVIEW AND APPROVAL OF AGENDA

Elwin requested the agenda be modified so that the Subcommittee Report on Space be moved to the top of the section, to accommodate Dale Smythe's early departure.

Agenda reviewed and approved as amended by unanimous consent.

DEPARTMENT BRIEFING

Tim Mearig directed members of the committee to the department briefing paper, which provides updated information for the committee.

On June 1 the department notified districts of their compliance of their preventive maintenance program, primarily based on information provided during the department's site visits. Only 44 of 53 districts were certified for eligibility for FY2021 CIP. This is a larger number than the department has seen since the initial years of the program. Districts have until August 1 to demonstrate that they've implemented a compliant program. Dale expressed surprise that the two largest rural districts were on the list and asked what the largest issues were. Tim responded that the past few years tracking of energy consumption and training plans have been the most common issues, this year maintenance management issues were a bit of a surprise. Don commented that SERRC is seeing more districts having issues meeting the more strictly enforced standard, particularly for small bulk fuel installations serving multiple small boilers and for waste heat tracking.

Tim noted that the annual May CIP workshop was held in Anchorage by Larry Morris and Lori Weed, it was expanded into a two-day workshop, able to dive into details of using department

tools to put together an application. Feedback was positive, Tim encouraged committee members to pass on to the department all positive or negative feedback they hear.

Tim stated that the new 18th edition of the Cost Model was published and used. Don found some glitches that the department had rectified by HMS. Geographic cost factors were briefed with the committee last December. Department has been working with the consultant on some areas of concern. The hope was that the geographic cost factors would be implemented with the 18th edition, but they weren't quite ready. The final product was just received by the department. Plan to brief those to the committee in the future

For legislative action, nothing is currently solid. There is indication of funding for the major maintenance grant list and a partial veto for the REAA fund appropriation. Senator Cathy Giessel has been appointed to the committee membership.

PUBLICATION UPDATES

Tim presented briefly on a DEED leadership retreat. Reminded committee of the department mission and vision and that the purpose of the department is "to provide information, resources, and leadership to support an excelled education for every student every day". That is the work of the committee as well. Additional thoughts were to "inspire demand for excellence", "require improvement", and "expand options" and provide resources. Dovetails into the work of the department and committee in providing a series of publications.

Swimming Pool Guidelines

Tim noted that no comments were received during the public comment period. Lori stated that, in addition to posting on the Alaska Online Public Notice site, direct emails were also sent to school district superintendents, facilities managers, and a selection of borough and city managers for municipalities that have pool facilities. Issues related to water safety and competitive swimming edits, as discussed in the prior meeting, had been incorporated.

Elwin called for any discussion and noted that this publication has been before the committee a number of times. With an opportunity for the main stakeholders to have reviewed it, it may be time for it to be made official. Tim observed that once the committee has approved it, the department will then use it to provide guidance, but until the State Board of Education adopts it into regulation the 1997 publication remains the official document.

Dale moved to approve the department's proposed update of the *Swimming Pool Guideline* and recommend the State Board of Education and Early Development proceed to update the publication reference in regulation; David seconded the motion. Motion passed with unanimous roll call vote.

Handbook to Writing Educational Specifications

Tim reminded the committee of the major changes to this version, handling equipment and fixed furnishings, language on alternative project delivery methods, sustainability supplement now incorporated as an appendix. Good comments were received during the public comment period, many spoke to the tabulated equipment and furnishings list. No substantive changes were made based on comments. Elwin observed that this is not part of the regulation structure and is utilized as a guideline.

Jim moved to approve the department's proposed update of *A Handbook to Writing Educational Specifications* for issuance and use by the department; Randy seconded the motion.

Don stated that he was one of the commenters, and in other conversations he's had they all feel that the FF&E tool is premature; the tool is good but too specific for that early a stage. Would like clarification on why it's being requested. Tim responded that Don is correct that it is not cited in regulation, there is a regulation that sets out the elements of an educational specification (ed spec) and one of those is that the ed spec include 'recommended equipment requirements'. The handbook is providing guidance about what the regulation means, and it requires a tabulated list of equipment with budget information. Where points are assigned for a complete ed spec; the committee could have different opinion on a standard for the application, but he doesn't recommend it. Don expressed concern that equipment and furnishing are likely to change between the writing of the ed spec and when a project is funded. Tim observed that many planning items are subject to change and disputed that it that is a reason to not include it. This acknowledges that this area has been deficient and that the goal is to inspire excellent and provide a tool to help improve. Lori pointed out that the, based on Appendix B, an ed spec was already providing a specific list of equipment and furnishings; the tool created by the department is a method for compiling the lists and add costs. Elwin agreed it is early planning tool and an estimator.

Roll call vote. Motion passed with 5 in favor, 1 opposed.

ASHRAE 90.1-2010 Checklist Update

Tim stated that this was one of the more successful public comments periods, with a lot of good comments and feedback from practitioners. Larry agreed that the comments were helpful and that the department had made edits and clarifications in response. Tim clarified that this is tool used for department project review, to ensure compliance with the energy efficiency standard in regulation.

Randy moved to approve the department's proposed ASHRAE 90.1-2010 Checklist for use by the department; seconded by Dale. Approved by unanimous consent.

SUBCOMMITTEE REPORTS

Design Ratios

Dale stated that the subcommittee has come a long way, with the finalization of the consultant report, with modeling by Coffman and cost estimating by HMS. Expressed gratitude to Larry for providing review and analysis of the report information. Next steps are to continue review of the report, which is provided in the packet. Larry provided highlights from his review.

School Space

Dale explained that no meeting has been set at this time, there has been community interest; A4LE is targeting a related workshop in late August discussing adequacy and accuracy of current space allocations.

Dale left the teleconference. Quorum of five members.

Model School
Don reviewed the subcommittee report. New Cost Model incorporating enhancements recommended by the committee was issued; he has used it already this summer and has found it helpful. Could potentially develop more options. Thinks more refinement is needed before it would work as a regulatory cost limiter. The Model School Standards Feasibility Study by McDowell Group has been completed; different organizations had different and interesting reasons for establishing standards. The cost-benefit tool is not complete and will take work to make useable. Looks forward to additional A/E input in future stages. Tim noted the subcommittee recommendation to move the analysis and development of the Cost Model as a cost control tool from the subcommittee to the department, to be reviewed with the work plan. Tim highlighted the cost-benefit tool, noting that the tool is built to be project-specific. Will likely work to develop project data and bring it back through the subcommittee.

Commissioning
Randy requested information on the status of the commissioning regulations. Lori stated that it was currently under review with the Department of Law, there is a potential issue with how it was noticed. Department should hear back within a the week whether the regulation will be forwarded to the Lieutenant Governor or sent back for additional noticing. Tim confirmed that it would not come back to the committee for action. Randy stated that the action before the subcommittee was developing standards for commissioning agents. After research, he identified two groups that already had developed standards. Committee will meet again in August to finalized the commissioning certification requirements.

BR&GR CALENDAR AND WORK PLAN REVIEW AND UPDATE
Tim noted that many of the dates have passed by, some are useful items to keep as reference. Lori presented upcoming meeting dates, including potential life safety matrix review in January and the CIP application approval meeting in April. Committee reviewed proposal and discussed changes. Suggestion to propose break-out session for the December A4LE conference to discuss the reuse of prior school design plans, get feedback or edits to application question or other implementation strategies.

COMMITTEE MEMBER COMMENTS
None.

MEETING ADJOURNED
The meeting adjourned at 4:05 p.m.

BOND REIMBURSEMENT & GRANT REVIEW COMMITTEE
Thursday, September 5, 2019
2:00 p.m. – 4:00 p.m.
Teleconference

DRAFT MEETING MINUTES FOR APPROVAL

Committee Members Present	Staff	Additional Participants
Rep. Tammie Wilson	Elwin Blackwell	Dana Menendez, ASD
Sen. Cathy Giessel	Wayne Marquis	Katherine Hopewell, ASD
Randy Williams	Tim Mearig	Jobe Bernier, nVision Architecture
Dale Smythe	Larry Morris	Barbara Barnes, Legislative Aide
James Estes	Sharol Roys	
Don Hiley	Lori Weed	

September 5, 2019

CALL TO ORDER and ROLL CALL at 2:00 p.m.

Acting Chair Elwin Blackwell called the meeting to order at 2:00 p.m. Roll call and introduction of members and guests present; Chair Heidi Teschner, excused; David Kingsland, excused; William Glumac, not present.

CHAIR'S OPENING REMARKS

Acting Chair Elwin Blackwell shared his appreciation for the committee members' time and efforts in trying to improve the standards and move the school facilities in the state forward into the future.

REVIEW AND APPROVAL OF AGENDA

Agenda reviewed and approved as presented by unanimous consent.

DEPARTMENT BRIEFING

Tim Mearig directed members of the committee to the department briefing papers and reviewed with them as follows:

Preventative Maintenance State-of-the-State

Tim Mearig stated that he wanted to inform the committee on the preventative maintenance assessments of districts this year and how it affected eligibility for the upcoming FY'21 CIP. They ended up with five districts that were not certified as having compliant programs as defined under the statutes and regulations. There are six districts on a provisional status that are eligible for CIP, but they are working through elements of their plans they need to improve on. He noted that all districts knew by August 15th whether or not they were going to be eligible for this year.

Tim Mearig noted that regulation requires the department to visit districts every five years, and the briefing paper also contains the list of the districts that will be visited in the coming cycle.

FY 2020 Project Funding

Tim Mearig reported that the FY 2020 capital budget appropriated $7,400,000 for K-12 major maintenance. This funding provided sufficient funds for the priority one project, Barnette Magnet School Renovation Phase IV. The state share is $7,365,723, and the district share is $3,966,158. The state share was a direct appropriation from the legislature.

Tim Mearig stated that the department didn't have any major maintenance residual funds to apply to the program this year from the last funds. He stated that the school construction projects that have been approved this year include the construction phase of the project in Eek and the replacement school design phase for the school in Hollis. Both of these projects were funded from the REAA and Small Municipality Fund. There were no direct appropriations, nor was there any available funding in the school construction fund for any other projects to be funded.

Tim Mearig reported that as debt reimbursement projects reach completion, the recipients may decide to pay down the bond principal or redirect the remaining project balance to a voter and DEED-approved project. Two municipal districts, Kenai and Anchorage, have received DEED approval to redirect prior voter-approved funds to new projects in 2019.

Tim Mearig directed members of the committee to the worksheet on the REAA fund to review the history since they first provided funding through that fund in 2013 to where they are with the 2020 work. He noted that $15 million was never expended out of that fund and was disencumbered from previous projects so it could be applied to other projects on the priority list.

PUBLICATION UPDATES

Guide for School Facility Condition Surveys

Tim Mearig referred committee members to the briefing paper for further detail on the background of the *Guide for School Facility Condition Surveys* and explained that the guide is fairly old now in its current rendition, and it dates back to 1997. It has been on this committee's goals to update this guide as part of the department's and committee's work. He stated that although there are a number of districts preparing applications for state aid using this document, it has not been widely used and is best viewed as a resource tool the department has made available to districts if districts don't have a facility condition survey developed to use. He noted that facility condition surveys are extremely important to the CIP process, but despite their importance, there isn't any guide or standards body that has set out what they should contain.

An analysis of the 1997 document resulted in the following:

1. Provides an adequate tool, but its use requires considerable patience and attention to detail, both in the field and in the office.
2. The room-by-room format can be cumbersome to use in larger schools and education-related facilities.
3. Format and structure have no particular alignment with other DEED publications such as the Cost Model, CostFormat, LCCA Handbook, and other building system-based documents.
4. The final record with its checklist/tabular format, suggests robust data; however, due to the word processing-based platform, information doesn't translate to data or

quantification (i.e., numbers of deficient components, square footage of deficient materials, etc.).

5. Though it provides opportunity for narrative descriptions of systems and conditions, the format drives a "check-the-box-and-done" mentality.
6. There is very little provision for documentation through photographs.
7. After 25-plus years, some survey elements are dated, particularly in the areas of infrastructure and technology but also playgrounds and other ancillary areas.
8. Could include specific provisions/tests for ADAAG accessibility instead of suggesting a separate survey be done and attached.
9. Site Civil is limited and does not include questions specific to geotechnical issues.

Tim Mearig stated that in 2011, the department's facilities manager began researching and developing an alternative tool in response to items three and five on the preceding deficiency list. He stated that there are two documents available for the committee to review, one is the current document with some suggested edits that could be done if they were going to briefly update the document. The other is an alternative format guide, which is more narrative in function but could also include photographs to document additional information. He referenced that the alternative tool can be found from page 76 to 81 in the committee meeting packet.

Tim Mearig discussed the options the committee can consider as follows:

Option 1: Incremental Update
This option would provide an updated 2nd edition of the 1997 publication but use the same basic word processing, checklist-based structure. Items five through nine of the opportunities listing would be the focus of the update. Additional feedback could be sought regarding the content of each checklist and/or additional checklists.

Option 2: Conversion to Database or Spreadsheet
This option would develop a data-centric tool with input forms for the checklists and a series of queries and reports to compile the survey conditions. This type of tool lends itself to continuous update and metrics such as Facility Condition Index (FCI). Although the department could create, with some time and training, a workable tool under this option, it's worth noting that there are several commercial ones available.

Option 3: Switch to Narrative Template
This option would sunset the 1997 publication and provide a new condition survey tool with a more narrative structure. In developing this tool, some enhanced features should be considered. Close alignment with the department's cost-oriented publications should be achieved. Specific consideration should be given to how photographic documentation could be incorporated. One caveat for this option would be a recognition that many design firms already have a similar narrative-style format they use to provide condition surveys for clients.

The Facilities section has no preference among the presented options at this time. There may also be additional options such as development of both a checklist-based and narrative-based format but moving in all formats to better alignment with the department's building system based standard. Committee members and guests engaged in an in-depth dialogue and provided feedback and asked questions of the department and members as follows:

- It would be appreciated to have a standardized format for facilities condition surveys.
- What information is the department looking to get out of these surveys? What information is important to obtain? *Response: The department has really just offered this as a tool for districts that don't have something better to use. But in developing an alternative format, if the structure of the condition survey is aligned to the scoring elements of a capital funding request, it could give more clarity to those preparing the requests and those scoring the requests.*
- Would steer away from a word processing-based format. It would be more useful to have it be an Excel spreadsheet or another database-friendly document.
- Like that Option 1 seems to be a bit more holistic, although worried that it might be a little bit too much freedom for the design team and that designers might take shortcuts. Option 1 seems to support more of the concept of supporting DEED's major maintenance projects rather than identifying minor repairs that districts can make themselves.
- Add an ADA section because a lot of the schools predate the 1990 ADA.
- The 1997 version forces the design team to give a thorough code analysis, but the onsite portion is a little bit more tedious.
- In 2014, the Anchorage School District engaged with the Council of Great City Schools on a management review of their facilities operations. They got back some very specific recommendations on factors they weren't measuring as well as analytic tools and techniques they weren't using. Has the department ever compared the design, the construction, and the maintenance costs and how they compare to other states and other school districts? Anchorage did that and found out that they were, in some cases, spending two to three times in major maintenance projects than other districts in the database of the Council of Great City Schools. Rather than invent a tool that has already been invented, has anyone looked at how other districts in other states measure these items? *Response: Other state efforts related to school facilities have been tracked through the benefit of the State of Alaska having a membership in the National Council of School Facilities. It was noted that what was lacking in the set of metrics for the Anchorage School District was that they did not have a systematic way of assessing the condition of their school facilities. That was recognized by the peer group that did that analysis. They have invested heavily in that since then as a way of tracking those surveys, but the department is unaware of how well that updating is going because their initial try at it was done in 2011 and 2012, so they are in need of some updating. The system was very intensive and expensive through a third-party commercial product that was run by Accruent. Option 2 that is considered in the briefing paper would be similar to what Anchorage has done. The department also keeps an eye on how costs compare to other parts of the country, and they have a lot of cost data that they would be happy to share on how they know that the buildings they are building with state aid are cost effective.* Comment to the response: Disturbed as one of the funders for the school system that the largest public school system in Alaska had such a negative report and the department hasn't followed up on that school district. That is where a massive quantity of money is going, and it's shocking that the state isn't following this. Option 2 might be helpful, but no tool is helpful if it's not monitored and the measurements are actually used to figure out where errors are made and what needs to be corrected. There are some fabulous school buildings that are needing constant repair. *Further response: When the*

department is considering state aid, there is an extensive rubric of measurements that they look at in addition to having cost information. And basically every element of a project has to be well supported in terms of whether it's cost effective or not, and the department has statutory authority that's been granted through the legislature to ensure that that happens. They can make reductions to projects, and they can evaluate those projects for cost effectiveness, and they regularly do that on behalf of the state. In every case they are never acting to provide state aid for a school district without ensuring they know what it's going for and that it's based on condition-related assessments and a number of other factors as well that are important when prioritizing state aid.

- The Fairbanks North Star Borough has purchased a program to do exactly this with all of their buildings, including their school buildings that the borough owns. Has anyone checked in with them to see what kind of program they are using and whether it would fit into what they department is doing? For the first time ever, the borough is looking at every single building they own and assessing their maintenance and starting to calendar a better way of doing maintenance as funding has dried up from the state. *Response: Unaware of what the borough has done. If a district isn't participating in state aid, then the department doesn't know much about their facilities. If a district has ten buildings and they are only asking for state aid on one of those, the department won't have a sense of the conditions of the other buildings until such time as a project application is put forward. It was noted that all of those third-party programs come at a significant cost to both purchase and maintain on an annual basis. It is also a costly effort to do the initial assessment and load the data into the programs.*
- Do we ever ask districts how much their maintenance budget is and prioritize it and ask why this particular school got to the point they did to need state funding versus being able to work within the money the districts are already being given? *Response: The State of Alaska doesn't designate maintenance money within the educational foundation formula. Through district reporting they have a way of understanding how much districts are spending generally on maintenance and operations, and the department indexes that. That actually becomes scoring criteria when they look at prioritizing projects, but they don't really track a district's maintenance budget or give a certain amount of money for maintenance. It was noted that districts walk a fine line to find the balance between keeping money in the classroom for instruction and keeping the buildings maintained. It has largely been left up to the districts to make those determinations as to how much they can afford to put into maintenance.*
- It has been rumored that many times buildings go without having the necessary maintenance because a building has to get to such a state of disrepair to be able to qualify to get money from the state. Is the state asking districts to show that they are trying to keep up their buildings? *Response: The department has a staff member that visits districts on a five-year rotating basis to see that they are truly making an effort to maintain their buildings and are meeting a minimum standard for maintenance. Some districts could probably do better on their maintenance, but the department does have some oversight of that even though they don't mandate how much funding is to be spent for maintenance.*
- The *Guide for Facility Condition Surveys* has mostly been used as a way to indicate deficiencies so that a cost can be put on them, and that is then typically compared to the

renovation or decisions of replacing a school. A combination of the narrative rework of the existing document and the data-driven portion would be the best.

- What are most school districts doing to meet this requirement? <u>Response:</u> *Fewer than ten percent of the condition surveys the department sees are done using the current tool. Most of them are being done through a different format, and sometimes they're just being made up for a specific project without any template. When this document was created, there wasn't any such thing as digital cameras, and the ability to document facility conditions photographically has been very helpful.*
- Only a few of the condition surveys received are based on the format of the guide. The guide works okay on a very small school, but for larger buildings it becomes more cumbersome and less useful. Most of the condition surveys received are more narrative based. Having it fit into the CIP process is much more useful as far as the scoring categories to address those directly, but it's a different use than the facility condition index kind of use.
- The condition survey report is not an ongoing maintenance tool. That is not the intent of that, and it is separate and serves a separate purpose.
- Perhaps a consideration to add to this document would be some element or parts of energy audits. That seems to be the only thing missing that would capture some of the ongoing maintenance costs that are related to elements or deficiencies found within the condition survey.

Acting Chair Elwin Blackwell stated that they will review all of the committee comments on this item and come back at a later meeting with a more focused approach on what a facility condition survey might look like. They will also review what other systems might be available, although cost could be a factor.

BRIEFING PAPER – GEOGRAPHIC COST FACTORS 2019

Committee members were referred to page 82 of their packets. Tim Mearig reported that since 1981, the department has published a cost estimating tool for use by districts in preparing cost estimates for their CIP applications. As part of that tool, there has been a set of geographic cost factors that helped estimate project costs based on the various geographic regions of the state. In the early 2000s, that geographic cost was more extrapolated so that every district had representation. The interesting thing about the geographic cost factor was that it was talked about in a lot of general terms by HMS, Inc., the contractor that originally developed the estimating tool and who has been responsible for updating it all these years since when periodic updates took place. HMS, Inc. discussed elements about what might be part of the geographic cost factor, but there was never any clear designation, rigor, or measurement analysis of what was included or not included.

HMS, Inc. was re-engaged in 2018 to identify a set of clear criteria about what goes into geographic cost factor differentials that has a measurement that is understandable to everyone. HMS, Inc. delivered the updated content to the department in December 2018, and this committee last saw the document at that time. Tim Mearig reviewed the contents of the briefing paper noting what elements were considered in 2018 compared to those that are considered in 2019, which ones had significant changes, and a short narrative describing the changes.

Tim Mearig stated that he believes the consultants did an excellent job in identifying elements that vary the cost of construction across Alaska, and they now have a very specific set of measurements they can evaluate going forward. The department's recommendation to the committee is to exercise Option 4 in the briefing paper to approve use of the 2019 version in next year's cost model and formally update them as part of the contract for the 20th Edition.

Tim Mearig opened the floor to committee member feedback as follows:

- Does the state own the work product from HMS, Inc. along with the documentation of methodology for all of the calculations so that if something happened with the contractor, another entity can continue on with that work? *Response: It's true that the state has access to it, but it doesn't have immediate and easy access to every one of the background elements. If a consultant was unable to do this work and the department had to pick it up, it would be a lot of work to duplicate the gathering of data that went into these measurement elements. But the department now has an excellent understanding of what the effort was and what the elements are that may need a routine update.*
- Would agree with Option 4 from the briefing paper. The only thing to add is that a combination of reviewing scheduled values of currently awarded construction projects would give a brief insight periodically into this information as well as for the general conditions, fuel, et cetera. It's another verification of actuals versus even what the cost model is showing. That would take a bit of department effort, but it may be worth it.

General consensus among members of the committee was to exercise Option 4.

BRIEFING PAPER – ASHRAE 90.1 - 2013

Tim Mearig referred committee members to the briefing paper and explained that it was developed by Larry Morris, and it describes the possible changes that are happening between the 2010 and 2013 editions of the Energy Efficiency Standards.

Larry Morris reported that at the last A4LE state conference, a person from ASHRAE presented and explained that each time an update is done to this code, the cost of implementing the code has to be at least covered, if not result in additional savings from implementing these codes. That was set up as a minimum standard before an update could be adopted.

Larry Morris provided some background information stating that this committee discussed this topic in 2012, and three or four different codes were discussed at the time. ASHRAE 90.1 2010 was recommended to the State Board of Education and became regulation in 2013. Just like many codes, ASHRAE 90.1 updates every three years, so there have been a couple of updates since that time. There will be another update published shortly for 2019. He noted that additional discussion is that Alaska Department of Transportation and Public Facilities (DOTPF) has its energy efficiency policy set in statute, and it is noted that they "shall meet or exceed the most recently published edition of the ASHRAE/IESNA Standard 90.1." DOTPF and DEED are the two largest providers of facility construction and renovations in the state, and there are occasions where DOTPF provides construction services for DEED-owned properties. There could be some considerations to having the same energy code for the two departments.

Option 1
Option 1 would be to not make any recommendations to revise the energy code and remain with ASHRAE 90.1-2010 as its code under the regulation.

Option 2
Option 2 would be to recommend to the State Board of Education to revise the energy code to ASHRAE 90.1-2013.

Option 3
Option 3 would be to recommend to the State Board of Education to revise the energy code to ASHRAE 90.1-2016.

Larry Morris recommends that the committee recommend to the State Board of Education the adoption of ASHRAE 90.1-2016 as the department's energy code. This recommendation would make the department current with DOTPF until 2019 edition is adopted. At that point, the department would only be one cycle behind the current code and not two or three code cycles behind. The total of all changes for the two code cycles are not large, and many of those are currently being used as part of current construction practices.

Committee Feedback and Discussion:

- It seemed in a sense an unfunded mandate, but it is helpful that the Department of Energy has placed some limitations in that there has to be a sufficient payback to make it worthwhile to do so.
- Not necessarily requesting to keep the old code, but they need to consider their clientele and that a one-size-fits-all policy may not work for large and small districts alike. If they adopt a new code, they really need to consider this disparity between the large and small districts and their ability to deal with new technology.
- Support the adoption of the current edition, because that is what makes the most sense as they are looking at modern buildings and trying to keep up within one code cycle. They need to be cognizant that the cost benefit will vary all over Alaska.
- Should they have a component within this that allows them to amend some sections based on Alaska's specific climate because of the impacts on operational costs? *Response: ASHRAE does a good job of vetting the cost effectiveness of their recommendations put out in 90.1, and they do it by climate zone. They are meticulous about looking at specific climates, so it doesn't really need to be micromanaged. Up until this point, DEED has been able to let other entities such as Department of Public Safety and Department of Labor set building safety standards, and DEED had previously referenced them as being required to be followed for school projects. The legislature gave the department and this committee the responsibility of setting some energy standards. The way the department plans to handle this task is through the checklist process that was just implemented, but has not yet been utilized. The checklist will list the things in ASHRAE 90.1 that are important for schools in Alaska. When a checklist is applied to a project, the project design team and owner have an opportunity to provide feedback and negotiate specific items within the checklist, and this should allow flexibility to not have to engage in a formalized amendment process.*

Randy Williams explained that he would like this committee to not have to revisit updating these every three years. He believes that adopting something that says, "The most recently published edition," of the code would suffice because of ASHRAE having vetted a lot of the upgrades. The caveat to that is that ASHRAE 90.1 is under continuous maintenance, and they actually update it every time there is an amendment approved by ASHRAE. Randomly throughout the three-year cycle, there are changes made to it, which creates a problem as to what the most current published edition is.

Furthermore, Randy Williams shared that he recommends using IECC as their code instead of ASHRAE 90.1. IECC allows the use of 90.1 for compliance, and this will address some of the concerns about one size fits all. 90.1 is a rather complicated document, and the other paths available in IECC are simpler, and there may be less design effort for compliance. The other advantage of using IECC is that a project could comply with the suite of international codes. Even though the state hasn't adopted the energy code, it would mesh in with the other international codes, and it would still allow compliance using 90.1.

Tim Mearig suggested that perhaps a way to handle this would be to wait until such time as another code-adoption body in the state determines an official state code for energy that would be laid out in statute or another department's regulation, then this body would have an opportunity to rescind their provision and use the other code. Lori Weed added that in DEED's last regulation project, they wanted to reference a different department's regulation and just say "current version," but they were told by the Department of Law that that type of adoption by reference is not allowable because DEED has to allow their own public input, public notice, and state processes to cover which edition they are going to adopt.

Randy Williams **MOVED** to move forward with a regulation change to the Department of Education updating the reference to ASHRAE 90.1 from 2010 to the 2016 version, **SECONDED** by Dale Smythe. A roll call vote was taken with 7 in favor and 0 opposed. The motion **PASSED** unanimously. The department will move forward with making that necessary regulation change and putting it before the State Board of Education for public comment.

SUBCOMMITTEE REPORTS

Design Ratios

Dale Smyth stated that Larry Morris has provided some recommendations, but he is still assembling new members to participate in this subcommittee. It is still on the docket for more input from the A4LE community prior to their conference in December. The elements on the work plan are still active and accurate, and new dates need to be set for those.

Model School

Don Hiley reported that their subcommittee addressed geographic factors at the last meeting. They also discussed the Model School File and the standards. One of the things that was addressed was how the Model School was not yet updated. There was some discussion about whether that can be contracted out to be reviewed and kept current, or whether or not it could be possibly reviewed by a volunteer organization, or both. It was noted that there may be funds available for contracting.

Don Hiley stated that the subcommittee also discussed that in reference to building standards, during the previous contract with McDowell Group, one of the underrepresented groups was the design professional community, and perhaps they need to get a little more weigh-in from that group. The subcommittee weighed how much detail they need to go into and how many comments and advice they must receive before proceeding further.

Tim Mearig added that with the McDowell study, they have access to research they have done on about six different state entities that have active construction standards. What they plan to do at the subcommittee level is re-review that and get a little more information from those entities. They plan to bring something back to the full committee with some recommendations about the level of detail they should be considering.

Tim Mearig added that the building standards project will be completely committee, department, and partner driven. There are no budget resources available to involve consultants.

Commissioning Subcommittee

Randy Williams reported that the task at hand has been to develop recommendations for setting standards for commissioning agent's credentials, and they have made a little bit of progress on that. Department staff came up with a short list of desired credentialing criteria, which was included in the packet in the subcommittee report. He stated that he edited the list of potential organizations and candidate certifications that might apply.

Randy Williams asked members of the committee if they should recommend that the department contact those organizations and ask them whether their credential meets the criteria listed. Hearing no objection from members of the committee, the consensus was that the department should move forward on this.

School Space Subcommittee

Dale Smythe explained that there is no report at this time as they are still working on getting this subcommittee up and running.

BR&GR CALENDAR AND WORK PLAN REVIEW AND UPDATE

Acting Chair Elwin Blackwell noted that they do not have the work plan review and update available in this meeting's packet, so this will most likely be addressed at the next full-day meeting scheduled for December 4th in person in Anchorage. Other future meetings are tentatively scheduled for:

- January 23rd, 2020 – teleconference.
- April 2020 – dates to be determined.

COMMITTEE MEMBER COMMENTS

Acting Chair Elwin Blackwell once again thanked members of their committee for their participation today, particularly Senator Giessel and Representative Wilson. He noted that it is a great honor to have the legislators participate in these meetings, and it adds a great deal of value to the work of this committee.

Committee members shared their final comments. Highlights included:

- Thanks for all your efforts.
- Thank you for all your hard work. This is something that has been wanted for a long time, so it's good to see it moving forward.
- There is obviously a lot of commitment to this work.

MEETING ADJOURNED

The meeting adjourned at 3:59 p.m.

THE STATE of ALASKA
GOVERNOR MICHAEL J. DUNLEAVY

Department of Education & Early Development
FINANCE & SUPPORT SERVICES
801 West 10th Street, Suite 200
PO Box 110500
Juneau, Alaska 99811-0500
Telephone: 907.465.6906

To: Bond Reimbursement & Grant Review Committee
From: School Facilities
Date: December 4, 2019

DEPARTMENT BRIEFING

Initial CIP Lists

The initial CIP lists are included in the packet. The department provided a memo to the school superintendents that announced the availability of the lists. The department also transmitted the lists to the governor's office for use in developing the FY2021 capital budget.

Following are some year-to-year initial list statistics:

	FY2019	FY2020	FY2021
Districts Submitting Applications	31	27	34
Number of Applications Submitted	105	86	120
Number of Applications Scored	67	62	80
Number of Applications Reused	39	24	40
Number of Applications Ineligible	1	3	4
Number of Applications with a Change in List	3	3	1
Number of Applications with a Budget Adjustment	41	48	39
Number of Projects on the Major Maintenance List	93	72	102
State Share Request on Major Maintenance List	$145,235,869	$113,787,100	$148,750,402
Number of Projects on the School Construction List	11	11	14
State Share Request on School Construction List	$179,214,343	$190,238,739	$142,797,809

Reconsideration requests were due to the department on Wednesday, November 27, 2019. To assist districts with the reconsideration process, the department had held an informational question and answer teleconference on November 14. Although attendance this initial year was sparse, feedback received was positive and the department will likely plan another teleconference next year.

Issues that arose in this year's application cycle are addressed in a separate FY21 CIP Department Briefing included in the packet. The revised statewide six-year plan based on compiled district reports is also included in the packet.

Per AS 14.11.014(b)(2), the committee is to make recommendations to the State Board of Education & Early Development (SBOE) concerning school construction grants.
Recommended Motion:

> I move that the Bond Reimbursement and Grant Review Committee recommend the State Board of Education & Early Development adopt the department's FY2021 list of projects eligible for funding under the School Construction Grant Fund and the Major Maintenance Grant Fund.

School Capital Project Funding Report

The FY2020 capital budget appropriated $7,400,000 for K-12 Major Maintenance. This provided sufficient funds for the priority #1 project, Barnette Magnet School Renovation Phase IV. The FY2020 operating budget appropriated $19,694,500 to the REAA Fund, which was added to unspent allocations returned to the Fund that were not needed for project completion. This enabled the department to award grants to the School Construction Grant Fund list priority #1, Eek K-12 School Renovation/Addition, completing funding for construction, and priority #2, Hollis K-12 School Replacement, receiving phased funding for design.

Fund balances in the major maintenance grant fund and school construction grant fund were not sufficient to allocate additional grants to projects from the FY20 lists. See the REAA & Small Municipality Fund Report for additional information on school construction list funding. A sheet on the CIP grant request and funding history FY11-FY21 is also included for reference.

As debt reimbursement projects reach completion, the recipients may decide to pay down the bond principal or redirect the remaining project balance to a voter and DEED-approved project, per 4 AAC 31.064. Although Mat-Su had received DEED approval to redirect prior voter-approved funds to new projects in 2018, the borough has since decided to withdraw those projects and pay down the bond principal.

Preventive Maintenance Update (PM State-of-the-State)

The Preventive Maintenance State of the State Report was updated on August 15, 2019, and is included in the packet with a charts showing compliance history. For the current FY21 CIP cycle, 48 of 53 school districts have certified preventive maintenance programs.

Districts not currently certified include:

- Aleutian Region
- Hydaburg City
- Lake & Peninsula
- Pelican
- Skagway
- Yukon Flats

Districts granted provisional certification and working with the department to develop a full year of evidence of plan adherence include:

- Bristol Bay Borough
- Chatham
- Galena City
- Lower Kuskokwim
- Lower Yukon

Problem areas continue to include tracking and reporting energy consumption and maintaining maintenance and custodial personnel training plans and records.

Site visits for the current fiscal year 2020 are scheduled to take place between November and April for the following school districts:

- Aleutians East Borough
- Cordova City
- Denali Borough
- Kake City
- Kashunamiut
- Kodiak Island Borough
- Kuspuk
- Nenana City
- Pribilof Island
- Unalaska City
- Yakutat Borough
- Yupiit

DEED Facilities Book – Data & Updates

In 2018, the department took steps to provide Committee access to the Facilities Book—a collection of pertinent data and historical information on school facilities and state-aid for school capital projects. The department's purpose is to provide information, resources, and leadership to support an excellent education for every student, every day. Ultimately, this resource should allow committee members to be conversant on a number of facility related education topics. However, we're still not quite ready with this as accessible, web-based content. For committee information, included in the packet is the current table of contents for this resource.

Regulations Update

The two regulations packages, one on commissioning and the other a general clean-up of 4 AAC 31 previously reviewed by BRGR and approved by SBOE had reviews completed by Department of Law and the Lieutenant Governor's office. The regulations were signed by the Lt. Governor on October 29, 2019, and took effect November 28, 2019.

The BRGR recommended change to the department-adopted ASHRAE 90.1 standard is anticipated be presented to the SBOE at its March quarterly meeting.

Cost Model Update

A proposal request is issued to HMS, Inc. at the end of December, annually, for an update to the DEED Cost Demand Model for Alaskan Schools. This will be the 19th Edition. The Model School Subcommittee was instrumental in guiding an enhancement to the Cost Model as part of the 18th Edition. Feedback regarding the use of this edition will be used to create the services being requested for the 19th Edition update. Also, in its September meeting, the Committee approved the incorporation of the updated geographic cost factors in the 19th Edition. The Model School Subcommittee is still considering best practices regarding the use of the Cost Model tool as a component of the Model Alaskan School and construction standards. Reference the subcommittee report for information on use of an annual $15,000 budget element intended for use in conducting a peer-driven update to a model school standard, including how that model school is represented in the Cost Model. Currently, the proposal is to again have the Committee serve as the peer-review for the Escalation Model School file with a briefing provided by HMS at the April Committee meeting.

Publications Update

Following is a list of publications currently managed by the department along with an estimated revision priority, and the year of publication or latest draft. Those in bold are publications proposed for committee approval.

1. **Guide for School Facility Condition Surveys** (1997) *[Proposed update 2020]*
2. Cost Format – *EED Standard Construction Cost Estimate Format* (2008 2nd Ed.) *[Proposed update 2020]*
3. **Alaska School Facilities Preventive Maintenance Handbook** (1999) *[Proposed update 2020]*
4. **School Design and Construction Standards Handbook** (new) *[Proposed 2021]*
5. Site Selection Criteria & Evaluation Handbook (2011 2nd Ed.) *[Proposed update 2021]*
6. **Guidelines for School Equipment Purchases** (2016) *[Proposed update 2021]*
7. **Space Guidelines Handbook** (1996)
8. Facility Appraisal Guide (1997)
9. Renewal & Replacement Schedule (2001)
10. Outdoor Facility Guidelines for Secondary Schools (new)
11. Capital Project Administration Handbook (2017)
12. Project Delivery Method Handbook (2017)
13. **Life Cycle Cost Analysis Handbook** (2018)
14. Professional Services for School Capital Projects (2018)
15. **Swimming Pool Guidelines** (2019)
16. **A Handbook to Writing Educational Specifications** (2019)

Guide for School Facility Condition Surveys
In response to actions in the last committee meeting, the department has prepared a second briefing paper for review by the committee that includes a recommendation for the next steps in updating this publication. Though not recommended as a first priority, the department is supporting creation of a new condition survey template that is narrative based. An outline of this template was included in the last packet and is resubmitted here with minor development.

The department will review committee actions on this publication and develop a schedule to complete an update in 2020 as deemed necessary.

Cost Format – DEED Standard Construction Cost Estimate Format
Included in the packet is the current *DEED Standard Construction Cost Estimate Format* (Cost Format 2008) along with the previous version from 2000. The attached briefing paper provides the background of this document and the two versions that have been produced to date. It compares and analyzes the two versions, their pros and cons, and offers options with a recommendation regarding an update to the publication and tool.

The department will review committee suggestions, incorporate those into an update, and bring back a draft publication to issue for public comment.

FY2021 District Six-Year Plan Projects

District Name	Priority	Project Location and Description	Primary Purpose	FY21	FY22	FY23	FY24	FY25	FY26	*FY21 Reuse*
Alaska Gateway	3	Eagle School Renovation	C	$ 3,208,000	* District did not submit a 6-year plan or application. Fiscal year data left as-is from prior year.					N
Alaska Gateway	4	Tetlin School Renovation	C		$ 1,671,000					N
Alaska Gateway	5	Dot Lake School Renovation	C			$ 1,161,000				N
Alaska Gateway	6	Mentasta School Renovation	C				$ 570,000			N
Aleutians East Borough	1	Sand Point K-12 School Pool Major Maintenance	C	$ 102,608						N
Anchorage	1	Gruening Middle School Accessibility Upgrades	C	$ 406,320						Y
Anchorage	2	Nunaka Valley Elementary School Roof Replacement	C	$ 1,945,769						Y
Anchorage	3	Northwood Elementary School Partial Roof Replacement	C	$ 2,177,488						Y
Anchorage	4	East High School Bus Driveway Improvements	F	$ 910,366						Y
Anchorage	5	Inlet View Elementary School Domestic Water System Improvements	C	$ 458,959						Y
Anchorage	6	Stellar Secondary School Fire Alarm	C	$ 298,630						N
Anchorage	7	West High School Roof Replacement	C	$ 7,497,000						N
Anchorage	8	Birchwood Elementary School Roof Replacement	C	$ 3,399,999						N
Anchorage	9	Mears Middle School Roof Replacement	C	$ 7,525,413						N
Anchorage	10	Ptarmigan Elementary School Roof Replacement	C	$ 3,233,861						N
Anchorage	11	Muldoon Elementary School Partial Roof Replacement	C	$ 666,927						Y
Anchorage	12	Roof and Gutter Improvements, 3 Schools	C	$ 1,463,847						N
Anchorage	13	Service High School Health and Safety Improvements	D	$ 4,776,466						N
Anchorage	14	Fire Lake Elementary School Roof Replacement	C	$ 580,315						Y
Anchorage	15	Spring Hill Elementary School Intercom/Clocks	C	$ 135,655						Y
Anchorage	16	Bartlett High School Intercom	C	$ 3,274,450						N
Anchorage	17	East High School Academic Area Safety & Pool Improvements	D		$ 13,377,000					N
Anchorage	18	Chinook Elementary School Roof Replacement & Retoration	C		$ 4,688,000					N
Anchorage	19	Campbell Elementary School Roof Replacement	C		$ 2,977,000					N
Anchorage	20	Alpenglow Elementary School Partial Roof Replacement	C		$ 5,276,000					N
Anchorage	21	Spring Hill Elementary School Roof Replacement	C		$ 5,226,000					N
Anchorage	22	College Gate Elementary School Roof Replacement	C		$ 5,941,000					N
Anchorage	23	Kincaid Elementary School Site Improvements	F		$ 5,350,000					N
Anchorage	24	Birchwood ABC School Boiler Replacement	C		$ 904,000					N
Anchorage	25	Prioritized Security Projects	C		$ 8,439,000					N
Anchorage	26	Planning & Design for 2022 Deferred Requirements Projects	C		$ 2,462,000					N
Anchorage	27	Abbott Loop Elementary School Planning and Design	B			$ 4,536,000				N
Anchorage	28	Inlet View Elementary School Planning and Design	B			$ 3,346,000				N
Anchorage	29	Chugiak Elementary School Roof Replacement	C			$ 5,525,000				N
Anchorage	30	Scenic Park Elementary School Roof Replacement	C			$ 5,525,000				N
Anchorage	31	Tudor Elementary School Roof Replacement	C			$ 5,525,000				N
Anchorage	32	Ursa Minor Elementary School Roof Restoration	C			$ 3,253,000				N
Anchorage	33	Kasuun Elementary School Partial Roof Replacement	C			$ 1,601,000				N
Anchorage	34	Lake Hood Elementary School Partial Roof Replacement	C			$ 1,633,000				N
Anchorage	35	Chugiak High School Roof Replacement	C			$ 14,998,000				N
Anchorage	36	Warehouse-Purchasing Roof Replacement	C			$ 5,669,000				N
Anchorage	37	Maintenance Building Roof Restoration	C			$ 3,159,000				N
Anchorage	38	Prioritized Security Projects				$ 289,000				N
Anchorage	39	Planning & Design for 2023 Deferred Requirements Projects	C			$ 2,266,000				N

District Name	Priority	Project Location and Description	Primary Purpose	FY21	FY22	FY23	FY24	FY25	FY26	*FY21 Reuse*
Anchorage	40	Abbott Loop Elementary School Construction	C					$ 45,359,000		*N*
Anchorage	41	Inlet View Elementary School Construction	C					$ 35,006,000		*N*
Anchorage	42	Wonder Park Elementary School Renovation Planning & Design	C					$ 1,778,300		*N*
Anchorage	43	Romig Middle School Renovation Design	C					$ 2,490,800		*N*
Annette Island	2	Maintenance and Facilities Building	C	$ 450,000	* District did not submit a 6-year plan or application. Fiscal year data left as-is from prior year.					*N*
Annette Island	3	Metlakatla District Office Renovation	C		$ 250,000					*N*
Annette Island	4	Elementary School Classroom Addition	B			$ 1,500,000				*N*
Annette Island	5	Metlakatla Music Building	C				$ 300,000			*N*
Annette Island	6	Metlakatla Middle School Parking Lot Expansion	F					$ 500,000		*N*
Bering Strait	1	Districtwide LED Upgrades	E	$ 750,000	* District did not submit a 6-year plan or application. Fiscal year data left as-is from prior year.					*N*
Bering Strait	2	District Office HVAC & Controls Replacement & Upgrades	D		$ 125,000					*N*
Bering Strait	3	Gambell K-12 School Commoms & Corridors Flooring Replacement	C		$ 180,000					*N*
Bering Strait	4	Wales K-12 School Roof Replacement	C	$ 470,000						*N*
Bering Strait	5	Unalakleet K-MS Window Replacement	C		$ 105,000					*N*
Bering Strait	6	Gambell K-12 School Window Replacement	C					$ 245,000		*N*
Bering Strait	7	Brevig Mission K-12 School Addition	C			$ 19,000,000				*N*
Bering Strait	8	Stebbins K-12 School Addition	C					$ 19,500,000		*N*
Bristol Bay Borough	1	Bristol Bay School Elementary and Gym Roof Replacement	E	$ 4,812,051						*N*
Chatham	1	Klukwan School Roof Replacement	C	$ 1,770,420						*N*
Chatham	2	Fire Alarm Upgrades, 3 Sites	D	$ 116,285						*Y*
Chatham	3	Angoon High School Roof Replacement	C		$ 2,342,000					*N*
Chatham	4	Lighting Replacement to LED, Angoon, Gustavus, Tenakee Springs	E		$ 330,000					*N*
Chatham	5	Shop Building for Voc Ed Training, Gustavus	C		$ 900,000					*N*
Chatham	6	Carpet Replacement, 4 sites	E			$ 104,675				*N*
Chatham	8	Bus Garage Construction, Angoon	C			$ 700,000				*N*
Chatham	9	Tenekee Springs School Roof Replacement	C				$ 1,245,733			*N*
Chatham	10	Classroom Construction, Gustavus	C				$ 600,000			*N*
Chatham	11	Window Replacement, 3 sites	C					$ 450,000		*N*
Chatham	12	Gym Replacement, Gustavus	D					$ 3,500,000		*N*
Chatham	13	Resurface Parking Lots, 4 sites	C						$ 100,000	*N*
Chugach	1	Chenega Bay K-12 School Renovation	C	$ 5,307,914						*Y*
Chugach	2	Tatitlek K-12 School Renovation	C	$ 5,842,462						*Y*
Chugach	3	Whittier K-12 School Renovation	C		$ 550,000					*N*
Chugach	4	Tatitlek K-12 School Playground Rehabilitation	F			$ 225,000				*N*
Copper River	1	District Office Roof Renovation & Energy Upgrade	C	$ 1,080,069						*Y*
Copper River	2	Glennallen & Kenny Lake Schools Energy Upgrade	E	$ 2,492,599						*Y*
Copper River	3	Glennallen Vocational Education Facility Renovation	D	$ 758,201						*Y*
Copper River	4	Kenny Lake School HVAC System Replacement	C		$ 500,000					*N*
Copper River	5	Glennallen School Renovation	C			$ 14,400,000				*N*
Copper River	6	Kenny Lake School Renovation	C				$ 9,300,000			*N*
Copper River	7	Slana School Renovation	C					$ 1,500,000		*N*
Copper River	8	District Office Renovation	C						$ 2,400,000	*N*
Craig	1	Craig Middle School Code and Security Improvements	D	$ 4,160,445						*N*
Craig	2	Craig Elementary and High School Security Upgrades	C		$ 500,000					*N*
Craig	3	Craig High School HVAC Controls Upgrades	B		$ 1,200,000					*N*
Craig	4	Craig Middle School Gym Roof Replacement	C			$ 900,000				*N*

District Name	Priority	Project Location and Description	Primary Purpose	FY21	FY22	FY23	FY24	FY25	FY26	*FY21 Reuse*
Craig	5	Craig Elementary School Boiler Replacement	C				$ 250,000			*N*
Craig	6	Craig High School Flooring Replacement	C					$ 400,000		*N*
Craig	7	District Bus Barn Construction	F				$ -		$ 350,000	*N*
Delta/Greely	5	Delta Elementary & High School Complex Door & Restroom ADA Upgrades	B	$ 300,000	* District did not submit a 6-year plan or application. Fiscal year data left as-is from prior year.					*N*
Delta/Greely	6	Delta High School Complex Parking Areas Resurfacing	F	$ 150,000						*N*
Delta/Greely	7	Delta Elementary Additional Classroom Expansion	F			$ 4,000,000				*N*
Delta/Greely	8	Replacement of Delta Junction Senior High School Complex	D			$ 32,000,000				*N*
Delta/Greely	9	Delta Elementary Well Reconstruction or Replacement	C			$ 80,642				*N*
Denali Borough	1	Anderson K-12 School Partial Roof Replacement	C	$ 1,671,973						*N*
Denali Borough	2	Generator Replacement, 3 schools	C	$ 1,214,073						*Y*
Denali Borough	3	Tri-Valley School Roof Repair and Replacement	D		$ 1,200,000					*N*
Denali Borough	4	Districtwide Electrical Code Upgrades	C		$ 200,000					*N*
Denali Borough	5	Tr-Valley School Septic System upgrades	C		$ 574,321					*N*
Denali Borough	6	Tri-Valley School Boiler Replacement	C			$ 500,000				*N*
Denali Borough	7	Cantwell School Electrical Upgrades	D				$ TBD			*N*
Denali Borough	8	Cantwell School Heating System Upgrade	E				$ TBD			*N*
Denali Borough	9	Cantwell School Restroom ADA Remodel	D				$ TBD	$ -		*N*
Denali Borough	10	Anderson School Heating Upgrades	C					$ 2,000,000		*N*
Denali Borough	11	Kitchen Renovations, 3 Schools	C						$ TBD	*N*
Denali Borough	12	Anderson School Egress and Acceesibility Upgrades	D						$ TBD	*N*
Denali Borough	13	Tri-Valley School Library and Restroom Renovation	D						$ TBD	*N*
Denali Borough	14	Cantwell School Renovation	C						$ TBD	*N*
Fairbanks	1	Administrative Center Replace Air Conditioning and Ventilation Replacement	E	$ 1,427,684						*Y*
Fairbanks	2	Lathrop High School Roof Replacement	C	$ 634,622						*N*
Fairbanks	3	Ben Eielson Jr/Sr High School Roof Replacement	C	$ 5,750,098						*N*
Fairbanks	4	Wood River Elementary School Roof Replacement	C	$ 4,470,534						*N*
Fairbanks	5	Arctic Light Elementary School Lighting & Energy Upgrades	E	$ 501,439						*N*
Fairbanks	6	Two Rivers Elementary School Flooring and Restroom Renovation	C	$ 377,462						*N*
Fairbanks	7	Tanana Middle School Exterior Upgrades	C	$ 3,118,680						*N*
Fairbanks	8	North Pole Middle School Exterior Upgrades	C	$ 1,981,194						*N*
Fairbanks	9	Anderson Renovation, Phase II	C		$ 2,547,132					*N*
Fairbanks	10	Administrative Center Ronovation, Phase II	C		$ 5,760,189					*N*
Fairbanks	11	Anne Wien Reonovation, Phase II	C		$ 4,045,746					*N*
Fairbanks	12	Tanana Classroom Upgrades, Phase II	C		$ 9,750,000					*N*
Fairbanks	13	Pearl Creek Classroom Upgrades, Phase I			$ 4,746,852					*N*
Fairbanks	14	Weller Classroom Upgrades, Phase I	E		$ 4,648,181					*N*
Fairbanks	15	Arctic Light Renovation, Phase II	C			$ 4,120,909				*N*
Fairbanks	16	Crawford Renovation, Phase II	C			$ 5,275,190				*N*
Fairbanks	17	Woodriver Renovation, Phase III	C			$ 6,750,695				*N*
Fairbanks	18	North Pole Middle School Classroom Upgrades, Phase I	C			$ 11,302,805				*N*
Fairbanks	19	University Park Site Improvements	F			$ 1,500,000				*N*
Fairbanks	20	Lathrop Kitchen Upgrade	E			$ 2,585,194				*N*
Fairbanks	21	Pearl Creek Traffic Safety Upgrades	F			$ 1,800,000				*N*
Fairbanks	22	Joy Classroom Upgrades, Phase 1	C			$ 5,264,721				*N*

District Name	Priority	Project Location and Description	Primary Purpose	FY21	FY22	FY23	FY24	FY25	FY26	*FY21 Reuse*
Fairbanks	23	West Valley Auditorium Upgrade	F				$ 1,000,000			*N*
Fairbanks	24	West Valley Gym Wing Renovation	C				$ 4,500,000			*N*
Fairbanks	25	Districtwide Hallway Locker Replacement	C				$ 1,389,685			*N*
Fairbanks	26	Two Rivers Renovation, Phase II	C				$ 1,544,938			*N*
Fairbanks	27	Anderson Renovation, Phase III	E				$ 4,788,341			*N*
Fairbanks	28	Tanana Renovation, Phase III	E				$ 9,721,735			*N*
Fairbanks	29	Salcha Classroom Upgrades, Phase I	E				$ 1,035,994			*N*
Fairbanks	30	Howard Luke Renovation, Phase II	C					$ 2,189,054		*N*
Fairbanks	31	Two Rivers Renovation, Phase III	E					$ 2,617,946		*N*
Fairbanks	32	Pearl Creek Renovation, Phase III	E					$ 7,425,456		*N*
Fairbanks	33	Weller Renovation, Phase III	E					$ 7,048,183		*N*
Fairbanks	34	Ticasuk Brown Classroom Upgrades	C					$ 4,454,439		*N*
Fairbanks	35	Woodriver Site Improvements	C					$ 1,500,000		*N*
Fairbanks	36	Salcha Renovation, Phase III	E						$ 1,543,874	*N*
Fairbanks	37	North Pole High School Renovation, Phase III	E						$ 20,909,191	*N*
Fairbanks	38	University Park Classroom Upgrades, Phase I	C						$ 4,645,752	*N*
Fairbanks	39	Howard Luke Classroom Upgrades, Phase I	C						$ 2,322,317	*N*
Galena	1	Galena Interior Learning Academey Composite Building Renovation	E	$ 5,122,477						*Y*
Galena	2	Sidney C. Huntington School Renovation	E		$ 5,250,000					*N*
Galena	3	Sidney C. Huntington Elementary School Fire Protection Upgrade	D			$ 162,000				*N*
Galena	4	Sidney C. Huntington School Floor Renovations	C				$ 255,000			*N*
Galena	5	GILA Automotive Lab Energy Upgrades	E					$ 51,000		*N*
Galena	6	GILA Cosmetology Building Energy Upgrade	E						$ 41,000	*N*
Haines	1	Haines High School Roof Replacement	C	$ 2,447,619						*Y*
Haines	2	Haines High School Locker Room Renovation	D	$ 863,023						*Y*
Haines	3	Haines High School Track Renovation and Upgrade	F		$ 1,000,000					*N*
Hoonah	1	Hoonah Central Boiler Replacement	C	$ 280,389						*N*
Hoonah	2	Hoonah School Playground Improvements	F	$ 227,747						*N*
Hydaburg	4	Hydaburg High School and Gym Roof Replacement	C	$ 950,000	* District not FY21 or FY20 CIP eligible. Fiscal year data left as-is from prior year(s).					*N*
Iditarod Area	1	David-Louis Memorial K-12 School HVAC Control Upgrades, Grayling	C	$ 116,071						*N*
Iditarod Area	2	David-Louis Memorial K-12 School Roof Replacement, Grayling	C	$ 2,944,419						*Y*
Iditarod Area	3	Blackwell K-12 School HVAC Upgrades, Anvik	C	$ 203,407						*Y*
Iditarod Area	4	McGrath School Backup Generator	C		$ 700,000					*N*
Juneau	1	Sayéik: Gastineau Community School Partial Roof Replacement	C	$ 1,471,318						*Y*
Juneau	2	Dzantiki Heeni Middle School Roof Replacement	C	$ 1,778,875						*Y*
Juneau	3	Riverbend Elementary School Roof Replacement	C		$ 2,000,000					*N*
Juneau	4	Juneau-Douglas High School Roof Repair	C			$ 500,000				*N*
Juneau	5	Marie Drake School Renovation	C				$ 31,000,000			*N*
Juneau	6	Mendenhall River Community School Renovation	C				$ 20,000,000			*N*
Juneau	7	Floyd Dryden Middle School Roof Repair	C					$ 500,000		*N*
Kake	1	Kake Schools Heating Updates	C	$ 239,522						*N*
Kake	2	Kake High School Plumbing Replacement	C	$ 790,589						*N*
Kake	3	Exterior Upgrades - Main School Facilities	C	$ 287,227						*Y*
Kake	4	Kake High School Gym Floor and Bleacher Replacement	C	$ 359,208						*N*
Kake	5	Vocational Building Renovations	C		$ 400,000					*N*

District Name	Priority	Project Location and Description	Primary Purpose	FY21	FY22	FY23	FY24	FY25	FY26	*FY21 Reuse*
Kake	6	Covered Play Area Construction & Playground Equipment Replacement	F		$ 800,000					*N*
Kake	7	Kake Middle School and Library HVAC Upgrades	C			$ TBD				*N*
Kake	8	Kake High School HVAC Replacement	D				$ TBD			*N*
Kake	9	Kake Elementary Roof Replacement	C					$ 1,500,000		*N*
Kenai	1	Kenai Middle School Security Remodel	F	$ 1,159,177						*N*
Kenai	2	Seward Middle School Exterior Repair	C	$ 857,314						*N*
Kenai	3	Nanwalek Middle/High School Replacement	B	$ 25,000,000						*N*
Kenai	4	Homer High School Attic Ventilation and Gutters	C	$ 5,620,000						*N*
Kenai	5	West Homer Elementary North Wall Improvement	C	$ 450,000						*N*
Kenai	6	Homer High School Heating Controls Replacement	C	$ 700,000						*N*
Kenai	7	Seward High School Security Remodel	F	$ 1,200,000						*N*
Kenai	8	Tebughna Window Replacement	C		$ 750,000					*N*
Kenai	9	Kenai Alt/ABC Window and Siding Replacement	C		$ 550,000					*N*
Kenai	10	Ninilchik Window Replacement	C		$ 500,000					*N*
Kenai	11	Paul Banks Elementary Parking and Traffic Upgrades	F			$ 850,000				*N*
Kenai	12	Chapman Elementary Parking and Traffic Upgrades	F			$ 200,000				*N*
Kenai	13	Susan B English Backup Generator	C			$ 40,000				*N*
Kenai	14	Soldotna Elementary Parking & Traffic Upgrade	F				$ 750,000			*N*
Kenai	15	Kenai Middle School Kitchen Upgrade	F				$ 250,000			*N*
Kenai	16	Seward High Field Turf and Track	F				$ 3,000,000			*N*
Kenai	17	Redoubt Elementary Parking Lot Improvements	F					$ 150,000		*N*
Kenai	18	Mt View Elementary Parking Lot Improvements	F					$ 550,000		*N*
Kenai	19	McNeil Canyon Elementary Boiler Replacement	C					$ 100,000		*N*
Kenai	20	Districtwide Re-roof Phase III - Metal Roofing Systems	C						$ 16,450,000	*N*
Kenai	21	Homer High School Parking Lot Renovation and ADA Entrance Upgrade	F						$ 850,000	*N*
Kenai	22	School District Warehouse Backup Generator	C						$ 85,000	*N*
Ketchikan	1	Ketchikan High School Security Upgrades	C	$ 507,023						*Y*
Ketchikan	2	Pt. Higgins Elementary Mechanical Upgrades	C		$ 1,950,566					*N*
Ketchikan	3	Pt. Higgins Elementary Pitched Roof Replacement	E		$ 4,086,729					*N*
Ketchikan	4	Ketchikan High School Biomass Boiler	E			$ 2,083,615				*N*
Kodiak	1	Peterson Elementary School Roof Replacement	C	$ 2,153,810						*N*
Kodiak	2	Chiniak K-12 School Water Treatment Code Compliance and Upgrade	D	$ 362,669			$ 263,555			*N*
Kodiak	3	North Star Elementary School Siding Replacement	C	$ 502,039						*N*
Kodiak	4	East Elementary School Parking Lot Safety Upgrade and Repaving	F	$ 474,082						*N*
Kodiak	5	East Elementary School Special Electrical and Security	D	$ 1,420,639						*N*
Kodiak	6	Kodiak Middle School Special Electrical & Security	D		$ 2,008,509					*N*
Kodiak	7	Main Elementary Special Electrical and Security	D		$ 1,592,690					*N*
Kodiak	8	Main Elementary Siding Repplacement	C			$ 565,304				*N*
Kodiak	9	East Elementary Siding Replacement	C			$ 299,279				*N*
Kodiak	10	North Star Elementary Special Electrical & Security	D			$ 1,401,011				*N*
Kodiak	11	Chiniak School Flooring Replacement	C				$ 86,936			*N*
Kodiak	12	Port Lions School Flooring Replacement	C				$ 261,626			*N*
Kodiak	13	Kodiak Middle School Exterior Improvements	C				$ 622,943			*N*
Kodiak	14	Peterson Elementary Special Electrical & Security	D				$ 1,575,515			*N*
Kodiak	15	North Star Elementary HVAC Controls Replacement	E					$ 1,043,502		*N*
Kodiak	16	Peterson Elementary Exterior Improvements	C					$ 400,998		*N*

District Name	Priority	Project Location and Description	Primary Purpose	FY21	FY22	FY23	FY24	FY25	FY26	*FY21 Reuse*
Kodiak	17	Chiniak School HVAC Controls Replacement	E					$ 223,984		*N*
Kodiak	18	Main Elementary HVAC Controls Replacement	E						$ 996,861	*N*
Kodiak	19	Akhiok School HVAC Controls Replacement	E						$ 246,439	*N*
Kodiak	20	Port Lions School HVAC Controls Replacement	E						$ 632,779	*N*
Kuspuk	1	Jack Egnaty Sr. K-12 School Roof Replacement, Sleetmute	C	$ 1,425,655						*Y*
Lake & Peninsula	1	Exterior Door Replacement, 3 Schools	C	$ 463,336						*N*
Lake & Peninsula	2	Districtwide Plumbing Renewal	C		$ 1,400,000					*N*
Lake & Peninsula	3	Districtwide Playground Safety Upgrades	C			$ 300,000				*N*
Lake & Peninsula	4	Districtwide Roof Replacements	C				$ 800,000			*N*
Lower Kuskokwim	1	William N. Miller K-12 Memorial School Replacement, Napakiak	B	$ 35,634,841						*Y*
Lower Kuskokwim	2	Anna Tobeluk Memorial K-12 School Renovation/Addition, Nunapitchuk	B	$ 44,756,614						*N*
Lower Kuskokwim	3	Newtok K-12 School Relocation/Replacement, Merkarvik	B	$ 31,842,829						*N*
Lower Kuskokwim	4	Water Storage and Treatment, Kongiganak	D	$ 6,537,224						*Y*
Lower Kuskokwim	5	Akula Elitnauvik K-12 School Renovation/Addition, Kasigluk-Akula	C	$ 3,843,331						*N*
Lower Kuskokwim	6	Akiuk Memorial K-12 School Renovation, Kasigluk-Akiuk	C	$ 3,442,187						*N*
Lower Kuskokwim	7	Bethel Regional High School Boardwalk Replacement	D	$ 1,162,891						*Y*
Lower Kuskokwim	8	Bethel Campus Transportation and Drainage Upgrades	F	$ 1,181,532						*Y*
Lower Kuskokwim	9	Qugcuun Memorial K-12 School Renovation Addition, Oscarville	B	$ 4,173,354						*N*
Lower Kuskokwim	10	Arviq School Improvement, Platinum	D		$ TBD					*N*
Lower Kuskokwim	11	Fuel Tank Disposition, Districtwide	D		$ 2,031,078					*N*
Lower Kuskokwim	12	Fuel Tank Remediation, Bethel	D		$ 215,152					*N*
Lower Kuskokwim	13	Fuel Tank Upgrades, Districtwide	D			$ 7,250,000				*N*
Lower Kuskokwim	14	Nelson Island School Deferred Maintenance, Toksook Bay	C				$ 40,300,000			*N*
Lower Kuskokwim	15	Roof Repairs, Districtwide	C				$ 27,800,000			*N*
Lower Kuskokwim	16	Wastewater Upgrades, Districtwide	D					$ 14,200,000		*N*
Lower Kuskokwim	17	Water Treatment and Storage Upgrades, Districtwide	D					$ 8,400,000		*N*
Lower Kuskokwim	18	Fire Alarm and Sprinklers, Districtwide	D						$ TBD	*N*
Lower Yukon	1	Sheldon Point K-12 School Foundation Cooling & Repairs, Numam Iqua	C	$ 3,368,065						*N*
Lower Yukon	2	Hooper Bay K-12 School Emergency Lighting & Retrofit	D	$ 234,545						*N*
Lower Yukon	3	Hooper Bay K-12 Exterior Repairs	C	$ 2,250,675						*Y*
Lower Yukon	4	Scammon Bay K-12 School Emergency Lighting Retrofit	D	$ 119,467						*N*
Lower Yukon	5	Ignatius Beans K-12 School Marine Header Pipeline	D	$ 1,373,070						*N*
Lower Yukon	6	Scammon Bay K-12 School Siding Replacement	C	$ 1,039,782						*Y*
Lower Yukon	7	LYSD Central Office Renovation	C	$ 5,252,629						*N*
Lower Yukon	8	Sheldon Point K-12 School Exterior Repairs, Nunam Iqua	C	$ 583,583						*Y*
Lower Yukon	9	Security Access Project, 6 Sites	C	$ 1,797,703						*N*
Lower Yukon	10	Kotlik and Pilot Station K-12 Schools Renewal and Repair	C	$ 2,826,949						*Y*
Mat-Su	1	Houston Middle School Renovation/Addition	B	$ 4,458,740						*N*
Mat-Su	2	Big Lake Elementary School Water System Replacement, Ph 2	D	$ 850,065						*N*
Mat-Su	3	Butte and Snowshoe Elementary Schools Water System Replacement	D	$ 2,149,178						*N*
Mat-Su	4	Talkeetna Elementary School Roof Replacement	D	$ 1,693,296						*N*
Mat-Su	5	Colony and Wasilla Middle Schools Roof Replacement	C	$ 4,147,375						*N*
Mat-Su	6	Districtwide Elevator Upgrades	D	$ 3,295,065						*N*
Mat-Su	7	Windows and Lighting Upgrades, 3 Sites	C	$ 3,872,262						*N*
Mat-Su	8	Districtwide Seismic Upgrades, 11 Sites	C		$ 7,326,904					*N*

District Name	Priority	Project Location and Description	Primary Purpose	FY21	FY22	FY23	FY24	FY25	FY26	*FY21 Reuse*
Mat-Su	9	Palmer High School Mechanical Upgrade, Phase 3	D		$ 3,652,000					*N*
Mat-Su	10	Box School Renovations, 4 Schools (Butte, Pioneer Peak, Cottonwood Creek, Snowshoe Elementarys)	D		$ 23,434,134					*N*
Mat-Su	11	HVAC Control Upgrades Phase 2, 7 Schools	D		$ 9,162,366					*N*
Mat-Su	12	Emergency Generator Replacements Phase 2, 7 Schools	D		$ 6,760,486					*N*
Mat-Su	13	Palmer Junior Middle School Renovation	C			$ 19,866,000				*N*
Mat-Su	14	Parking Lot Improvements, 7 Sites	C					$ 3,319,096		*N*
Mat-Su	15	District Bleacher Refresh, 8 Schools	D					$ 6,356,000		*N*
Mat-Su	16	Athletic Field Upgrades, 7 Schools	C					$ 8,457,655		*N*
Mat-Su	17	Exterior Envelope Upgrades, 4 Schools (Colony High and Middle, Palmer High and Junior Middle)	D					$ 11,116,192		*N*
Mat-Su	18	District Flooring Upgrades, 10 Sites	C					$ 2,960,051		*N*
Nenana	1	Nenana K-12 School Flooring & Asbestos Abatement	D	$ 415,265						*N*
Nenana	2	Nenana K-12 School Boiler Replacement	E	$ 185,858						*N*
Nenana	3	Nenana K-12 School Fire Suppression System Replacement	D	$ 1,559,114						*N*
Nenana	4	Nenana K-12 School Major Maintenance [Phase I]	D		$ 1,600,000					*N*
Nenana	5	Nenana K-12 School Roof Repair/Replacement	C			$ 1,365,000				*N*
Nenana	6	Nenana K-12 School Major Maintenance [Phase II]	E				$ 577,500			*N*
Nenana	7	Nenana K-12 School Major Maintenance [Phase III]	A					$ 650,000		*N*
Nenana	8	Nenana K-12 School ADA Access & Site Improvements	F						$ 1,312,500	*N*
Nenana	9	Nenana K-12 School Career and Technical Education Classroom Remodel and Update	D						$ 1,075,000	*N*
Nome	1	Nome Beltz Jr/Sr High School Boiler Replacement & Mechanical Upgrades	C	$ 75,998						*N*
Nome	2	Anvil City Charter School Restroom Renovations	C	$ 391,554						*N*
Nome	3	Nome Elementary School Fire Alarm Replacement	C	$ 603,766						*N*
Nome	4	Nome Schools DDC Control Upgrades	D	$ 823,882						*N*
Nome	5	Nome Beltz/Jr/Sr Hign School Generator Replacement	C	$ 900,356						*N*
Nome	6	Nome Beltz Jr/Sr High School Security & ADA Upgrades	C		$ 475,000					*N*
Nome	7	Nome Beltz Elementary School Exterior and Parking Upgrades	D		$ 2,500,000					*N*
Nome	8	Nome Beltz Jr/Sr High School Exterior Upgrades	C		$ 225,000					*N*
Nome	9	Beltz High School Interior Renovations	C			$ 350,000				*N*
Nome	10	Snow Removal/Control Program Upgrade	F			$ 350,000				*N*
Nome	11	Quonset Hut Siding Replacement	C				$ 250,000			*N*
Nome	12	Maintenance Building Siding and Roof Replacement	C				$ 225,000			*N*
Nome	13	Building D Exterior Upgrades	C					$ 200,000		*N*
North Slope Borough	1	Barrow High School Life Safety Renovations	C	$ 14,800,000	$ 9,800,000	* District did not submit a 6-year plan or application. Fiscal year data left as-is fror				*N*
North Slope Borough	2	Districtwide Renovations and Systems Upgrades	C	$ 8,295,000						*N*
North Slope Borough	3	Districtwide Renovations and Systems Upgrades	C		$ 8,295,000					*N*
North Slope Borough	4	Districtwide Renovations and Systems Upgrades	C			$ 8,295,000				*N*
North Slope Borough	5	Districtwide Renovations and Systems Upgrades	C				$ 8,295,000			*N*
Northwest Arctic	1	Buckland K-12 HVAC Renewal and Upgrade	C	$ 1,037,348						*N*
Northwest Arctic	2	Selawik Heating System Upgrade	E		$ 446,250					*N*
Northwest Arctic	3	Selawik Roof Replacement	E			$ 1,752,000				*N*
Northwest Arctic	4	Buckland Exterior Envelope Renewal	C				$ 1,510,000			*N*
Northwest Arctic	5	Noorvik Roof Replacement	C					$ 1,846,000		*N*

District Name	Priority	Project Location and Description	Primary Purpose	FY21	FY22	FY23	FY24	FY25	FY26	*FY21 Reuse*
Northwest Arctic	6	Selawik Wall System Renewal	C						$ 2,650,000	*N*
Pelican	4	Pelican High School Lighting and Electrical Upgrades	C	$ 350,000	* District did not submit a 6-year plan or application. Fiscal year data left as-is from prior year.					*N*
Pelican	5	Pelican High School Roof Replacement	C		$ 600,000					*N*
Petersburg	3	Petersburg Stedman Elementary Plumbing System Replacement	C		$ 750,000	* District did not submit a 6-year plan or application. Fiscal year data left as-is fror				*N*
Petersburg	4	Repair Auditorium Failing Floor System	C			$ 150,000				*N*
Petersburg	5	Districtwide ADA Renovations	D				$ 1,000,000			*N*
Pribilof	1	St. Paul Island School Roof Repacement and Structure Repairs	C	$ 1,935,097						*N*
Pribilof	2	Gym Roof Beam Replacement	C		$ 200,000					*N*
Pribilof	3	High School Wing Foundation Stabilization and Door and Window Replacement	C			$ 80,000				*N*
Sitka	1	Keet Gooshi Heen Elementary Covered PE Structure Renovation	C	$ 529,989						*Y*
Sitka	2	Keet Gooshi Heen Playground Equipment Refurbishment	C		$ 180,000					*N*
Sitka	3	Baranof School Playground Equipment Refurbishment	C		$ 180,000					*N*
Sitka	4	Keet Gooshi Heen Electrical Boiler Installation	E			$ 350,000				*N*
Sitka	5	Baranof School Electrical Boiler Installation	C			$ 350,000				*N*
Sitka	6	Districtwide Interior/Exterior LED Lighting Upgrade	E			$ 400,000				*N*
Sitka	7	Sitka High School Parking Area Paving	F				$ 275,000			*N*
Sitka	8	Keet Gooshi Heen Parking/Play Area Paving	F				$ 300,000			*N*
Sitka	9	Blatchley School Parking Area Paving	F					$ 200,000		*N*
Sitka	10	Baranof School Parking/Play Area Paving	F						$ 275,000	*N*
Southeast Island	1	Thorne Bay K-12 Fire Suppression System	C	$ 536,506						*N*
Southeast Island	2	Hollis K-12 School Replacement	B	$ 9,640,279						*N*
Southeast Island	3	Thorne Bay K-12 Mechanical Control Upgrades	C	$ 1,225,853						*N*
Southeast Island	4	Thorne Bay K-12 Underground Storage Tank Replacement	C	$ 428,927						*N*
Southeast Island	5	Port Alexander & Thorne Bay K-12 Schools Roof Replacement	C	$ 3,881,355						*N*
Southeast Island	6	Thorne Bay K-12 School Flooring Replacement	C	$ 71,549						*N*
Southeast Island	7	Port Alexander K-12 School Domestic Water Pipe Replacement	D	$ 90,294						*N*
Southwest Region	1	Twin Hills K-12 School Renovations	C	$ 2,238,084						*Y*
Southwest Region	2	William "Sonny" Nelson K-12 School Renovations, Elwok	C	$ 3,971,844						*Y*
Southwest Region	3	Aleknagik K-12 School Renovations	C	$ 3,912,898						*Y*
Southwest Region	4	Manokotak K-12 School Interior Floor Finishes and Ceiling	C				$ 1,451,727			*N*
Southwest Region	5	Togiak School Interior Floor Finishes	C					$ 1,533,070		*N*
Southwest Region	6	Togiak K-12 HVAC Controls Upgrade	E						$ 570,018	*N*
St. Mary's	1	St. Mary's Campus Renewal and Repairs	C	$ 279,641						*N*
Valdez	1	Valdez High and Hermon Hutchens Elements Schools Domestic Water Piping Replacement	D	$ 3,043,356						*N*
Valdez	2	Valdez High and Hermon Hutchens Elementary Generator Replacement	C	$ 809,935						*N*
Valdez	3	Valdez High School Windows Replacement	C	$ 516,893						*N*
Valdez	4	Valdez High and Hermon Hutchens Elementary Exterior Door Upgrades and Security	C		$ 3,200,000					*N*
Valdez	5	Hermon Hutchens Elementary Floor Replacement	C		$ 850,000					*N*
Valdez	6	Hermon Hutchens Elemetary Roof and Siding Replacement	C			$ 2,350,000				*N*
Valdez	7	Valdez High School Parking Lot Lighting Upgrade	C			$ 125,000				*N*
Valdez	8	Hermon Hutchens Elementary and Valdez High Schools Kitchen Upgrades	C			$ 350,000				*N*

District Name	Priority	Project Location and Description	Primary Purpose	FY21	FY22	FY23	FY24	FY25	FY26	*FY21 Reuse*
Valdez	9	Valdez High School Gym Locker Room Remodel	C				$ 1,500,000			*N*
Yukon Flats	8	Venetie Major Maintenance	C	$ TBD	* District did not submit a 6-year plan or application. Fiscal year data left as-is from prior year.					*N*
Yukon Flats	9	Fort Yukon Major Maintenance	C		$ TBD					*N*
Yukon-Koyukuk	1	Minto K-12 School Renovation/Addition	A	$ 10,022,024						*N*
Yukon-Koyukuk	2	Ella B. Vernetti K-12 School Boiler replacement, Koyukuyk	C	$ 468,918						*N*
Yukon-Koyukuk	3	Rampart Replacement K-12 School Construction	C		$ 9,000,000					*N*
Yukon-Koyukuk	4	District Office Exterior Upgrade	C		$ 400,000					*N*
Yukon-Koyukuk	5	Hughes Renovation and Upgrade	D			$ 5,000,000				*N*
Yukon-Koyukuk	6	Districtwide Contaminated Soil Remediation Plans	C			$ 300,000				*N*
Yukon-Koyukuk	7	Kaltag Roof Replacement	C				$ 300,000			*N*
Yukon-Koyukuk	8	Kaltag Kitchen Code Upgrade	D					$ 100,000		*N*
Yukon-Koyukuk	9	Roof Replacement, 3 Schools	C						$ 500,000	*N*
Yupiit	1	Tuluksak K-12 School Generator Refurbishment	C	$ 159,188						*N*
Yupiit	2	Gym Floor Replacement, 3 Schools	C	$ 295,802						*N*
Yupiit	3	Mechanical System Improvements, 3 Schools	C	$ 849,075						*N*
Yupiit	4	Akiachak K-12 School Window Replacement	C	$ 117,774						*N*
Yupiit	5	Tuluksak K-12 Fuel Tank Replacement	D	$ 2,200,239						*Y*
Yupiit	6	Playground Construction, 3 Schools	F	$ 646,159						*Y*
Yupiit	7	Flooring Replacement, 3 Schools	C		$ 728,000					*N*
Yupiit	8	Bathroom and Locker Room Renovation	C		$ 2,739,489					*N*
Yupiit	9	Roof and Exterior Siding Repair/Replacement	C		$ 3,534,782					*N*
Yupiit	10	Mechanical and Fire Equipment Upgrades	C		$ 1,583,814					*N*
Yupiit	11	Kitchen Upgrades, 3 Schools	C			$ 4,376,304				*N*
Yupiit	12	Structural Leveling, 3 Schools	C			$ 5,000,000				*N*
Yupiit	13	Locker Renewal, 3 Schools	C			$ 72,036				*N*
Yupiit	14	Classroom Cabinetry and Countertop Replacement, 3 Schools	C			$ 806,536				*N*
Yupiit	15	Fuel Tank Barrier Replacement	C				$ 349,000			*N*
Yupiit	16	IT Infastructure/Electrical Upgrades	C				$ 405,464			*N*
Yupiit	17	Exterior Window Replacement, 3 Schools	C				$ 604,173			*N*
Yupiit	18	Exterior Door Replacement, 3 Schools	C				$ 100,376			*N*
Yupiit	19	Akiachak and Akiak Generator Refurbishment	C					$ 79,438		*N*
Yupiit	20	Boiler Refurbishment, 3 Schools	C					$ 769,080		*N*
Yupiit	21	Interior Door Replacements	C					$ 142,695		*N*
Yupiit	22	Classroom Furniture Replacement	C					$ 267,312		*N*
Yupiit	23	Tuluksak Generator Replacement	C						$ 691,361	*N*
Total Six-Year Plan Estimate: $		**1,298,785,855**	FY Totals:	$ 401,244,985	$ 219,623,370	$ 235,834,916	$ 180,355,241	$ 203,080,251	$ 58,647,092	*$ 102,166,342*

Department of Education & Early Development
Division of Finance Support Services
REAA Fund

As of:
Monday, July 29, 2019

	FY2013	FY2014	FY2015	FY2016	FY2017	FY2018	FY2019	FY2020	Total
Deposits:									
REAA Fund Capitalization	35,512,300	35,200,000	39,921,078	38,789,000	31,230,000	40,640,000	39,661,000	19,694,500	280,647,878
Interest Earned (Actual as of 7/7/17)	118,206	368,142	383,180	-	-	-	-	-	869,528
Subtotal Deposits	35,630,506	35,568,142	40,304,258	38,789,000	31,230,000	40,640,000	39,661,000	19,694,500	281,517,406
REAA-funded Capital Project Funded Projects:									
Nightmute School Renovation/Addition	-	32,965,301							32,965,301
Kuinerramiut Elitnaurviate K-12 Renovation/Addition, Quinhagak	-	13,207,081						(5,041,059)	8,166,022
Kwethluk K-12 Replacement School	-	25,008,100	31,516,900					(10,000,000)	46,525,000
St. Mary's Andreafski High School Gym Construction	-	-	8,958,100						8,958,100
Bethel Regional High School Multipurpose Addition	-	-	-	-	7,129,765				7,129,765
Lewis Angapak K-12 School Renovation/Addition, Tuntutuliak	-	-	-	-	40,343,416	704,620			41,048,036
Jimmy Huntington K-12 Renovation/Addition, Huslia	-	-	-	-	15,394,787	980,000			16,374,787
Shishmaref K-12 School Renovation/Addition	-	-	-	-	-	16,184,008	490,000		16,674,008
J Alexie Memorial K-12 School Replacement, Atmautluak	-	-	-	-	-	3,261,667	39,556,086		42,817,753
Auntie Mary Nicoli Elementary School Replacement, Aniak	-	-	-	-	-	18,641,380			18,641,380
Eek K-12 School Renovation/Addition	-	-	-	-	-	-	2,481,373	34,450,733	36,932,106
St. Mary's Campus Upgrades Ph2	-	-	-	-	-	-	3,449,928		3,449,928
Hollis K-12 School Replacement	-	-	-	-	-	-	-	672,793	672,793
Subtotal REAA-funded Projects	-	71,180,482	40,475,000	-	62,867,968	39,771,675	45,977,387	20,082,467	*280,354,979*
Reconciliation of Available Funds:	**35,630,506**	**18,166**	**(152,576)**	**38,636,424**	**6,998,456**	**7,866,781**	**1,550,394**	***1,162,427***	***1,162,427***

CIP Grant Requests and Funding History FY11 to FY21

	FY2011	FY2012	FY2013	FY2014	FY2015	FY2016	FY2017	FY2018	FY2019	FY2020	FY2021
CIP Grant Requests											
Total Applications	175	158	158	137	121	126	127	131	105	86	120
Percent of Districts Applying	73%	72%	64%	66%	64%	66%	68%	70%	58%	51%	64%
# Projects Reusing Scores	35	45	20	52	23	57	27	67	39	24	40
Major Maintenance	130	117	120	111	102	102	98	107	84	72	101
MM Total $ (*)	$272,421,065	$275,132,938	$267,017,375	$253,682,082	$183,505,181	$172,195,526	$181,570,096	$164,887,094	$142,892,281	$113,787,100	$148,750,402
School Construction	35	32	27	24	17	18	18	15	11	11	14
SC Total $ (*)	$411,643,149	$313,999,772	$276,691,304	$284,133,432	$274,150,436	$230,920,120	$206,267,345	$123,294,419	$179,214,343	$190,238,739	$142,797,809

Notes:

(*) Total $ is State Share

School Construction and Major Maintenance Funding										
Grant Projects Funded	$155,901,830	$87,765,592	$78,952,700	$94,171,539	$43,279,791	$56,728,592	$74,715,471 (1)	$53,177,429 (1)	$82,665,391 (1)	$42,489,249 (1)
Percent Grant $ Funded	22.8%	14.9%	14.5%	17.5%	9.5%	14.1%	8.6%	17.3%	15.5%	14.0%
Debt Projects	$90,251,551 (2)	$409,400,183 (2)	$78,525,000 (2)	$138,622,000 (2)	$13,353,394 (2)	$0	$0	$0	$0	$0

Notes:

Grant Projects Funded includes all reappropriated or reallocated funding, including grant funding from prior fiscal years, as of November 1, 2019

(1) Includes AS 14.11.025 grants

(2) SB237 debt projects DEED & voter approved, effective 7/1/2010 - 12/31/2014

PM State-of-the-State

Report of DEED Maintenance Assessments and Related Data

AS OF 8/15/2019

District	Date of Last Visit	Year of Next Visit	Approved FAIS	Maintenance Management	Energy	Custodial	Training	R&R Schedule	Status	Maint. Program	Program Name	CIP Eligible
Alaska Gateway	3/30/2017	2022	Y	Y	Y	Y	Y	Y	6 of 6	W	Dude Solutions	Yes
Aleutian Region	7/19/2011	2016	Y	N	Y	Y	Y	Y	5 of 6	W	Dude Solutions	No
Aleutians East	12/17/2014	2020	Y	Y	Y	Y	Y	Y	6 of 6	W	MC*	Yes
Anchorage	1/23/2018	2023	Y	Y	Y	Y	Y	Y	6 of 6	W	Dude Solutions	Yes
Annette Island	12/3/2015	2021	Y	Y	Y	Y	Y	Y	6 of 6	W	Dude Solutions	Yes
Bering Strait	4/14/2019	2024	Y	Y	Y	Y	Y	Y	6 of 6	W	Dude Solutions	Yes
Bristol Bay Borough	1/18/2019	2024	Y	Y	Y [P]	Y	Y	Y	6 of 6	W	MC*	Yes
Chatham	3/6/2017	2022	Y	Y	Y [P]	Y	Y	Y	6 of 6	W	MC*	Yes
Chugach	1/26/2018	2023	Y	Y	Y	Y	Y	Y	6 of 6	W	MC*	Yes
Copper River	3/31/2017	2022	Y	Y	Y	Y	Y	Y	6 of 6	W	Dude Solutions	Yes
Cordova	1/13/2015	2020	Y	Y	Y	Y	Y	Y	6 of 6	W	Dude Solutions	Yes
Craig City	11/14/2016	2022	Y	Y	Y	Y	Y	Y	6 of 6	W	MC*	Yes
Delta/Greely	3/28/2017	2022	Y	Y	Y	Y	Y	Y	6 of 6	W	Dude Solutions	Yes
Denali Borough	3/24/2015	2020	Y	Y	Y	Y	Y	Y	6 of 6	W	MC*	Yes
Dillingham City	2/2/2016	2021	Y	Y	Y	Y	Y	Y	6 of 6	W	MC*	Yes
Fairbanks	3/27/2018	2023	Y	Y	Y	Y	Y	Y	6 of 6	W	Web Help Desk	Yes
Galena	3/22/2018	2023	Y	Y	Y [P]	Y	Y	Y	6 of 6	W	MC*	Yes
Haines	11/17/2015	2021	Y	Y	Y	Y	Y	Y	6 of 6	W	Dude Solutions	Yes
Hoonah City	4/17/2017	2022	Y	Y	Y	Y	Y	Y	6 of 6	W	MC*	Yes
Hydaburg City	11/16/2016	2022	Y	N	Y	Y	N	Y	4 of 6	W	MC*	No
Iditarod Area	4/8/2019	2024	Y	Y	Y	Y	Y	Y	6 of 6	W	Dude Solutions	Yes
Juneau	11/3/2015	2021	Y	Y	Y	Y	Y	Y	6 of 6	L	TMA	Yes
Kake City	2/4/2015	2020	Y	Y	Y	Y	Y	Y	6 of 6	W	MC*	Yes
Kashunamiut	11/13/2014	2020	Y	Y	Y	Y	Y	Y	6 of 6	W	MC*	Yes
Kenai Peninsula	3/1/2018	2023	Y	Y	Y	Y	Y	Y	6 of 6	W	Dude Solutions	Yes
Ketchikan	12/2/2015	2021	Y	Y	Y	Y	Y	Y	6 of 6	W	Dude Solutions	Yes
Klawock City	12/19/2016	2022	Y	Y	Y	Y	Y	Y	6 of 6	W	MC*	Yes
Kodiak Island	10/29/2014	2020	Y	Y	Y	Y	Y	Y	6 of 6	W	Dude Solutions	Yes
Kuspuk	2/24/2015	2020	Y	Y	Y	Y	Y	Y	6 of 6	W	MC*	Yes
Lake & Peninsula	1/16/2019	2024	Y	Y	N	Y	Y	Y	5 of 6	W	Manager Plus	No
Lower Kuskokwim	3/25/2019	2024	Y	Y [P]	Y [P]	Y	Y [P]	Y	6 of 6	W	Manager Plus	Yes
Lower Yukon	3/20/2019	2024	Y	Y	Y [P]	Y [P]	Y [P]	Y	6 of 6	W	MC*	Yes
Mat-Su Borough	2/3/2017	2022	Y	Y	Y	Y	Y	Y	6 of 6	W	Dude Solutions	Yes
Nenana City	3/26/2015	2020	Y	Y	Y	Y	Y	Y	6 of 6	W	MC*	Yes
Nome City	4/28/2017	2022	Y	Y	Y	Y	Y	Y	6 of 6	W	Dude Solutions	Yes
North Slope Borough	5/21/2018	2023	Y	Y	Y	Y	Y	Y	6 of 6	W	Dude Solutions	Yes
Northwest Arctic	2/23/2016	2021	Y	Y	Y	Y	Y	Y	6 of 6	W	MC*	Yes
Pelican City	4/9/2018	2023	Y	Y	N	Y	N	Y	4 of 6	W	Dude Solutions	No
Petersburg City	1/7/2016	2021	Y	Y	Y	Y	Y	Y	6 of 6	W	Dude Solutions	Yes
Pribilof Island	4/23/2015	2020	Y	Y	Y	Y	Y	Y	6 of 6	W	MC*	Yes
Sitka City Borough	4/24/2017	2022	Y	Y	Y	Y	Y	Y	6 of 6	W	Dude Solutions	Yes
Skagway City	9/5/2018	2024	Y	N	N	Y	N	Y	3 of 6	W	Dude Solutions	No
Southeast Island	11/18/2016	2022	Y	Y	Y	Y	Y	Y	6 of 6	W	MPulse	Yes
Southwest Region	2/4/2016	2021	Y [P]	Y	Y	Y	Y	Y	6 of 6	W	Dude Solutions	Yes
St Mary's	3/18/2019	2024	Y	Y	Y	Y	Y	Y	6 of 6	W	MC*	Yes
Tanana City	3/23/2018	2023	Y	Y	Y	Y	Y	Y	6 of 6	W	MC*	Yes
Unalaska City	12/18/2014	2020	Y	Y	Y	Y	Y	Y	6 of 6	W	Dude Solutions	Yes
Valdez City	4/18/2018	2023	Y	Y	Y	Y	Y	Y	6 of 6	W	MC	Yes
Wrangell City	1/8/2016	2021	Y	Y	Y	Y	Y	Y	6 of 6	W	MC*	Yes
Yakutat City	1/14/2015	2020	Y	Y	Y	Y	Y	Y	6 of 6	W	MC*	Yes
Yukon Flats	11/12/2018	2024	Y	N	N	Y	N	Y	3 of 6	W	MC*	No
Yukon-Koyukuk	11/15/2018	2024	Y	Y	Y	Y	Y	Y	6 of 6	W	Dude Solutions	Yes
Yupiit	4/7/2015	2020	Y	Y	Y	Y	Y	Y	6 of 6	W	MC*	Yes
In Compliance			53	49	49	53	49	53	47			47

Legend

N = Not in compliance
Y = In full compliance
Y [P] = Provisional compliance
FAIS = Fixed Asset Inventory System
W= Web-based Computerized Maintenance Management System
L = Local Area Network (LAN) Computerized Maintenance Management System
* = Use MC (Maintenance Connection) through SERRC Service Contract
Bold - Site visit pending

"Year of Next Visit" dates are subject to change at the department's discretion. School Districts will be notified in a timely manner if scheduled visit dates listed on this report are altered.

DEED Facilities Information Book

Table of Contents

FY20XX CIP Information

OMB Letter w/6-Yr Capital Funding Plan
CIP Folder

FY20XX Participating Share Percentage (w/Small Muni 14.11.015)
Database Report

Participating Share History – FY99 to FY20XX
Facilities Book Folder

PM Compliance History – 2002 to 20XX
Facilities Book Folder

FY20XX School Construction/Major Maintenance Lists (Final)
Database Report

FY20XX Project Summaries
Database Report

Alaska Department of Education and Early Development
FY2021 Capital Improvement Projects
School Constrution Grant Fund

Initial List

Nov 5 Rank	School District	Project Name	Amount Requested	Eligible Amount	Prior Funding	DEED Recommended Amount	Participating Share	State Share	Aggregate Amount
1	Southeast Island	Hollis K-12 School Replacement	$10,906,157	$10,326,802	$686,523	$9,640,279	$192,806	$9,447,473	$9,447,473
2	Lower Kuskokwim	Anna Tobeluk Memorial K-12 School	$59,209,451	$44,756,614	$0	$44,756,614	$895,132	$43,861,482	$53,308,955
3	Yukon-Koyukuk	Minto K-12 School Renovation/Addition	$10,022,024	$10,022,024	$0	$10,022,024	$200,440	$9,821,584	$63,130,539
4	Mat-Su Borough	Houston Middle School Renovation/Addition	$30,839,706	$4,458,740	$0	$4,458,740	$1,337,622	$3,121,118	$66,251,657
5	Anchorage	Gruening Middle School Accessibility Upgrades	$413,024	$413,024	$0	$413,024	$144,558	$268,466	$66,520,123
6	Lower Kuskokwim	William N. Miller K-12 Memorial School Replacement, Napakiak	$35,634,841	$35,634,841	$0	$35,634,841	$712,697	$34,922,144	$101,442,267
7	Anchorage	East High School Bus Driveway Improvements	$925,387	$925,387	$0	$925,387	$323,885	$601,502	$102,043,769
8	Hoonah City	Hoonah School Playground Improvements	$227,747	$227,747	$0	$227,747	$68,324	$159,423	$102,203,192
9	Lower Kuskokwim	Newtok K-12 School Relocation/Replacement,	$49,466,384	$31,842,829	$0	$31,842,829	$636,857	$31,205,972	$133,409,164
10	Lower Kuskokwim	Water Storage and Treatment, Kongiganak	$6,645,088	$6,645,088	$0	$6,645,088	$132,902	$6,512,186	$139,921,350
11	Kenai Peninsula Borough	Kenai Middle School Security Remodel	$1,159,177	$1,159,177	$0	$1,159,177	$405,712	$753,465	$140,674,815
12	Lower Kuskokwim	Bethel Campus Transportation and Drainage Upgrades	$1,181,532	$1,181,532	$0	$1,181,532	$23,631	$1,157,901	$141,832,716
13	Kodiak Island Borough	East Elementary School Parking Lot Safety Upgrade and Repaving	$474,082	$474,082	$0	$474,082	$142,225	$331,857	$142,164,573
14	Yupiit	Playground Construction, 3 Schools	$646,159	$646,159	$0	$646,159	$12,923	$633,236	$142,797,809
		Totals:	**$207,750,759**	**$148,714,046**	**$686,523**	**$148,027,523**	**$5,229,714**	**$142,797,809**	

Alaska Department of Education and Early Development
FY2021 Capital Improvement Projects
Major Maintenance Grant Fund

Initial List

Nov 5 Rank	School District	Project Name	Amount Requested	Eligible Amount	Prior Funding	DEED Recommended Amount	Participating Share	State Share	Aggregate Amount
1	Pribilof Island	St. Paul K-12 School Roof Replacement and Structural Repairs	$1,935,097	$1,935,097	$0	$1,935,097	$38,702	$1,896,395	$1,896,395
2	Galena City	Galena Interior Learning Academy Composite Building Renovation	$5,206,998	$5,206,998	$0	$5,206,998	$260,350	$4,946,648	$6,843,043
3	Kake City	Kake Schools Heating Upgrades	$239,522	$239,522	$0	$239,522	$47,904	$191,618	$7,034,661
4	Craig City	Craig Middle School Code and Security Improvements	$4,195,748	$4,160,445	$0	$4,160,445	$832,089	$3,328,356	$10,363,017
5	Anchorage	West High School Roof Replacement	$7,497,000	$6,869,381	$0	$6,869,381	$2,404,283	$4,465,098	$14,828,115
6	Chugach	Tatitlek K-12 School Renovation	$5,842,462	$5,842,462	$0	$5,842,462	$116,849	$5,725,613	$20,553,728
7	Denali Borough	Anderson K-12 School Partial Roof Replacement	$1,755,173	$1,671,973	$0	$1,671,973	$334,395	$1,337,578	$21,891,306
8	Anchorage	Birchwood Elementary School Roof Replacement	$3,399,999	$2,844,295	$0	$2,844,295	$995,503	$1,848,792	$23,740,098
9	Iditarod Area	David-Louis Memorial K-12 School HVAC Control Upgrades, Grayling	$119,088	$116,071	$0	$116,071	$2,321	$113,750	$23,853,848
10	Anchorage	Service High School Health and Safety Improvements	$4,776,466	$4,735,551	$0	$4,735,551	$1,657,443	$3,078,108	$26,931,956
11	Anchorage	Nunaka Valley Elementary School Roof Replacement	$1,977,874	$1,977,874	$0	$1,977,874	$692,256	$1,285,618	$28,217,574
12	Anchorage	Northwood Elementary School Partial Roof Replacement	$2,213,417	$2,213,417	$0	$2,213,417	$774,696	$1,438,721	$29,656,295
13	Anchorage	Inlet View Elementary School Domestic Water System Improvements	$466,532	$466,532	$0	$466,532	$163,286	$303,246	$29,959,541
14	Nenana City	Nenana K-12 School Flooring and Asbestos Abatement	$436,486	$415,265	$0	$415,265	$20,763	$394,502	$30,354,043
15	Juneau Borough	Sayéik: Gastineau Community School Partial Roof Replacement	$1,471,318	$1,471,318	$0	$1,471,318	$514,961	$956,357	$31,310,400
16	Copper River	District Office Roof Renovation and Energy Upgrade	$1,080,069	$1,080,069	$0	$1,080,069	$21,601	$1,058,468	$32,368,868
17	Lower Yukon	Hooper Bay K-12 School Exterior Repairs	$2,287,811	$2,287,811	$0	$2,287,811	$45,756	$2,242,055	$34,610,923
18	Anchorage	Stellar Secondary School Fire Alarm	$298,630	$276,855	$0	$276,855	$96,899	$179,956	$34,790,879
19	Chugach	Chenega Bay K-12 School Renovation	$5,307,914	$5,307,914	$0	$5,307,914	$106,158	$5,201,756	$39,992,635
20	Ketchikan Borough	Ketchikan High School Security Upgrades	$507,023	$507,023	$0	$507,023	$177,458	$329,565	$40,322,200
21	Lower Kuskokwim	Qugcuun Memorial K-12 School Renovation, Oscarville	$4,604,180	$3,843,331	$0	$3,843,331	$76,867	$3,766,464	$44,088,664
22	Lower Kuskokwim	Akula Elitnauvik K-12 School Renovation, Kasigluk-Akula	$4,677,139	$4,173,354	$0	$4,173,354	$83,467	$4,089,887	$48,178,551

Alaska Department of Education and Early Development
FY2021 Capital Improvement Projects
Major Maintenance Grant Fund

Initial List

Nov 5 Rank	School District	Project Name	Amount Requested	Eligible Amount	Prior Funding	DEED Recommended Amount	Participating Share	State Share	Aggregate Amount
23	Fairbanks Borough	Administrative Center Air Conditioning and Ventilation Replacement	$1,427,684	$1,427,684	$0	$1,427,684	$499,689	$927,995	$49,106,546
24	Aleutians East Borough	Sand Point K-12 School Pool Major Maintenance	$102,608	$102,608	$0	$102,608	$35,913	$66,695	$49,173,241
25	Northwest Arctic Borough	Buckland K-12 School HVAC Renewal and Upgrades	$1,020,342	$1,037,348	$0	$1,037,348	$207,470	$829,878	$50,003,119
26	Anchorage	Ptarmigan Elementary School Roof Replacement	$3,233,861	$1,959,205	$0	$1,959,205	$685,722	$1,273,483	$51,276,602
27	Anchorage	Mears Middle School Roof Replacement	$7,525,413	$6,948,446	$0	$6,948,446	$2,431,956	$4,516,490	$55,793,092
28	Lower Yukon	Sheldon Point K-12 School Foundation Cooling and Repairs, Nunam Iqua	$3,368,065	$3,368,065	$0	$3,368,065	$67,361	$3,300,704	$59,093,796
29	Nenana City	Nenana K-12 School Boiler Replacement	$164,330	$185,858	$0	$185,858	$9,293	$176,565	$59,270,361
30	Yupiit	Tuluksak K-12 School Generator Refurbishment	$159,188	$159,188	$0	$159,188	$3,184	$156,004	$59,426,365
31	Nome City	Anvil City Charter School Restroom Renovations	$391,554	$391,554	$0	$391,554	$117,466	$274,088	$59,700,453
32	Hoonah City	Hoonah Central Boiler Replacement	$280,389	$280,389	$0	$280,389	$84,117	$196,272	$59,896,725
33	Yukon-Koyukuk	Ella B. Vernetti K-12 School Boiler Replacement, Koyukuk	$468,918	$468,918	$0	$468,918	$9,378	$459,540	$60,356,265
34	Valdez City	Valdez High and Hermon Hutchens Elementary Schools Domestic Water Piping Replacement	$3,043,356	$3,043,356	$0	$3,043,356	$1,065,175	$1,978,181	$62,334,446
35	Nome City	Nome Schools DDC Control Upgrades	$823,882	$823,882	$0	$823,882	$247,165	$576,717	$62,911,163
36	Kodiak Island Borough	Peterson Elementary School Roof Replacement	$2,373,676	$2,153,810	$0	$2,153,810	$646,143	$1,507,667	$64,418,830
37	Iditarod Area	Blackwell K-12 School HVAC Control Upgrades, Anvik	$203,407	$203,407	$0	$203,407	$4,068	$199,339	$64,618,169
38	Bristol Bay Borough	Bristol Bay Elementary School And Gym Roof Replacement	$4,812,050	$4,123,719	$0	$4,123,719	$1,443,302	$2,680,417	$67,298,586
39	Lower Yukon	Hooper Bay K-12 School Emergency Lighting and Retrofit	$234,545	$234,545	$0	$234,545	$4,691	$229,854	$67,528,440
40	Lower Kuskokwim	Bethel Regional High School Boardwalk Replacement	$1,162,891	$1,162,891	$0	$1,162,891	$23,258	$1,139,633	$68,668,073
41	Chatham	Klukwan K-12 School Roof Replacement	$1,542,948	$1,542,948	$0	$1,542,948	$30,859	$1,512,089	$70,180,162
42	Haines Borough	Haines High School Locker Room Renovation	$863,023	$863,023	$0	$863,023	$302,058	$560,965	$70,741,127
43	Chatham	Fire Alarm Upgrades, 3 Sites	$110,728	$110,728	$0	$110,728	$2,215	$108,513	$70,849,640
44	Denali Borough	Generator Replacement, 3 Schools	$1,214,073	$1,214,073	$0	$1,214,073	$242,815	$971,258	$71,820,898
45	Mat-Su Borough	Big Lake Elementary School Water System Replacement Ph 2	$875,000	$850,065	$0	$850,065	$255,019	$595,046	$72,415,944

Alaska Department of Education and Early Development
FY2021 Capital Improvement Projects
Major Maintenance Grant Fund

Initial List

Nov 5 Rank	School District	Project Name	Amount Requested	Eligible Amount	Prior Funding	DEED Recommended Amount	Participating Share	State Share	Aggregate Amount
46	Kodiak Island Borough	Chiniak K-12 School Water Treatment Code Compliance and Upgrade	$362,669	$362,669	$0	$362,669	$108,801	$253,868	$72,669,812
47	Lower Yukon	Scammon Bay K-12 School Emergency Lighting and Retrofit	$119,467	$119,467	$0	$119,467	$2,389	$117,078	$72,786,890
48	Kuspuk	Jack Egnaty Sr K-12 School Roof Replacement, Sleetmute	$1,425,655	$1,425,655	$0	$1,425,655	$28,513	$1,397,142	$74,184,032
49	Sitka Borough	Keet Gooshi Heen Elementary Covered PE Structure Renovation	$529,989	$529,989	$0	$529,989	$185,496	$344,493	$74,528,525
50	Haines Borough	Haines High School Roof Replacement	$2,447,619	$2,447,619	$0	$2,447,619	$856,667	$1,590,952	$76,119,477
51	Yupiit	Tuluksak K-12 School Fuel Tank Replacement	$2,200,239	$2,200,239	$0	$2,200,239	$44,005	$2,156,234	$78,275,711
52	Southwest Region	William "Sonny" Nelson K-12 School Renovation, Ekwok	$3,971,844	$3,971,844	$0	$3,971,844	$79,437	$3,892,407	$82,168,118
53	Fairbanks Borough	Ben Eielson Jr/Sr High School Roof Replacement	$7,060,882	$5,750,098	$0	$5,750,098	$2,012,534	$3,737,564	$85,905,682
54	Nome City	Nome Beltz Jr/Sr High School Generator Replacement	$1,611,808	$900,356	$0	$900,356	$270,107	$630,249	$86,535,931
55	Lower Yukon	LYSD Central Office Renovation	$5,252,629	$5,252,629	$0	$5,252,629	$105,053	$5,147,576	$91,683,507
56	Valdez City	Valdez High School Window Replacement	$516,893	$516,893	$0	$516,893	$180,913	$335,980	$92,019,487
57	Fairbanks Borough	Lathrop High School Roof Replacement	$758,548	$634,622	$0	$634,622	$222,118	$412,504	$92,431,991
58	Fairbanks Borough	Woodriver Elementary School Roof Replacement	$4,582,297	$4,470,534	$0	$4,470,534	$1,564,687	$2,905,847	$95,337,838
59	Fairbanks Borough	North Pole Middle School Exterior Upgrades	$1,981,194	$1,981,194	$0	$1,981,194	$693,418	$1,287,776	$96,625,614
60	Yupiit	Gym Floor Replacement, 3 Schools	$295,802	$295,802	$0	$295,802	$5,916	$289,886	$96,915,500
61	Nenana City	Nenana K-12 School Fire Suppression System Replacement	$1,441,978	$1,559,114	$0	$1,559,114	$77,956	$1,481,158	$98,396,658
62	Lower Kuskokwim	Akiuk Memorial K-12 School Renovation, Kasigluk-Akiuk	$4,267,949	$3,442,187	$0	$3,442,187	$68,844	$3,373,343	$101,770,001
63	Juneau Borough	Dzantik'i Heeni Middle School Roof Replacement	$1,778,875	$1,778,875	$0	$1,778,875	$622,606	$1,156,269	$102,926,270
64	Copper River	Glennallen and Kenny Lake Schools Energy Upgrade	$2,543,468	$2,543,468	$0	$2,543,468	$50,869	$2,492,599	$105,418,869
65	Anchorage	Roof And Gutter Improvements, 3 Schools	$1,473,780	$1,463,847	$0	$1,463,847	$512,346	$951,501	$106,370,370
66	Kake City	Kake High School Gym Floor and Bleacher Replacement	$359,208	$359,208	$0	$359,208	$71,842	$287,366	$106,657,736
67	Southwest Region	Twin Hills K-12 School Renovation	$2,238,084	$2,238,084	$0	$2,238,084	$44,762	$2,193,322	$108,851,058
68	Valdez City	Valdez High and Hermon Hutchens Elementary Schools Generator Replacement	$1,745,231	$809,935	$0	$809,935	$283,477	$526,458	$109,377,516
69	Saint Marys City	St. Mary's Campus Renewal and Repairs	$1,239,761	$279,641	$0	$279,641	$27,964	$251,677	$109,629,193

Alaska Department of Education and Early Development
FY2021 Capital Improvement Projects
Major Maintenance Grant Fund

Initial List

Nov 5 Rank	School District	Project Name	Amount Requested	Eligible Amount	Prior Funding	DEED Recommended Amount	Participating Share	State Share	Aggregate Amount
70	Anchorage	Muldoon Elementary School Partial Roof Replacement	$677,931	$677,931	$0	$677,931	$237,276	$440,655	$110,069,848
71	Southwest Region	Aleknagik K-12 School Renovation	$3,912,898	$3,912,898	$0	$3,912,898	$78,258	$3,834,640	$113,904,488
72	Kake City	Exterior Upgrades - Main School Facilities	$287,227	$287,227	$0	$287,227	$57,445	$229,782	$114,134,270
73	Iditarod Area	David-Louis Memorial K-12 School Roof Replacement, Grayling	$2,944,419	$2,944,419	$0	$2,944,419	$58,888	$2,885,531	$117,019,801
74	Nome City	Nome Elementary School Fire Alarm Replacement	$603,766	$603,766	$0	$603,766	$181,130	$422,636	$117,442,437
75	Kake City	Kake High School Plumbing Replacement	$790,589	$790,589	$0	$790,589	$158,118	$632,471	$118,074,908
76	Lower Yukon	Scammon Bay K-12 School Siding Replacement	$1,039,782	$1,039,782	$0	$1,039,782	$20,796	$1,018,986	$119,093,894
77	Copper River	Glennallen Voc-Ed Facility Renovation	$758,201	$758,201	$0	$758,201	$15,164	$743,037	$119,836,931
78	Anchorage	Bartlett High School Intercom	$3,274,450	$3,274,450	$0	$3,274,450	$1,146,057	$2,128,393	$121,965,324
79	Southeast Island	Thorne Bay K-12 School Fire Suppression System	$536,506	$536,506	$0	$536,506	$10,730	$525,776	$122,491,100
80	Kodiak Island Borough	East Elementary School Special Electrical and Security	$1,542,243	$1,420,639	$0	$1,420,639	$426,192	$994,447	$123,485,547
81	Anchorage	Spring Hill Elementary School Intercom/Clocks	$137,893	$137,893	$0	$137,893	$48,263	$89,630	$123,575,177
82	Fairbanks Borough	Tanana Middle School Exterior Upgrades	$3,118,680	$3,118,680	$0	$3,118,680	$1,091,538	$2,027,142	$125,602,319
83	Lower Yukon	Ignatius Beans K-12 School Marine Header Pipeline, Mountain Village	$1,723,461	$1,373,070	$0	$1,373,070	$27,461	$1,345,609	$126,947,928
84	Kenai Peninsula Borough	Seward Middle School Exterior Repair	$857,314	$857,314	$0	$857,314	$300,060	$557,254	$127,505,182
85	Kodiak Island Borough	North Star Elementary School Siding Replacement	$502,039	$502,039	$0	$502,039	$150,612	$351,427	$127,856,609
86	Southeast Island	Thorne Bay K-12 School Flooring Replacement	$71,549	$71,549	$0	$71,549	$1,431	$70,118	$127,926,727
87	Anchorage	Fire Lake Elementary School Roof Replacement	$589,890	$589,890	$0	$589,890	$206,461	$383,429	$128,310,156
88	Fairbanks Borough	Arctic Light Elementary School Lighting and Energy Upgrades	$501,439	$501,439	$0	$501,439	$175,504	$325,935	$128,636,091
89	Fairbanks Borough	Two Rivers Elementary School Flooring and Restroom Renovation	$377,462	$377,462	$0	$377,462	$132,112	$245,350	$128,881,441
90	Southeast Island	Thorne Bay K-12 School Mechanical Control Upgrades	$1,225,853	$1,225,853	$0	$1,225,853	$24,517	$1,201,336	$130,082,777
91	Mat-Su Borough	Butte and Snowshoe Elementary Schools Water System Replacement	$1,717,608	$2,149,178	$0	$2,149,178	$644,753	$1,504,425	$131,587,202

Alaska Department of Education and Early Development
FY2021 Capital Improvement Projects
Major Maintenance Grant Fund

Initial List

Nov 5 Rank	School District	Project Name	Amount Requested	Eligible Amount	Prior Funding	DEED Recommended Amount	Participating Share	State Share	Aggregate Amount
92	Mat-Su Borough	Talkeetna Elementary School Roof Replacement	$1,736,060	$1,693,296	$0	$1,693,296	$507,989	$1,185,307	$132,772,509
93	Mat-Su Borough	Colony and Wasilla Middle Schools Roof Replacement	$3,927,400	$4,147,375	$0	$4,147,375	$1,244,212	$2,903,163	$135,675,672
94	Southeast Island	Port Alexander K-12 School Domestic Water Pipe Replacement	$68,082	$90,294	$0	$90,294	$1,806	$88,488	$135,764,160
95	Mat-Su Borough	Windows and Lighting Upgrades, 3 Sites	$4,231,918	$3,872,262	$0	$3,872,262	$1,161,679	$2,710,583	$138,474,743
96	Yupiit	Mechanical System Improvements, 3 Schools	$994,075	$849,075	$0	$849,075	$16,981	$832,094	$139,306,837
97	Yupiit	Akiachak K-12 School Window Replacement	$286,063	$117,774	$0	$117,774	$2,355	$115,419	$139,422,256
98	Lower Yukon	Kotlik and Pilot Station K-12 Schools Renewal and Repair	$2,826,949	$2,826,949	$0	$2,826,949	$56,539	$2,770,410	$142,192,666
99	Lower Yukon	Sheldon Point K-12 School Exterior Repairs, Nunam Iqua	$583,583	$583,583	$0	$583,583	$11,672	$571,911	$142,764,577
100	Southeast Island	Thorne Bay K-12 School Underground Storage Tank Replacement	$428,927	$428,927	$0	$428,927	$8,579	$420,348	$143,184,925
101	Southeast Island	Port Alexander & Thorne Bay K-12 Schools Roof Replacement	$3,881,355	$3,881,355	$0	$3,881,355	$77,627	$3,803,728	$146,988,653
102	Lower Yukon	Security Access Upgrades, 6 Sites	$1,797,703	$1,797,703	$0	$1,797,703	$35,954	$1,761,749	$148,750,402
			$193,857,061	**$183,071,605**	**$0**	**$183,071,605**	**$34,321,203**	**$148,750,402**	

Alaska Department of Education and Early Development
FY2021 Capital Improvement Projects
School Construction Grant Fund
Total Points - Formula Driven and Evaluative
Initial List

Nov 5 Rank	School District	Project Name	School Dist Rank	Weight Avg Age	Prev. 14.11 Fund	Plan and Design	Prior Design Use	Avg Expend Maint	Un-Housed Today	Un-Housed 7 Years	Type of Space	Cond Survey	O&M Rpts	Maint Mgt	Energy Mgt	Cusd Pgm	Maint Train	Capital Plan	Emer-gency	Life/Safety and Code Conditions	Exist-ing Space	Cost Esti-mate	Proj vs Oper Cost	Altern at-ives	Options	Total Project Points
1	Southeast Island	Hollis K-12 School Replacement	27.00	22.51	30.00	10.00	0.00	3.01	30.68	30.00	22.93	10.00	5.00	2.00	2.67	2.00	2.33	2.67	10.00	15.27	21.33	15.33	4.00	3.00	9.00	280.72
2	Lower Kuskokwim	Anna Tobeluk Memorial K-12 School Renovation/Addition, Nunapitchuk	27.00	21.95	0.00	10.00	0.00	3.20	30.19	23.79	22.21	10.00	30.00	2.67	2.33	2.67	2.33	3.00	0.00	31.91	19.67	12.67	3.33	3.33	11.67	273.92
3	Yukon-Koyukuk	Minto K-12 School Renovation/Addition	30.00	20.01	0.00	20.00	0.00	3.09	0.00	2.01	24.75	10.00	25.00	3.67	3.00	3.33	3.67	3.00	3.67	27.48	15.33	16.00	5.00	3.67	12.67	235.34
4	Mat-Su Borough	Houston Middle School Renovation/Addition	30.00	17.75	0.00	0.00	0.00	2.35	3.33	2.00	0.00	8.00	5.00	2.67	2.00	2.33	0.00	3.33	41.00	40.64	36.67	12.67	2.33	2.33	12.67	227.07
5	Anchorage	Gruening Middle School Accessibility Upgrades	30.00	19.50	0.00	25.00	0.00	5.00	0.00	0.00	30.00	10.00	25.00	4.33	4.00	4.00	3.00	5.00	0.00	1.75	7.67	25.67	1.33	1.67	4.67	207.58
6	Lower Kuskokwim	William N. Miller K-12 Memorial School Replacement, Napakiak	30.00	30.00	0.00	0.00	0.00	3.63	0.00	0.00	22.55	0.00	25.00	4.00	3.67	3.33	3.33	3.67	25.00	10.67	0.00	14.67	4.67	3.00	8.33	195.51
7	Anchorage	East High School Bus Driveway Improvements	21.00	30.00	0.00	25.00	0.00	5.00	0.00	0.00	0.00	10.00	25.00	4.33	3.67	4.00	3.00	4.67	0.00	13.00	0.00	24.33	2.33	1.67	5.00	182.00
8	Hoonah City	Hoonah School Playground Improvements	27.00	30.00	0.00	25.00	0.00	1.72	0.00	0.00	0.00	0.00	30.00	3.00	3.67	3.00	2.33	2.00	0.00	6.34	2.00	29.00	0.00	1.67	8.33	175.06
9	Lower Kuskokwim	Newtok K-12 School Relocation/Replacement, Mertarvik	24.00	8.86	0.00	0.00	0.00	3.20	4.06	2.44	22.79	0.00	30.00	2.67	2.33	2.67	2.33	3.00	21.33	0.41	6.33	13.00	3.00	4.33	8.00	164.76
10	Lower Kuskokwim	Water Storage and Treatment, Kongiganak	21.00	0.00	0.00	20.00	0.00	3.63	0.00	0.00	0.00	10.00	25.00	4.00	3.67	3.33	3.33	3.67	0.00	17.33	0.00	17.67	3.00	2.00	9.00	146.63
11	Kenai Peninsula Bor	Kenai Middle School Security Remodel	30.00	30.00	0.00	10.00	0.00	3.08	0.00	0.00	0.00	0.00	25.00	3.67	3.33	4.33	3.00	3.67	0.00	1.59	4.33	15.33	0.00	1.33	5.00	143.67
12	Lower Kuskokwim	Bethel Campus Transportation and Drainage Upgrades	9.00	24.30	0.00	10.00	0.00	3.63	0.00	0.00	0.00	10.00	25.00	4.00	3.67	3.33	3.67	3.33	0.00	11.67	0.00	15.67	2.00	3.00	4.33	136.60
13	Kodiak Island Borou	East Elementary School Parking Lot Safety Upgrade and Repaving	21.00	30.00	0.00	0.00	0.00	2.83	0.00	0.00	0.00	0.00	25.00	3.00	2.67	3.33	2.67	3.67	0.00	7.00	0.00	12.00	1.67	0.00	2.67	117.50
14	Yupiit	Playground Construction, 3 Schools	15.00	1.69	0.00	10.00	0.00	1.94	0.00	0.00	0.00	0.00	25.00	2.33	2.33	2.00	2.00	2.33	0.00	12.00	3.33	11.33	0.00	1.67	6.33	99.30

Alaska Department of Education and Early Development
FY2021 Capital Improvement Projects
Major Maintenance Grant Fund
Total Points - Formula Driven and Evaluative
Initial List

Nov 5 Rank	School District	Project Name	School Dist Rank	Weight Avg Age	Prev. 14.11 Fund	Plan and Design	Prior Design Use	Avg Expend Maint	Un-Housed Today	Un-Housed 7 Years	Type of Space	Cond Survey	O&M Rpts	Maint Mgt	Energy Mgt	Cusd Pgm	Maint Train	Capital Plan	Emer-gency	Life/Safety and Code Conditions	Exist-ing Space	Cost Esti-mate	Proj vs Oper Cost	Altern at-ives	Options	Total Project Points
1	Pribilof Island	St. Paul K-12 School Roof Replacement and Structural Repairs	30.00	30.00	0.00	20.00	0.00	2.67	0.00	0.00	0.00	10.00	30.00	3.00	3.33	2.00	2.67	3.00	13.00	42.00	6.00	18.67	2.00	0.00	13.33	231.67
2	Galena City	Galena Interior Learning Academy Composite Building Renovation	30.00	17.75	0.00	25.00	0.00	4.87	0.00	0.00	0.00	10.00	25.00	3.33	3.33	3.33	3.33	3.67	0.00	29.64	3.33	23.67	9.33	0.00	11.33	206.93
3	Kake City	Kake Schools Heating Upgrades	30.00	29.39	0.00	25.00	0.00	1.63	0.00	0.00	0.00	8.00	30.00	2.67	3.67	3.00	3.33	3.00	0.00	17.33	3.33	28.33	7.00	0.00	10.00	205.69
4	Craig City	Craig Middle School Code and	30.00	26.81	0.00	20.00	0.00	2.38	0.00	0.00	0.00	10.00	25.00	3.00	3.00	2.33	2.00	3.00	0.00	34.91	3.67	20.33	4.00	0.00	7.67	198.09
5	Anchorage	West High School Roof Replacement	12.00	30.00	0.00	25.00	0.00	4.78	0.00	0.00	0.00	8.00	30.00	4.00	4.67	3.67	3.33	5.00	0.00	27.67	1.67	27.00	3.67	0.00	7.33	197.78
6	Chugach	Tatitlek K-12 School Renovation	27.00	18.62	0.00	20.00	0.00	1.44	0.00	0.00	0.00	10.00	25.00	3.00	3.33	3.33	2.33	3.00	5.00	39.50	0.00	17.67	1.33	0.00	12.67	193.23
7	Denali Borough	Anderson K-12 School Partial Roof Replacement	30.00	30.00	0.00	25.00	0.00	3.14	0.00	0.00	0.00	10.00	30.00	3.33	3.67	3.00	3.00	3.33	0.00	6.00	0.00	20.33	6.33	0.00	15.00	192.14
8	Anchorage	Birchwood Elementary School Roof Replacement	9.00	30.00	0.00	25.00	0.00	4.78	0.00	0.00	0.00	8.00	30.00	4.00	4.33	3.67	3.33	5.00	0.00	19.46	2.00	26.33	3.67	0.00	6.67	185.24
9	Iditarod Area	David-Louis Memorial K-12 School HVAC Control Upgrades, Grayling	30.00	16.00	0.00	25.00	0.00	2.53	0.00	0.00	0.00	8.00	25.00	2.00	2.00	2.33	2.33	2.33	5.00	20.71	0.00	28.00	5.67	0.00	7.67	184.58
10	Anchorage	Service High School Health and Safety Improvements	0.00	30.00	0.00	25.00	0.00	4.78	0.00	0.00	0.00	5.00	30.00	4.00	4.33	3.67	3.33	5.00	0.00	37.51	2.00	24.00	2.33	0.00	3.33	184.29
11	Anchorage	Nunaka Valley Elementary School Roof Replacement	27.00	30.00	0.00	25.00	0.00	5.00	0.00	0.00	0.00	8.00	25.00	4.33	4.00	4.00	3.00	5.00	0.00	8.91	0.00	25.00	2.67	0.00	6.67	183.58
12	Anchorage	Northwood Elementary School Partial Roof Replacement	24.00	30.00	0.00	25.00	0.00	5.00	0.00	0.00	0.00	8.00	25.00	4.33	4.00	4.00	3.00	5.00	0.00	11.00	0.00	24.67	2.67	0.00	7.00	182.67
13	Anchorage	Inlet View Elementary School Domestic Water System Improvements	18.00	30.00	0.00	25.00	0.00	5.00	0.00	0.00	0.00	10.00	25.00	4.33	4.00	4.00	3.00	5.00	0.00	15.00	0.00	26.67	0.00	0.00	7.33	182.33
14	Nenana City	Nenana K-12 School Flooring and Asbestos Abatement	30.00	30.00	0.00	25.00	0.00	2.97	0.00	0.00	0.00	5.00	30.00	3.67	3.00	2.67	2.00	3.67	0.00	7.00	3.00	24.67	2.33	0.00	6.67	181.64
15	Juneau Borough	Sayéik: Gastineau Community School Partial Roof Replacement	30.00	30.00	0.00	25.00	0.00	2.44	0.00	0.00	0.00	5.00	25.00	3.67	2.67	4.67	3.33	3.67	0.00	7.54	0.00	21.67	7.33	0.00	7.33	179.31
16	Copper River	District Office Roof Renovation and Energy Upgrade	30.00	30.00	0.00	10.00	0.00	1.40	0.00	0.00	0.00	10.00	25.00	3.67	3.33	3.33	3.00	3.67	0.00	26.67	0.00	13.67	4.67	0.00	7.67	176.07
17	Lower Yukon	Hooper Bay K-12 School Exterior Repairs	24.00	1.00	0.00	25.00	0.00	2.20	0.00	0.00	0.00	8.00	25.00	3.33	3.00	3.00	2.67	3.33	6.67	21.28	3.00	27.33	4.67	0.00	12.33	175.81
18	Anchorage	Stellar Secondary School Fire Alarm	15.00	30.00	0.00	20.00	0.00	4.78	0.00	0.00	0.00	0.00	30.00	4.00	4.33	3.67	3.33	5.00	0.00	18.04	0.67	27.00	4.00	0.00	5.00	174.82
19	Chugach	Chenega Bay K-12 School Renovation	30.00	11.59	0.00	20.00	0.00	1.44	0.00	0.00	0.00	10.00	25.00	3.00	3.33	3.33	2.33	3.00	0.00	29.63	0.00	17.67	2.00	0.00	12.33	174.66
20	Ketchikan Borough	Ketchikan High School Security Upgrades	30.00	30.00	0.00	25.00	0.00	4.42	0.00	0.00	0.00	0.00	25.00	3.67	3.00	2.67	3.00	3.33	0.00	0.00	0.00	24.33	11.00	0.00	6.67	172.09
21	Lower Kuskokwim	Qugcuun Memorial K-12 School Renovation, Oscarville	6.00	26.93	0.00	10.00	0.00	3.20	0.00	0.00	0.00	10.00	30.00	2.67	2.33	2.67	2.33	3.00	0.00	50.00	1.00	14.00	1.67	0.00	5.33	171.13
22	Lower Kuskokwim	Akula Elitnauvik K-12 School Renovation, Kasigluk-Akula	18.00	23.26	0.00	10.00	0.00	3.20	0.00	0.00	0.00	10.00	30.00	2.67	2.33	2.67	2.33	3.00	1.67	33.77	1.67	15.67	2.67	0.00	8.00	170.89
23	Fairbanks Borough	Administrative Center Air Conditioning and Ventilation Replacement	30.00	8.75	0.00	25.00	0.00	3.88	0.00	0.00	0.00	0.00	25.00	4.00	3.67	4.33	3.33	2.67	6.67	4.00	0.00	25.33	8.33	0.00	14.33	169.30
24	Aleutians East Borou	Sand Point K-12 School Pool Major Maintenance	30.00	22.07	0.00	25.00	0.00	1.52	0.00	0.00	0.00	0.00	30.00	2.67	3.00	2.00	2.67	2.33	0.00	4.00	0.33	29.00	7.67	0.00	6.67	168.92

Alaska Department of Education and Early Development
FY2021 Capital Improvement Projects
Major Maintenance Grant Fund
Total Points - Formula Driven and Evaluative
Initial List

Nov 5 Rank	School District	Project Name	School Dist Rank	Weight Avg Age	Prev. 14.11 Fund	Plan and Design	Prior Design Use	Avg Expend Maint	Un-Housed Today	Un-Housed 7 Years	Type of Space	Cond Survey	O&M Rpts	Maint Mgt	Energy Mgt	Cusd Pgm	Maint Train	Capital Plan	Emer-gency	Life/Safety and Code Conditions	Exist-ing Space	Cost Esti-mate	Proj vs Oper Cost	Altern at-ives	Options	Total Project Points
25	Northwest Arctic Bor	Buckland K-12 School HVAC Renewal and Upgrades	30.00	8.15	0.00	25.00	0.00	2.93	0.00	0.00	0.00	5.00	30.00	2.67	2.33	3.00	1.67	3.33	0.00	10.00	1.00	23.00	10.33	0.00	9.00	167.41
26	Anchorage	Ptarmigan Elementary School Roof Replacement	3.00	21.97	0.00	25.00	0.00	4.78	0.00	0.00	0.00	8.00	30.00	4.00	4.33	3.67	3.33	5.00	0.00	14.83	1.67	26.67	3.00	0.00	5.67	164.92
27	Anchorage	Mears Middle School Roof Replacement	6.00	19.50	0.00	25.00	0.00	4.78	0.00	0.00	0.00	3.00	30.00	4.00	4.33	3.67	3.33	5.00	0.00	21.59	2.00	24.00	1.67	0.00	5.67	163.54
28	Lower Yukon	Sheldon Point K-12 School Foundation Cooling and Repairs, Nunam Iqua	30.00	0.50	0.00	25.00	0.00	2.11	0.00	0.00	0.00	8.00	25.00	3.00	1.33	3.00	2.33	2.67	11.67	8.23	4.00	27.33	0.33	0.00	7.67	162.17
29	Nenana City	Nenana K-12 School Boiler Replacement	27.00	30.00	0.00	20.00	0.00	2.97	0.00	0.00	0.00	3.00	30.00	3.67	3.00	2.67	2.00	3.67	0.00	4.00	0.00	20.00	3.00	0.00	6.33	161.30
30	Yupiit	Tuluksak K-12 School Generator Refurbishment	30.00	2.50	0.00	25.00	0.00	1.65	0.00	0.00	0.00	0.00	30.00	3.33	2.67	2.00	2.67	2.67	6.33	13.39	0.00	24.00	3.00	0.00	9.67	158.87
31	Nome City	Anvil City Charter School Restroom Renovations	30.00	30.00	0.00	25.00	0.00	1.58	0.00	0.00	0.00	0.00	20.00	2.00	2.33	2.00	1.33	3.00	0.00	0.62	4.33	26.00	2.00	0.00	5.67	155.86
32	Hoonah City	Hoonah Central Boiler Replacement	30.00	30.00	0.00	10.00	0.00	1.72	0.00	0.00	0.00	8.00	30.00	3.00	3.67	3.00	2.33	2.00	0.00	0.00	0.00	13.67	7.67	0.00	9.67	154.72
33	Yukon-Koyukuk	Ella B. Vernetti K-12 School Boiler Replacement, Koyukuk	27.00	17.78	0.00	20.00	0.00	3.09	0.00	0.00	0.00	10.00	25.00	3.67	3.00	3.33	3.67	3.00	0.00	4.00	0.00	16.33	3.67	0.00	10.67	154.20
34	Valdez City	Valdez High and Hermon Hutchens Elementary Schools Domestic Water Piping Replacement	30.00	30.00	0.00	10.00	0.00	1.62	0.00	0.00	0.00	10.00	20.00	2.67	3.00	3.00	3.00	3.00	5.00	10.00	0.00	14.33	2.33	0.00	6.00	153.96
35	Nome City	Nome Schools DDC Control Upgrades	24.00	30.00	0.00	20.00	0.00	1.58	0.00	0.00	0.00	0.00	20.00	2.00	2.33	2.00	1.33	3.00	0.00	3.00	1.33	18.00	18.67	0.00	4.00	151.24
36	Kodiak Island Borouç	Peterson Elementary School Roof Replacement	30.00	30.00	0.00	10.00	0.00	2.83	0.00	0.00	0.00	8.00	25.00	3.00	2.67	3.33	2.67	3.67	0.00	7.18	1.33	14.33	2.33	0.00	4.00	150.35
37	Iditarod Area	Blackwell K-12 School HVAC Control Upgrades, Anvik	24.00	30.00	0.00	10.00	0.00	2.53	0.00	0.00	0.00	8.00	25.00	2.00	2.00	2.33	2.33	2.33	0.00	15.00	2.33	13.67	2.67	0.00	6.00	150.20
38	Bristol Bay Borough	Bristol Bay Elementary School And Gym Roof Replacement	30.00	17.12	0.00	10.00	0.00	1.20	0.00	0.00	0.00	8.00	25.00	3.00	2.67	2.33	3.67	3.33	0.00	18.00	0.00	15.00	3.33	0.00	6.33	148.99
39	Lower Yukon	Hooper Bay K-12 School Emergency Lighting and Retrofit	27.00	1.50	0.00	25.00	0.00	2.11	0.00	0.00	0.00	5.00	25.00	3.00	1.33	3.00	2.33	2.67	0.00	3.02	1.33	28.67	10.67	0.00	7.33	148.97
40	Lower Kuskokwim	Bethel Regional High School Boardwalk Replacement	12.00	30.00	0.00	10.00	0.00	3.63	0.00	0.00	0.00	10.00	25.00	4.00	3.67	3.33	3.33	3.67	1.67	15.58	0.00	14.67	1.67	0.00	6.00	148.21
41	Chatham	Klukwan K-12 School Roof Replacement	30.00	23.00	0.00	0.00	0.00	1.18	0.00	0.00	0.00	3.00	30.00	2.67	2.67	2.00	2.33	2.67	5.00	16.00	2.00	14.67	4.67	0.00	6.00	147.84
42	Haines Borough	Haines High School Locker Room Renovation	27.00	23.00	0.00	10.00	0.00	1.55	0.00	0.00	0.00	5.00	25.00	2.67	3.00	2.00	2.67	2.67	0.00	14.88	0.67	14.00	3.33	0.00	8.33	145.76
43	Chatham	Fire Alarm Upgrades, 3 Sites	27.00	30.00	0.00	10.00	0.00	1.34	0.00	0.00	0.00	0.00	25.00	3.00	2.67	2.33	1.67	2.00	0.00	8.00	0.00	22.67	0.67	0.00	8.00	144.34
44	Denali Borough	Generator Replacement, 3 Schools	27.00	27.09	0.00	10.00	0.00	4.19	0.00	0.00	0.00	10.00	25.00	3.67	3.67	3.00	2.67	3.67	0.00	2.67	0.00	14.00	1.33	0.00	6.00	143.95
45	Mat-Su Borough	Big Lake Elementary School Water System Replacement Ph 2	27.00	29.59	0.00	25.00	0.00	2.35	0.00	0.00	0.00	10.00	5.00	2.67	2.00	2.33	0.00	3.00	0.00	11.95	2.67	17.00	1.00	0.00	2.33	143.89
46	Kodiak Island Borouç	Chiniak K-12 School Water Treatment Code Compliance and Upgrade	27.00	30.00	0.00	10.00	0.00	2.83	0.00	0.00	0.00	0.00	25.00	3.00	2.67	3.33	2.67	3.67	0.00	16.00	0.00	13.33	1.00	0.00	2.67	143.17

Alaska Department of Education and Early Development
FY2021 Capital Improvement Projects
Major Maintenance Grant Fund
Total Points - Formula Driven and Evaluative
Initial List

Nov 5 Rank	School District	Project Name	School Dist Rank	Weight Avg Age	Prev. 14.11 Fund	Plan and Design	Prior Design Use	Avg Expend Maint	Un-Housed Today	Un-Housed 7 Years	Type of Space	Cond Survey	O&M Rpts	Maint Mgt	Energy Mgt	Cusd Pgm	Maint Train	Capital Plan	Emer-gency	Life/Safety and Code Conditions	Exist-ing Space	Cost Esti-mate	Proj vs Oper Cost	Altern at-ives	Options	Total Project Points
47	Lower Yukon	Scammon Bay K-12 School Emergency Lighting and Retrofit	21.00	2.00	0.00	25.00	0.00	2.11	0.00	0.00	0.00	5.00	25.00	3.00	1.33	3.00	2.33	2.67	0.00	3.02	1.33	28.67	10.33	0.00	7.33	143.13
48	Kuspuk	Jack Egnaty Sr K-12 School Roof Replacement, Sleetmute	30.00	28.25	0.00	0.00	0.00	1.93	0.00	0.00	0.00	0.00	25.00	2.67	3.00	2.00	2.00	2.33	8.33	10.67	0.67	15.33	2.67	0.00	7.67	142.51
49	Sitka Borough	Keet Gooshi Heen Elementary Covered PE Structure Renovation	30.00	12.50	0.00	10.00	0.00	1.31	0.00	0.00	0.00	10.00	25.00	3.67	2.67	2.67	3.33	2.67	0.00	7.35	1.00	17.00	2.67	0.00	10.33	142.16
50	Haines Borough	Haines High School Roof Replacement	30.00	30.00	0.00	0.00	0.00	1.55	0.00	0.00	0.00	0.00	25.00	2.67	3.00	2.00	2.67	2.67	3.33	15.00	0.00	13.00	3.33	0.00	7.33	141.55
51	Yupiit	Tuluksak K-12 School Fuel Tank Replacement	18.00	30.00	0.00	10.00	0.00	1.94	0.00	0.00	0.00	8.00	25.00	2.33	2.33	2.00	2.00	2.33	6.00	7.67	0.00	14.00	2.00	0.00	7.67	141.27
52	Southwest Region	William "Sonny" Nelson K-12 School Renovation, Ekwok	27.00	28.25	0.00	0.00	0.00	1.87	0.00	0.00	0.00	0.00	25.00	3.00	2.33	2.67	2.67	2.00	0.00	23.21	0.00	11.33	5.67	0.00	5.67	140.66
53	Fairbanks Borough	Ben Eielson Jr/Sr High School Roof Replacement	24.00	30.00	0.00	0.00	0.00	3.70	0.00	0.00	0.00	0.00	30.00	4.00	4.33	4.33	1.67	3.33	0.00	7.88	0.00	14.33	7.00	0.00	5.00	139.59
54	Nome City	Nome Beltz Jr/Sr High School Generator Replacement	21.00	30.00	0.00	10.00	0.00	1.58	0.00	0.00	0.00	0.00	20.00	2.00	2.33	2.00	1.33	3.00	0.00	27.00	0.00	14.33	0.00	0.00	5.00	139.58
55	Lower Yukon	LYSD Central Office Renovation	12.00	26.19	0.00	0.00	0.00	2.11	0.00	0.00	0.00	0.00	25.00	3.00	1.33	3.00	2.33	2.67	0.00	35.85	0.67	14.33	5.00	0.00	6.00	139.48
56	Valdez City	Valdez High School Window Replacement	24.00	30.00	0.00	10.00	0.00	1.62	0.00	0.00	0.00	3.00	20.00	2.67	3.00	3.00	3.00	3.00	0.00	12.00	0.33	15.33	3.00	0.00	5.33	139.29
57	Fairbanks Borough	Lathrop High School Roof Replacement	27.00	17.75	0.00	10.00	0.00	3.70	0.00	0.00	0.00	0.00	30.00	4.00	4.33	4.33	1.67	3.33	0.00	7.70	0.00	17.00	0.00	0.00	5.33	136.15
58	Fairbanks Borough	Woodriver Elementary School Roof Replacement	21.00	30.00	0.00	0.00	0.00	3.70	0.00	0.00	0.00	0.00	30.00	4.00	4.33	4.33	1.67	3.33	0.00	6.61	0.00	14.67	7.00	0.00	5.00	135.64
59	Fairbanks Borough	North Pole Middle School Exterior Upgrades	9.00	30.00	0.00	0.00	0.00	3.70	0.00	0.00	0.00	0.00	30.00	4.00	4.33	4.33	1.67	3.33	0.00	24.00	0.00	13.67	2.33	0.00	4.33	134.70
60	Yupiit	Gym Floor Replacement, 3 Schools	27.00	2.19	0.00	20.00	0.00	1.65	0.00	0.00	0.00	0.00	30.00	3.33	2.67	2.00	2.67	2.67	0.00	4.00	0.00	22.00	0.67	0.00	12.67	133.50
61	Nenana City	Nenana K-12 School Fire Suppression System Replacement	24.00	26.27	0.00	0.00	0.00	2.97	0.00	0.00	0.00	0.00	30.00	3.67	3.00	2.67	2.00	3.67	10.00	2.00	0.00	14.00	1.67	0.00	6.33	132.24
62	Lower Kuskokwim	Akiuk Memorial K-12 School Renovation, Kasigluk-Akiuk	15.00	10.00	0.00	10.00	0.00	3.20	0.00	0.00	0.00	10.00	30.00	2.67	2.33	2.67	2.33	3.00	0.00	17.48	1.67	14.33	2.33	0.00	5.00	132.01
63	Juneau Borough	Dzantik'i Heeni Middle School Roof	27.00	8.00	0.00	10.00	0.00	2.44	0.00	0.00	0.00	10.00	25.00	3.67	2.67	4.67	3.33	3.67	0.00	6.00	0.00	17.67	3.00	0.00	4.67	131.77
64	Copper River	Glennallen and Kenny Lake Schools	27.00	10.75	0.00	10.00	0.00	1.40	0.00	0.00	0.00	8.00	25.00	3.67	3.33	3.33	3.00	3.67	0.00	0.00	0.00	14.33	10.67	0.00	7.00	131.15
65	Anchorage	Roof And Gutter Improvements, 3 Schools	0.00	6.75	0.00	20.00	0.00	4.78	0.00	0.00	0.00	8.00	30.00	4.00	4.33	3.67	3.33	5.00	0.00	8.00	0.00	25.33	2.33	0.00	4.33	129.87
66	Kake City	Kake High School Gym Floor and Bleacher Replacement	21.00	30.00	0.00	0.00	0.00	1.63	0.00	0.00	0.00	0.00	30.00	2.67	3.67	3.00	3.33	3.00	0.00	10.46	0.00	13.33	0.67	0.00	7.00	129.76
67	Southwest Region	Twin Hills K-12 School Renovation	30.00	30.00	0.00	0.00	0.00	1.87	0.00	0.00	0.00	0.00	25.00	3.00	2.33	2.67	2.67	2.00	0.00	5.78	0.00	11.67	7.33	0.00	5.00	129.32
68	Valdez City	Valdez High and Hermon Hutchens Elementary Schools Generator Replacement	27.00	29.99	0.00	10.00	0.00	1.62	0.00	0.00	0.00	5.00	20.00	2.67	3.00	3.00	3.00	3.00	0.00	4.00	0.00	11.67	1.00	0.00	4.33	129.28
69	Saint Marys City	St. Mary's Campus Renewal and Repairs	30.00	30.00	0.00	10.00	0.00	1.29	0.00	0.00	0.00	0.00	25.00	3.00	2.33	3.67	3.00	3.33	0.00	0.00	0.33	12.33	1.00	0.00	3.67	128.96

Alaska Department of Education and Early Development
FY2021 Capital Improvement Projects
Major Maintenance Grant Fund
Total Points - Formula Driven and Evaluative
Initial List

Nov 5 Rank	School District	Project Name	School Dist Rank	Weight Avg Age	Prev. 14.11 Fund	Plan and Design	Prior Design Use	Avg Expend Maint	Un-Housed Today	Un-Housed 7 Years	Type of Space	Cond Survey	O&M Rpts	Maint Mgt	Energy Mgt	Cusd Pgm	Maint Train	Capital Plan	Emer-gency	Life/Safety and Code Conditions	Exist-ing Space	Cost Esti-mate	Proj vs Oper Cost	Altern at-ives	Options	Total Project Points
70	Anchorage	Muldoon Elementary School Partial Roof Replacement	0.00	4.00	0.00	25.00	0.00	5.00	0.00	0.00	0.00	8.00	25.00	4.33	4.00	4.00	3.00	5.00	0.00	8.00	0.00	24.67	2.67	0.00	6.00	128.67
71	Southwest Region	Aleknagik K-12 School Renovation	24.00	23.00	0.00	0.00	0.00	1.87	0.00	0.00	0.00	0.00	25.00	3.00	2.33	2.67	2.67	2.00	0.00	18.18	0.00	12.33	5.33	0.00	5.33	127.71
72	Kake City	Exterior Upgrades - Main School Facilities	24.00	26.74	0.00	0.00	0.00	1.64	0.00	0.00	0.00	0.00	25.00	3.00	3.67	3.00	3.33	3.33	0.00	8.43	0.00	14.00	2.67	0.00	8.33	127.14
73	Iditarod Area	David-Louis Memorial K-12 School Roof Replacement, Grayling	27.00	16.00	0.00	10.00	0.00	2.53	0.00	0.00	0.00	0.00	25.00	2.00	2.00	2.33	2.33	2.33	0.00	10.95	0.00	13.33	3.33	0.00	7.67	126.81
74	Nome City	Nome Elementary School Fire Alarm Replacement	27.00	16.00	0.00	20.00	0.00	1.58	0.00	0.00	0.00	0.00	20.00	2.00	2.33	2.00	1.33	3.00	6.67	6.00	0.67	13.67	0.00	0.00	4.33	126.58
75	Kake City	Kake High School Plumbing Replacement	27.00	30.00	0.00	0.00	0.00	1.63	0.00	0.00	0.00	0.00	30.00	2.67	3.67	3.00	3.33	3.00	0.00	0.00	0.33	14.00	1.00	0.00	5.67	125.30
76	Lower Yukon	Scammon Bay K-12 School Siding Replacement	15.00	1.50	0.00	25.00	0.00	2.20	0.00	0.00	0.00	8.00	25.00	3.33	3.00	3.00	2.67	3.33	1.67	2.00	0.00	17.00	3.33	0.00	9.00	125.03
77	Copper River	Glennallen Voc-Ed Facility Renovation	24.00	6.94	0.00	10.00	0.00	1.40	0.00	0.00	0.00	10.00	25.00	3.67	3.33	3.33	3.00	3.67	0.00	6.08	0.00	14.33	3.33	0.00	6.67	124.75
78	Anchorage	Bartlett High School Intercom	0.00	30.00	0.00	10.00	0.00	4.78	0.00	0.00	0.00	0.00	30.00	4.00	4.33	3.67	3.33	5.00	0.00	8.00	0.00	15.00	2.00	0.00	2.33	122.45
79	Southeast Island	Thorne Bay K-12 School Fire Suppression System	30.00	11.42	0.00	10.00	0.00	3.01	0.00	0.00	0.00	8.00	5.00	2.00	2.67	2.00	2.33	2.67	9.33	5.00	0.00	14.33	4.00	0.00	9.00	120.77
80	Kodiak Island Borouç	East Elementary School Special Electrical and Security	18.00	30.00	0.00	10.00	0.00	2.83	0.00	0.00	0.00	0.00	25.00	3.00	2.67	3.33	2.67	3.67	0.00	1.15	1.00	14.33	0.00	0.00	1.67	119.31
81	Anchorage	Spring Hill Elementary School Intercom/Clocks	0.00	17.75	0.00	10.00	0.00	5.00	0.00	0.00	0.00	0.00	25.00	4.33	4.00	4.00	3.00	4.67	0.00	8.00	1.33	22.67	3.33	0.00	6.00	119.08
82	Fairbanks Borough	Tanana Middle School Exterior	12.00	30.00	0.00	0.00	0.00	3.70	0.00	0.00	0.00	0.00	30.00	4.00	4.33	4.33	1.67	3.33	0.00	2.35	0.00	13.67	4.00	0.00	5.00	118.39
83	Lower Yukon	Ignatius Beans K-12 School Marine Header Pipeline, Mountain Village	18.00	7.36	0.00	20.00	0.00	2.11	0.00	0.00	0.00	8.00	25.00	3.00	1.33	3.00	2.33	2.67	0.00	2.00	0.00	13.67	0.00	0.00	6.33	114.80
84	Kenai Peninsula Bor	Seward Middle School Exterior Repair	27.00	2.00	0.00	10.00	0.00	3.08	0.00	0.00	0.00	8.00	25.00	3.67	3.33	4.33	3.00	3.67	0.00	6.00	0.33	11.67	1.00	0.00	2.33	114.41
85	Kodiak Island Borouç	North Star Elementary School Siding Replacement	24.00	9.50	0.00	10.00	0.00	2.83	0.00	0.00	0.00	0.00	25.00	3.00	2.67	3.33	2.67	3.67	0.00	12.00	0.00	14.33	0.00	0.00	1.33	114.33
86	Southeast Island	Thorne Bay K-12 School Flooring Replacement	15.00	11.42	0.00	25.00	0.00	3.01	0.00	0.00	0.00	0.00	5.00	2.00	2.67	2.00	2.33	2.67	0.00	4.00	0.33	28.67	2.33	0.00	7.67	114.10
87	Anchorage	Fire Lake Elementary School Roof Replacement	0.00	17.75	0.00	10.00	0.00	5.00	0.00	0.00	0.00	0.00	25.00	4.33	4.00	4.00	3.00	5.00	0.00	3.00	0.00	26.67	0.00	0.00	5.33	113.08
88	Fairbanks Borough	Arctic Light Elementary School Lighting and Energy Upgrades	18.00	9.50	0.00	0.00	0.00	3.70	0.00	0.00	0.00	5.00	30.00	4.00	4.33	4.33	1.67	3.33	0.00	2.00	0.00	7.33	12.33	0.00	4.33	109.87
89	Fairbanks Borough	Two Rivers Elementary School Flooring and Restroom Renovation	15.00	24.36	0.00	0.00	0.00	3.70	0.00	0.00	0.00	0.00	30.00	4.00	4.33	4.33	1.67	3.33	0.00	1.98	0.00	14.00	0.00	0.00	3.00	109.71
90	Southeast Island	Thorne Bay K-12 School Mechanical Control Upgrades	24.00	11.42	0.00	10.00	0.00	3.01	0.00	0.00	0.00	8.00	5.00	2.00	2.67	2.00	2.33	2.67	1.67	8.00	0.00	14.67	6.67	0.00	5.33	109.43
91	Mat-Su Borough	Butte and Snowshoe Elementary Schools Water System Replacement	24.00	29.13	0.00	10.00	0.00	2.35	0.00	0.00	0.00	0.00	5.00	2.67	2.00	2.33	0.00	3.00	0.00	4.00	2.67	14.67	1.00	0.00	2.33	105.14
92	Mat-Su Borough	Talkeetna Elementary School Roof Replacement	21.00	21.20	0.00	10.00	0.00	2.35	0.00	0.00	0.00	8.00	5.00	2.67	2.00	2.33	0.00	3.00	0.00	6.00	3.33	14.00	2.00	0.00	1.67	104.55
93	Mat-Su Borough	Colony and Wasilla Middle Schools Roof Replacement	18.00	20.90	0.00	10.00	0.00	2.35	0.00	0.00	0.00	8.00	5.00	2.67	2.00	2.33	0.00	3.00	0.00	6.00	1.67	13.67	2.00	0.00	1.67	99.25

Alaska Department of Education and Early Development
FY2021 Capital Improvement Projects
Major Maintenance Grant Fund
Total Points - Formula Driven and Evaluative
Initial List

Nov 5 Rank	School District	Project Name	School Dist Rank	Weight Avg Age	Prev. 14.11 Fund	Plan and Design	Prior Design Use	Avg Expend Maint	Un-Housed Today	Un-Housed 7 Years	Type of Space	Cond Survey	O&M Rpts	Maint Mgt	Energy Mgt	Cusd Pgm	Maint Train	Capital Plan	Emer-gency	Life/Safety and Code Conditions	Exist-ing Space	Cost Esti-mate	Proj vs Oper Cost	Altern at-ives	Options	Total Project Points
94	Southeast Island	Port Alexander K-12 School Domestic Water Pipe Replacement	12.00	22.88	0.00	0.00	0.00	3.01	0.00	0.00	0.00	3.00	5.00	2.00	2.67	2.00	2.33	2.67	5.33	6.98	0.00	13.00	2.67	0.00	6.00	91.54
95	Mat-Su Borough	Windows and Lighting Upgrades, 3	15.00	30.00	0.00	0.00	0.00	2.35	0.00	0.00	0.00	0.00	5.00	2.67	2.00	2.33	0.00	3.00	0.00	13.50	0.00	10.67	3.00	0.00	2.00	91.52
96	Yupiit	Mechanical System Improvements, 3 Schools	24.00	2.19	0.00	0.00	0.00	1.65	0.00	0.00	0.00	0.00	30.00	3.33	2.67	2.00	2.67	2.67	0.00	3.00	0.33	11.33	2.33	0.00	3.33	91.50
97	Yupiit	Akiachak K-12 School Window	21.00	2.19	0.00	0.00	0.00	1.65	0.00	0.00	0.00	0.00	30.00	3.33	2.67	2.00	2.67	2.67	0.00	0.00	0.00	12.33	1.33	0.00	8.33	90.17
98	Lower Yukon	Kotlik and Pilot Station K-12 Schools	3.00	3.00	0.00	10.00	0.00	2.20	0.00	0.00	0.00	5.00	25.00	3.33	3.00	3.00	2.67	3.33	0.00	3.99	0.00	12.00	3.00	0.00	5.00	87.52
99	Lower Yukon	Sheldon Point K-12 School Exterior Repairs, Nunam Iqua	9.00	0.00	0.00	0.00	0.00	2.20	0.00	0.00	0.00	5.00	25.00	3.33	3.00	3.00	2.67	3.33	1.67	2.00	0.00	13.33	3.33	0.00	10.00	86.87
100	Southeast Island	Thorne Bay K-12 School Underground Storage Tank Replacement	21.00	11.42	0.00	10.00	0.00	3.01	0.00	0.00	0.00	0.00	5.00	2.00	2.67	2.00	2.33	2.67	0.00	2.00	0.00	14.67	0.00	0.00	4.67	83.43
101	Southeast Island	Port Alexander & Thorne Bay K-12 Schools Roof Replacement	18.00	11.66	0.00	0.00	0.00	3.01	0.00	0.00	0.00	0.00	5.00	2.00	2.67	2.00	2.33	2.67	0.00	6.00	0.67	13.67	2.00	0.00	5.33	77.00
102	Lower Yukon	Security Access Upgrades, 6 Sites	6.00	1.93	0.00	0.00	0.00	2.11	0.00	0.00	0.00	0.00	25.00	3.00	1.33	3.00	2.33	2.67	0.00	0.00	0.00	12.33	2.33	0.00	4.33	66.37

Alaska Department of Education and Early Development
FY2021 Capital Improvement Projects
School Construction and Major Maintenance by Districts

Total Points - Formula-Driven and Evaluative
Initial List

School District	Nov 5 Rank	MM/ SC	Project Name	School Dist Rank	Weight Avg Age	Prev. 14.11 Fund	Plan and Design	Prior Design Use	Avg Expend Maint	Un-Housed Today	Un-Housed 7 Years	Type of Space	Cond Survey	O&M Rpts	Maint Mgt	Energy Mgt	Cusd Pgm	Maint Train	Capital Plan	Emer-gency	Life/Safety and Code Conditions	Exist-ing Space	Cost Esti-mate	Proj vs Oper Cost	Alter nat-ives	Options	Total Project Points
Aleutians East Boro	24	M	Sand Point K-12 School Pool Major Maintenance	30.00	22.07	0.00	25.00	0.00	1.52	0.00	0.00	0.00	0.00	30.00	2.67	3.00	2.00	2.67	2.33	0.00	4.00	0.33	29.00	7.67	0.00	6.67	168.92
Anchorage	5	C	Gruening Middle School Accessibility Upgrades	30.00	19.50	0.00	25.00	0.00	5.00	0.00	0.00	30.00	10.00	25.00	4.33	4.00	4.00	3.00	5.00	0.00	1.75	7.67	25.67	1.33	1.67	4.67	207.58
Anchorage	7	C	East High School Bus Driveway Improvements	21.00	30.00	0.00	25.00	0.00	5.00	0.00	0.00	0.00	10.00	25.00	4.33	3.67	4.00	3.00	4.67	0.00	13.00	0.00	24.33	2.33	1.67	5.00	182.00
Anchorage	5	M	West High School Roof Replacement	12.00	30.00	0.00	25.00	0.00	4.78	0.00	0.00	0.00	8.00	30.00	4.00	4.67	3.67	3.33	5.00	0.00	27.67	1.67	27.00	3.67	0.00	7.33	197.78
Anchorage	8	M	Birchwood Elementary School Roof Replacement	9.00	30.00	0.00	25.00	0.00	4.78	0.00	0.00	0.00	8.00	30.00	4.00	4.33	3.67	3.33	5.00	0.00	19.46	2.00	26.33	3.67	0.00	6.67	185.24
Anchorage	10	M	Service High School Health and Safety Improvements	0.00	30.00	0.00	25.00	0.00	4.78	0.00	0.00	0.00	5.00	30.00	4.00	4.33	3.67	3.33	5.00	0.00	37.51	2.00	24.00	2.33	0.00	3.33	184.29
Anchorage	11	M	Nunaka Valley Elementary School Roof Replacement	27.00	30.00	0.00	25.00	0.00	5.00	0.00	0.00	0.00	8.00	25.00	4.33	4.00	4.00	3.00	5.00	0.00	8.91	0.00	25.00	2.67	0.00	6.67	183.58
Anchorage	12	M	Northwood Elementary School Partial Roof Replacement	24.00	30.00	0.00	25.00	0.00	5.00	0.00	0.00	0.00	8.00	25.00	4.33	4.00	4.00	3.00	5.00	0.00	11.00	0.00	24.67	2.67	0.00	7.00	182.67
Anchorage	13	M	Inlet View Elementary School Domestic Water System Improvements	18.00	30.00	0.00	25.00	0.00	5.00	0.00	0.00	0.00	10.00	25.00	4.33	4.00	4.00	3.00	5.00	0.00	15.00	0.00	26.67	0.00	0.00	7.33	182.33
Anchorage	18	M	Stellar Secondary School Fire Alarm	15.00	30.00	0.00	20.00	0.00	4.78	0.00	0.00	0.00	0.00	30.00	4.00	4.33	3.67	3.33	5.00	0.00	18.04	0.67	27.00	4.00	0.00	5.00	174.82
Anchorage	26	M	Ptarmigan Elementary School Roof Replacement	3.00	21.97	0.00	25.00	0.00	4.78	0.00	0.00	0.00	8.00	30.00	4.00	4.33	3.67	3.33	5.00	0.00	14.83	1.67	26.67	3.00	0.00	5.67	164.92
Anchorage	27	M	Mears Middle School Roof Replacement	6.00	19.50	0.00	25.00	0.00	4.78	0.00	0.00	0.00	3.00	30.00	4.00	4.33	3.67	3.33	5.00	0.00	21.59	2.00	24.00	1.67	0.00	5.67	163.54
Anchorage	65	M	Roof And Gutter Improvements, 3 Schools	0.00	6.75	0.00	20.00	0.00	4.78	0.00	0.00	0.00	8.00	30.00	4.00	4.33	3.67	3.33	5.00	0.00	8.00	0.00	25.33	2.33	0.00	4.33	129.87
Anchorage	70	M	Muldoon Elementary School Partial Roof Replacement	0.00	4.00	0.00	25.00	0.00	5.00	0.00	0.00	0.00	8.00	25.00	4.33	4.00	4.00	3.00	5.00	0.00	8.00	0.00	24.67	2.67	0.00	6.00	128.67
Anchorage	78	M	Bartlett High School Intercom	0.00	30.00	0.00	10.00	0.00	4.78	0.00	0.00	0.00	0.00	30.00	4.00	4.33	3.67	3.33	5.00	0.00	8.00	0.00	15.00	2.00	0.00	2.33	122.45
Anchorage	81	M	Spring Hill Elementary School Intercom/Clocks	0.00	17.75	0.00	10.00	0.00	5.00	0.00	0.00	0.00	0.00	25.00	4.33	4.00	4.00	3.00	4.67	0.00	8.00	1.33	22.67	3.33	0.00	6.00	119.08
Anchorage	87	M	Fire Lake Elementary School Roof Replacement	0.00	17.75	0.00	10.00	0.00	5.00	0.00	0.00	0.00	0.00	25.00	4.33	4.00	4.00	3.00	5.00	0.00	3.00	0.00	26.67	0.00	0.00	5.33	113.08
Bristol Bay Borough	38	M	Bristol Bay Elementary School And Gym Roof Replacement	30.00	17.12	0.00	10.00	0.00	1.20	0.00	0.00	0.00	8.00	25.00	3.00	2.67	2.33	3.67	3.33	0.00	18.00	0.00	15.00	3.33	0.00	6.33	148.99
Chatham	41	M	Klukwan K-12 School Roof Replacement	30.00	23.00	0.00	0.00	0.00	1.18	0.00	0.00	0.00	3.00	30.00	2.67	2.67	2.00	2.33	2.67	5.00	16.00	2.00	14.67	4.67	0.00	6.00	147.84
Chatham	43	M	Fire Alarm Upgrades, 3 Sites	27.00	30.00	0.00	10.00	0.00	1.34	0.00	0.00	0.00	0.00	25.00	3.00	2.67	2.33	1.67	2.00	0.00	8.00	0.00	22.67	0.67	0.00	8.00	144.34
Chugach	6	M	Tatitlek K-12 School Renovation	27.00	18.62	0.00	20.00	0.00	1.44	0.00	0.00	0.00	10.00	25.00	3.00	3.33	3.33	2.33	3.00	5.00	39.50	0.00	17.67	1.33	0.00	12.67	193.23
Chugach	19	M	Chenega Bay K-12 School Renovation	30.00	11.59	0.00	20.00	0.00	1.44	0.00	0.00	0.00	10.00	25.00	3.00	3.33	3.33	2.33	3.00	0.00	29.63	0.00	17.67	2.00	0.00	12.33	174.66
Copper River	16	M	District Office Roof Renovation and Energy Upgrade	30.00	30.00	0.00	10.00	0.00	1.40	0.00	0.00	0.00	10.00	25.00	3.67	3.33	3.33	3.00	3.67	0.00	26.67	0.00	13.67	4.67	0.00	7.67	176.07
Copper River	64	M	Glennallen and Kenny Lake Schools Energy Upgrade	27.00	10.75	0.00	10.00	0.00	1.40	0.00	0.00	0.00	8.00	25.00	3.67	3.33	3.33	3.00	3.67	0.00	0.00	0.00	14.33	10.67	0.00	7.00	131.15
Copper River	77	M	Glennallen Voc-Ed Facility Renovation	24.00	6.94	0.00	10.00	0.00	1.40	0.00	0.00	0.00	10.00	25.00	3.67	3.33	3.33	3.00	3.67	0.00	6.08	0.00	14.33	3.33	0.00	6.67	124.75
Craig City	4	M	Craig Middle School Code and Security Improvements	30.00	26.81	0.00	20.00	0.00	2.38	0.00	0.00	0.00	10.00	25.00	3.00	3.00	2.33	2.00	3.00	0.00	34.91	3.67	20.33	4.00	0.00	7.67	198.09
Denali Borough	7	M	Anderson K-12 School Partial Roof Replacement	30.00	30.00	0.00	25.00	0.00	3.14	0.00	0.00	0.00	10.00	30.00	3.33	3.67	3.00	3.00	3.33	0.00	6.00	0.00	20.33	6.33	0.00	15.00	192.14
Denali Borough	44	M	Generator Replacement, 3 Schools	27.00	27.09	0.00	10.00	0.00	4.19	0.00	0.00	0.00	10.00	25.00	3.67	3.67	3.00	2.67	3.67	0.00	2.67	0.00	14.00	1.33	0.00	6.00	143.95

Alaska Department of Education and Early Development
FY2021 Capital Improvement Projects
School Construction and Major Maintenance by Districts

Total Points - Formula-Driven and Evaluative
Initial List

School District	Nov 5 Rank	MM/ SC	Project Name	School Dist Rank	Weight Avg Age	Prev. 14.11 Fund	Plan and Design	Prior Design Use	Avg Expend Maint	Un-Housed Today	Un-Housed 7 Years	Type of Space	Cond Survey	O&M Rpts	Maint Mgt	Energy Mgt	Cusd Pgm	Maint Train	Capital Plan	Emer-gency	Life/Safety and Code Conditions	Exist-ing Space	Cost Esti-mate	Proj vs Oper Cost	Alter nat-ives	Options	Total Project Points
Fairbanks Borough	23	M	Administrative Center Air Conditioning and Ventilation Replacement	30.00	8.75	0.00	25.00	0.00	3.88	0.00	0.00	0.00	0.00	25.00	4.00	3.67	4.33	3.33	2.67	6.67	4.00	0.00	25.33	8.33	0.00	14.33	169.30
Fairbanks Borough	53	M	Ben Eielson Jr/Sr High School Roof Replacement	24.00	30.00	0.00	0.00	0.00	3.70	0.00	0.00	0.00	0.00	30.00	4.00	4.33	4.33	1.67	3.33	0.00	7.88	0.00	14.33	7.00	0.00	5.00	139.59
Fairbanks Borough	57	M	Lathrop High School Roof Replacement	27.00	17.75	0.00	10.00	0.00	3.70	0.00	0.00	0.00	0.00	30.00	4.00	4.33	4.33	1.67	3.33	0.00	7.70	0.00	17.00	0.00	0.00	5.33	136.15
Fairbanks Borough	58	M	Woodriver Elementary School Roof Replacement	21.00	30.00	0.00	0.00	0.00	3.70	0.00	0.00	0.00	0.00	30.00	4.00	4.33	4.33	1.67	3.33	0.00	6.61	0.00	14.67	7.00	0.00	5.00	135.64
Fairbanks Borough	59	M	North Pole Middle School Exterior Upgrades	9.00	30.00	0.00	0.00	0.00	3.70	0.00	0.00	0.00	0.00	30.00	4.00	4.33	4.33	1.67	3.33	0.00	24.00	0.00	13.67	2.33	0.00	4.33	134.70
Fairbanks Borough	82	M	Tanana Middle School Exterior Upgrades	12.00	30.00	0.00	0.00	0.00	3.70	0.00	0.00	0.00	0.00	30.00	4.00	4.33	4.33	1.67	3.33	0.00	2.35	0.00	13.67	4.00	0.00	5.00	118.39
Fairbanks Borough	88	M	Arctic Light Elementary School Lighting and Energy Upgrades	18.00	9.50	0.00	0.00	0.00	3.70	0.00	0.00	0.00	5.00	30.00	4.00	4.33	4.33	1.67	3.33	0.00	2.00	0.00	7.33	12.33	0.00	4.33	109.87
Fairbanks Borough	89	M	Two Rivers Elementary School Flooring and Restroom Renovation	15.00	24.36	0.00	0.00	0.00	3.70	0.00	0.00	0.00	0.00	30.00	4.00	4.33	4.33	1.67	3.33	0.00	1.98	0.00	14.00	0.00	0.00	3.00	109.71
Galena City	2	M	Galena Interior Learning Academy Composite Building Renovation	30.00	17.75	0.00	25.00	0.00	4.87	0.00	0.00	0.00	10.00	25.00	3.33	3.33	3.33	3.33	3.67	0.00	29.64	3.33	23.67	9.33	0.00	11.33	206.93
Haines Borough	42	M	Haines High School Locker Room Renovation	27.00	23.00	0.00	10.00	0.00	1.55	0.00	0.00	0.00	5.00	25.00	2.67	3.00	2.00	2.67	2.67	0.00	14.88	0.67	14.00	3.33	0.00	8.33	145.76
Haines Borough	50	M	Haines High School Roof Replacement	30.00	30.00	0.00	0.00	0.00	1.55	0.00	0.00	0.00	0.00	25.00	2.67	3.00	2.00	2.67	2.67	3.33	15.00	0.00	13.00	3.33	0.00	7.33	141.55
Hoonah City	8	C	Hoonah School Playground Improvements	27.00	30.00	0.00	25.00	0.00	1.72	0.00	0.00	0.00	0.00	30.00	3.00	3.67	3.00	2.33	2.00	0.00	6.34	2.00	29.00	0.00	1.67	8.33	175.06
Hoonah City	32	M	Hoonah Central Boiler Replacement	30.00	30.00	0.00	10.00	0.00	1.72	0.00	0.00	0.00	8.00	30.00	3.00	3.67	3.00	2.33	2.00	0.00	0.00	0.00	13.67	7.67	0.00	9.67	154.72
Iditarod Area	9	M	David-Louis Memorial K-12 School HVAC Control Upgrades, Grayling	30.00	16.00	0.00	25.00	0.00	2.53	0.00	0.00	0.00	8.00	25.00	2.00	2.00	2.33	2.33	2.33	5.00	20.71	0.00	28.00	5.67	0.00	7.67	184.58
Iditarod Area	37	M	Blackwell K-12 School HVAC Control Upgrades, Anvik	24.00	30.00	0.00	10.00	0.00	2.53	0.00	0.00	0.00	8.00	25.00	2.00	2.00	2.33	2.33	2.33	0.00	15.00	2.33	13.67	2.67	0.00	6.00	150.20
Iditarod Area	73	M	David-Louis Memorial K-12 School Roof Replacement, Grayling	27.00	16.00	0.00	10.00	0.00	2.53	0.00	0.00	0.00	0.00	25.00	2.00	2.00	2.33	2.33	2.33	0.00	10.95	0.00	13.33	3.33	0.00	7.67	126.81
Juneau Borough	15	M	Sayéik: Gastineau Community School Partial Roof Replacement	30.00	30.00	0.00	25.00	0.00	2.44	0.00	0.00	0.00	5.00	25.00	3.67	2.67	4.67	3.33	3.67	0.00	7.54	0.00	21.67	7.33	0.00	7.33	179.31
Juneau Borough	63	M	Dzantik'i Heeni Middle School Roof Replacement	27.00	8.00	0.00	10.00	0.00	2.44	0.00	0.00	0.00	10.00	25.00	3.67	2.67	4.67	3.33	3.67	0.00	6.00	0.00	17.67	3.00	0.00	4.67	131.77
Kake City	3	M	Kake Schools Heating Upgrades	30.00	29.39	0.00	25.00	0.00	1.63	0.00	0.00	0.00	8.00	30.00	2.67	3.67	3.00	3.33	3.00	0.00	17.33	3.33	28.33	7.00	0.00	10.00	205.69
Kake City	66	M	Kake High School Gym Floor and Bleacher Replacement	21.00	30.00	0.00	0.00	0.00	1.63	0.00	0.00	0.00	0.00	30.00	2.67	3.67	3.00	3.33	3.00	0.00	10.46	0.00	13.33	0.67	0.00	7.00	129.76
Kake City	72	M	Exterior Upgrades - Main School Facilities	24.00	26.74	0.00	0.00	0.00	1.64	0.00	0.00	0.00	0.00	25.00	3.00	3.67	3.00	3.33	3.33	0.00	8.43	0.00	14.00	2.67	0.00	8.33	127.14
Kake City	75	M	Kake High School Plumbing Replacement	27.00	30.00	0.00	0.00	0.00	1.63	0.00	0.00	0.00	0.00	30.00	2.67	3.67	3.00	3.33	3.00	0.00	0.00	0.33	14.00	1.00	0.00	5.67	125.30
Kenai Peninsula Borough	11	C	Kenai Middle School Security Remodel	30.00	30.00	0.00	10.00	0.00	3.08	0.00	0.00	0.00	0.00	25.00	3.67	3.33	4.33	3.00	3.67	0.00	1.59	4.33	15.33	0.00	1.33	5.00	143.67
Kenai Peninsula Borough	84	M	Seward Middle School Exterior Repair	27.00	2.00	0.00	10.00	0.00	3.08	0.00	0.00	0.00	8.00	25.00	3.67	3.33	4.33	3.00	3.67	0.00	6.00	0.33	11.67	1.00	0.00	2.33	114.41
Ketchikan Borough	20	M	Ketchikan High School Security Upgrades	30.00	30.00	0.00	25.00	0.00	4.42	0.00	0.00	0.00	0.00	25.00	3.67	3.00	2.67	3.00	3.33	0.00	0.00	0.00	24.33	11.00	0.00	6.67	172.09
Kodiak Island Borough	13	C	East Elementary School Parking Lot Safety Upgrade and Repaving	21.00	30.00	0.00	0.00	0.00	2.83	0.00	0.00	0.00	0.00	25.00	3.00	2.67	3.33	2.67	3.67	0.00	7.00	0.00	12.00	1.67	0.00	2.67	117.50
Kodiak Island Borough	36	M	Peterson Elementary School Roof Replacement	30.00	30.00	0.00	10.00	0.00	2.83	0.00	0.00	0.00	8.00	25.00	3.00	2.67	3.33	2.67	3.67	0.00	7.18	1.33	14.33	2.33	0.00	4.00	150.35

Alaska Department of Education and Early Development
FY2021 Capital Improvement Projects
School Construction and Major Maintenance by Districts

Total Points - Formula-Driven and Evaluative
Initial List

School District	Nov 5 Rank	MM/ SC	Project Name	School Dist Rank	Weight Avg Age	Prev. 14.11 Fund	Plan and Design	Prior Design Use	Avg Expend Maint	Un-Housed Today	Un-Housed 7 Years	Type of Space	Cond Survey	O&M Rpts	Maint Mgt	Energy Mgt	Cusd Pgm	Maint Train	Capital Plan	Emer-gency	Life/Safety and Code Conditions	Exist-ing Space	Cost Esti-mate	Proj vs Oper Cost	Alter nat-ives	Options	Total Project Points
Kodiak Island Borough	46	M	Chiniak K-12 School Water Treatment Code Compliance and Upgrade	27.00	30.00	0.00	10.00	0.00	2.83	0.00	0.00	0.00	0.00	25.00	3.00	2.67	3.33	2.67	3.67	0.00	16.00	0.00	13.33	1.00	0.00	2.67	143.17
Kodiak Island Borough	80	M	East Elementary School Special Electrical and Security	18.00	30.00	0.00	10.00	0.00	2.83	0.00	0.00	0.00	0.00	25.00	3.00	2.67	3.33	2.67	3.67	0.00	1.15	1.00	14.33	0.00	0.00	1.67	119.31
Kodiak Island Borough	85	M	North Star Elementary School Siding Replacement	24.00	9.50	0.00	10.00	0.00	2.83	0.00	0.00	0.00	0.00	25.00	3.00	2.67	3.33	2.67	3.67	0.00	12.00	0.00	14.33	0.00	0.00	1.33	114.33
Kuspuk	48	M	Jack Egnaty Sr K-12 School Roof Replacement, Sleetmute	30.00	28.25	0.00	0.00	0.00	1.93	0.00	0.00	0.00	0.00	25.00	2.67	3.00	2.00	2.00	2.33	8.33	10.67	0.67	15.33	2.67	0.00	7.67	142.51
Lower Kuskokwim	2	C	Anna Tobeluk Memorial K-12 School Renovation/Addition, Nunapitchuk	27.00	21.95	0.00	10.00	0.00	3.20	30.19	23.79	22.21	10.00	30.00	2.67	2.33	2.67	2.33	3.00	0.00	31.91	19.67	12.67	3.33	3.33	11.67	273.92
Lower Kuskokwim	6	C	William N. Miller K-12 Memorial School Replacement, Napakiak	30.00	30.00	0.00	0.00	0.00	3.63	0.00	0.00	22.55	0.00	25.00	4.00	3.67	3.33	3.33	3.67	25.00	10.67	0.00	14.67	4.67	3.00	8.33	195.51
Lower Kuskokwim	9	C	Newtok K-12 School Relocation/Replacement, Mertarvik	24.00	8.86	0.00	0.00	0.00	3.20	4.06	2.44	22.79	0.00	30.00	2.67	2.33	2.67	2.33	3.00	21.33	0.41	6.33	13.00	3.00	4.33	8.00	164.76
Lower Kuskokwim	10	C	Water Storage and Treatment, Kongiganak	21.00	0.00	0.00	20.00	0.00	3.63	0.00	0.00	0.00	10.00	25.00	4.00	3.67	3.33	3.33	3.67	0.00	17.33	0.00	17.67	3.00	2.00	9.00	146.63
Lower Kuskokwim	12	C	Bethel Campus Transportation and Drainage Upgrades	9.00	24.30	0.00	10.00	0.00	3.63	0.00	0.00	0.00	10.00	25.00	4.00	3.67	3.33	3.67	3.33	0.00	11.67	0.00	15.67	2.00	3.00	4.33	136.60
Lower Kuskokwim	21	M	Qugcuun Memorial K-12 School Renovation, Oscarville	6.00	26.93	0.00	10.00	0.00	3.20	0.00	0.00	0.00	10.00	30.00	2.67	2.33	2.67	2.33	3.00	0.00	50.00	1.00	14.00	1.67	0.00	5.33	171.13
Lower Kuskokwim	22	M	Akula Elitnauvik K-12 School Renovation, Kasigluk-Akula	18.00	23.26	0.00	10.00	0.00	3.20	0.00	0.00	0.00	10.00	30.00	2.67	2.33	2.67	2.33	3.00	1.67	33.77	1.67	15.67	2.67	0.00	8.00	170.89
Lower Kuskokwim	40	M	Bethel Regional High School Boardwalk Replacement	12.00	30.00	0.00	10.00	0.00	3.63	0.00	0.00	0.00	10.00	25.00	4.00	3.67	3.33	3.33	3.67	1.67	15.58	0.00	14.67	1.67	0.00	6.00	148.21
Lower Kuskokwim	62	M	Akiuk Memorial K-12 School Renovation, Kasigluk-Akiuk	15.00	10.00	0.00	10.00	0.00	3.20	0.00	0.00	0.00	10.00	30.00	2.67	2.33	2.67	2.33	3.00	0.00	17.48	1.67	14.33	2.33	0.00	5.00	132.01
Lower Yukon	17	M	Hooper Bay K-12 School Exterior Repairs	24.00	1.00	0.00	25.00	0.00	2.20	0.00	0.00	0.00	8.00	25.00	3.33	3.00	3.00	2.67	3.33	6.67	21.28	3.00	27.33	4.67	0.00	12.33	175.81
Lower Yukon	28	M	Sheldon Point K-12 School Foundation Cooling and Repairs, Nunam Iqua	30.00	0.50	0.00	25.00	0.00	2.11	0.00	0.00	0.00	8.00	25.00	3.00	1.33	3.00	2.33	2.67	11.67	8.23	4.00	27.33	0.33	0.00	7.67	162.17
Lower Yukon	39	M	Hooper Bay K-12 School Emergency Lighting and Retrofit	27.00	1.50	0.00	25.00	0.00	2.11	0.00	0.00	0.00	5.00	25.00	3.00	1.33	3.00	2.33	2.67	0.00	3.02	1.33	28.67	10.67	0.00	7.33	148.97
Lower Yukon	47	M	Scammon Bay K-12 School Emergency Lighting and Retrofit	21.00	2.00	0.00	25.00	0.00	2.11	0.00	0.00	0.00	5.00	25.00	3.00	1.33	3.00	2.33	2.67	0.00	3.02	1.33	28.67	10.33	0.00	7.33	143.13
Lower Yukon	55	M	LYSD Central Office Renovation	12.00	26.19	0.00	0.00	0.00	2.11	0.00	0.00	0.00	0.00	25.00	3.00	1.33	3.00	2.33	2.67	0.00	35.85	0.67	14.33	5.00	0.00	6.00	139.48
Lower Yukon	76	M	Scammon Bay K-12 School Siding Replacement	15.00	1.50	0.00	25.00	0.00	2.20	0.00	0.00	0.00	8.00	25.00	3.33	3.00	3.00	2.67	3.33	1.67	2.00	0.00	17.00	3.33	0.00	9.00	125.03
Lower Yukon	83	M	Ignatius Beans K-12 School Marine Header Pipeline, Mountain Village	18.00	7.36	0.00	20.00	0.00	2.11	0.00	0.00	0.00	8.00	25.00	3.00	1.33	3.00	2.33	2.67	0.00	2.00	0.00	13.67	0.00	0.00	6.33	114.80
Lower Yukon	98	M	Kotlik and Pilot Station K-12 Schools Renewal and Repair	3.00	3.00	0.00	10.00	0.00	2.20	0.00	0.00	0.00	5.00	25.00	3.33	3.00	3.00	2.67	3.33	0.00	3.99	0.00	12.00	3.00	0.00	5.00	87.52
Lower Yukon	99	M	Sheldon Point K-12 School Exterior Repairs, Nunam Iqua	9.00	0.00	0.00	0.00	0.00	2.20	0.00	0.00	0.00	5.00	25.00	3.33	3.00	3.00	2.67	3.33	1.67	2.00	0.00	13.33	3.33	0.00	10.00	86.87
Lower Yukon	102	M	Security Access Upgrades, 6 Sites	6.00	1.93	0.00	0.00	0.00	2.11	0.00	0.00	0.00	0.00	25.00	3.00	1.33	3.00	2.33	2.67	0.00	0.00	0.00	12.33	2.33	0.00	4.33	66.37
Mat-Su Borough	4	C	Houston Middle School Renovation/Addition	30.00	17.75	0.00	0.00	0.00	2.35	3.33	2.00	0.00	8.00	5.00	2.67	2.00	2.33	0.00	3.33	41.00	40.64	36.67	12.67	2.33	2.33	12.67	227.07
Mat-Su Borough	45	M	Big Lake Elementary School Water System Replacement Ph 2	27.00	29.59	0.00	25.00	0.00	2.35	0.00	0.00	0.00	10.00	5.00	2.67	2.00	2.33	0.00	3.00	0.00	11.95	2.67	17.00	1.00	0.00	2.33	143.89

Alaska Department of Education and Early Development
FY2021 Capital Improvement Projects
School Construction and Major Maintenance by Districts

Total Points - Formula-Driven and Evaluative
Initial List

School District	Nov 5 Rank	MM/ SC	Project Name	School Dist Rank	Weight Avg Age	Prev. 14.11 Fund	Plan and Design	Prior Design Use	Avg Expend Maint	Un-Housed Today	Un-Housed 7 Years	Type of Space	Cond Survey	O&M Rpts	Maint Mgt	Energy Mgt	Cusd Pgm	Maint Train	Capital Plan	Emer-gency	Life/Safety and Code Conditions	Exist-ing Space	Cost Esti-mate	Proj vs Oper Cost	Alter nat-ives	Options	Total Project Points
Mat-Su Borough	91	M	Butte and Snowshoe Elementary Schools Water System Replacement	24.00	29.13	0.00	10.00	0.00	2.35	0.00	0.00	0.00	0.00	5.00	2.67	2.00	2.33	0.00	3.00	0.00	4.00	2.67	14.67	1.00	0.00	2.33	105.14
Mat-Su Borough	92	M	Talkeetna Elementary School Roof Replacement	21.00	21.20	0.00	10.00	0.00	2.35	0.00	0.00	0.00	8.00	5.00	2.67	2.00	2.33	0.00	3.00	0.00	6.00	3.33	14.00	2.00	0.00	1.67	104.55
Mat-Su Borough	93	M	Colony and Wasilla Middle Schools Roof Replacement	18.00	20.90	0.00	10.00	0.00	2.35	0.00	0.00	0.00	8.00	5.00	2.67	2.00	2.33	0.00	3.00	0.00	6.00	1.67	13.67	2.00	0.00	1.67	99.25
Mat-Su Borough	95	M	Windows and Lighting Upgrades, 3 Sites	15.00	30.00	0.00	0.00	0.00	2.35	0.00	0.00	0.00	0.00	5.00	2.67	2.00	2.33	0.00	3.00	0.00	13.50	0.00	10.67	3.00	0.00	2.00	91.52
Nenana City	14	M	Nenana K-12 School Flooring and Asbestos Abatement	30.00	30.00	0.00	25.00	0.00	2.97	0.00	0.00	0.00	5.00	30.00	3.67	3.00	2.67	2.00	3.67	0.00	7.00	3.00	24.67	2.33	0.00	6.67	181.64
Nenana City	29	M	Nenana K-12 School Boiler Replacement	27.00	30.00	0.00	20.00	0.00	2.97	0.00	0.00	0.00	3.00	30.00	3.67	3.00	2.67	2.00	3.67	0.00	4.00	0.00	20.00	3.00	0.00	6.33	161.30
Nenana City	61	M	Nenana K-12 School Fire Suppression System Replacement	24.00	26.27	0.00	0.00	0.00	2.97	0.00	0.00	0.00	0.00	30.00	3.67	3.00	2.67	2.00	3.67	10.00	2.00	0.00	14.00	1.67	0.00	6.33	132.24
Nome City	31	M	Anvil City Charter School Restroom Renovations	30.00	30.00	0.00	25.00	0.00	1.58	0.00	0.00	0.00	0.00	20.00	2.00	2.33	2.00	1.33	3.00	0.00	0.62	4.33	26.00	2.00	0.00	5.67	155.86
Nome City	35	M	Nome Schools DDC Control Upgrades	24.00	30.00	0.00	20.00	0.00	1.58	0.00	0.00	0.00	0.00	20.00	2.00	2.33	2.00	1.33	3.00	0.00	3.00	1.33	18.00	18.67	0.00	4.00	151.24
Nome City	54	M	Nome Beltz Jr/Sr High School Generator Replacement	21.00	30.00	0.00	10.00	0.00	1.58	0.00	0.00	0.00	0.00	20.00	2.00	2.33	2.00	1.33	3.00	0.00	27.00	0.00	14.33	0.00	0.00	5.00	139.58
Nome City	74	M	Nome Elementary School Fire Alarm Replacement	27.00	16.00	0.00	20.00	0.00	1.58	0.00	0.00	0.00	0.00	20.00	2.00	2.33	2.00	1.33	3.00	6.67	6.00	0.67	13.67	0.00	0.00	4.33	126.58
Northwest Arctic Borough	25	M	Buckland K-12 School HVAC Renewal and Upgrades	30.00	8.15	0.00	25.00	0.00	2.93	0.00	0.00	0.00	5.00	30.00	2.67	2.33	3.00	1.67	3.33	0.00	10.00	1.00	23.00	10.33	0.00	9.00	167.41
Pribilof Island	1	M	St. Paul K-12 School Roof Replacement and Structural Repairs	30.00	30.00	0.00	20.00	0.00	2.67	0.00	0.00	0.00	10.00	30.00	3.00	3.33	2.00	2.67	3.00	13.00	42.00	6.00	18.67	2.00	0.00	13.33	231.67
Saint Marys City	69	M	St. Mary's Campus Renewal and Repairs	30.00	30.00	0.00	10.00	0.00	1.29	0.00	0.00	0.00	0.00	25.00	3.00	2.33	3.67	3.00	3.33	0.00	0.00	0.33	12.33	1.00	0.00	3.67	128.96
Sitka Borough	49	M	Keet Gooshi Heen Elementary Covered PE Structure Renovation	30.00	12.50	0.00	10.00	0.00	1.31	0.00	0.00	0.00	10.00	25.00	3.67	2.67	2.67	3.33	2.67	0.00	7.35	1.00	17.00	2.67	0.00	10.33	142.16
Southeast Island	1	C	Hollis K-12 School Replacement	27.00	22.51	30.00	10.00	0.00	3.01	30.68	30.00	22.93	10.00	5.00	2.00	2.67	2.00	2.33	2.67	10.00	15.27	21.33	15.33	4.00	3.00	9.00	280.72
Southeast Island	79	M	Thorne Bay K-12 School Fire Suppression System	30.00	11.42	0.00	10.00	0.00	3.01	0.00	0.00	0.00	8.00	5.00	2.00	2.67	2.00	2.33	2.67	9.33	5.00	0.00	14.33	4.00	0.00	9.00	120.77
Southeast Island	86	M	Thorne Bay K-12 School Flooring Replacement	15.00	11.42	0.00	25.00	0.00	3.01	0.00	0.00	0.00	0.00	5.00	2.00	2.67	2.00	2.33	2.67	0.00	4.00	0.33	28.67	2.33	0.00	7.67	114.10
Southeast Island	90	M	Thorne Bay K-12 School Mechanical Control Upgrades	24.00	11.42	0.00	10.00	0.00	3.01	0.00	0.00	0.00	8.00	5.00	2.00	2.67	2.00	2.33	2.67	1.67	8.00	0.00	14.67	6.67	0.00	5.33	109.43
Southeast Island	94	M	Port Alexander K-12 School Domestic Water Pipe Replacement	12.00	22.88	0.00	0.00	0.00	3.01	0.00	0.00	0.00	3.00	5.00	2.00	2.67	2.00	2.33	2.67	5.33	6.98	0.00	13.00	2.67	0.00	6.00	91.54
Southeast Island	100	M	Thorne Bay K-12 School Underground Storage Tank Replacement	21.00	11.42	0.00	10.00	0.00	3.01	0.00	0.00	0.00	0.00	5.00	2.00	2.67	2.00	2.33	2.67	0.00	2.00	0.00	14.67	0.00	0.00	4.67	83.43
Southeast Island	101	M	Port Alexander & Thorne Bay K-12 Schools Roof Replacement	18.00	11.66	0.00	0.00	0.00	3.01	0.00	0.00	0.00	0.00	5.00	2.00	2.67	2.00	2.33	2.67	0.00	6.00	0.67	13.67	2.00	0.00	5.33	77.00
Southwest Region	52	M	William "Sonny" Nelson K-12 School Renovation, Ekwok	27.00	28.25	0.00	0.00	0.00	1.87	0.00	0.00	0.00	0.00	25.00	3.00	2.33	2.67	2.67	2.00	0.00	23.21	0.00	11.33	5.67	0.00	5.67	140.66
Southwest Region	67	M	Twin Hills K-12 School Renovation	30.00	30.00	0.00	0.00	0.00	1.87	0.00	0.00	0.00	0.00	25.00	3.00	2.33	2.67	2.67	2.00	0.00	5.78	0.00	11.67	7.33	0.00	5.00	129.32
Southwest Region	71	M	Aleknagik K-12 School Renovation	24.00	23.00	0.00	0.00	0.00	1.87	0.00	0.00	0.00	0.00	25.00	3.00	2.33	2.67	2.67	2.00	0.00	18.18	0.00	12.33	5.33	0.00	5.33	127.71

Alaska Department of Education and Early Development
FY2021 Capital Improvement Projects
School Construction and Major Maintenance by Districts

Total Points - Formula-Driven and Evaluative
Initial List

School District	Nov 5 Rank	MM/ SC	Project Name	School Dist Rank	Weight Avg Age	Prev. 14.11 Fund	Plan and Design	Prior Design Use	Avg Expend Maint	Un-Housed Today	Un-Housed 7 Years	Type of Space	Cond Survey	O&M Rpts	Maint Mgt	Energy Mgt	Cusd Pgm	Maint Train	Capital Plan	Emer-gency	Life/Safety and Code Conditions	Exist-ing Space	Cost Esti-mate	Proj vs Oper Cost	Alter nat-ives	Options	Total Project Points
Valdez City	34	M	Valdez High and Hermon Hutchens Elementary Schools Domestic Water Piping Replacement	30.00	30.00	0.00	10.00	0.00	1.62	0.00	0.00	0.00	10.00	20.00	2.67	3.00	3.00	3.00	3.00	5.00	10.00	0.00	14.33	2.33	0.00	6.00	153.96
Valdez City	56	M	Valdez High School Window Replacement	24.00	30.00	0.00	10.00	0.00	1.62	0.00	0.00	0.00	3.00	20.00	2.67	3.00	3.00	3.00	3.00	0.00	12.00	0.33	15.33	3.00	0.00	5.33	139.29
Valdez City	68	M	Valdez High and Hermon Hutchens Elementary Schools Generator Replacement	27.00	29.99	0.00	10.00	0.00	1.62	0.00	0.00	0.00	5.00	20.00	2.67	3.00	3.00	3.00	3.00	0.00	4.00	0.00	11.67	1.00	0.00	4.33	129.28
Yukon-Koyukuk	3	C	Minto K-12 School Renovation/Addition	30.00	20.01	0.00	20.00	0.00	3.09	0.00	2.01	24.75	10.00	25.00	3.67	3.00	3.33	3.67	3.00	3.67	27.48	15.33	16.00	5.00	3.67	12.67	235.34
Yukon-Koyukuk	33	M	Ella B. Vernetti K-12 School Boiler Replacement, Koyukuk	27.00	17.78	0.00	20.00	0.00	3.09	0.00	0.00	0.00	10.00	25.00	3.67	3.00	3.33	3.67	3.00	0.00	4.00	0.00	16.33	3.67	0.00	10.67	154.20
Yupiit	14	C	Playground Construction, 3 Schools	15.00	1.69	0.00	10.00	0.00	1.94	0.00	0.00	0.00	0.00	25.00	2.33	2.33	2.00	2.00	2.33	0.00	12.00	3.33	11.33	0.00	1.67	6.33	99.30
Yupiit	30	M	Tuluksak K-12 School Generator Refurbishment	30.00	2.50	0.00	25.00	0.00	1.65	0.00	0.00	0.00	0.00	30.00	3.33	2.67	2.00	2.67	2.67	6.33	13.39	0.00	24.00	3.00	0.00	9.67	158.87
Yupiit	51	M	Tuluksak K-12 School Fuel Tank Replacement	18.00	30.00	0.00	10.00	0.00	1.94	0.00	0.00	0.00	8.00	25.00	2.33	2.33	2.00	2.00	2.33	6.00	7.67	0.00	14.00	2.00	0.00	7.67	141.27
Yupiit	60	M	Gym Floor Replacement, 3 Schools	27.00	2.19	0.00	20.00	0.00	1.65	0.00	0.00	0.00	0.00	30.00	3.33	2.67	2.00	2.67	2.67	0.00	4.00	0.00	22.00	0.67	0.00	12.67	133.50
Yupiit	96	M	Mechanical System Improvements, 3 Schools	24.00	2.19	0.00	0.00	0.00	1.65	0.00	0.00	0.00	0.00	30.00	3.33	2.67	2.00	2.67	2.67	0.00	3.00	0.33	11.33	2.33	0.00	3.33	91.50
Yupiit	97	M	Akiachak K-12 School Window Replacement	21.00	2.19	0.00	0.00	0.00	1.65	0.00	0.00	0.00	0.00	30.00	3.33	2.67	2.00	2.67	2.67	0.00	0.00	0.00	12.33	1.33	0.00	8.33	90.17

THE STATE of ALASKA
GOVERNOR MICHAEL J. DUNLEAVY

Department of Education & Early Development
FINANCE & SUPPORT SERVICES
801 West 10th Street, Suite 200
PO Box 110500
Juneau, Alaska 99811-0500
Telephone: 907.465.6906

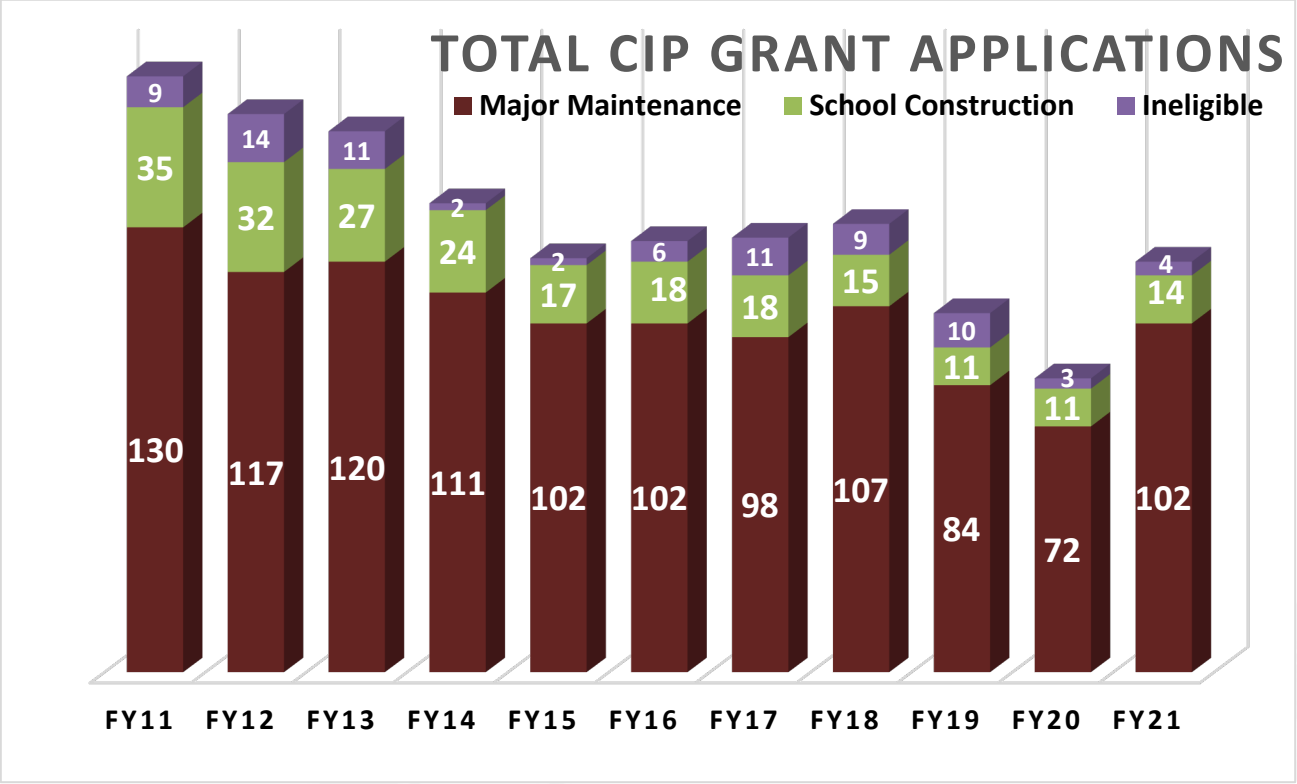
To: Bond Reimbursement & Grant Review Committee
From: School Facilities
Date: December 4, 2019

CIP APPLICATION BRIEFING

General Issues

For the most part, there was a measured improvement in the quality of the CIP applications for FY21 in contrast to recent cycles. Some of those improvements could be attributed to the second day added to the May 2019 CIP workshop. The hands-on, interactive nature of this second day appears to have been helpful, as indicated by the improved quality, as well as specific feedback, from those that attended. A further indicator is that, overall, applications from districts that did not attend the workshop were not as complete and did not score as well as their counterparts.

The recent downward trend in applications saw an encouraging reversal in the FY21 cycle. The graph below shows the department's standard data points for this assessment.



This trend in total applications is also reflected in the number of districts participating. Over the last 25 years, the high mark for that data point was 49 in FY99, while FY20 marked the low point at 27 districts. FY21 reversed the recent low to register 34 of the 53 districts submitting applications. Increased numbers of participating districts and applications could be attributed to a rebound in district capital planning following the significant grant funding of FY18 and FY19—when a total of 44 projects from the CIP priority lists were funded. Additionally, there was an uptick in participation from municipal districts that had been utilizing the bond reimbursement program.

Despite the reversal in participation, we still are experiencing a lack of capital planning on the part of districts. This continues to produce an inaccurate picture of school capital needs statewide. To remedy this, the department has continued to investigate opportunities to create a School Capital Funding Forecast Database. Most recently, we have engaged with the Department of Transportation & Public Facilities to see if a robust forecasting tool for school capital could be created within their new facility management software tool, AssetWorks. If successful, the creation of a data-driven capital funding needs assessment could have implications for the department's current CIP process which, currently, relies heavily on district participation for an understanding a statewide capital project and funding needs.

Rating Issues

During the FY21 rating process, a couple of items were flagged as being worthy of a discussion and possible change. In addition, some legacy issues which remain unattended have been reintroduced.

Evaluative Scoring

Evaluative scoring continues to improve in consistency and transparency. The cornerstone for this improvement is the *Rater's Guidelines* document. This document—which provides bracketed scoring rubrics for seven of the eight categories—was refreshed by the Committee for the FY17 CIP cycle and has continued to receive enhancements annually. The remaining category, currently titled "*District Preventive Maintenance and Facility Management*" in the *Rater's Guidelines*, is also suited to a rubric. The department has proposed an initial matrix, attached, for consideration.

Code Deficiency, Protection of Structure, Life Safety

FY21 was the second year of utilizing the "*Code Deficiency, Protection of Structure, Life Safety*" (LS) matrix. For this rating cycle, an effort was made to only make those changes absolutely necessary (realizing that after a first cycle of use there would be certainly be some necessary revisions). As such, minimal changes to align life expectancies with the department's Renewal and Replacement tool, and to add a few 'missing' conditions were made. For a second year, the matrix has been very helpful in providing both accuracy and transparency in scoring. Administratively in FY21, a significant change was made in this category when the matrix was included as part of the application. The purpose of this change was to allow the applicant to indicate the LS matrix items believed appropriate for the project conditions. The jury is still out on the success of this strategy and the department recommends the committee seek additional feedback from districts. It was not at all uncommon for applicants not to indicate LS items that should have been listed, while also selecting several items that did not match the project's condition. Generally, though, the selections provided a useful starting point for the raters. Having served two full cycles (catching all projects including FY20 reuse), the LS matrix could sustain any necessary level of overhaul for FY22. One area of concern that has arisen is the weighting of points on mixed scope projects. The table below shows the top 20 scores awarded (and reused) in the LS category over the past 10 CIP years.

	FY12	FY13	FY14	FY15	FY16	* FY17	FY18	FY19	** FY20	FY21 (init)
High	23.33	23.33	21.00	20.00	23.33	35.00	30.67	30.67	39.50	50.00
2nd	20.00	20.33	20.67	19.67	21.33	31.33	29.67	29.33	39.41	42.00
3rd	19.00	20.33	20.00	18.00	19.67	30.67	29.33	29.00	29.64	40.64
4th	18.67	19.33	19.33	18.00	18.33	29.33	29.33	27.00	29.63	39.50
5th	18.67	18.67	18.00	17.33	18.00	28.33	29.00	24.33	27.48	37.51
6th	18.33	18.67	17.67	17.00	18.00	28.33	28.33	24.33	26.67	35.85
7th	18.33	18.00	17.33	16.67	17.33	28.33	27.00	22.67	23.21	34.91
8th	18.00	17.67	17.33	16.00	17.33	27.33	26.67	21.67	21.67	33.77
9th	18.00	17.33	16.67	15.33	17.00	27.33	26.67	21.00	21.28	31.91
10th	17.67	17.33	16.67	15.00	15.33	26.67	26.33	21.00	20.67	29.64
11th	17.00	16.33	16.67	15.00	15.00	26.33	26.33	20.67	19.67	29.63
12th	16.33	16.33	16.33	14.33	14.67	26.33	26.33	20.33	19.00	27.67
13th	16.00	16.00	16.00	14.00	14.00	26.33	26.00	20.00	18.18	27.48
14th	16.00	15.67	16.00	14.00	13.67	26.00	25.67	20.00	18.00	27.00
15th	15.67	15.67	15.67	14.00	13.67	25.67	25.33	20.00	17.33	26.67
16th	15.67	14.67	15.67	13.67	13.33	25.67	25.00	19.67	17.33	24.00
17th	15.67	14.67	15.67	13.67	13.33	25.67	24.67	19.67	17.13	23.21
18th	15.00	14.00	15.67	13.33	13.33	25.33	24.33	19.67	16.67	21.59
19th	15.00	14.00	15.67	13.33	13.33	25.00	24.33	19.67	15.58	21.28
20th	14.67	13.67	15.00	13.00	13.00	24.67	24.00	19.33	15.33	20.71
Average of above	17.35	17.10	17.15	15.57	16.15	27.48	26.75	22.50	22.67	31.25

Notes: * Application re-write completed in FY17 with a stated purpose of assigning higher scores to projects, utilizing a broader range in the LS scoring category.
** Introduction of the new LS matrix in FY20.

Though not a detailed correlation with adjustments for project and application variations, the number of high scores increased significantly in the FY21 cycle with one project 'maxing out' the 50 points assigned. One element that appears to be driving this is the current method of weighting scores on projects that mix LS work with non-LS work. First, a tabulation of each applicable LS scoring element is created and totaled. Often this total will rise to over 100 points. Next, the cost to address each LS element is determined and totaled. Then, the total value of the LS work is divided by the total value of all work and a percentage is created. The final points are then determined by multiplying the total LS point by the cost percentage. This weighting strategy seems to work for most projects. However, on some projects with high point-value LS items combined with low-point value items, those high-point value items can be 'floated' by a low-point/high dollar item in the overall weighting percentage—even if that high-value item can be solved with very little cost.

In the sample worksheets, an example of this would be Service HS *Env/Roof_Windows, age >30yrs* (high points/low cost), combined with *Fire_Sprinkler Coverage Gaps* and *HazMat (all) Low Exposure* (both low points/high costs). A similar scenario is found on the Oscarville project with *Structural_Foundation/Floor – PE* and *Mech_Codes: Plumbing.* When this possible

anomaly was noted, an alternative weighting mechanism was explored. The alternative approach calculates a weighted score for each LS item based on the cost to correct the item relative to the cost to correct all items, them sums the weighted scores. For the Service and Oscarville projects, the revised LS points would change from 37.51 to 13.92, and from 48.31 to 20.55 respectively. The third worksheet, Kenai Middle School, is a sort of anti-example from a relatively single-scope project. Scores for that project went from 1.45 to 3.54 points. Worksheets showing calculations for three sample projects are attached (Service High School, Oscarville K-12, and Kenai Middle School); calculations on the worksheets show the current weighting strategy, the alternative weighting mechanism discussed here weighting LS scores to total cost to correct items, as well as an additional alternative for discussion that calculates a weighted score for each LS item relative to the eligible construction cost.

The BRGR Committee has scheduled a work session on January 23, 2020 to review the LS matrix items and scores for revision in the FY2022 CIP application materials. Addressing this possible anomaly in LS weighted scores should probably occur in this work session. What kind of data would the committee like to see for this evaluation?

Another item that has been an issue is in scoring of LS for recovery of funds projects where only a final contract price is given. This does not let the department accurately determine the weighted amount of the LS score in a mixed scope project. The department is left with estimating the percentage of LS to total project cost.

Emergency

Emergency scoring continues to have minor issues. Districts continue to check 'yes' that a project is an emergency and the department often determines that the project does not meet the standards of an emergency. Some of the differences could be in evaluating "potential" of the possibility of failure beyond normal repairs whereas the scoring rubric is written to address current situations.

In FY21, the range of points assigned in this category was between 1.67 and 41.00. Since the *Rater's Guidelines* establishes that scoring in the *Emergency* category begins at five points, scores below that, such as 1.67 or 3.33, indicate that the evaluative raters were not able to establish consensus as to the project's qualifying for the *Emergency* point threshold. This occurred on 7 projects in FY21 (8 in FY20). The struggle to establish a clear precedent for the five-point threshold seems non-material to the process as point values in the 1-3 range can be considered incidental. More significant would be the inability to gain consensus among evaluative raters for the higher point thresholds established in the rubric for serious emergencies. In FY21, 3 projects had an *Emergency* score of 15 or greater. These are shown in the table below. In two of the three cases, individual rater scores varied by several points with a percent variation as high as 27% versus our internal goal of 10%. Though not alarming, this trend should be monitored and the scoring rubric revisited for additional clarity if it increases. No scoring adjustments appear to be needed in this category after the FY21 CIP cycle.

Project Number	Rater 1 Score	Rater 2 Score	Rater 3 Score
21-087	45	40	38
21-068 (reuse)	25	25	25
21-070	25	20	19

Options

Applying a normative test of rater alignment in the Options scoring element indicates that category experienced some challenges in application of the scoring rubric. In this 25-point

scoring category, rater scores differed by 5 or more points on 52% of the projects. [Note: Full alignment (i.e., every rater assigning the same score) is neither practical, nor necessary. A more important 'alignment' is that each rater is giving similar projects, similar scores.] That being said, the high percentage of non-alignment still suggests there may be a need to give some thought in how this element is scored to insure both rater alignment and to insure that the intent of careful evaluation of options being performed prior to deciding how to execute the project is preserved. We also noted some possible variations between the category requirements as expressed in the Application Instructions and those included in the *Rater's Guidelines*.

District Preventive Maintenance and Facility Management

This point category was introduced in the first application version prepared under the BR&GR for FY97. At that time, the element was a single 20 point scoring element. For FY04, as part of a scoring update that increased the weight of maintenance scoring to the total maximum points, the category was increased to 25 points. In FY07, the shift was made to allocate up to five points to each of the maintenance areas defined in statute, again for a total of 25 points. The development of a scoring rubric for the five point scale in each area does not propose any change to the scoring. The purpose of the rubric is to increase clarity in how the department measures the effectiveness of a district's PM&FM program for CIP (see attached).

Formula-Driven Scoring

Formula-driven scoring in the FY21 CIP cycle did not result in any significant issues. As such, this may be the right time to address a couple of legacy concerns including the *Weighted Average Age* and *Average Expenditure for Maintenance* categories. The revisions for the FY20 application regarding the determination of when a condition survey should be required for eligibility to receive planning and design points resulted in continued solid best-practice in the *Planning & Design* scoring element. However, that effective strategy highlighted a possible similar need related to consultant selection. Finally, the three new formula-driven scoring elements, *Use of Prior School Design* or *Use of Building System Design Standard*, and *Energy Consumption Reports* were easy to administer but may have latent issues.

Weighted Average Age

Not proposed for the FY22 cycle, but briefed here as a potential future revision, is the matter of renovated buildings in the weighted average age calculation. As an original or addition gets substantially renovated, the functional age of the building is not necessarily its original construction age. This shows up quite often in component replacement applications where the facility is much older than the component (i.e. flooring, lighting, boilers). One example of this issue is the West High School Roof Replacement (currently at priority 5 on the major maintenance list). The sections of the building being re-roofed were built in 1953 and 1966. This gave the average weighted score the maximum 30 points. However, the last time these areas were re-roofed were in 1987 and 1997. The weighted average, based on component age would be between 6.50 and 16.00. The department needs to do some analysis of this challenge, and if it can be demonstrated to be material, propose a scoring change to the committee. Another possible change, since the LS matrix already includes points based on component and system age, would be to remove the Weighted Average Age from scoring. [Note: this scoring element is not specified in AS 14.11.013(b).]

Condition/Component Survey

This cycle saw many more surveys than in prior years, which is good; however, too many still refer to the component age as "approaching the end of life" without listing the actual age. One item that was revealed by the condition surveys, and the estimate included, is the extent of Christmas treeing is being included in the projects. We are not certain if this was as prevalent in

the past, but it is in many major renovations today and resulted in many cost adjustments of eligible amounts for project budgets.

Planning & Design

In reviewing the tabulation of *Planning & Design* scoring, 17 projects had not selected a consultant the therefore did not qualified for Planning points without one—in the department's judgement. However, another 11 projects which did not have a consultant selected were not restricted from Planning points when the department judged the project as able to be effectively planned without a consultant. The application instructions (Q 6d and Appendix B) provide guidance on this evaluation that indexes the applicable/non-applicable decision at the Invitation to Bid point of the project process only. The recommendation is to align the guidance with the condition survey assessment where a consultant may not be required for a planning phase but may be needed/required at a later design phase.

Use of Prior School Design; Use of Building System Design Standard

This was the first year for these scoring elements. No school construction applications requested evaluation of use of prior design points; eight major maintenance applications requested evaluation of district standards; however, no points were awarded in this element. Submittals for this question were determined not to meet the instruction of providing evidence of being a "published district or municipal facility standard". Per committee discussion during the development of this question, the department was looking for documentation of municipal or school board approval, in addition to the specific standards document. The submittals provided during this application cycle were either just the bid document specifications, an example of the same specifications used in a prior project, or similar.

Average Expenditure for Maintenance

This scoring category is based on the amount of money spent on maintenance as a percentage of the replacement value of facilities. The replacement value is gathered from the insurance certificates that are submitted annually by each district. If the replacement value is understated that would raise the percentage and the score. In fact, two of our largest districts appear to be understating the replacement value. An example is that Lathrop High School in Fairbanks to have a replacement value of $250.00 per square foot. This appears to be slightly low. Other districts have "negotiated" values of ancillary facilities that are used for educational purposes that are far less than the elementary and secondary schools. AS 14.11.011 (b)(2) states in order to be eligible for CIP grants must show:

> evidence that the district has secured and will maintain adequate property loss insurance for the replacement cost of all facilities for which state funds are available under AS 14.11.005 or 14.11.007 or has a program of insurance acceptable to the department

The committee may need to visit this subject and possibly require some trueing of the replacement values or assign a value based on the cost model for the district.

Energy Consumption Reports

This was the first year for this scoring element. Twenty-three districts were evaluated, of those, 12 met the requirements to receive the 5 points. For those that did not, the most common issues were not providing energy data for the full five years – four districts provided only a single year of data, not providing data on all school sites, and providing fuel delivery data instead of consumption data.

Eligibility

Procurement

There continues to be some issues with alternative delivery being performed without prior department approval. This becomes a serious issue for recovery of funds applications. The department has begun a program of pre-CIP projects and reviews to assist districts that look to perform CIP projects and file applications for recovery. At the moment there are eight districts utilizing this program to various degrees at this time. The department's goal is to assist districts to successfully perform projects that avoid problems in procurement that may cause a project to be declared ineligible.

Potential FY2022 Application Changes

The following changes have been identified by the department as potential changes to the FY2022 CIP application and support materials. These will be developed and presented in the spring 2020 committee meeting.

Application Form Changes

Question 4a. LS Matrix

- Conform to any changes made to *Rater's Guidelines*.

Section 7 Cost Estimate

- Add clarification to District Administrative Overhead that may be affected by regulation changes.
- Possibly override size adjustment for projects that would not be expected to require size adjustments (i.e. roofs, flooring).

Application Instruction Changes

Adjustments will be made to correspond to any Application Changes.

Section 6 Planning & Design

- Amend Q.6d and Appendix B to allow for consultant selection after planning stage, if not needed for planning/concept but is needed prior to bid documents.

Eligibility Form Changes

- No changes.

Rater's Guideline Changes

- Revise Code Deficiency / Protection of Structure / Life Safety (Q.4a) matrix for additional project conditions.
  - Trim (wall, roof edges and windows) possibly remove as it is part of roof, windows.
  - Possibly address elevator issues or consider as ADA.
- Revise Sec. 9 Preventive Maintenance rating instructions into a matrix (see proposed matrix attached).

Rating Form Changes

No changes.

Attachment – Project LS Mixed Scope Worksheet Samples

Below sample worksheets compare different methods of weighted scoring for LS matrix conditions.

FY-2021 Supplemental Evaluative Rating Form
Code Deficiency/Protection of Structure/Life Safety

District: Anchorage
Project: Service High School Health and Safety Improvements
CIP #: 21-016

Code Deficiency / Protection of Structure / Life Safety Conditions	Pts	Weight Pts LS Cost	Weight Pts Const Cost	Cost Estimate	Notes
SAMPLE FOR COMPARISON PURPOSES ONLY					
Env/Roof_Windows, age >30yrs	12.00	0.44	0.27	$61,686	From estimate
Env/Roof_Doors, age >20yr	3.00	0.17	0.10	$93,850	specified doors
Arch_ADA - 2 issues	2.00	0.00	0.00	$0	Included with other areas
Mech_Mechanical Systems, WO >5/yr2	21.00	7.86	4.83	$635,161	
Electric_Electrical, age >40yr	15.00	4.43	2.73	$501,851	
Fire_Sprinkler Coverage Gaps	5.00	0.77	0.47	$260,818	
HazMat_HazMat (all) Low Exposures	3.00	0.26	0.16	$144,378	
Total Raw Points	61	13.92	8.56	$1,697,744	Estimated cost of LS/Code items
DEED Eligible Construction Cost				$2,761,130	From Table 7.2/ Cost Adjustment Worksheet/Estimate
Total Weighted Adjustment from Total Raw Points	61.49%	22.81%	14.03%		
Total Weighted Points	37.51	13.92	8.56		

FY-2021 Supplemental Evaluative Rating Form
Code Deficiency/Protection of Structure/Life Safety

District: Lower Kuskokwim
Project: Qugvuun Memorial School Renovation, Oscarville
CIP #: 21-076

Code Deficiency / Protection of Structure / Life Safety Conditions	Pts	Weight Pts LS Cost	Weight Pts Const Cost	Cost Estimate	Notes
SAMPLE FOR COMPARISON PURPOSES ONLY					
Site_Walking Surfaces	4	0.05	0.03	$20,042	20% of boardwalks/decks, line C1
Structural_Foundation/Floor - PE	15	0.17	0.08	$17,158	Line A4, beam
Env/Roof_Siding Material, age >25yr	12	0.65	0.30	$80,126	Line A3, siding
Arch_ADA - 4 issues	4	0.33	0.15	$122,243	signage, expand bathroom(1)
Arch_Floor Finishes >15yr	4	0.17	0.08	$62,742	Floor and base
Mech_Narrative, System age >30yr	4	0.26	0.12	$95,662	Non-ventilation, non-sprinkler work
Mech_Codes: Plumbing + PE	15	0.01	0.00	$837	Tempering valve only
Electric_Narrative, Lighting age >25yr	2	0.05	0.02	$38,360	
Fire_Narrative, Fire Alarm age >15yr	2	0.00	0.00	$1,932	alarm panel w/adders
Fire_Sprinkler Non-op	30	17.73	8.23	$875,506	
Mech_Codes: Ventilation	12	1.35	0.63	$166,979	
Total Raw Points	104	20.55	9.55	$1,481,586	Estimated cost of LS/Code items
DEED Eligible Construction Cost				$3,189,486	From Table 7.2/ Cost Adjustment Worksheet/Estimate
Total Weighted Adjustment from Total Raw Points	46.45%	19.76%	9.18%		
Total Weighted Points	48.31	20.55	9.55		

FY-2021 Supplemental Evaluative Rating Form
Code Deficiency/Protection of Structure/Life Safety

District: Kenai Peninsula
Project: Kenai Middle School Security Remodel
CIP #: 21-053

Code Deficiency / Protection of Structure / Life Safety Conditions	Pts	Weight Pts LS Cost	Weight Pts Const Cost	Cost Estimate	Notes
SAMPLE FOR COMPARISON PURPOSES ONLY					
Arch_Wall Finishes age >25yr	3.00	1.38	0.29	$50,560	25% of line 11.61
Arch_Dloor Finishes >15yr	4.00	2.16	0.45	$59,148	
Total Raw Points	7	3.54	0.73	$109,708	Estimated cost of LS/Code items
DEED Eligible Construction Cost				$528,821	From Table 7.2/Cost Adjustment Worksheet/Estimate
Total Weighted Adjustment from Total Raw Points	20.75%	50.56%	10.49%		
Total Weighted Points	1.45	3.54	0.73		

Attachment - District Preventive Maintenance and Facility Management Matrix

Below is a proposed draft for discussion on the development of a matrix to incorporate into the *Guidelines for Raters of the CIP Application*. For ease of reference, all portions of the existing application and support materials have compiled relative to each question.

Sec. 9 District preventive maintenance and facility management (60 points possible)

Application

Ensure that documents related to the district's maintenance and facility management program have been provided with district CIP submittals. Include management reports, renewal and replacement schedules, work orders, energy reports, training schedules, custodial activities, and any other documentation that will enhance the requirements listed in the instructions. Include the following documents:

Instructions

AS 14.11.011(b)(1) and 4 AAC 31.011(b)(2) require each school district to include with its application submittals a description of its preventive maintenance program, as defined by AS 14.11.011(b)(4), AS 14.14.090(10), and 4 AAC 31.013. Refer to Appendix E for details.

The scoring criteria for this area reflect efforts beyond just preventive maintenance. For each element of a qualifying plan outlined in 4 AAC 31.013, documents, including reports, narratives, and schedules, have been identified for eight separate evaluations. These documents will establish the extent to which districts have moved beyond the minimum eligibility criteria and have tools in place for the active management of all aspects of their facility management. The documents necessary for each evaluation are listed below. They are grouped according to the five areas of effort established in statute and are annotated as to the type of evaluation (i.e., evaluative or formula-driven). Refer to the Guidelines for Raters of the CIP Application for additional information on scoring.

Up to 60 points possible for a clear and complete reporting of the district's maintenance program.

Only two sets, one of which may be an electronic copy, should be provided by the district, regardless of the number of submitted applications.

Rater's Guidelines

(Application Questions 9a, 9e-9h; Points possible: 25 evaluative)

Maintenance Management

Application

9a. Maintenance Management Narrative (Up to 5 Evaluative Points)

Instructions

9a. Maintenance management narrative (Evaluative) (up to 5 points available)

Provide a narrative description of the effectiveness of your work order based maintenance management system.

How *effective* is the district's work order-based maintenance management system? How does the district assess the program's effectiveness? Describe the formal system in place that tracks timing and costs as stated in regulation and attach documentation (sample work orders, etc.). Discuss the quality of the program as it is reflected in the submitted formula-driven reports for 9b (i.e., diversity in work types, hours available is accurate, there is a high percentage of reported hours).

Rater's Guidelines

Maintenance Management Narrative

(Application Question 9a; Points possible: 5)

- Does the described program address preventive maintenance as well as routine?
- How well does the program work for each individual school?
- Does the program address all building components? Mechanical, electrical, structural, architectural, exterior/civil?
- Is there evidence supplied which demonstrates that the program is effective?
- Who participates in the program and how does it function?

NEW DRAFT Scoring Criteria	Point Range
Work orders are component based (with component ID) and include component-specific checklist of inspections, maintenance and includes method of reporting results into component records for future evaluation, including costs for component. PM work order directions include when minor repairs are made or when corrective work orders are generated. Work orders change type to a deferred status for summer work or into a future CIP project. Component records includes date of installation and scheduled retirement. Includes examples of all scenarios.	5 points
Narrative fully describes the MM program and all of the following: work orders for PM, repairs, and minor renovations; how work orders are initiated and by whom. Details the process to conclusion including changing type for future CIP. Sample work orders showing PM, repairs, minor work and cost of work orders. Additionally, work orders and records are component-based and includes component ID and can recall work orders by component.	4 points
Narrative fully describes the MM program and all of the following: work orders for PM, repairs, and minor renovations; how work orders are initiated and by whom. Details the process to conclusion including changing type for future CIP. Sample work orders showing PM, repairs, minor work and cost of work orders.	3 points
Minimal narrative that partially describes the MM program but not all of the following; work orders for PM, repairs and minor renovations; how work orders are initiated and by whom. The process to conclusion including changing type for future CIP. Sample work orders minimally showing PM, repairs, minor work, and cost of work orders.	2 points
Minimal narrative that partially describes the MM program but not all of the following; work orders for PM, repairs and minor renovations; how work orders are initiated and by whom. The process to conclusion including changing type for future CIP. No sample work orders showing PM, repairs, minor work, and cost of work orders.	1 point
No narrative or an abbreviated narrative that provides no information of how the maintenance management program works	0 points

Energy Management

Application

9e. Energy Management Narrative (Up to 5 Evaluative Points)

Instructions

9e. Energy management narrative (Evaluative) (5 points available)

Provide a narrative description of the district's energy management program and energy reduction plan.

Address how the district is engaged in reducing energy consumption in its facilities. Energy management should address energy utilization with the goal of reducing consumption. This objective can be achieved through a number of methods: some related to the building's systems (including regular evaluation of need for commissioning an existing building), some related to the way the facilities are being used. The results of the energy management program should also be discussed.

Rater's Guidelines

Energy Management Narrative

(Application Question 9e; Points possible: 5)

- Is the district engaged in reducing energy consumption in its facilities?
- Is a comprehensive set of methods being used?
- Is the program districtwide in scope?
- Is the program achieving results?
- Is there a method for reviewing and monitoring energy usage?
- Is there a method for evaluating existing facilities' need for commissioning?

NEW DRAFT Scoring Criteria	Point Range
Narrative describes energy management that tracks energy usage by facility and calculates EUI by facility over the prior five years. Further shows how this is used to prioritize energy efficiency projects. Narrative provides discussion of recent energy projects and shows how much energy usage is avoided; energy records prove savings. As supported by narrative, district utilizes CMMS to provide power monitoring and sub-monitoring with histories and alarms that notify when usage is outside of scheduled.	5 points
Narrative provides complete description of program, including description and examples of how EUI is used to plan energy projects. Application includes the complete set of energy records was provided for Q.9x. District energy management program has a calculated EUI for all facilities for prior five years.	4 points
Narrative provides complete description of program. Application includes the complete set of energy records required for Q.9x.	3 points
Narrative has some useful description of program but is not complete. Application includes the complete set of energy records required for Q.9x.	2 points
Narrative with some useful description of program but is not complete; complete set of energy records not provided. OR No narrative, but complete set of energy records was provided.	1 point
No narrative or an abbreviated narrative with no useful description of program. No energy records	0 points

Custodial Program

Application

9g. Custodial Narrative (Up to 5 Evaluative Points)

Instructions

Provide a narrative description of the district's custodial program and evidence to show it was developed using data related to inventories and frequency of care.

Minimal custodial programs do not have to be quantity-based nor time-based relative to the level of care. Quality custodial programs take both these factors into account and customize a custodial plan for a facility on the known quantities and industry standards for a given activity (e.g., vacuuming carpet, dusting horizontal surfaces, etc.). Describe how the scope of custodial services is directly related to the type of surfaces and fixtures to be cleaned, the quantity of those items, and the frequency of the care for each. Describe how the district has customized its program to deal with different surfaces and care needs on a site-by-site basis.

Rater's Guidelines

Custodial Narrative

(Application Question 9f; Points possible: 5)

- Is the district's custodial program complete?
- Is custodial program based on quantities from building inventories and frequency of care based on industry practice?
- Has the district customized its program to be specific to each facility?
- Is the program districtwide in scope?
- Is the program achieving results?
- (NEW) Is the written custodial plan(s) attached?

NEW DRAFT Scoring Criteria	Point Range
Narrative with full description of program. Written custodial plans that are specific to each facility and provides for tasks divided per individual custodial position. No less than two facility examples, unless district operates only one facility. The plan includes a designated person or position tasked with back check and inspection of quality of custodial performance no less than once a month (preferably not someone from the facility) and records findings for future training and quality assurance. Application includes sample copies of inspection reports including photographs.	5 points
Narrative with full description of program. Written custodial plans that are specific to each facility and provides for tasks divided per individual custodial position. No less than two facility examples, unless district operates only one facility.	4 points
Narrative with full description of program. Written custodial plans that are specific to each facility. No less than two facility examples, unless district operates only one facility.	3 points
Narrative with some useful description of program but is not complete. Written custodial plan that is general in nature and not site specific.	2 points
Narrative with some useful description of program but is not complete. OR Written custodial plan that is general in nature and not site specific.	1 point
No narrative or abbreviated narrative with no useful description of program. No written custodial plan.	0 points

Maintenance Training

Application

9h. Maintenance Training Narrative (Up to 5 Evaluative Points)

Instructions

9h. Maintenance training narrative (Evaluative) (5 points available)

Provide a narrative description of the district's training program including, but not limited to: identification of training needs, training methods, and numbers of staff receiving building-system-

specific training in the past 12 months. In addition to the narrative description, provide a copy of the district's training log for the past year. The training log should include the name of the person trained, the training received, and the date training was received. Districts utilizing a computerized maintenance management system can track training and job shadowing activities through work orders and labor hours.

Training may include on-the-job training of junior personnel by qualified technicians on staff. For systems or components that are scheduled for replacement, or have been replaced as part of a capital project, manufacturer or vendor training could be made available to the maintenance staff to attain these goals and objectives. In-service training as well as on-line training could be provided for the entire staff. Safety and equipment specific videos are also an inexpensive training resource.

Rater's Guidelines

Maintenance Training Narrative

(Application Question 9g; Points possible: 5)

- Does the program address training and on-going education of the maintenance staff?
- Are maintenance personnel being trained in specific building systems?
- Are training schedules attached?
- How is Training Recorded?
- How is effectiveness measured?

NEW DRAFT Scoring Criteria	Point Range
Narrative discusses entire training plan that includes: annual training planning by individual, overall training plan that includes distinction between HR/OSHA training from maintenance/custodial, recording and planning of training is logged. Training logs show past and future individual training that shows compliance by individuals and separates custodial/maintenance from HR/OSHA training.	5 points
Narrative provides complete description of maintenance training program completely. Narrative shows the district plans training in advance per individual for their training needs. Training logs show primary focus on maintenance and custodial training, reports separately from HR/OSHA training.	4 points
Narrative describes the program completely. Training logs show primary focus on maintenance and custodial training, reports separately from HR/OSHA training.	3 points
Narrative with some useful description of program but not complete. Training logs with minimal maintenance or custodial training, primarily HR/OSHA training. *Training Logs with only HR/OSHA training can never exceed 1 point.	2 points
Narrative with some useful description of program but not complete. OR Training logs with no actual maintenance or custodial training. Only HR/OSHA training. *Training Logs with only HR/OSHA training can never exceed 1 point.	1 point
No narrative or abbreviated narrative with no useful description of program. No training logs	0 points

Capital Planning (Renewal & Replacement)

Application

9i. Capital Planning Narrative (Up to 5 Evaluative Points)

Instructions

9i. Capital planning narrative (Evaluative) (5 points available)

Provide a narrative giving evidence the district has a process for developing a long-range plan for capital renewal.

Discuss the district's process for identifying capital renewal needs. Renewal and replacement schedules can form the basis for this work, but building user input should also be considered. It is important to move the capital planning process from general data on renewal schedules to actual assessments of conditions on site. This helps to validate the process and allows the district to create capital projects that reflect actual needs. A final step would be to review the systems needing replacement and to organize the work into logical projects (e.g., if a fire alarm and roof are confirmed to be in need of renewal, they may need to be placed in separate projects versus renewal of a fire alarm and lighting which could be effectively grouped in a single project).

Rater's Guidelines

Capital Planning Narrative

(Application Question 9h; Points possible: 5)

- Does the district have a process for identifying capital renewal needs?
- Are component/subsystem replacement cycles identified and used?
- Does the system involve building occupants and users?
- Are renewal schedules comprehensive and vetted for credibility?
- Are systems up for renewal grouped into logical capital projects?
- Does review of projects on six-year plan show evidence of use of capital planning process, including renewal and replacement scheduled.

NEW DRAFT Scoring Criteria	Point Range
Narrative completely discusses the process for selecting CIP projects, including: 1) component tracking of work orders and costing; 2) work orders coded to future projects and tracked; 3) annual review of work orders coded to projects and includes a review process to confirm need; 4) project review includes listing as in-house and CIP. R&R/FCI documents provided for all required facilities, are component based, and components of systems are used in planning for capital projects.	5 points
Narrative completely describes the program and R&R/FCI documents provided for all required facilities, are component based, and components of systems are used in planning for capital projects.	4 points
Narrative completely describes the program and R&R/FCI documents provided for all required facilities.	3 points
Narrative with some useful description of program but is not complete. Provided R&R/FCI documents for all required facilities	2 points
Narrative with some useful description of program but is not complete; R&R/FCI documents not provided for all required facilities. OR No narrative, but provided R&R/FCI documents for all required facilities.	1 point
No narrative or abbreviated narrative with no useful description of program. Lacks R&R/FCI documents for all required facilities.	0 points

State of Alaska

Department of Education & Early Development
Bond Reimbursement & Grant Review Committee

By: Tim Mearig
Facilities Manager

Phone: 465-6906

For: Bond Reimbursement & Grant Review Committee

Date: November 19, 2019

File: G:\SF Facilities\BR_GRCom\Papers\Const Standards\2019-12-04 BP Update on HB212_AS14.11.017.docx

Subject: HB211 & AS 14.11.017 Update

B R I E F I N G P A P E R

Background

The Bond Reimbursement and Grant Review Committee, through the department, scored a significant victory in 2018 when the 30th Legislature passed HB 212. This bill included provisions capturing the essence of six months of hard work by the committee to provide a report to the legislature outlining 10 criteria for achieving cost-effective school construction in Alaska. A fiscal note to the bill resulted in $323,000 in FY19 funding for the department to implement the bill's provisions. This paper is to provide a status of the implementation effort.

Discussion

The bill, now statute, addresses the following elements related to school capital projects:

Element/Task	Alaska Statute Citation
1. Encourage use of previously approved school plans and building systems if the use will result in cost savings.	14.11.013(a)(4)
2. Assign priority points when use of previously approved school plans and building systems result in a cost savings.	14.11.013(b)(7)
3. Require projects to include all or part of regionally based model school construction standards or use previously approved design plans and building systems when there would be a capital or operational cost savings.	14.11.013(c)(4)
4. Develop and periodically update regionally based model school construction standards that achieve efficient and cost-effective school construction by: a. Describing acceptable building systems and their anticipated costs; b. Establishing school design ratios to achieve efficient designs.	14.11.017(d)
5. Consider major maintenance projects when making grants from the REAA Fund.	14.11.030(a)

Status

The department, through the committee, has addressed these key elements as follows:

Element 1
This provision requires the department—with regard to grants requested under AS 14.11.011—to encourage use of previously approved school plans and building systems. Encouragement in this area will come primarily through development and delivery of clear standards and definitions. Development will come through the Committee's work on the CIP application and through any policy or definitions the Committee may recommend. The primary mechanism for delivery is the annual CIP workshop. There may be other ad hoc opportunities but the workshop is our main platform for encouraging quality in all aspects of the applications.

Element 2
In the FY21 CIP application, the Committee approved the inclusion of two new scoring elements related to prior use of school plans and standard building systems. The results of this are discussed in the department's CIP Briefing Paper.

Element 3
In the FY21 CIP cycle, no specific actions were taken to modify or limit a project scope or otherwise require a project to incorporate a model school standard or use a previously approved school design or building system. With regard to a model school standard, this is due to those still being in development.

Element 4
The development of regionally-based model school construction standards has not occurred. We are 18 months past the effective date of the bill and resulting statutes and the current projection is to have this approved through the Committee by December 2020. (Regulation work that might be needed would have to be subsequent to that date.) Two subcommittees of the BR&GR are leading this work. From January to June 2019, research and supporting work were being accomplished by consultants in both the "acceptable building systems and costs" and "school design ratios for efficiency" areas. Work from June to December has been challenging. See the Model School Subcommittee and Design Ratio Subcommittee reports for more information.

Element 5
In FY19, immediately following the bill's effective date, the department evaluated eligible projects from the Major Maintenance Grant Fund list for possible funding by the REAA Fund. That evaluation involved combining all REAA Fund-eligible projects from both the School Construction and MM priority lists and ranking them by total points. After the combined ranking, funding by priority under 4 AAC 31.023 resulted in the ability to award a grant to one major maintenance project without jeopardizing funding for higher priority school construction projects in subsequent fiscal years. The mechanism for statutory compliance is in place.

Summary

Element 4 remains incomplete. Substantial background work has been done but no actionable standards have been brought to the Committee for implementation by the department.

Element/Task	Alaska Statute Citation
4. Develop and periodically update regionally based model school construction standards that achieve efficient and cost-effective school construction by: a. Describing acceptable building systems and their anticipated costs; b. Establishing school design ratios to achieve efficient designs.	14.11.017(d)

Options

This is an informational status report, no options were prepared.

Recommendation(s)

1. Continue working on clear standards and effective implementation for the appropriate use of prior approved school design plans and building systems.
2. Continue to set goals and expectations for Committee, subcommittees, and department efforts to develop the required regionally-based model school construction standards.

State of Alaska **Department of Education & Early Development**
Bond Reimbursement & Grant Review Committee

By: Wayne Marquis
Building Management Specialist

Phone: 465-6928

For: Bond Reimbursement & Grant Review Committee

Date: November 18, 2019

File: G:\SF Facilities\BR_GRCom\Papers\PM\Retro-Cx Implementation BP.docx

Subject: Retro-commissioning Regulation Implementation

B R I E F I N G P A P E R

Background

Regulation Changes

On February 4, 2019 the State Board of Education and Early Development approved regulations proposed by the department relating to the commissioning of school facilities; these were signed by the lieutenant governor and took effect November 29, 2019. The regulation amends 4 AAC 31.013(a) to add the following:

> (2) an energy management plan that includes . . .
> **(B) regular evaluation of the effectiveness of and need for commissioning existing buildings.**

It is important to note that 4 AAC 31.013(a) is a section of regulation that establishes eligibility criteria, in five areas of maintenance and facility management, for state-aid used for school capital projects. Failure to meet established criteria in any of these five areas precludes a school district from requesting funding through the department's annual Capital Improvement Project (CIP) process. This regulation change impacts the minimum criteria for a district's energy management plan.

As a comprehensive component of the district's energy management plan, an area of consideration for development of any future instructions will be to tie-in the energy data collection listed in 4 AAC 31.013(a)(2)(A):

> The recording of energy consumption for all utilities on a monthly basis for each building; for facilities constructed before December 15, 2004, a district may record energy consumption for utilities on a monthly basis when multiple buildings are served by one utility plant.

History has shown that some of our district officials do not always understand the purpose behind the regulatory collection of energy consumption data. The new regulation provides an additional context in which district officials can make informed managerial decisions regarding energy use and efficiency to save money on the long haul.

In industry terminology, the commissioning of existing buildings is known as "retro-commissioning" (see definitions below). A qualifying energy management plan must now include a regular evaluation of the need for retro-commissioning of a district's existing

buildings—potentially every one of them. The BRGR Commissioning Subcommittee held discussions about the size of existing buildings where commissioning will be required for education-related projects funded with state aid; the subcommittee suggested a minimal threshold of more than 10,000 SF of renovation or more than 5,000 SF of new construction. This commissioning standard and facility minimums were adopted as 4 AAC 31.080(i) by the same regulation package. However, as of yet, there have been little systematic discussions on how to tie in the effectiveness and the need for retro-commissioning of existing buildings to an energy management plan. To assist districts in incorporating this new requirement, clear guidelines and helpful tools will need to be developed.

2012 Energy Audits

The need for the commissioning of existing buildings was initiated, in part, by legislative interest. Following a 2012 energy survey sponsored by the Alaska Housing Finance Corporation (AHFC), 190 of our public schools received energy audits. The survey indicated that some of the schools likely had systems operating at sub-par levels, providing marginal performance. The survey, which has been equally praised and criticized, created at a data set that seemed to pit urban and rural schools against each other in terms of facility care and energy efficiency.

Though the initial comparisons among the audited school focused on cost per student, additional analysis related to variations in climate, energy costs, energy consumption, building age, and student density. In each of these instances, however, the focus continued to be on a per student measurement. This made correlation and causation very difficult to pin down. Student density—the number of students per square foot of building—became a leading indicator. Unfortunately this continued the urban/rural divide.

Only when the survey analysis finally gravitated toward a consumption per square foot (sf) basis did a picture begin to emerge that was even-handed. When consumption/sf was combined with a normed climate basis, an analysis finally emerged that was truly useful in targeting energy efficiency. This final efficiency measurement used an Energy Use Intensity (EUI) per annual Heating Degree Day (HDD). Detailed analysis of a school's EUI/HDD guided the implementation of Energy Efficiency Measures (EEMs) for both existing and new construction. We think these data elements can be used by districts in complying with the new regulation's requirement to evaluate a need for retro-commissioning.

Definitions

Retro-commissioning (RCx): RCx is the inspection and adjustment of systems to return the facility to operate as it was designed to operate. Generally, it is assumed to apply to facilities that were never commissioned at start-up. The parallel term "re-commissioning" is sometimes applied to commissioning activity that follow an original (prior) commissioning event.

Energy Use Intensity (EUI): Sometimes also referred to as Energy Utilization Index, the EUI provides a snapshot of the quantity of energy actually used by a building on a square foot and time period basis (e.g. month, year). The calculation converts the total energy usage for a determined time period from all sources in the building, (e.g. heating fuel, electrical) into British Thermal Units (BTUs). The total usage is then divided by the number of square feet (sf) of the

building. EUI units are BTUs/sf for any measured time period. As stand-alone metric, EUIs are not adjusted for climate variations.

British Thermal Unit (BTU): A BTU is the amount of heat required to raise the temperature of one pound of liquid water by one degree Fahrenheit at a constant pressure of one atmosphere.

Heating Degree Day (HDD): HDDs are a measure of how much (in degrees), and for how long (in days), the outside air temperature falls below 65 degrees Fahrenheit. It is commonly used in calculations relating to the energy consumption required to heat buildings. Essentially, the colder the outside air temperature, the more energy it takes to heat a building. The idea is that the amount of energy needed to heat a building in any day/week/month/year is directly proportional to the number of heating degree days in that day/week/month/year.

Energy Efficiency Measure (EEM): EEMs identify an investment (e.g. new thermostats, new lighting bulbs, etc.) that provides a reduction in the energy costs and use in a building of an amount sufficient to recover the total cost of purchasing and installing such measures over an appropriate period of time.

Site Energy: The amount of primary (e.g. oil, natural gas) and secondary energy (e.g. heat and electricity) consumed by a building as reflected in utility bills and other on-site measurements. Site energy is calculated by converting each fuel source into BTUs, then adding them altogether. Site energy is useful in monitoring how the energy use for an individual building has changed over time; however, it is not a good metric to compare two different buildings.

Source Energy: Total of site energy consumption (see above definition) plus all the delivery and production losses. Source Energy is the sum of the:

- primary energy you buy directly;
- secondary energy you buy directly;
- losses incurred when the primary energy was converted into the secondary energy; and
- losses incurred when both primary and secondary energy were delivered.

Source energy is the best energy metric for an “apples-to-apples” comparison between buildings.

Discussion

Fast-forward seven years and regulations are now in effect that require districts to address the energy performance of existing buildings through retro-commissioning—when needed, and when effective. Since the regulation impacts CIP eligibility, a very clear, and ideally simple, test for compliance is needed. Breaking the regulation language down into actionable steps suggests the following:

1) Districts must evaluate the need for commissioning of existing buildings;
2) Districts must evaluate the effectiveness of commissioning existing buildings;
3) The evaluation must be regular.

Retro-commissioning Need

As we implement the new energy regulation, the need to develop a tool to drive retro-commissioning is a must. In measuring a need, one must generally have an identified standard or requirement (e.g. "the International Building Code requires . . .") and a means of measuring performance against that requirement. In this instance, the standard should be tied to a building's overall energy efficiency performance. As covered in the Background, one common measurement for overall energy performance is its Energy Use Intensity (EUI). If EUI is accepted as the means of measurement, the remaining task is to identify a measurement target or standard. An energy performance standard can begin with the establishment of a benchmark as a pivotal reference mark to be used in future –and ongoing– analyses. Benchmarking would equate to a standard or requirement in a similar fashion as that found in building codes.

Energy benchmarking ("benchmarking") is the process of collecting, analyzing and relating energy performance data and associated costs of comparable activities with the purpose of evaluating and comparing energy performance between or within entities, such as schools, teacher housing units, dormitories, vocational centers, etc. For instance, school district officials may decide to benchmark heating fuel consumption (in BTUs) per square foot for each school. An analysis of these results may reveal how well efforts to mitigate heat energy consumption are paying off over time, and whether stakeholders are staying on course with the objectives set forward in the energy management plan or school board policy. Additionally, the quantitative value of energy benchmarking provides a solid tool to guide stakeholders in becoming better stewards of energy resources.

Since 1999, state regulations mandate that districts keep track of their monthly energy consumption by facility.

In the interim, a few of our larger school districts have occasionally established benchmarks as a means to relate energy consumption data with the purpose of evaluating and comparing energy performance between or within schools located in their districts. In one instance, the energy benchmark was based on the following metrics:

- Facilities square footage
- British Thermal Units (BTUs) for utilities (e.g. electricity, oil, gas)
- Heating Degree Days (HDDs)

A benchmark year was established early on, and future comparisons were derived from adjusted indexes where cost savings are determined at today's energy price. In one instance, these figures were referred to as "cost avoidance." At the end of each school year, the results were compared to the benchmark year. When results swerved away significantly, further research was made to explain the variations. In cases where energy was saved, some of the money went back to the school principals to be used as incentives (e.g. sponsoring family movie event on Saturday) so that continued interest to mitigate energy consumption could be generated and sustained by end users.

However, caution is warranted in the establishment of an original energy benchmark, at a certain point in the life cycle of a building, where the current efficiency of various systems is marginal.

For instance, HVAC control systems that have not been upgraded or tuned-up in more than a couple decades could easily nullify the need for a retro-commissioning if a benchmark was established at a historical point when this system was well past the point of needing a retro-commission upgrade. The question remains as to what is the best solution to commonsensically establish a benchmark for buildings and systems of various age, some of which have individual systems that have been randomly tweaked, and others that have not, as years went by. Ideas on how to establish useful and equitable benchmarks need to be further discussed.

Retro-commissioning Effectiveness

With regard to energy management, measuring the effectiveness of an action can generally be accomplished based solely on financials. Occasionally, human comfort may also need to be considered. It is important to have means of establishing costs and savings so that a Return On Investment (ROI) or cost/benefit can be established.

Another factor that could be considered/discussed is whether an effectiveness test would help establish whether the 'need evaluation' has to occur on every district building regardless of size, type, use, or complexity.

While benchmarking the energy performance of buildings, the integration of EUIs could be used as a valuable element that adds a comprehensive link between energy performance and effectiveness. As mentioned previously, the EUI's absence of climate variation throughout a benchmark cycle could be supplemented with the inclusion of HDDs. This goes back to the axiom mentioned previously where efforts are made to develop energy metrics with comparable variables as in paralleling "apples-to-apples." Regardless of how warm or cold the temperatures are throughout a benchmarking cycle, the HDD would compensate for the variations and reflect a more accurate metric so that both energy efficiency and performance are assessed with sufficient details to enhance their value and usefulness.

Each district will need to update its energy management plan to include details about the effectiveness and the need for retro-commissioning. Districts will need to determine at which point in time a retro-commissioning process is called for in order to maintain adequate operational performance of energy-related systems. There is a tipping time during the life cycle of these energy-related systems when continued operational costs do exceed costs involved in retro-commissioning. Informed decisions need to be made, and developing well thought-out energy management plans will prove critical. Indubitably, part of this decision making process shall incorporate performance analysis of EUIs.

Regular Evaluation

In order to establish a regular evaluation, some definition of 'regular' must be established.

AHFC's *White Paper on Energy Use in Alaska's Public Facilities* (2012) recommended retro-commissioning systems every three to five years would keep systems functioning at optimal performance.

Field results differ for various sites, where the retro-commissioning of certain systems have been completed once every 15 years, for instance. The frequent retro-commissioning of select systems may prove ineffective (e.g. lighting) while it could benefit other systems of the same vintage (e.g. HVAC controls). The need for discussion is imperative so that pros and cons become part of the decision making process. Perhaps, the staging of certain systems grouped together may be worth considering. How can we make this process most cost effective for all parties involved?

Retro-commissioning Costs

With the advent of changes to the regulation, end users are interested in learning more about the associated costs. Currently, there are no known studies linking the costs of school operations to the establishment of retro-commissioning costs. Perhaps, retro-commissioning costs could be linked to a cost per square footage. Possibly, systems with similar retro-commissioning needs could be grouped together. Could spreads and parameters be further defined? Important factors linked to the savings of systems operating efficiently need to be discussed so that end users have a good understanding of achievable cost benefits.

Options

Option 1:

Develop a simple tool (possibly a spreadsheet) that is energy consumption centric, which districts can utilize to determine the frequency in which individual systems need to be retro-commissioned. Variables up for consideration could include:

- Year of commissioning or most recent retro-commissioning of each energy-related system (e.g. 2012);
- Specific energy-related system (e.g. boiler, HVAC controls, doors, windows, etc.);
- Facility square foot (sf) area;
- HDD;
- Frequency at which each energy-related system should be retro-commissioned (e.g. every 4 year or when EUI exceeds 8% of baseline performance, whichever comes first); and
- Pro-rating of EUIs (as an embedded formula), when applicable, for each energy related system (e.g. boiler = 85% oil + 15% electricity; lights = 100% electricity)

Districts could record their monthly energy data consumption (e.g. kWh, gallons, cords of wood, etc.) in a subsequent tab on the same spreadsheet (e.g. one tab for heating oil, one tab for electricity, etc.). An embedded formula could then convert these entries as EUIs onto the main spreadsheet cover. This methodology could be twofold:

- Districts would now have a standardized way of recording monthly energy consumption for each of their buildings.
- EUIs could be determined without requiring too much arithmetic by end users (e.g. how many BTUs per gallon #2 heating oil, natural gas, cord of wood, etc.).

Option 2:

1. Establish EUI (i.e., BTU/SF) as the approved metric for measuring the overall energy efficiency of school facilities based on site energy consumption.
2. Establish an annual measurement as the appropriate cycle for evaluation.
3. Encourage the indexing of EUI to annual HDD.
4. Require school districts to set a benchmark EUI for each building that will trigger a retro-commissioning needs review.
5. The department will establish a benchmark maximum EUI for each district, above which a retro-commissioning must be accomplished prior to that facility's eligibility for CIP.
6. The department will establish a mechanism for an effectiveness evaluation using ROI or Cost-Benefit (C/B) analysis.
7. Adopt the 10,000sf building size as the threshold for an effectiveness test.
8. Provide a RCx RFP template.

Option 3

Require school energy policy that establishes that retro-commissioning be performed when cost of energy usage, compared to baseline or the prevailing history (as an example; lowest average of three consecutive years), exceeds XX% (50%, 33%, 25% as examples) of the cost of retro-commissioning. To meet this policy, the district should:

- Through a *workbook* or an energy management program, assemble and record energy usage for each energy component (electric, oil, natural gas, steam, etc.) per the relevant unit of usage. Include all available historical data. This could be in relevant sheets of a *workbook*. Units should be by year and month. This is already a requirement through statute and regulation.
- A summary sheet that brings forward total usage by year for each energy component. Also includes facility name, unit costs for each energy type (adjustable), baseline annual usage for each energy type, facility square footage and cost of retro-commissioning. This sheet would further make calculations for present cost of baseline, compare present year cost to baseline, total cost and comparison of all energy types and EUI. The following is an example.

Facility: Cold Elementary School

Baseline	units	Unit cost	Total
Electric (kwh)	100,000	$.20	20,000
Oil (gal)	1000	$2.50	$2,500
Cost of Retro	$10,000		

Year	KWH	Cost	Δ to Baseline	Gallons	Cost	Δ to Baseline	Total Δ	GSF	EUI
2017	110,000	$22,000	$2,000	1,100	$2,750	$250	$2,250	XXXX	Calculate
2018	120,000	$24,000	$4,000	1,200	$3,000	$500	$4,500	XXXX	Calculate
2019	130,000	$26,000	$6,000	1,300	$3,250	$750	$6,750	XXXX	Calculate

- As a part of the energy plan, the district would monitor the facilities usage and as the variance from baseline increases and approaches the threshold for retro-commissioning,

the district could institute in-house audit and attempt to reduce the variance and forestall the need for commissioning.

- If the attempt at in-house corrections is not successful, the district would initiate procedures for retro-commissioning.

Recommendation(s)

Develop a synthesis of the three options mentioned above so that:

- Relevant elements become part of a new managerial tool; and
- The new tool can be used by districts in order to fulfill the new regulatory mandate.

State of Alaska **Department of Education & Early Development**
Bond Reimbursement & Grant Review Committee

Commissioning

S U B C O M M I T T E E R E P O R T

November 3, 2019

Mission Statement

To provide minimum criteria and expectations to test the performance of a school's mechanical, electrical, plumbing, fuel, controls and envelope systems; to promote energy efficiency of the school and save operational costs over the life of the building.

Current Members

Randall Williams PE, PDC Engineers, Chair
William Glumac
Wayne Marquis, DEED

Industry Partners

Craig Fredeen, Cold Climate Engineering
JaDee Moncur, Support Services of Alaska

Status Update

Recommendations from 2017 Report to the Legislature:

1) *Set standards for which projects require/receive commissioning.*

   Status: Completed.

2) *Set standards for commissioning agents.*

   Status: In Progress. DEED staff is contacting potential organizations.

3) *Develop system-specific commissioning criteria for use in scope of services.*

   Task 1: Develop outline-level standards; get BR&GR approval.

   Status:

   Previously presented to committee 12/4/17 with "envelope" criteria in draft.

   The subcommittee met via WebEx on October 28, 2019 to finalize the outline-level Cx Standards, see attached.

   Chair incorporated comments from discussion and combined criteria documents into a single document. On suggestion from DEED, the scope was labeled with CostFormat codes where possible.

   The completed scope document is presented here to the BRGR committee for final approval.

Task 2: Conduct an independent feasibility and cost/benefit analysis of creating comprehensive commissioning standards for Alaska school projects.

Status: No action.

Task 3: Review analysis and publish a handbook or regulations as recommended.

Status: No action.

Schedule

No subcommittee meetings currently scheduled.

Bond Reimbursement and Grant Review Committee

Commissioning Standards Subcommittee

COMMISSIONING SCOPE GENERAL OVERVIEW

Commissioning is required on the following education-related projects receiving state aid (ref. 4 AAC 31.080(i):

- An addition or new school of more than 5,000 SF
- A rehabilitation of any facility more than 10,000 SF

Commissioning is permitted (allowed) on rehabilitations of other education-related projects at the recipient's discretion.

The commissioning process shall include the following systems when included in the project scope:

- Mechanical
- Electrical
- Fuel Oil
- Controls
- Building Envelope

When required, commissioning shall be the responsibility of a Commissioning Agent (CxA) charged with organizing and leading the commissioning efforts for the project. The CxA shall be:

- Certified in commissioning from a recognized standards organization approved by the Department;
- An independent third party, or a member of the design team, or if appropriate, could be an employee of the school district (consistent with district's commissioning policy)

When permitted, but not required, commissioning may be accomplished by a qualified facility professional, including a district employees, even if not certified.

CxA Responsibilities will include the following (as determined by contract requirements):

- Coordinate commissioning team activities.
- Coordinate with Contractor's Commissioning Representative (CCR) and commissioning team.
- Create a Commissioning Plan to guide the Cx process
- Create commissioning Construction Checklists to verify installation is correct and complete
- Create Functional Performance Tests to demonstrate system operates correctly
- Witness the Functional Performance Testing
- Work to resolve issues found during commissioning
- Create Commissioning Report
- Coordinate with owner maintenance personnel for training

MECHANICAL SYSTEMS COMMISSIONING

Coordinate commissioning of this section with other systems as noted in the electrical, fuel oil and controls sections.

Mechanical Systems to be commissioned include:

- Fire suppression systems including fire water storage and suppression activation. (CostFormat Code: 084 Fire Suppression)
    - These may be delegated to Authority Having Jurisdiction review and approval.
- Plumbing Systems (CostFormat Codes: 081 Plumbing)
    - Domestic hot water generation, tempering valve operation, high temperature alarm
    - Facility domestic water supply (well pump, storage, etc) function
    - Facility domestic wastewater, all non-gravity elements
    - DEC regulated system parameters are maintained
- Heating, Ventilating, Air-Conditioning, and Refrigeration Systems (CostFormat Codes: 0821 Heating, 0823 Ventilation, 0825 Cooling)
    - Heating
        - Hydronic system supply temperature control including heat plant operation
        - Distribution system control including circulation pump operation and failure sequences
        - Terminal heating unit operation including room temperature control
    - Combustion air
    - Ventilation
        - Central ventilation unit controls
            - Fan operation
            - Outside air, return, and relief air damper operation
            - Air temperature control including coil operation
            - Demand ventilation control sequences
        - Terminal ventilation unit operation
        - Building pressurization controls
        - Exhaust air operation
    - AC and Refrigeration
        - DX Cooling
        - Chillers
        - Variable Refrigerant Flow Systems
        - Heat Pumps
        - Walk-in coolers, freezers
- Specialty Equipment (specify) (CostFormat Codes: 085 Special Mechanical Systems)
    - Renewable energy systems
    - Energy Storage Systems
    - Foundation Cooling Systems (active, passive)

ELECTRICAL SYSTEMS COMMISSIONING

Coordinate commissioning of this section with other systems as noted in the mechanical, fuel oil and controls sections.

Electrical Systems to be commissioned include:

- Power (CostFormat codes 091 Service and Distribution, 093 Power, 0951 Power Generation, 0952 Grounding)
    - Power Generation and Storage System
    - Auto Transfer Switch – Standby
    - Grounding Systems – Power / Telecom
    - Uninterruptible Power Supply (UPS)
    - Motor Starters / Variable Speed Drives (VSD)
    - Secondary Transformers
    - Electrical Distribution Equipment
- Lighting (Cost Format code 092 Lighting)
    - Lighting Control Systems
    - Lighting Fixtures
- Special Systems where included in project (Cost Format codes 0941 Fire Alarm, 0942 Communications (data, voice, A/V, clocks), 0943 Safety and Security (access control, surveillance, intrusion detection))
    - Fire Alarm System
    - Security Systems
    - Closed Circuit Television
    - Audio Video Systems
    - Paging System
    - Intercom System
    - Entry Intercom System
    - Telecom Distribution System
    - Telecom Optical Fiber Distribution System
- Specialty Equipment (specify)
    - Renewable energy systems
    - Energy Storage Systems

FUEL SYSTEMS COMMISSIONING

Coordinate commissioning of this section with all other systems as noted in the controls, and building envelope sections.

Fuel Oil Systems to be Commissioned (CostFormat Code 085 Special Mechanical Systems):

- Tank vents: verify operating properly prior to testing
- Day tank controls integration
- Leak detection and overflow alarms: Test Hi / Low level
- Circulation pumps operation (supply and return)

Other Fuel Systems to be Commissioned when present:

- Natural Gas
- Propane

CONTROLS SYSTEMS COMMISSIONING

Coordinate commissioning of this section to include all systems as noted in the mechanical, fuel oil, lighting, and building envelope sections.

Controls Systems to be Commissioned (CostFormat Codes: 0831 Equipment Controls, 0833 Fire Suppression Controls, 0834 Plumbing Controls, 0835 HVAC Controls):

- All DDC controlled systems
    - Test all sequences as approved by the designer
    - Demonstrate alarm generation and remote monitoring (when present)
- All standalone controlled devices
- Boiler controls integration
- A/C system controls integration
- All interlocks and safeties including but not limited to
    - Boiler safeties, emergency shutdown
    - Combustion air systems
    - Duct smoke detectors and associated code shutdowns
    - Smoke damper activation
    - Occupied modes and unoccupied mode operation for all systems
    - Remote monitoring and alarm generation
- Provide Trending after Functional Performance Testing for review
- Specialty Equipment (specify)

BUILDING ENVELOPE COMMISSIONING

Coordinate commissioning of this section to include all systems as noted in the fuel oil, and controls sections.

Building envelope commissioning shall include:

- Whole-building blower-door air leakage rate testing in accordance with ASTM E 779 or an equivalent method approved by DEED (CostFormat Codes: 041 Exterior Walls, 043 Exterior Wall Openings, 051 Roofs, 052 Roof Openings)
    - The air leakage rate of the building envelope shall comply with ASHRAE 90.1 as currently adopted by DEED.
      [OR]
    - The air leakage rate of the building envelope shall not exceed 0.40 cfm/SF at a pressure differential of 0.3 inches water gauge (75 Pa).
      [OR for high-performance projects]
    - The air leakage rate of the building envelope shall not exceed 0.25 cfm/SF at a pressure differential of 0.3 inches water gauge (75 Pa).
    - Thermal imaging testing of the building envelope may be used to identify leakage areas when troubleshooting non-compliant test results.
- Automatic shades and similar

A guide CSI Specification is available from DEED to provide owners and designers recommendations for how to specify and accomplish testing described in this section.

State of Alaska **Department of Education & Early Development**
Bond Reimbursement & Grant Review Committee

Design Ratios

S U B C O M M I T T E E R E P O R T

November 18, 2019

Mission Statement

Under AS 14.11.014(b)(3), evaluate and propose construction design ratio guidelines for use by the department, school districts, and the design community to design new and renovated school facilities to reduce first cost (construction) and long-term cost (operation).

Current Members

Dale Smythe, Chair	Michael Spencer, AHFC
William Glumac	Larry Morris, DEED
Randy Williams	Lori Weed, DEED

Status Update

Recommendations from 2017 Report to the Legislature:

1) *Adopt the Alaska Climate Zones established by the Alaska Building Energy Efficiency Standard (BEES) and used by the Alaska Housing Finance Corporation.*

   Status: Confirmed with AHFC that the BEES Alaska climate zones can be used by the department as needed for development of ratios and potential regulations.

2) *Implement a school design ratio of Openings Area to Exterior Wall Area (O:EW).*
3) *Implement a school design ratio of Building Footprint Area to Gross Square Footage (FPA:GSF). This ratio would be applied to facilities in excess of 30,000 GSF.*
4) *Implement a school design ratio of Building Volume to Net Floor Area (V:NSF).*
5) *Implement a school design ratio of Building Volume to Exterior Surface Area (V:ES).*

   Status: An RFP was issued late winter for cost estimating and energy modeling services to explore the results of the design ratio options. In February a team was selected and negotiations successful completed. The draft report was reviewed and discussed within the subcommittee, with comments provided to the consultant. Final completion was in July of 2019. Department staff has created documents defining combinations of ratios with construction costs and energy savings to organize the results for use in informing potential policy recommendations. The subcommittee will continue to review the results of the modeling report and develop a list of recommended future steps for the department to consider.

   The subcommittee held a meeting on October 30, 2019 to review current status and plan for the next steps. The meeting determined the group will focus first on recommendations for the ratio of O:EW, Openings to Exterior Wall area. This presents itself as the least complicated and most direct to recommend.

Considering that some recent school designs submitted to the DEED with calculations completed were different than expected, the group is going to verify some ratios on examples of existing schools with small and large perceived opening to compare known projects and the numbers.

The next step agreed is to consider the combining of the two remaining ratio concepts (V:NSF and V:ES) these are both ratios selected to measure building compactness. This will be a separate task prior to selecting a ratio for both.

The next scheduled meetings are a subcommittee meeting on November 22 and a one-hour workshop at the A4LE Alaska Chapter Annual conference December 7, 2019 to involve industry experts for input and review of potential impacts of ratios and recommendations for moving forward.

Schedule

December 7, 2019 – A4LE workshop- begin measurement of existing school O:EW – 5 schools with recorded fuel usage.
January 2020 - monthly meeting to present results of workshop and status of ratio results from 5 schools.
February 2020 - monthly meeting to present status of O:EW ratio results from 5 schools.
March 2020 - Present recommendations for O:EW ratios.
April 2020 - Begin process of combining compactness ratios (V:NSF and V:ES).
May 2020 - Present status report of combining compactness ratios.
June 2020 - Present recommendations for a compactness ratio.
July 2020 - Develop test method for identified ratio and potential savings, compare 5 existing schools with known heating fuel usage.

Model School

S U B C O M M I T T E E R E P O R T

November 18, 2019

Mission Statement

To provide minimum criteria and expectations to test the performance of a school's mechanical, electrical, plumbing, fuel, controls and envelope systems; to promote energy efficiency of the school and save operational costs over the life of the building.

Current Members

Don Hiley, Chair
Jim Estes
Dana Menendez, ASD
Tim Mearig, DEED
Sharol Roys, DEED

Status Update

Recommendations from 2017 Report to the Legislature:

1) *Enhance the Cost Model for possible use as a cost limit standard to include: a) defining/updating geographic cost factors, b) adding detail to the 4.XX Site Work elements, and c) adding detail to the 11.XX Renovation elements.*

   Task 1: Prepare scope, issue an RFQ, award and manage the update.

   Status: Cost Model enhancement has been completed by HMS. The 18th Edition is much more complete than previous versions, and now provides more flexibility in the variety of projects that can be estimated. Some usability and functionality issues were found after delivery, but have now been resolved. The updated version is available to public online.

   Task 2: Develop regulations, as needed, to establish the Cost Model as a cost limit for projects.

   Status: Subcommittee to prepare analysis of need and make recommendation to BR&GR. This has not yet been scheduled. Issues found in the latest version illustrate the difficulty in broadening the Cost Model's scope, and will likely take at least one or two more iterations to work out issues needed to complete this task.

   The subcommittee recommended transfer of the committee work plan elements listed below from the subcommittee to the department:

1.1.1	Cost Model As Cost Control Tool		May 18-Dec 20
1.1.1.1.	Analyze, Recommend Cost Model As Cost Control	Dept	Jul 2019

1.1.1.2.	Draft Regulation Language For Cost Control Use	Dept	Jan 2020
1.1.1.3.	Review Draft Reg Language, Recommend To State Board	Committee	Mar 2020
1.1.1.4.	Manage Regulation Development and Implementation	Dept	Dec 2020

Geographic Factors - Subcommittee received and reviewed new geographic factors for the Cost Model. To be shared with the full Committee at September meeting. Department to compare changes made since this was first presented at the December meeting. Does this need further public review?

2) *Establish a process of reviewing model school elements within the Cost Model so that those updates become researched, vetted, and intentional.*

Task 1 & 2: Develop a best-practice strategy for updating model school elements in conjunction with HMS, Inc. Analyze effectiveness of BR&GR vs. consultant vetting.

Status: Subcommittee and department staff provided a great deal of input and feedback into development of the 18th Edition. More user feedback is anticipated as this version is put into practice during the FY21 CIP cycle. The department will keep the committee apprised of feedback received. Committee should maintain current roll of reviewing model school element changes proposed in each new edition.

Procedures for Updating the Model School File – Need direction: would the Committee support contracting out review of the model file if funding was available annually? Would the Committee support review of the file by a volunteer organization (e.g. A4LE)? These may not be mutually exclusive.

There appears to be some funding available for initial development and for subsequent update and maintenance of the standards. The subcommittee discussed how a paid consultant might fit into this process. The initial idea would be for DEED staff and the subcommittee/committee to put together the outline of the manual. The consultant would then help to fill in details for specific items as needed based on current practice. The finished product would then be available for public/peer review prior to implementation. Annual or periodic updates would be made as needed based on user feedback and other information. Updates to the Cost Model tool would be made to follow development of the model and standards.

3) *Develop Model Alaskan School standards by building system (ref. DEED Cost Format) needed to ensure cost effective school construction.*

Task 1: Complete outline-level standards for remaining seven systems.

Status: Department has not produced additional draft sections for subcommittee review.

Task 2: Conduct an independent feasibility and cost/benefit analysis on developing outline standards into comprehensive state-level model school standards.

Status: A contract was awarded to the McDowell Group to conduct the feasibility study, which was completed and delivered on July 5, 2019. Along with Department staff and BRGR Committee members, a number of people in state and provincial governments in the US and Canada were interviewed as part of the study. These interviews looked not only the implementation, but also the motivation in adopting standards by these different entities. School equity and efficiency/sustainability appear to be at least as much, if not greater factors in developing standards as cost savings for many.

The study provided good information about potential costs for developing and implementing a standard, either by Department staff or by contracting much of the work out to a consultant. The assumption has been made that implementation of a standard would likely result in cost savings due to relatively low cost to develop and update the standard versus the amount spent on school construction and renovation. A tool was developed, along with the report, to aid in putting together a cost benefit analysis.

Subcommittee discussed the need for more review and input by members of the design community in relation to standards that was somewhat lacking in feasibility study. One of the major questions to be addressed is what level of detail is appropriate in the standards? Subcommittee plans to review examples of standards currently in use by other entities to see how detailed they get in various areas, and seek input to try determine what the level of detail should be for Alaska.

In response to the need identified at the previous meeting to determine the appropriate level of detail in any proposed standards, DEED staff provided the subcommittee with several examples of facility design and construction standards from agencies in other locations. In all, the committee looked at six sets of standards including Alberta, Arkansas, Florida, Maine, New Jersey, and New Mexico. Each of these had somewhat different approaches and levels of detail. This ranged from fairly general to quite specific, for example, including specifying minimum pipe sizes. Some provided standard detail drawings for use by the design teams.

After reviewing these, the subcommittee reached the following recommendations:

1. **Standards should be at more of a policy level, with greater detail provided as needed in some areas. Examples of added detail might be specifying minimum and/or maximum thicknesses for metal roofing and siding. The goal would be to try to keep the manual to a more manageable size of perhaps 50-100 pages, which would help to make periodic updates of the manual more realistic, and allow the information to be more easily digested by the design teams as they**

worked on projects. This was more in the vein of the Arkansas and Maine examples.

2. **The standards manual should somewhat mirror the layout and organization of a standard project manual, which should make it easier to use and follow during project design. More discussion is needed as to whether the standards manual should be more narrative/bullet point format, or more specification number format.**
3. **The standards manual might identify "premium inclusions" that would be permitted, but at the district's expense. This might be similar to that found in the Maine example.**

Other issues discussed by the subcommittee, but not resolved, include:

- The cost/benefit analysis is not complete. Information required to make use of the tool provided will take more time and effort to gather.
- Not much input from outside A/E professionals to this point.
- Not much discussion of the downsides of their standards, if any, by other entities. What were pitfalls/lessons learned?
- What is the appropriate level of detail for the standards? Some areas possibly more specific or general than others. Are performance based standards more appropriate for some things?
- Can the standard be maintained over time and not become outdated?
- How do standards integrate with other codes adopted by the state and/or municipalities?
- How do the building systems standards integrate with other aspects of the cost effective construction mandate?

Task 3: Review analysis and publish a handbook or regulations as recommended.

Status: Pending. Anticipated cost of $50,000 is not funded.

4) *As part of describing a Model School, identify school elements that do not further the core educational mission of the school.*

Task 1: Review current Topic Paper and include in Report to Legislature.

Status: Completed January 2018.

Task 2: DEED to develop regulations that define non-core amenities based on legislative direction.

Status: No current action. DEED could use the Legislative Proposal process to advance. Subcommittee would need to make recommendations to Committee. BR&GR recommendations to department.

Schedule

No subcommittee meetings currently scheduled.

State of Alaska **Department of Education & Early Development**
Bond Reimbursement & Grant Review Committee

School Space

S U B C O M M I T T E E R E P O R T

November 18, 2019

Mission Statement

[DRAFT] Review accuracy and adequacy issues relative to the state's space allocation guidelines and recommend updates that support the board of education's mission and vision for Alaska public education.

Current Members

Dale Smythe, Chair
Jim Estes
Don Hiley
David Kingsland
Larry Morris, Jr., DEED

Status Update

Accuracy issues include:

1) Possible formula anomaly in mid-population K-12 scenarios.
2) Precedent and interpretation variations based on terminology and practice.

Adequacy issues include, among others:

1) Net vs gross space.
2) Electrical/mechanical space.
3) Storage in remote areas.
4) Identify unintended consequences/cost of current regulation.

The first subcommittee meeting was held on October 30, 2019 and the basics and history of the inception of the space subcommittee was introduced to the group. Industry professionals were also in attendance and shared current working issues with the space guidelines.

- The potentially unintended impacts of the current space guidelines as it relates to wall thickness, energy use, and the measurements to the exterior face of the wall.
- The designation and formula for allowable mechanical space may make required energy efficient equipment more difficult to maintain and or limit space available to include equipment.
- Design teams are forced to create "bump-ins" on floor plans to meet space guideline limits while inadvertently increasing the cost of construction with reentrant corners.
- With budgets ultimately limiting the available funds for school construction, what is the true purpose of space guidelines for spaces that are storage or mechanical in nature.

Should some space types not be included in the space guideline at all? Would the space guideline serve its purpose more accurately to only include educational spaces?

- Area limitations related to food storage require shorter durations between shipments, in areas with only summer barge access this forces districts to fly food to school sites with more frequency, increasing food transportation costs.

Schedule

The next subcommittee meeting is scheduled for November 22, 2019.

The Alaska Chapter A4LE is including a space workshop in its Annual Alaska Chapter Conference scheduled for December 5. This hour long workshop will be open to all conference attendees and will increase the amount of input, participation, and active volunteers available to assist.

The goal of the workshop will be to vet issues and create separate work groups with monthly meetings for the continued process of developing recommendations and researching cost benefits.

The proposed schedule will be to present formal recommendations and cost implications in 12 months using the A4LE annual conference as an event for presentation and industry participation.

State of Alaska **Department of Education & Early Development**
Bond Reimbursement & Grant Review Committee

By: Tim Mearig
Facilities Manager

Phone: 465-6906

For: Bond Reimbursement & Grant Review Committee

Date: November 18, 2019

File: G:\SF Facilities\BR_GRCom\Papers\Publications\Condition Survey\Condition Survey Cvr Briefing Paper_2019-12-4.docx

Subject: Guide for School Facility Condition Surveys – 2020 Ed.

B R I E F I N G P A P E R

Background

The department's previous briefing paper (August 2019) established the history of the current 1997 *Guide for School Facility Condition Surveys* and documented efforts to update the publication c.2012. The Discussion section provided an analysis of the strengths and weaknesses of the current publication, and the Options section offered three approaches to update the publication including: 1) Incremental Update, 2) Conversion to Database or Spreadsheet , and 3) Switch to Narrative Template. The department stated no preferred recommendation among the options presented. After a wide ranging discussion by the Committee—with input from industry partners—it was agreed that the department would come back at a later meeting with a more focused approach on what a facility condition survey might look like. We will also review what other systems might be available, to the extent possible.

Discussion

Recognizing that facility condition surveys are an essential part of the DEED CIP process—and are the backbone of nearly all capital projects—the department believes the need for both guidance in this area and a helpful tool remains. The previous analysis of the 1997 *Guide for School Facility Condition Surveys* included this telling statement:

> *The format and structure have no particular alignment with other DEED publications such as the Cost Model, CostFormat, LCCA Handbook, and other building system based documents*.

The current document was never developed in the full context of the question, "In the area of condition surveys, what can the department provide in the way of resources, information, and leadership that would make the CIP process more effective?" In response to that question, our current thought is that a publication to lay out the importance of condition surveys and establish some minimum and best-practice standards would increase effectiveness. It seems possible that this guidance could find an appropriate location in an existing DEED publication, such as the *Professional Services for School Capital Projects*, the *Capital Project Administration Handbook*, or the *Alaska School Facilities Preventive Maintenance & Facility Management Handbook*. For the sake of simplicity, this should be strongly considered. However, if a response to the 'increasing effectiveness' question suggests that a tool or template would be valuable, the solution would be to continue maintaining a separate publication addressing this area.

In order to assist with that determination, the following goals are proposed that relate to the condition survey subject area:

2020 Documentation Goals

1. Inform and extend the condition survey elements contained in the *CIP Application*, *Instructions*, and *Rater's Guidelines*;
2. Use condition surveys to enhance the opportunity for a repository of narrative descriptions of systems for existing buildings;
3. Provide clear guidance on the value of cost estimates associated with condition surveys, and possibly their format;
4. Establish the value of documentation through photographs;
5. Outline a strategy to keep condition survey elements from becoming dated (particularly in areas of infrastructure, technology, and accessibility) by integrating base building information with the future model school construction standards;
6. Ensure integration in condition measurements that align with future design ratio elements;
7. Integrate condition surveys with the Protection of Structure/Code Deficiencies/ Life Safety category in the CIP application to allow a more seamless connection between conditions and points.
8. Ensure the full range of building systems are identified for discussion (when applicable) by aligning condition surveys with capital renewal schedules such as the DEED R&R Schedule;
9. Establish a condition survey format and structure that aligns with other DEED publications such as the *Cost Model*, *CostFormat*, *LCCA Handbook*, and other building system-based documents; and
10. Ensure any proposed/required condition survey standard is scale-able between all building types and sizes.

Though each of these goals includes aspects of narrated standards and a tool or template, the first six deal primarily with standards while the last four have a tool-base focus. Following is an expanded, but brief, discussion of each goal:

1. Condition survey elements in the *CIP Application*, *Instructions*, and *Rater's Guidelines*
The CIP instructions and guidelines have specific guidance about what constitutes a condition survey (and what does not), how those can best be used in the application process, and how they will impact a project's evaluation and ranking.

2. Condition surveys to enhance a repository of narrative descriptions of systems.
For DEED's process, a key component of an effective condition survey is the ability to identify what the original function or intent of a system was in addition to documenting specific discrepancies or shortfalls occurring or likely to occur.

3. Provide guidance on cost estimates associated with condition surveys.
Cost estimates are a key component of condition surveys; they provide a quick cross reference of the actionable issues and the proposed/perceived scope of the issue.

4. Establish the value of documentation through photographs.
Because the DEED CIP process provides little to no opportunity for judgements related to conditions to be made based on direct observation, photographic documentation of conditions is vital.

5. Integrate base building information with the future model school construction standards.
A condition survey should reflect the status of systems and components that are supported by the department's CIP funding program. Eligibility of systems and components will need to be aligned with cost-effective construction standards.

6. Integrate in condition measurements that align with future design ratio elements.
A condition survey should also measure any standards of cost effectiveness as determined by the state in response to statutes requiring design ratios.

7. Integrate condition surveys with the Protection of Structure/Code Deficiencies/Life Safety category.
The DEED CIP process incorporates a matrix of condition elements related to LS/Code. To the extent that condition surveys allow a more seamless connection between conditions and points, they will prove more effective for the department and for applicants.

8. Align condition surveys with capital renewal schedules such as the DEED R&Rs.
The connection between facility conditions and capital renewal cycles is critical. Providing a condition survey template that aligns with DEED's guidance would increase effectiveness.

9. Establish a condition survey format/structure that aligns with other DEED publications.
A condition survey template that is organized based on building systems under the same structure used by the department in areas of cost estimating, cost control, and cost evaluations would increase effectiveness.

10. A condition survey standard should be scale-able between all building types and sizes.
A condition survey that is system based and narrative in scope doesn't have to be 5 times the number of pages for a 50,000sf facility than for a 10,000sf facility. Any survey template should work to mitigate unnecessary complication and growth in size.

Options

Option 1: Focus on Standards and Policy Development
This option would prioritize the development of guidance and policy related to condition surveys as it aligns with the DEED CIP process. This would be led by the department and reviewed and refined at the Committee. When development was complete, a follow-on analysis would be made with regard to placing the approved guidance in existing publications or to centralize it in an updated and revised stand-alone publication.

Option 2: Focus on Tool/Template Development
This option would prioritize the development of a tool or template for condition surveys as they would best support the DEED CIP process. It would acknowledge that, while there is no

shortage of condition survey outlines, templates, and formats, establishing a format customized to the DEED CIP process and to other DEED publications and tools would be the highest immediate benefit. Standards and policies could be developed at a later time and published in support of the tool.

Recommendation(s)

The Facilities section proposes moving forward under Option 1 as described above or as may be altered by Committee action. The basis for the recommendation is that the current guideline is nearly exclusively tool-based and has not been an unqualified success. Also, there doesn't appear to be a shortage of tool alternatives. Assembling disparate guidance to meet the goals outlined in this paper, and others as may be added, seems like the more appropriate starting point in 'updating' the current publication.

Guide for School Facility Condition Surveys

PRIMARY CONTRIBUTOR

Tim Mearig, AIA
Architect
Alaska Department of Education & Early Development
Juneau, Alaska

CONTRIBUTORS

Larry Morris
Architect Assistant
Alaska Department of Education & Early Development
Juneau, Alaska

Facilities Staff
Alaska Department of Education & Early Development

ACKNOWLEDGEMENTS

Thanks to the Bond Reimbursement and Grant Review Committee members who reviewed the original publication in its draft form and a special thank-you to Harley Hightower for his contribution of the original format and his creation of the specific building system checklists.

Originally published in a limited quantity in June, 1995 by the State of Alaska, Department of Education as *Educational Facility Condition Survey*.

Table of Contents

Directions for Use

Introduction

This publication is provided for convenience to establish a minimum requirement for evaluating facilities. The use of this document is not mandatory. Other forms and documents providing this information are acceptable.

The condition survey should begin by reviewing record documents and completion of a code analysis prior to the on-site survey. After the on-site inspection, the condition survey should describe the overall condition of the facility, the age and condition of the facility components, any code issues and cost estimates for any deficiencies in condition, age, or code. The condition survey should be able to assist the school district in developing a cost-effective plan for renovation of the facility or component replacement. The survey should also assist the district in communicating those needs to the public and government agencies.

It is anticipated that the condition survey will be accomplished by a team of professionals and tradespersons with the necessary expertise to assess the various areas. However, with the exception of the **Regulatory Data** section, most of the checklists could be utilized by experienced maintenance personnel that districts may have on staff.

Formatting

This document is designed to be a guide in developing a condition survey. Included is a general outline for a typical condition survey. Also included are checklists to assist in information gathering and inspections. The final condition survey should include checklists of facility components that can either be produced "manually" by filling out information directly on a paper copy or "electronically" by downloading the interactive copy of the electronic file and directly imputing inspection results. Instructions for using the checklists are included in Appendix A.

Section 1 - **Condition Survey Record** is self-explanatory. The information matches much of that found in the CEFPI School Facility Appraisal Guide's **Building Data Record**.

Section 2 - **Regulatory Data**: Codes used for evaluating the facilities shall be referenced. The data listed in the form is not all inclusive and each facility requires analysis based on the particular design and construction. Any code information or discrepancies noted should be provided with code references including title, edition, chapter, section, paragraph, and sub-paragraph.

Survey, reports, and other documentation such as ADA Surveys, AHERA Surveys, Fire Marshal Inspection Reports, and similar documentation shall be referenced under this section of the survey and attached as an appendix if available. Results of these surveys and studies shall be considered in the recommendations and cost summary.

Section 3 - **Site Data**: This section provides for the evaluation of general site conditions as well as areas and equipment which support athletics and play. The latter portion addresses the civil engineering and utility requirements of the building. The use of this section is self-explanatory.

Section 4 - **Building Envelope/Structure**: Several forms work together to assess the complete architectural and structural exterior features and systems. In complex buildings, the building should be broken down into discrete areas (e.g. wings, etc.) and separate information obtained for each area. In addition, changes in materials or structural systems may require a separate form be generated. Use as many forms as is necessary.

Section 5 - **Interior Spaces**: This section is intended to capture all interior information on a room-by-room basis. Three basic types of forms are included: a form for a general room with standard amenities (e.g. classrooms, administrative offices, etc.), a form for general rooms with the addition of plumbing elements (e.g. science labs, art rooms, janitor rooms, etc.) and several forms customized for special use spaces including Corridors/Commons, Kitchens, Shops, Locker Rooms/Restrooms, Auditoriums and Gymnasiums. If additional special use forms are needed (for example, media center, etc.), create one from the other forms or request assistance from the Department's Facilities staff.

Section 6 - **Mechanical**: This section covers general mechanical systems found in various areas of a building. It also uses a form for Mechanical Rooms to gather significant information on the heating, cooling, and ventilation systems supplying the building's spaces. Information gathered in Section 5 will augment the information in this section. However, the basic principle is that Section 5 is limited to the visual aspects of the appurtenances of the mechanical systems whereas Section 6 will address the functionality and support for the appurtenance. This section also deals with some specific regulatory data not covered in Section 2.

Section 7 - **Electrical**: This section covers electrical systems in similar fashion as Section 6 treats mechanical systems. Information gathered in Section 5 will augment the information in this section. Again, the basic principle is that Section 5 is limited to the visual aspects of the appurtenances of the electrical systems whereas Section 7 will address the functionality and support for the appurtenance. This section, too, deals with some specific regulatory data not covered in Section 2.

Findings and Cost

Upon completion of the condition survey, recommendations shall be provided for all discrepancies and upgrades described. Cost associated with each discrepancy and upgrade shall be provided. A condition survey submitted without costs associated with each discrepancy will be considered incomplete. Each recommendation shall reference the corresponding item contained in the Condition Survey by section, paragraph, and sub-paragraph designations. A sample page of a Recommendations narrative is included in the examples in the following section.

Supplement and Appendices

Supplements may be included in an Appendix to the Condition Survey report. Appendices may include subjects such as special inspections, engineering calculations, photographs, drawings, estimate worksheets, etc. Floor plans, with building area designations, room identification and door numbers used in the checklists are encouraged.

The checklists, as shown, are very limited in their provision of comment areas. Comments should be added and used as required to explain conditions and cover subjects that are not included in the evaluation form. When using the manual method, attach additional sheets. If the checklists in this document are modified electronically, extensive comments may simply be typed into the checklist form (see examples).

Disclaimer

This guide is not considered all-inclusive and should be added to, based upon the design and construction of each facility and on the structure's condition. Subjects contained in this survey form that are not applicable may also be deleted.

Input is requested from users of this Condition Survey relative to its improvement.

The State of Alaska, Department of Education and Early Development provides this School Facility Condition Survey as a convenience and assumes no liability for its use.

Example

An example School Condition Survey Mechanical system narrative excerpt is attached on the following pages to show an example of the evaluation and summary forms.

Mechanical Overview

EXAMPLE MECHANICAL NARRATIVE

The site was visited on Friday, August 5th, 2011 to inspect the mechanical systems for the facility. The building was inspected for conformance of the following adopted codes and standards:

2009 International Building Code (IBC)
2009 International Fire Code (IFC)
2009 International Mechanical Code (IMC)
2009 Uniform Plumbing Code (UPC)
2009 International Fuel Gas Code (IFGC)
2006 International Energy Conservation Code (IECC)
2005 Americans with Disabilities Act Guidelines (ADA)
2010 ASHRAE 62.1-2010 Ventilation for Acceptable Indoor Air Quality

Synopsis

The mechanical systems in the school varied in age and condition. The original school was constructed in 1956; there have been numerous renovation and addition projects. Many of the mechanical systems are nearing the end of their useful life expectancy and should be scheduled for replacement. Ventilation to the school is not provided in accordance with ASHRAE 62.1-2010. The following is a summary of recommendations to address mechanical deficiencies in the school:

1. Replace plumbing fixtures and piping throughout the building.
2. Replace heating piping and heating equipment throughout the building.
3. Upgrade boiler system; replace existing boilers with high efficiency condensing boilers. Replace heating pump system with variable speed pumping system.
4. Replace ventilation systems throughout the building.
5. Replace all pneumatic controls with DDC controls.

Plumbing Systems

Description of Existing Systems

Domestic water and sanitary sewer service is provided to the school by ???. The storm drainage system is connected to ??? <or drains to ???>.

The condition of the plumbing piping is fair to poor. The piping varies in age, it is our understanding that only small sections of the original piping have been replaced. Most of the piping has met or exceeded the typical life expectancy of the domestic water piping. The waste piping is buried and was not available for inspection. The underground piping should be flushed and inspected with a camera to review the condition of the piping.

The plumbing fixtures vary in condition from fair to poor. With the exceptions of the fixtures or valves that have been replaced for routine maintenance, the fixtures are from the original construction or additions to the school. The fixtures vary in age from 30 to 50 years old and are at the end of their useful life expectancy. ADA Accessibility is limited to a few restrooms. Additionally, the fixtures are

not water conserving fixtures; water usage at the school could be significantly reduced with the replacement of the fixtures.

Code Deficiencies

Recommended Action
Replace plumbing piping and fixtures building wide. Typical life expectancy for plumbing fixtures is 30 years; the fixtures have met or are near the end of their useful life. Install new water conserving plumbing fixtures and provide upgrades for ADA compliance. Some architectural modifications will be required to provide for more ADA compliant bathrooms. Inspect underground plumbing with camera and repair or replace piping as required. Plumbing piping and fixture replacement in the north wing would be the first priority as this is the oldest piping in the building.

Estimate

Fire Protection Systems

Description of Existing Systems
The fire protection system is a wet sprinkler system installed during the summer of 2009. The system is in good condition.

Code Deficiencies

Recommendation Action
No fire protection upgrades are recommended at this time. Routine testing and inspections in accordance with NFPA 25 should be performed to ensure reliable operation of the sprinkler system.

Heating Systems

Description of Existing Systems
There are two boiler systems in the school. One boiler system is located in the 1983 addition and serves the gymnasium, kitchen, MPR and 1983 classroom addition. The second boiler system is located in the original 1955 boiler room on the east side of the building near the IMC and serves the areas of the school built in 1956, 1957 and 1960.

The boiler system in the 1983 addition consists of two gas-fired cast iron boilers. The boilers are Burnham PF-505 boilers rated at 786,000 BTU/hr gross output each. The boilers were installed in 1983 during the school addition. The boilers are in fair condition for their age but are nearing the end of their useful life expectancy. The boilers are directly piped to the primary heating system pumps, with a three way valve on the supply header that operates to temper heating supply water to the building. The piping as configured does not provide for even flow to each boiler and does not provide minimum return water protection or minimum flow to the boilers. The piping configuration can lead to condensation of flue gases due low temperature, and uneven system heating as each boiler receives part of the flow regardless of boiler operation.

The boiler system in the 1955 boiler room consists of two gas-fired cast iron boilers. The boilers are Burnham PF-510 boilers rated at 1,612,000 BTU/hr gross output each. The date of installation for the boilers is not known, they are approximately 25 years old. The boilers are in fair condition for their age but are nearing the end of their useful life expectancy. Boiler circulation pumps were installed on the boilers in 2003 to provide minimum flow through the boilers.

Both of the boiler systems utilize compression tanks for the heating system that do not have external bladders. These tanks have a tendency to become water logged and do not provide as good of expansion compensation as current bladder style tanks.

The hydronic piping in the building consists of steel and copper piping. The distribution piping in the 1956, 1957 and 1960 areas of the school have exceeded their useful life expectancy. The piping in the 1974 and 1983 additions had sings of leakage but appeared to be in fair condition.

Heating for the school is provided by a combination of in-floor heating, cabinet unit ventilators, perimeter fin tube and heating coils in the air handling units. Miscellaneous unit heaters and cabinet unit heaters are located throughout the school to provide heating to utility areas and vestibules.

The heating system equipment and piping is not seismically restrained in accordance with the IBC. Seismic restraint requirements have increased since the installation of the heating system. The piping insulation in the fan rooms has been damaged and should be repaired/replaced.

Code Deficiencies

Recommended Action

Both of the boiler systems, main system heating pumps and associated piping should be scheduled for replacement. The boilers are nearing the end of their typical life expectancy. The boilers should be scheduled for replacement with high efficiency boilers as they are near the end of their useful life expectancy. The boilers should be consolidated to a single location with only one boiler room and two boilers, to reduce maintenance requirements. Upgrading the boilers to high efficiency condensing boilers with variable speed pumping system would provide significant energy savings over the existing boiler system. Additionally, the existing boiler systems are prone to thermal shock issues, high efficient boilers are designed to operate with low water temperatures eliminating concerns with thermal shock. The heating system pumps, air separator and compression tanks should be replaced with the boilers as they are also near the end of their life expectancy of 30 years.

The heating piping and terminal heating equipment has exceeded its typical life expectancy and should be replaced. The distribution piping and terminal units are approximately 28 to 55 years old.

Seismic restraint for the heating piping and equipment throughout the building should be installed in accordance with the 2009 edition of the IBC. Repair or replace the damaged piping insulation in the fan rooms.

Estimate

Ventilation Systems

Description of Existing Systems

Ventilation for the school is provided by air handling units and cabinet unit ventilators. The ventilation systems in the school are not capable of providing the current ASHRAE 62.1-2007 ventilation rates. The classroom and office areas in the 1956, 1957 and 1960 areas are ventilated by a central air handling unit located in a fan room adjacent to the boiler room. The air handling unit is a constant volume, built up unit with mixing box and filters. The air handling unit utilizes the corridor as a return air path which is no longer allowed by the IMC. The unit has exceeded its useful life expectancy and does not meet current building codes.

The classrooms in the 1972 addition are ventilated by cabinet unit ventilators. The ventilators draw fresh outside air in low to the ground. The intakes are subject to blockage from snow, and there is the potential for intake of fumes from vehicles in the parking lots depending on wind direction. The path for the relief/exhaust air for classrooms is through the corridor to central relief air fans. Utilizing the corridor as the relief air path is a code violation. The unit ventilators are in fair to poor condition and have exceed their useful life expectancy.

The multi-purpose room and gymnasium are ventilated by constant volume air handling units. The air handling units that serves the MPR is from the 1974 addition. Two air handling units serve the gym, the units were installed in the 1983 addition. Supply air ductwork is routed above the ceilings to ceiling diffusers in the MPR and gym. The MPR return air is by ceiling return air plenum open to the fan room. The gym return air is ducted back to the two air handling units. The MPR unit has exceeded it useful life expectancy. The gymnasium air handling units are nearing the end of their useful life expectancy and should be scheduled for replacement.

Ventilation for bathrooms is provided by a combination of central and local exhaust fans. The exhaust airflow rates for the bathrooms are below current code requirements. Most of the exhaust fans have met or are exceeding their useful life expectancy.

The kitchen in the elementary school does not have a hood above the convection oven. The kitchen is ventilated by a roof mounted exhaust fan. The kitchen ventilation system does not comply with ventilation codes. The combustion air systems for the boilers are engineered systems with boiler room ventilation fans and relief air/combustion air opening.

The ventilation system equipment and ductwork is not seismically restrained in accordance with the 2009 edition of the IBC. Seismic restraint requirements have increased since the installation of the ventilation systems. The insulation tape on the ductwork insulation in the fan rooms is failing off and should be replaced.

Code Deficiencies

Recommendations

Perform a building wide ventilation upgrade to replace ventilation equipment that is at or beyond its useful life expectancy. Install new ventilation equipment to comply with ASHRAE 62.1-2007. Install new Type 2 hood for the kitchen with exhaust fan sized for the equipment served. Install seismic restraint for the ventilation equipment and ductwork in accordance with the 2006 edition of the IBC.

Estimate

Appendix A – Condition Survey Template

Inventory and Condition Survey Template

Facility Overview

School District:	
Facility:	
Inspection Date(s):	

Dates of Construction and Additions

	Date	GSF
Original Construction:		
Addition:		
Addition:		
Addition:		
	Total:	

*Confirm dates and GSF with DEED Facility Database

Renovations and System Replacement

Date	Description (including renovations as part of above additions)

Survey Team

Name	Firm

Notes

Civil/Site Overview

Synopsis

Water System

Description of Existing Systems

Code Deficiencies

Recommendations

Estimates

Wastewater System

Description of Existing Systems

Code Deficiencies

Recommendations

Estimates

Site Drainage

Description of Existing Systems

Recommendations

Estimates

Site Improvements

Descriptions of Existing conditions

Recommendations

Estimates

Architectural Overview

Synopsis

Exterior Enclosure

Description of Existing Systems

Recommendations

Estimates

Roofing

Description of Existing Systems

Recommendations

Estimates

Walls

Description of Existing Systems

Recommendations

Estimates

Windows and Doors

Description of Existing Systems

Recommendations

Estimates

Interior Overview

Description of Existing Systems

Recommendations

Estimates

Interior Doors and Glazing

Description

Code Deficiencies

Recommendations

Estimates

Interior Finishes and Casework

Description

Code Deficiencies

Recommendations

Estimates

Structural Overview

Synopsis

Superstructure System

Description of Existing Systems

Code Deficiencies

Recommendations and Estimates

Foundation System

Description of Existing Systems

Recommendations and Estimates

Mechanical Overview

Synopsis

Plumbing Systems

Description of Existing Systems

Code Deficiencies

Recommended Action

Estimate

Fire Protection Systems

Description of Existing Systems

Code Deficiencies

Recommendation Action

Estimate

Heating Systems

Description of Existing Systems

Code Deficiencies

Recommended Action

Estimate

Ventilation Systems

Description of Existing Systems

Code Deficiencies

Recommendations

Estimate

Control Systems

Description of Existing Systems

Recommendations

Estimate

Electrical Overview

Synopsis

Power Distribution System

Description of Existing Systems

Code Deficiencies

Recommendations and Estimates

Wiring and Devices

Description of Existing Systems

Code Deficiencies

Recommendations and Estimates

Lighting System

Description of Existing Systems

Interior

Exterior

Lighting Controls

Recommendations and Estimates

Telecommunications and Data Systems

Description of Existing Systems

Recommendations and Estimates

Fire Alarm Systems

Description of Existing Systems

Code Deficiencies

Recommendations and Estimates

Intercom, Master Clock, Bell Systems

Description of Existing Systems

Recommendations and Estimates

Television Distribution Systems

Description of Existing Systems

Recommendations and Estimates

Security Systems

Description of Existing Systems

Recommendations and Estimates

State of Alaska **Department of Education & Early Development**
Bond Reimbursement & Grant Review Committee

By: Tim Mearig
Facilities Manager

Phone: 465-6906

For: Bond Reimbursement & Grant Review Committee

Date: November 18, 2019

File: G:\SF Facilities\BR_GRCom\Papers\Publications\Cost Format\Cost Format BP_2019-Dec.docx

Subject: DEED Cost Format

B R I E F I N G P A P E R

Background

The *DEED Cost Format* was developed and first published in 2000. The goal of the document was to create a standardized cost estimate format for all school capital project with state-aid. This standardized cost estimate was to serve the purpose of enhancing the department's ability to evaluate capital projects for cost-effectiveness (see Attachment 1—a document from 1998). The estimating format established in the document was loosely based on the UNIFORMAT—an elemental cost format developed jointly by GSA and the AIA in the mid-1970s. Another influence was the UNIFORMAT II—an ASTM standard (E1557) approved in 1993. The DEED version was customized by the department to best fit systems and components in Alaska schools. One significant revision was to move Site Work—found following the building system elements in most structures—and make it the initial system in the format. The alignment of Site Work at this location was supported by the CSI MasterFormat which, in its 16 division specification format, placed Site Work as Division 2. [Note: the current 50-division CSI Masterformat was not released until 2004.]

The Cost Format was updated by the department in 2008. The current edition available on the department's website (education.alaska.gov/facilities/facilitiescostformat). The update, which included at least some outreach to the state's most active cost estimating firms, was significant. Where the original document consisted of an MSExcel file with 11 worksheets, the 2008 update, also Excel based, had 57 worksheets—one for each of 53 estimating categories and four administrative pages. It provided not only an estimate structure but also a page and content format. The record shows that the updated Cost Format was released in July 2008. Interestingly, there doesn't appear to be any record of the publication coming before the BR&GR Committee for review or assistance. One possible explanation for this is that the Cost Format wasn't a traditional 'publication'. As mentioned earlier, if the 2000 version Excel file had been printed, it would have consisted of only 6 pages front and back. In addition to the extensive document reformatting, the 2008 update developed a new element titled Existing Conditions, and moved Site Work to the end of the structure under the title Site and Infrastructure. Both of these changes were intended to align the format's structure with the 2004 CSI's MasterFormat resulting in an odd combination of elemental and work-breakdown cost structures.

Although it never made it into the published Cost Format file, a tabulation of "EED-Notes" was prepared by Sam Kito, then Facilities Manager, that has been helpful (Attachment 2). One line from these notes has been troubling:

> *Firstly, all information gathering data has been eliminated from the current format. This took the estimators time and effort for information that was no longer needed.*

This appears to be a reference regarding the intent of the department (outlined in the legacy 1998 document referenced earlier) to gather cost/Element, cost/GSF, the element cost percentage of the total cost. An example of how this worked is at Attachment 3. The phrase "no longer needed" is relative. Following its initial release in 2000, requirement for use of the Cost Format soon made its way into project agreements for grant and debt funded projects. It has been used—in both the original and revised versions—extensively on projects with state aid over the past 19 years. Immediately after issuing the original Cost Format, the department created the ProjectCost database. The database was populated with the results of Cost Format estimates from nine school capital projects during the 2000-2003 time frame. A staff change occurred in early 2003 and work on the database—essentially the capture of Cost Format estimates for every major project funded with state aid—ceased. That cessation eventually morphed to 'no longer needed'.

Options

The department seeks committee input to confirm direction for an update to the *DEED Cost Format [2008 Ed.]*.

Option 1

It's fair to say that the *DEED Cost Format*, with the exception of providing a general uniformity to estimates received and reviewed by the department as part of project delivery, is not used. Useful, but not used for any particular purpose. If the department had no need for additional costing information in the development of cost-effective school construction standards—beyond that currently available—there would be no particular need to update this standard.

Option 2

This option acknowledges the original full purpose and intent of the Cost Format and proposes to reintroduce the estimate format identified in the 2000 version. The format would also be updated with any needed revisions in specific building elements to best conform to current systems and construction used in 2020. A benefit of this option would be the alignment with existing ProjectCost database and the possibility of adding data to that database for use in cost control and cost analysis.

Option 3

The Cost Format has become a reference point in much of the department's work in areas of construction standards, design ratios, and commissioning—all under the mandate of AS 14.11.017(d). This option would initiate a review of elemental classifications and determine whether the department should keep its custom format or adopt, more holistically, an industry standard. Depending on the outcome, the department would move to either Option 2 or pursue the option of a significant update—along with any update needed to its ProjectCost database.

Recommendation(s)

The Facilities Section proposes moving through each of these options, as needed, in the following sequence:

Option 1 – Evaluate this option as part of this December 4 meeting. If Option 1 is not recommended by the Committee, move to Option 3.

Option 3 – Evaluate the need for a revised/updated elemental classification structure. This will include a future Briefing Paper with recommendations regarding an appropriate elemental classification for use not only in the Cost Format but in other department guidance and standards. If after further analysis, a customized structure remains most beneficial, move to Option 2.

Option 2 – Prepare an updated publication, seek committee and public comment, finalize document and publish.

IMPLEMENTATION OF UNIFORMAT AND VALUE ANALYSIS

In an effort to minimize construction costs, better understand design implications, and achieve the best value for school facility monies the Department of Education proposes the use of Uniformat and Value Analysis as management tools to reach these goals. Implementation of these cost control tools will enable the Department of Education to develop construction and design standards to be applied to future facilities, as well as analyze present project designs for possible cost savings.

UNIFORMAT-A categorization of building system components that organizes the construction costs by building system rather than CSI division

A. Why Uniformat?
   1. Categorizes elements of building construction by system
      a. Foundations
      b. Substructure
      c. Superstructure
      d. Exterior Closure
      e. Roofing
      f. Interiors
      g. Conveyances
      h. Mechanical
      i. Electrical
      j. General Requirements
      k. Equipment
      l. Sitework
   2. Facilitates comparisons with historical costs and other projects
   3. Facilitates value analysis by segregating building component costs

B. How will the Department of Education utilize Uniformat?
   1. Construction estimates through Design Development will be prepared by Uniformat building system format rather than by CSI division format.
   2. Perform evaluation of construction cost estimates on a building system basis by comparison with comparable projects.
   3. Project costs will be evaluated on Uniformat element basis as well as a total cost per gross square foot basis.
      a. Foundations – cost/foot print area and cost/gross square foot
      b. Substructure – cost/foot print area and cost/gross square foot
      c. Superstructure – cost/foot print area and cost/gross square foot
      d. Exterior Closure – cost/gross square foot and cost/sf of exterior wall
      e. Roofing – cost/foot print area and cost/roof area

f. Interiors – cost/gross square foot
g. Conveyances – cost/gross square foot
h. Mechanical – cost/gross square foot
i. Electrical – cost/gross square foot
j. General Requirements – cost/gross square foot and % of construction cost
k. Equipment – cost/gross square foot and % of construction cost
l. Sitework- cost/acre, cost/gross square foot, and % of construction cost

4. Identify building systems that are not cost effective and focus efforts for cost cutting measures on these building systems.
5. Provide cost feedback to districts based on Uniformat evaluation of project design.
6. Provide cost savings suggestions to districts based on Uniformat evaluation of project design.
7. Establish historical building costs based on Uniformat building systems.

I. VALUE ANALYSIS – Analysis of building systems that define value in terms of life cycle cost, performance, quality, reliability, and safety.

A. Why perform value analysis?

1. To ensure that the State of Alaska and the localities receive the best value for the monies spent.

B. How will the Department of Education utilize value analysis?

1. Perform Uniformat cost evaluation on schematic and design development cost estimates.
2. Target building systems that are not cost effective and propose alternate systems.
3. Establish “Minimum Life” design criteria for new and renovated facilities.
   a. Are all Alaskan school facilities to have the same “Minimum Life”?
   b. Are high mobilization costs for remote site construction justification for higher “Minimum Life”?
   c. Are harsh climatic conditions in some areas justification for lower “Minimum Life”?
4. Perform Life Cycle Analysis on proposed building systems to determine long term cost of a building system.
   a. Initial construction cost.
   b.
5. Perform building design efficiency evaluation to ensure maximum economy in building layout.
   a. Analyze ratio of exterior wall sf to gross square footage.

b. Analyze the percentage of gross square footage that is used as circulation space.
c. Analyze ratio of exterior doors to gross square footage.
d. Analyze ratio of interior doors to gross square footage.
e. Analyze ratio of interior partition square footage to gross square footage.
f. Analyze design for use of back to back plumbing fixtures, thus reducing waste and vent piping.
g. Analyze ratio of pounds of ductwork to gross square footage.

HMS Project No. 08067

NOTES REGARDING THE NEW EED COST ESTIMATING FORMAT

The approach taken is to maintain as much of the existing cost estimating uniform at currently used by EED for information gathering formally to assist with the demand cost model cost files. With the addition of incorporating the new Construction Specification Institute (CSI) MasterFormat 2004 Edition elements and structure as is possible.

Firstly, all information gathering data has been eliminated from the current format. This took the estimators time and effort for information that was no longer needed. The uniform at estimating elemental listings has been kept, as this is considered to be a more efficient format for early estimating levels (concept, schematic and design development) than the CSI Specifications format.

Changes to the format:

1. Element 01 is now 'Existing Conditions', similar to the CSI format being the first measurable item to be used for demolition and site preparation costs.

2. Elements 02 through 12, slight modifications to otherwise unchanged elements and sub-elements. For more information see 'Element Description' in this report.

3. Element 13 'Site and Infrastructures' here again to line up with the new CSI format, which separates costs for site work from building costs and will offer easier checking possibilities, building cost project to project without the distortion of site and infrastructures cost that can vary so much in Alaska.

Construction Estimate Summary

School District: Lower Yukon
Project Name: Kotlik K-12
Design Phase: 100% Construction Document
EED Project #: 01-004 Project GSF: 39,807 SF

Code	Building System	Quantity	Unit	Labor	Material	Total	$/Unit	$/GSF	%
01	**SITE**	**7**	**ACRE**	**$0**	**$0**	**$1,896,870**	**$270,209**	**$47.65**	**11.93%**
011	Site Preparation	22,151	SSSF			$244,920	$11.06	$6.15	1.54%
012	Earthwork	3,350	EWCY			$322,584	$96.29	$8.10	2.03%
013	Site Improvements	38,823	SISF			$640,846	$16.51	$16.10	4.03%
014	Site Structures	2,464	STSF			$94,427	$38.32	$2.37	0.59%
015	Civil/Mechanical Utilities	4,903	CMLF			$460,761	$93.98	$11.57	2.90%
016	Site Electrical	15,200	SELF			$133,332	$8.77	$3.35	0.84%
017	Off-Site Work	0	OWLS			$0			
02	**SUBSTRUCTURE**	**38,059**	**TFSF**	**$0**	**$0**	**$662,055**	**$17.40**	**$16.63**	**4.16%**
021	Standard Foundations		FSF			$0			
022	Slab on Grade		SLSF			$0			
023	Basements		BSF			$0			
024	Special Foundations	38,059	SFSF			$662,055	$17.40	$16.63	4.16%
03	**SUPERSTRUCTURE**	**79,053**	**SSF**	**$0**	**$0**	**$1,288,489**	**$16.30**	**$32.37**	**8.10%**
031	Floor Structure	39,807	FSSF			$479,305	$12.04	$12.04	3.01%
032	Roof Structure	39,246	RSSF			$798,890	$20.36	$20.07	5.02%
033	Stairs	2	FLT			$10,294	$5,147	$0.26	0.06%
04	**EXTERIOR CLOSURE**	**33,352**	**ECSF**	**$0**	**$0**	**$1,012,681**	**$30.36**	**$25.44**	**6.37%**
041	Exterior Walls	31,585	EWSF			$909,376	$28.79	$22.84	5.72%
042	Exterior Glazing	1,473	EGSF			$78,129	$53.04	$1.96	0.49%
043	Exterior Doors	14	EDLF			$25,176	$1,798	$0.63	0.16%
044	Exterior Accessories	0	EASF			$0			
05	**ROOF SYSTEMS**	**39,246**	**RSF**	**$0**	**$0**	**$136,748**	**$3.48**	**$3.44**	**0.86%**
051	Pitched Roof	39,246	PSSF			$136,748	$3.48	$3.44	0.86%
052	Flat Roof	0	FRSF			$0			
053	Roof Accessories	0	RASF			$0			

Construction Estimate Summary

School District:
Project Name:
Design Phase:
EED Project #: 01-004 Project GSF: 39,807 SF

Code	Building System	Quantity	Unit	Labor	Material	Total	$/Unit	$/GSF	%
06	**INTERIORS**	**52,614**	**PSF**	**$0**	**$0**	**$1,353,017**	**$25.72**	**$33.99**	**8.51%**
061	Partitions/Soffits	52,171	PSSF			$389,872	$7.47	$9.79	2.45%
062	Special Partitions	443	SPSF			$14,301	$32.28	$0.36	0.09%
063	Interior Doors	93	IDLF			$141,686	$1,524	$3.56	0.89%
064	Interior Finishes	161,611	IFSF			$488,131	$3.02	$12.26	3.07%
065	Interior Fixed Furnishings	39,807	GSF			$319,027	$8.01	$8.01	2.01%
07	**CONVEYORS**	**0**	**CEA**	**$0**	**$0**	**$0**			
071	Passenger Conveyors	0	STOP			$0			
072	Material Handling Systems	0	MHEA			$0			
08	**MECHANICAL**	**12,830**	**MPLF**	**$0**	**$0**	**$1,581,859**	**$123.29**	**$39.74**	**9.95%**
081	Plumbing	92	PFXT			$326,714	$3,551	$8.21	2.05%
082	HVAC	55,595	CFM			$1,038,070	$18.67	$26.08	6.53%
083	Fire Protection	39,267	FPSF			$206,705	$5.26	$5.19	1.30%
084	Special Mechanical Systems	5	SMPT			$10,370	$2,074.00	$0.26	0.07%
09	**ELECTRICAL**	**950**	**TAMP**	**$0**	**$0**	**$884,671**	**$931.23**	**$22.22**	**5.56%**
091	Service and Distribution	800	SAMP			$169,364	$212	$4.25	1.06%
092	Lighting	602	LFXT			$241,718	$402	$6.07	1.52%
093	Power	778	PDEA			$186,035	$239.12	$4.67	1.17%
094	Special Systems	450	SEPT			$205,067	$455.70	$5.15	1.29%
095	Other Electrical Systems	150	EAMP			$82,487	$549.91	$2.07	0.52%
10	**EQUIPMENT AND FURNISHINGS**	**684**	**EFEA**	**$0**	**$0**	**$230,285**	**$336.67**	**$5.79**	**1.45%**
101	Equipment	350	EQEA			$221,384	$632.53	$5.56	1.39%
102	Furnishings	334	FEA			$8,901	$26.65	$0.22	0.06%

Construction Estimate Summary

School District: Lower Yukon
Project Name: Kotlik K-12
Design Phase: 100% Construction Document
EED Project #: 01-004 Project GSF: 39,807 SF

Code	Building System	Quantity	Unit	Labor	Material	Total	$/Unit	$/GSF	%
11	**SPECIAL CONDITIONS**	**3,850**	**SSF**	**$0**	**$0**	**$23,210**	**$6.03**	**$0.58**	**0.15%**
111	Special Construction	0	SCSF			$0			
112	Building Selected Demolition	3,850	SDSF			$23,210	$6.03	$0.58	0.15%
SUBTOTAL DIRECT CONST. COST		**39,807**	**GSF**	**$0**	**$0**	**$9,069,885**	**$227.85**	**$227.85**	**57.02%**
12	**GENERAL CONDITIONS**	**21**	**MO**	**$0**	**$0**	**$6,538,932**	**$311,378**	**$164.27**	**41.11%**
121	Mobilization and Demobilization	3,255	TONS			$2,410,305	$740	$60.55	15.15%
122	Site Staff	21	MO			$527,000	$25,095	$13.24	3.31%
123	Temporary Construction	21	MO			$156,900	$7,471	$3.94	0.99%
124	Equipment and Tools	21	MO			$166,350	$7,921	$4.18	1.05%
125	Miscellaneous	21	MO			$47,605	$2,267	$1.20	0.30%
126	Labor Employment Costs	8,175	DAYS			$1,408,420	$172	$35.38	8.86%
127	Mark-Ups	$9,069,885	$DC			$1,822,352	20.09%	$45.78	11.46%
SUBTOTAL PROJECT COSTS			**MO**	**$0**	**$0**	**$6,538,932**	**#DIV/0!**	**$164.27**	**41.11%**
13	**CONTINGENCIES**	**$15,608,817**	**$TPC**	**$0**	**$0**	**$296,366**	**$0**	**$7.45**	**1.86%**
131	Estimate Contingency	$15,608,817	$TPC			$100,000	$0	$2.51	0.63%
132	Escalation Continency	$15,608,817	$TPC			$196,366	$0	$4.93	1.23%
TOTAL CONSTRUCTION COST		**39,807**	**GSF**	**$0**	**$0**	**$15,905,183**	**$399.56**	**$399.56**	**100.00%**

State of Alaska **Department of Education & Early Development**
Bond Reimbursement & Grant Review Committee

ASHRAE 90.1-2016 Update

R E G U L A T I O N U P D A T E

December 4, 2019

Issue

Informational item to update the committee on the status of the energy efficiency standard recommendation. No action needed by BRGR,

Background

Last Updated/Current Edition
Based on a recommendation by the BRGR Committee, the department amended 4 AAC 31.014 (codes and regulation for school facilities) in 2013 to include "(7) energy efficiency code, consisting of the American Association of Heating, Refrigeration, and Air Conditioning Engineers (ASHRAE) Standard 90.1, Energy Standard for Buildings Except Low-Rise Residential Buildings, (2010 Edition), and adopted by reference."

Summary of Proposed Changes
The BRGR Committee made a motion at the September 5, 2019 meeting to recommend that department amend the regulation to update the energy standard to the ASHRAE Standard 90.1 2016 Edition. The attached draft regulation is a straightforward change.

Timeline

The department anticipates the attached regulation to go before the State Board of Education and Early Development in its regular quarterly meeting on March 25-26, 2020. It is anticipated that the SBOE will put the regulation out for public comment following that meeting. Consideration of the public comments and the motion to adopt the regulations would occur at the next regular quarterly meeting on Jun 10-11, 2020.

4 AAC 31.014(a) is amended to read:

(a) The chief school administrator shall assure that a new school facility, addition, or major renovation complies with applicable facility codes and regulations of the state and with those of the municipality in which the facility is located. The chief school administrator may meet the obligation by providing documentation from the appropriate state or municipal official that the facility, addition, or renovation complies with an applicable code or regulation. For purposes of this subsection, the applicable codes and regulations of the state with which facilities, additions, or renovations must comply are the

(1) building code, adopted by 13 AAC 50.020;

(2) electrical code, adopted by 8 AAC 70.025;

(3) plumbing code, adopted by AS 18.60.705(a);

(4) mechanical code, adopted by 13 AAC 50.023;

(5) ASME Boiler and Pressure Vessel Code, adopted by 8 AAC 80.010;

(6) fire code, adopted by 13 AAC 50.025; and

(7) energy efficiency code, consisting of the American Association of Heating, Refrigeration, and Air Conditioning Engineers (ASHRAE) Standard 90.1, Energy Standard for Buildings Except Low-Rise Residential Buildings, [(2010 EDITION)] **(2016 Edition)**, and adopted by reference. (Eff. 4/17/98, Register 146; am 6/17/2010, Register 194; am 6/14/2013, Register 206; am __/__/___, Register: ___)

Authority: AS 14.07.020

Department of Education & Early Development
Division of Finance & Support Services/Facilities

Work Topics for the BR & GR Committee

As Of: ~~July 18, 2019~~December 4, 2019

BR&GR 2019-2020 Work Items	Responsibility	Due Date
1. CIP Grant Priority Review – [(b)(1)]		
1.1. FY21 MM & SC Grant Fund Final Lists (4 AAC 31.022(a)(2)(B))	Committee	Mar 2020
1.2. FY21 MM & SC Grant Fund Initial List	Committee	Dec 2019
2. Grant & Debt Reimbursement Project Recommendations – [(b)(2)]		
2.1. Six-year Capital Plan (14.11.013(a)(1); 4 AAC 31.022(2))	Dept	Annually, Nov
3. Construction Standards for Cost-effective Construction – [(b)(3)]		
3.1. Model School Costs (DEED Cost Model)		
3.1.1. Geographic Cost Adjustments		Aug 18-Jul 19
3.1.1.1. Prepare Statement Of Services (complete)	Dept	Sep 2018
3.1.1.2. Solicit, Award And Manage Contract (complete)	Dept	Dec 2018
3.1.1.3. Review Public Comment (complete)	Dept	Feb 2019
3.1.1.4. Finalize to Incorporate Comments	Dept	Sep 2019
3.1.2. Cost Model Enhancements (site work + MM items)		Oct 18-Jun 19
3.1.2.1. Prepare Statement Of Services (complete)	Subcommittee	Oct 2018
3.1.2.2. Solicit, Award, Manage Contract (complete)	Dept	Jun 2019
3.1.3. Model School Analysis & Updates (Allowable Elements)		Apr-May 19
3.1.3.1. Establish Procedures For Updating The Model School	Subcommittee	Jun 2019
3.1.3.2. Implement Model School Updates W/Committee Resource	Committee	Apr 2019
3.1.3.3. Evaluate Success Of Committee-Driven Updates	Subcommittee	Aug 2019
3.1.3.4. Develop Statement Of Services For Consultant Update	Subcommittee	Dec 2019
3.1.3.5. Solicit, Award, And Manage Model School Update	Dept	Apr 2020
3.2. Cost Standards		
3.2.1. Cost Model As Cost Control Tool		May 18-Dec 20
3.2.1.1. Analyze, Recommend Cost Model As Cost Control	Dept	Dec 2019
3.2.1.2. Draft Regulation Language For Cost Control Use	Dept	Jan 2020
3.2.1.3. Review Draft Reg Language, Recommend To State Board	Commmittee	Apr 2020
3.2.1.4. Manage Regulation Development And Implementation	Dept	Dec 2020
3.2.2. Cost/Benefit, Cost Effectiveness Guidelines	Dept	TBD
3.2.3. Life Cycle Cost Guidelines	Dept	TBD
3.3. Commissioning	Committee	2018
3.3.1. Project Categories Requiring Commissioning	Committee	2018
3.3.1.1. SBOE Action on Regulation (complete)	Dept	Feb 2019
3.3.2. Commissioning Agent Qualifications	Committee	Jul 2018
3.3.2.1. SBOE Action on Regulation	Dept	Feb 2019
3.3.2.2. Recommend Approved Credentialing Organizations	Subcommittee	Aug 2019
3.3.2.3. Propose Approved Credential Organizations	Committee	~~Sep~~Dec 2019
3.3.3. System Requirements for Commissioning	Committee	2018
3.3.3.1. Finalize 5-System Scoping Requirements	Subcommittee	Sep 2019
3.3.3.2. Committee Approval for Handbook	Committee	Dec 2019
3.4. Model School Building Systems Standards		
3.4.1. State Building Systems Standards		Mar 19- Dec 20
3.4.1.1. Cost Format Outline of System Standards (complete)	Dept	May 2019
3.4.1.2. Review Outline Model School System Standards (complete)	Committee	May 2019
3.4.1.3. Develop Services For Feasibility Analysis (complete)	Subcommittee	May 2019
3.4.1.4. Solicit, Award, Manage Feasibility & Cost/Benefit Analysis	Dept	Jun 2019
3.4.1.5. Review Feasibility Report On Comprehensive Standards	Subcommittee	Jul 19-Sep 19
3.4.1.6. Recommendation on Standards Development	Subcommittee	Sep 2019
3.4.1.7. Solicit, Award, Manage Final Standards Development	Dept	Jun 2020
3.4.1.8. Implement System Standards Via Regulation As Needed	Dept	Dec 2020
3.4.1.9. Coordinate with A4LE to maintain model school standards	Biennially	
3.4.2. School District Building Systems	Dept	TBD

3.5. Design Ratios		
3.5.1. Climate Zones		Aug-Nov 18
3.5.1.1. Confirm Availability of BEES for use in Design Ratios	Subcommittee	Aug 2018
3.5.1.2. Compare use of BEES vs. ASHRAE; are regs needed	Subcommittee	Sep 2018
3.5.1.3. Recommend Regulation To State Board	Committee	Jun 2019
3.5.1.4. Manage Regulation Development And Implementation	Dept	Dec 2019
3.5.2. Baseline Design Ratios [(O:EW), (FPA:GSF), (V:NSF), and (V:ES)]		Sep 18-Jun 20
3.5.2.1. Prepare Statement Of Services For Energy Modeling	Subcommittee	Jan 2019
3.5.2.2. Compare Existing School Ratios And Energy Use	Subcommittee	Jan 2019
3.5.2.3. Solicit, Award, Manage Energy/Cost Analysis	Dept	Jun 2019
3.5.2.4. Recommendations on Ratios	Subcommittee	Jun 19-Sep 19
3.5.2.5. Manage Regulation Development And Implementation	Dept	Dec 19-Jun 20
4. Prototypical Design Analysis – [(b)(4)]		
4.1. Seek Peer Consensus on Reuse of School Plans and Systems		
4.1.1. Develop and Schedule AEC Peer Workshop on Reuse	Committee	TBD
4.1.2. Update Aug 4, 2004 Committee Position Paper	Committee	TBD
4.2. Codify Regulations As Needed for Reuse of Plans/Systems Policy		
4.2.1. Make Recommendations to State Board on Prototypes	Committee	July 2020
4.2.2. Manage Regulation Development and Implementation	Dept	Sep 2019
5. CIP Grant Application & Ranking – [(b)(5) & (6)]		
5.1. FY21 CIP Briefing – Issues and Clarifications	Dept	Dec 2019
5.2. FY22 CIP Draft Application & Instructions	Dept	Apr 2020
5.2.1. Facility Condition Survey Minimum Standards	Dept	Dec 2019
5.2.2. Life Safety/Protection of Structure/Code Deficiency Matrix Review	Cmte	Jan 2020
5.2.3. Emergency Rater Scoring Matrix	Dept	TBD
5.2.4. Priority Weighting Factors Review	Dept	TBD
5.3. FY22 CIP Final Application & Instructions	Committee	Apr 2020
6. CIP Approval Process Recommendations – [(b)(7)]		
6.1. Publication Updates		
6.1.1. Program Demand Cost Model for Alaskan Schools	Dept	Annually, May
6.1.2. Alaska School Facilities Preventive Maintenance Handbook Final	Dept	Aug 2020
Alaska School Facilities Preventive Maintenance Handbook Final	Committee	Sep 2020
6.1.3. Guide for School Facility Condition Surveys - Initial	Dept	Sep 2019
Guide for School Facility Condition Surveys - Final	Committee	Dec 2019
6.1.4. Cost Format - Initial	Dept	Dec 2019
Cost Format – Final	Dept	July 2020
~~6.1.4.~~6.1.5. Site Selection Criteria and		
Evaluation Handbook – Initial	Dept	Jan 2021
Site Selection Criteria and Evaluation Handbook – Final	Committee	May 2021
6.2. New Publications		
6.3. Regulations		
6.3.1. Cost Model as Cost Control Tool (see item 3.1.3)	Dept (w/Cmte)	
6.3.1.1. Draft Regulation	Dept (w/Cmte)	Jun 2019
6.3.1.2. SBOE Public Comment on Regulation	Dept	Sep 2019
6.3.1.3. Review Public Comments from SBOE Comment Period	Committee	Nov 2019
6.3.2. Baseline Design Ratios (see item 3.5.2)	Dept (w/Cmte)	
6.3.2.1. Draft Regulation	Dept (w/Cmte)	Sep 2019
6.3.2.2. SBOE Public Comment on Regulation	Dept	Dec 2019
6.3.2.3. Review Public Comments from SBOE Comment Period	Committee	Jan 2020
6.3.3. Reuse of School Plans and Systems (see item 4.2)	Dept (w/Cmte)	
6.3.3.1. Draft Regulation	Dept (w/Cmte)	Sep 2020
6.3.3.2. SBOE Public Comment on Regulation	Dept	Dec 2020
6.3.3.3. Review Public Comments from SBOE Comment Period	Committee	Jan 2021

7. Energy Efficiency Standards – [(b)(8)]

7.1. ASHRAE 90.1		
7.1.1. DEED Checklist		Jan – Jun 19
7.1.1.1. Develop DEED Specific Review Checklist	Dept	Apr 2019
7.1.1.2. Review Checklist for Public Comment	Committee	Apr 2019
7.1.1.3. Review Public Comment/Finalize Checklist	Dept (w/Cmte)	Jul 2019
7.1.1.4. Implement Checklist in New Project Agreements	Dept	Aug 2019
7.1.1.5. Add Appendix to *Project Admin Handbook*?	Dept	Sep 2019
7.1.2. Standards Updates		
7.1.2.1. Evaluate ASHRAE 90.1-2013 for adoption	Dept	Sep 2019
7.1.2.2. Draft Regulations, if warranted	Dept (w/Cmte)	Dec 2019
7.1.2.3. Review Public Comment from SBOE Comment Period	Committee	Apr 2020

Projected Meeting Dates

~~September 5, 2019 (Teleconference), 2:00 – 4:00p~~
~~December 4, 2019 (Anchorage-TBD), Full day, CIP~~
January 23, 2020 (Teleconference), 2:00 – 4:00p, Life Safety Scoring Matrix
April 14-15 *OR* 15-16, 2020 (Juneau), Full day, CIP Application

Department of Education & Early Development
Division of Finance & Support Services/Facilities

Work Topics for the BR & GR Committee
AS 14.11.014
Updated: 12/19/17

BR&GR Work Items – Master List	Responsibility	Due Date
1. CIP Grant Priority Review – [(b)(1)]		
1.1. FYXX MM & SC Grant Fund Initial Lists (4 AAC 31.022(a)(2)(B))	Committee	Annually
1.2. FYXX MM & SC Grant Fund Reconsideration Lists	Committee	TBD
1.3. FYXX MM & SC Grant Fund Final Lists	Committee	TBD
2. Grant & Debt Reimbursement Project Recommendations – [(b)(2)]		
2.1. Six-year Capital Plan (14.11.013(a)(3); 4 AAC 31.022(2)(A))	Dept	Annually
2.1.1. Statewide Inventory	Dept	TBD
2.1.2. Statewide Facility Appraisal	Dept	TBD
2.1.3. Statewide Condition Survey	Dept	TBD
2.1.4. Renewal & Replacement Database	Dept	TBD
2.1.5. Presentation by ASD on Facility Condition Indexing	Committee	TBD
2.2. School Capital Funding	Dept (w Cmte)	TBD
2.2.1. Review Process & Funding Streams for Rural & Urban Projects	Dept	TBD
2.3. State's Role in Design & Construction		
2.3.1. In Organized City/Boroughs	Dept	TBD
2.3.2. In REAAs	Dept	TBD
3. Construction Standards for Cost-effective Construction – [(b)(3)]		
3.1. DEED Cost Model	Dept	2018
3.1.1. Model School Analysis (Allowable Costs)	Commmittee	Annually, Apr
3.1.2. Site Work + Major Maintenance Line Items	Dept	TBD
3.2. Cost Standards	Dept	TBD
3.2.1. Cost/Benefit, Cost Effectiveness Guidelines	Dept	TBD
3.2.2. Life Cycle Cost Guidelines	Dept	TBD
3.3. Commissioning	Committee	2018
3.3.1. Project Categories Requiring Commissioning	Committee	2018
3.3.2. Commissioning Agent Qualifications	Committee	2018
3.3.3. System Requirements for Commissioning	Committee	2018
3.4. Materials/Systems Analysis	Committee	TBD
3.4.1. Model School Building Systems	Dept	2018
3.4.2. School District Building Systems	Dept	TBD
3.5. Design Ratios	Committee	TBD
3.5.1. Climate Zones	Committee	TBD
3.5.2. Opening to Exterior Wall	Committee	TBD
3.5.3. Footprint Area to Gross Square Feet	Committee	TBD
3.5.4. Building Volume to Net Floor Area	Committee	TBD
3.5.5. Building Volume to Exterior Surface Area	Committee	TBD
3.6. Construction	Committee	TBD
3.6.1. Construction Duration		
3.6.2. Value Analysis		
3.6.3. Component Use and Specifications		
4. Prototypical Design Analysis – [(b)(4)]		
4.1. SB87 – Amendments to 14.11.014(b)(4)	Committee	TBD

5. CIP Grant Application & Ranking – [(b)(5) & (6)]

5.1.	FYXX CIP Draft Application & Instructions (14.11.013)	Dept	Annually
5.2.	FYXX CIP Final Application & Instructions	Committee	Annually
5.3.	Separate School Construction and Major Maintenance Applications	Committee	
5.4.	Separate Grant and Debt Applications	Committee	2019
5.5.	Appendix D Update – Type of Space Added or Improved	Committee	2019
5.5.1.	New Classifications & Terminology		
5.6.	Expand Cond Survey Requirements Beyond Rehabilitations	Committee	2018
5.7.	Facility Condition Survey Minimum Standard	Dept (w Cmte)	2018
5.8.	Review Issues with "Primary Purpose" Designations		
5.8.1.	Playgrounds, Parking Lots, etc.		
5.9.	Rural Definition For Art (see Instructions, Appx C)	Committee	TBD
5.10.	Space Allocation Issues (4 AAC 31.020(c))	Committee	TBD
5.10.1.	Career Tech		
5.10.2.	Resource Rooms and Special Ed		
5.10.3.	Space Related to Security		
5.10.4.	Net vs. Gross		
5.10.5.	Electrical/Mechanical Space		
5.10.6.	Storage in Remote Areas		
5.10.7.	"Found Space" (cost-effectiveness test)		
5.10.8.	Replacement Schools Clarifications		
5.10.9.	Non-school Facilities		
5.10.10.	Educational Adequacy/Space Increase		
5.10.11.	Community Use Space		
5.10.12.	Pre-school		
5.10.13.	Out-of-District Enrollment (vocational/charters, etc.)		
5.10.14.	Second Attendance Area Schools		
5.10.15.	Enrollment Projection Models		
5.10.16.	Standard Gym Size		
~~5.10.16.~~5.10.17.	Projected Unhoused (environmental/erosion timeline)		
5.11.	Rater's Guide Matrices		
5.11.1.	Life Safety/Code/Protection of Structure Matrix	Dept (w/Cmte)	Mar 2018
5.11.2.	Emergency Points Matrix	Dept (w/Cmte)	TBD
5.12.	Scoring Category & Weighting Factors		
5.12.1.	Weighting for Maintenance	Dept (w/Cmte)	TBD
5.12.2.	Weighting for Type of Space	Dept (w/Cmte)	TBD
5.12.3.	Weighting for Emergency	Dept (w/Cmte)	TBD
5.12.4.	Weighting for Life Safety/Code	Dept (w/Cmte)	TBD

6. CIP Approval Process Recommendations – [(b)(7)]

6.1.	Publication Updates (4 AAC 31.020(a))		
6.1.1.	Program Demand Cost Model for Alaskan Schools	Dept	Annually
6.1.2.	Capital Project Administration Handbook	Dept	2022
6.1.3.	Alaska School Facilities Preventive Maintenance. Handbook	Dept (w Cmte)	2018
6.1.4.	Project Delivery Method Handbook	Dept	2022
6.1.5.	Cost Format – *EED Standard Construction Cost Estimate*	Dept	2018
6.1.6.	Space Guidelines Handbook	Dept (w Cmte)	TBD
6.1.7.	Life Cycle Cost Analysis Handbook	Dept (w Cmte)	2018
6.1.8.	Swimming Pool Guidelines	Dept (w Cmte)	2019
6.1.9.	Guide for School Facility Condition Surveys	Dept (w Cmte)	2019
6.1.10.	A Handbook to Writing Educational Specifications	Dept (w Cmte)	2020
6.1.11.	Site Selection Criteria and Evaluation Handbook	Dept	2020
6.1.12.	Facility Appraisal Guide	Dept	TBD
6.1.13.	Guidelines for School Equipment Purchases	Dept (w Cmte)	2021

6.2.	New Publications		
6.2.1.	*School Design & Construction Standards*	*Dept (w Cmte)*	*2018*
6.2.2.	Architectural and Engineering Services for School Facilities	Dept	2020
6.2.3.	Outdoor Facility Guidelines for Secondary Schools	Dept	TBD
6.2.4.	Renewal & Replacement Guideline	Dept	TBD
6.3.	Regulations		
6.3.1.	Commissioning Requirements	Dept (w Cmte)	2018
6.3.2.	CIP “Primary Purpose”	Dept (w Cmte)	TBD
6.3.3.	Facility “Clean-up” Reg Project	Dept (w/Cmte)	2018
6.4.	Online Application	Dept	TBD
6.5.	Database Review		
6.5.1.	Consolidate Into Single Database	Dept	TBD
6.5.2.	Coordination With Unity Project	Dept	TBD
6.5.3.	ADM By Grade Level	Dept (SERRC)	TBD

7. Energy Efficiency Standards – [(b)(8)]

7.1.	Reporting Requirements	Dept (w Cmte)	TBD
7.2.	Energy Modeling	Dept (w Cmte)	TBD

Bond Reimbursement and Grant Review Committee

As of: April 24, 2019

Member	Appointed	Re-appointed	Term Expires
Heidi Teshner — Chair Commissioner or Commissioner's Designee	Commissioner's Designee	--	--
Rep. Tammie Wilson House of Representatives Member	Appointed by Speaker	--	--
Sen. Cathy Giessel Senate Member	Appointed by President	--	--
Randy Williams Professional Degrees & Experience in School Construction	03/01/2019		02/28/2023
Dale Smythe Professional Degrees & Experience in School Construction	03/01/2017		02/28/2021
James Estes Experience in Urban or Rural School Facilities Management	03/01/2019		02/28/2023
William Glumac, appointed to fill vacancy Experience in Urban or Rural School Facilities Management	02/06/2019		02/28/2021
David Kingsland Public Representative	03/01/2019		02/28/2023
Don Hiley Public Representative	03/01/2017		02/28/2021

Members appointed by commissioner unless noted. See AS 14.11.014 and 4 AAC 31.087.