




MEMORANDUM

To: Mayor Westover and Members of the Assembly
Jim Dinley, Municipal Administrator

From: Michael Harmon, P.E. Public Works Director
Stephen Weatherman, P.E, Municipal Engineer 
Kelli Cropper, Project Manager 

cc: Jay Sweeney, Finance Director 
Tammy O'Neill, Contract Coordinator 

Date: January 4, 2012

Subject: Pacific High School Schematic Design Milestone

Background- Project History:

Contractual:

- The State of Alaska, Department of Education & Early Development (EED) approved a grant to the City of Sitka for the renovation of Pacific High School (PHS) with a funding split of 65% (\$1,736,502.00) from the State and 35% (\$935,056.00) from the City of Sitka (CBS) in July of 2009.
- In the regular election October 5, 2010, Proposition No. 5 approving the required \$935,056.00 CBS match funding for the renovation of Pacific High School from the proceeds from the seasonal 1% sales tax was approved by the voters.
- The Project Agreement for the renovation of Pacific High in the amount of \$2,671,558.00 between the EED and the CBS was signed in March of 2011.
- A 'Request for Qualification' (RFQ) for a 'Needs Assessment' and Professional Design Services for the Pacific High School Building was published by the CBS.
- The Consultant Team headed by the Architectural Firm, McCool Carlson and Green (MCG) was selected.
- Award of the Contract to MCG in the amount of \$220,215.00 for Professional Design Services for the Pacific High School Renovation was approved by the Assembly at the June 28, 2011 Assembly Meeting.

Process:

- July 2011 the Needs Assessment and Schematic Design Phase began with a two day site visit 'project kick off'. Meetings were held to organize and structure the Building Design Committee, define roles, and address preliminary educational programmatic issues. Day two included meeting with the full design team onsite at PHS, where they

were measuring, documenting, and evaluating the physical conditions of the Pacific High School Building.

- August 2011 the Building Design Committee (BDC) was formed from teachers, past students, community members, a School Board Member, and SSD/CBS staff.
- The Needs Assessment report was completed at the end of August.
- Meetings: September 2011 through early December 2011 six (6) Building Design Committee meetings, multiple student workshops, as well as multiple Educational Program mini-workshops were held.
- Multiple conceptual designs for the renovation of Pacific High School were developed by the Architects during the initial design process. These design options were developed from the comments and information shared by the BDC and students, along with the physical and budgetary parameters of the project. These options were evaluated, and refined through the multiple meetings until a consensus was reached and a preferred option was chosen.
- October 19, 2011 an advertised Evening Public Meeting was held to review the proposed schematic design for Pacific High School and receive any additional comments from the community before finalizing the preferred schematic plan for a professional cost estimate.
- November 2011 a Professional Cost Estimate was prepared for the preferred schematic design and it was over the construction budget for the project. The Architects modified the plan reducing the project scope to get the cost estimate within the construction budget.
- The Architects met with the Building Design Committee and presented the recommended design changes required by the project budget and collected feedback from the group resulting in additional plan modifications and a 'final' proposed schematic design with a cost estimate within the project construction budget.
- December 12, 2011 the proposed 35% or Schematic Design was presented to the School Board and it was unanimously approved.
- December 13, 2011 the proposed Pacific High School Schematic Design was presented to the Assembly and the Community.

Analysis:

The proposed schematic design for the renovation of Pacific High School is the direct result of the process described above. The plan responds to the needs expressed by the students and teachers, the users of the building, and to the project budgetary constraints.

The existing 5,000 square foot building cannot be expanded with the current grant funding (65%/35% split). For reasons that were expressed during the Workshops, the proposed plan uses the roof of the renovated building. First the usable space is important and needed and the connection to the Career Center is very important, because it allows for the Pacific High Kitchen to be relocated to the Career Center, thus freeing up much needed space inside Pacific High for educational purposes.

It is also the goal for the project to take advantage of every potential opportunity in making the limited space(s) 'work hard' or have multiple purposes. It is a goal to keep the building as flexible as possible for proposed uses and for future modifications and potential expansion.

The design phase between 35% and 65% is called 'Design Development'. This is the phase where the 35% schematic design is further developed and refined. Materials are chosen and cost estimates are once again prepared. This is the phase where a roofing system, as well as the structure is vetted. Each building is particular, to its use, size, and location. In this particular instance the right low slope roof/roof deck is the best design solution. Whatever roof system is eventually specified, it will be a proven product that we have vetted and it will perform as we require.

Fiscal Note:

The total funding for the Pacific High School Remodel Project is \$2,671,558.00 and is funded 65% by a grant of \$1,736,502.00 from the State of Alaska Department of Education & Early Development (EED) and by a 35% City of Sitka (CBS) match of \$935,056.00. The CBS match is from proceeds from the seasonal 1% sales tax, which was approved by the voters October 5, 2010, in the regular election. Currently the project is on budget.

Recommendation:

Approve the 35% Schematic Design to go forward through the 65% Design Development phase with the proposed low slope roof and roof deck.



Pacific High School Renewal

Project Update - Roof Alternates

Project Overview

Pacific High School (PHS) is Sitka's optional high school, serving grades 9-12. The school has a population of approximately 36 students and 6 staff.

PHS is located across from the harbor on Lincoln Street in a building constructed in 1957 which was remodeled in 1993 to create the current configuration. The building has significant structural, building systems and programmatic deficiencies which led the school to seek state funding for renewal.

In October 2010 the Sitka voters approved Proposition 5, to fund a State grant match to remodel PHS. This approval of funding allowed the School District to accept a grant from the Alaska Department of Education and Early Development (DEED). In March 2011 the Sitka School District, City of Sitka and DEED executed a grant agreement to fund 65% of the Pacific High School Renewal project.

Subsequently, McCool Carlson Green Architects (MCG) was selected to lead the building assessment and remodel design efforts. To date, MCG, their design team and the Building Design Committee have completed the following:

- Completed a building investigation to identify building deficiencies and recommend capital improvements. This report included design narratives, as-built drawings and a concept level cost estimate for renewal of the school.
- Formed a Building Design Committee consisting of school staff, students, parents, community representatives, City of Sitka project managers and the architects. This committee has held 6 meetings to review, critique and develop the current schematic design plans.
- Produced a 35% schematic level set of design drawings with several design alternates identified.
- Produced a schematic level cost estimate. This estimate was over budget and the design team thoroughly reviewed and qualified the estimate. Several adjustments to the design were made in consultation with the City of Sitka and the BDC to bring the project back within budget.
- Arrived at a consensus with the BDC on a schematic design that is within budget and meets the school's educational program needs while providing an efficient, durable community asset.

Project Update

On December 12, 2011 a 35% Schematic Design and Cost Estimate were presented to the Sitka School Board. The design was unanimously approved by the School Board to move forward through Design Development.



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On December 13, 2011 MCG presented the Pacific High School 35% design to the Assembly. The focus of this presentation was a project update and review of the estimated construction costs.

During the Dec. 13th meeting some concerns were raised by the Assembly regarding the proposed roof design which is a low-slope, ballasted roof accessible by stairs from within the school and useable as a deck or roof garden. The main concern being that a low-slope roof is not customary building practice in Sitka where the climate is one of the rainiest in the nation (86 in. annual rainfall).

Alternate Roof Designs

In response to these concerns the City and Borough of Sitka (CBS) directed MCG to investigate alternate designs eliminating the roof deck and incorporating a sloped metal roof.

One alternate design includes stair access into the attic space and a connection to the Voc-Ed building to the north.

The second alternate design does not include the stair or covered connection to the Voc-Ed building. This design would require PHS students and staff to walk outdoors up the existing sidewalks to access the neighboring building.

Ballasted Roof Precedents

CBS also directed MCG to further investigate the appropriateness of low-slope, ballasted roofs in Sitka's climate. A couple recent Alaskan precedents are worth noting:

- Juneau Transit Center, Juneau, AK (58 in. annual rainfall) - completed in 2010, this project features a low-slope ballasted roof featuring a 4" thick modular green roof.
- Mt. Eccles Elementary School Gym Addition, Cordova, AK (89 in. annual rainfall) - completed in 2010, this school features rubber playtile pavers to create an outdoor play area on the school roof. The roof insulation below the rubber tiles slopes to a gutter and drain on one edge of the roof.

Design Drawings

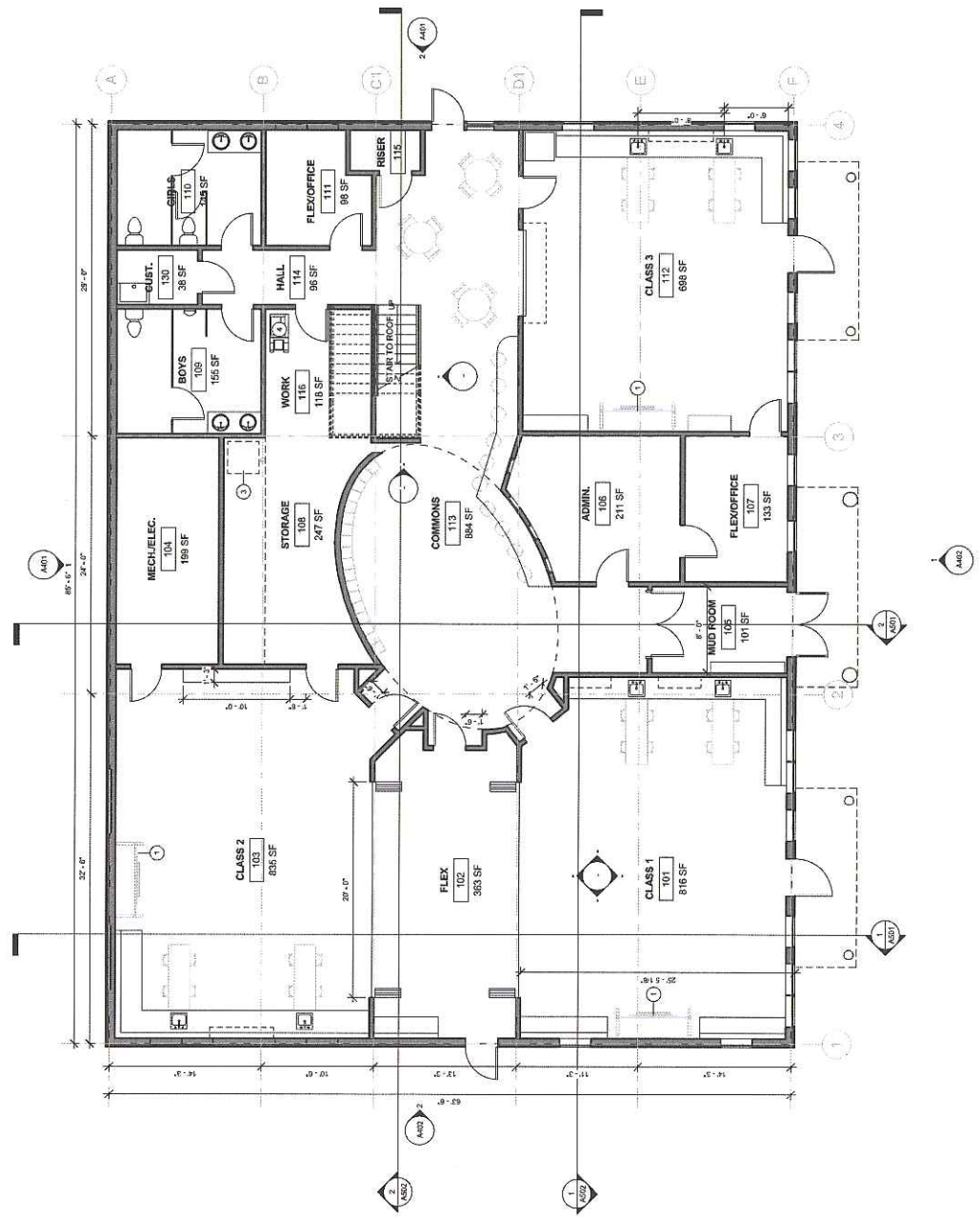
Please see the attached drawings illustrating the current 35% design with roof deck and the 2 alternate sloped roof designs.



Pacific High School Renewal - Schematic Design Rendering

GENERAL NOTES

- SHEET NOTES**
- 1 OWNER-SUPPLIED MOBILE INTERACTIVE BOARD; NOT IN CONTRACT
 - 2 N/A
 - 3 COMMONS BASKETBALLS RACK LOCATION; REFER TO ELECTRICAL
 - 4 COPIER/PRINTER BY OWNER
- PLAN LEGEND**
- 1 SHEET NOTE
- Room Name
 101 ROOM TAG WITH NAME, NUMBER, AND AREA
 150 SF



1 FLOOR PLAN
 3/16" = 1'-0"

DATE: 1-28-2012	REVISIONS:
DRAWN BY: Author	
PROJECT: Designer	
CHECKED BY:	
DATE: 2/1/2012	

MCCOOL CARLSON GREEN
ARCHITECTURE INTERIOR DESIGN SPACE PLANNING
501 FIRST AVENUE, ANCHORAGE, AK 99501-5014






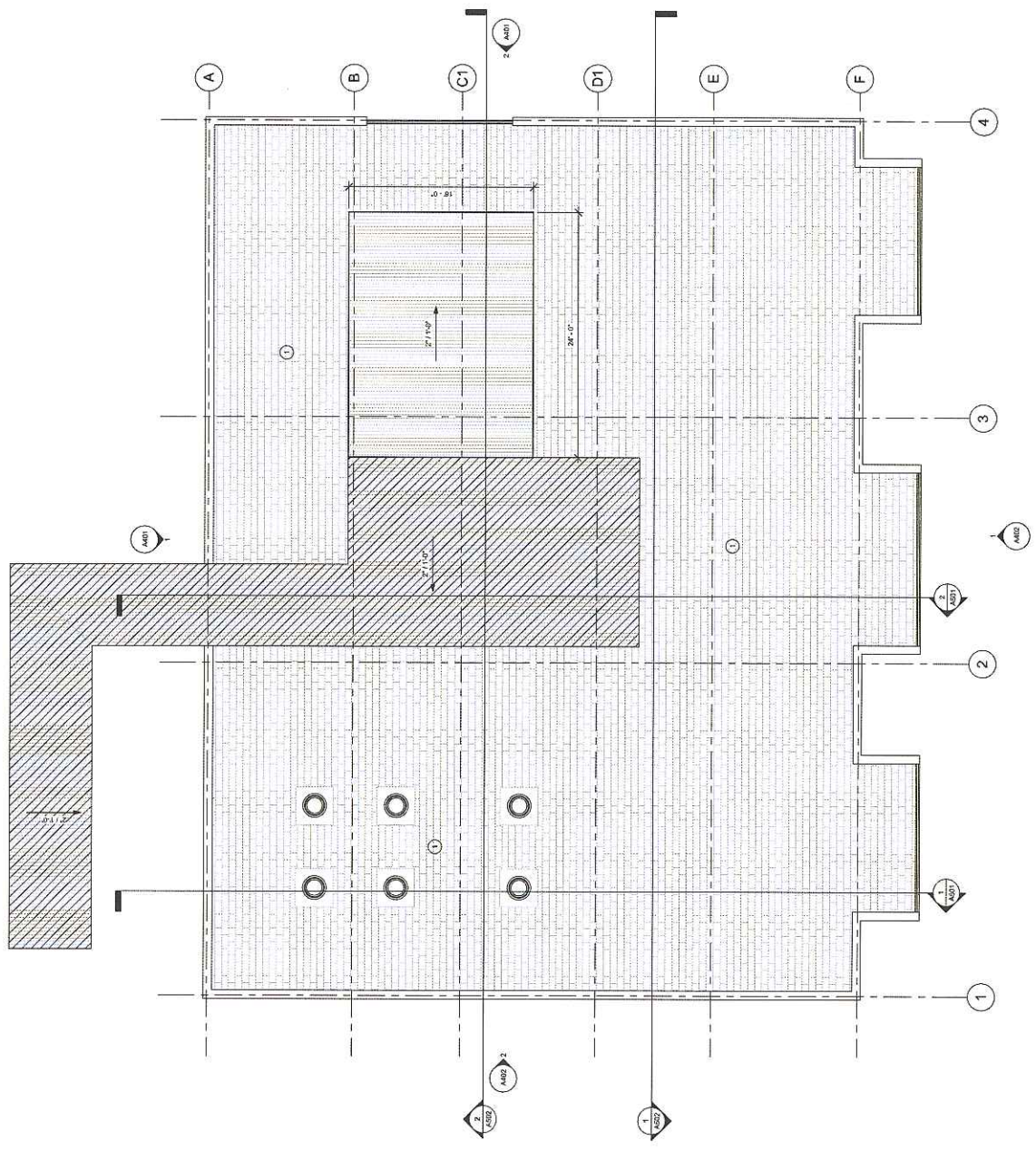
GENERAL NOTES

SHEET NOTES

- 1 REFER TO ROOF PLAN FOR MORE INFORMATION

ROOF LEGEND

	METAL ROOFING
	ROOF PAVERS
	METAL ROOFING, CROSS-HATCHED-HIGH ROOF AS PART OF ALTERNATE

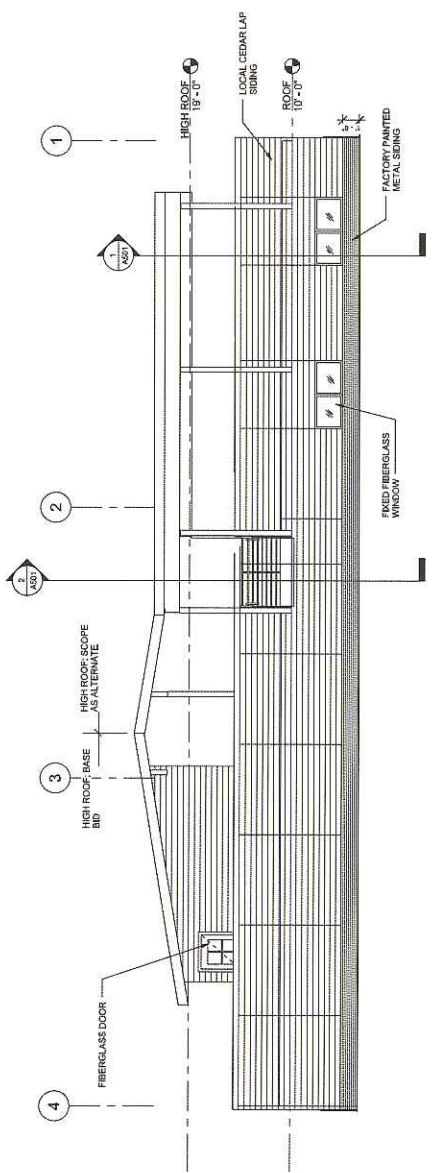


1 HIGH ROOF
A203 3/16" = 1'-0"

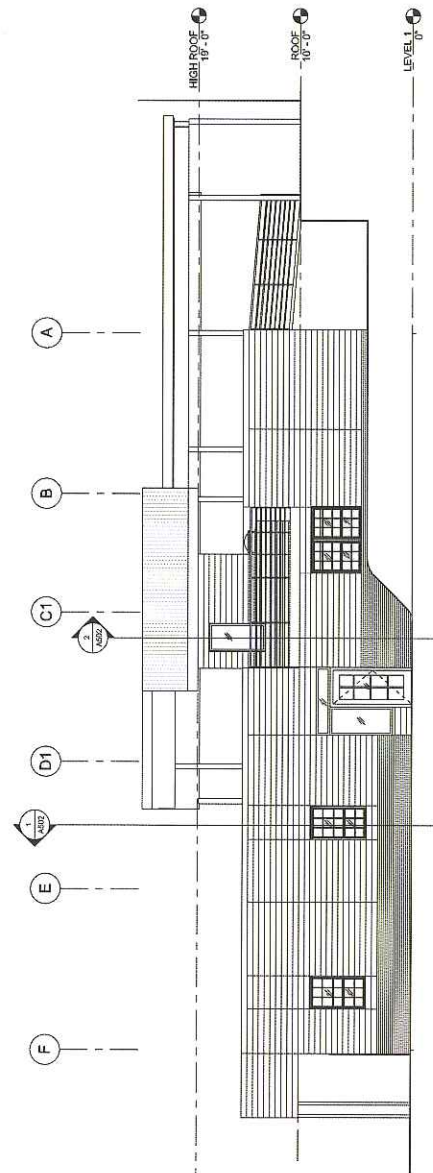


McCOOL CARLSON GREEN
ARCHITECTURE INTERIOR DESIGN SPACE PLANNING
201 NORTH AVENUE, ANCHORAGE, AK 99501-5124

DATE: 1-28-2012	DESIGNED BY: ZWZ
CHECKED BY: [Blank]	PROJECT NO. 2011030
CHECKER: [Blank]	CLIENT: [Blank]



1 NORTH EXTERIOR ELEVATION
3/16" = 1'-0"

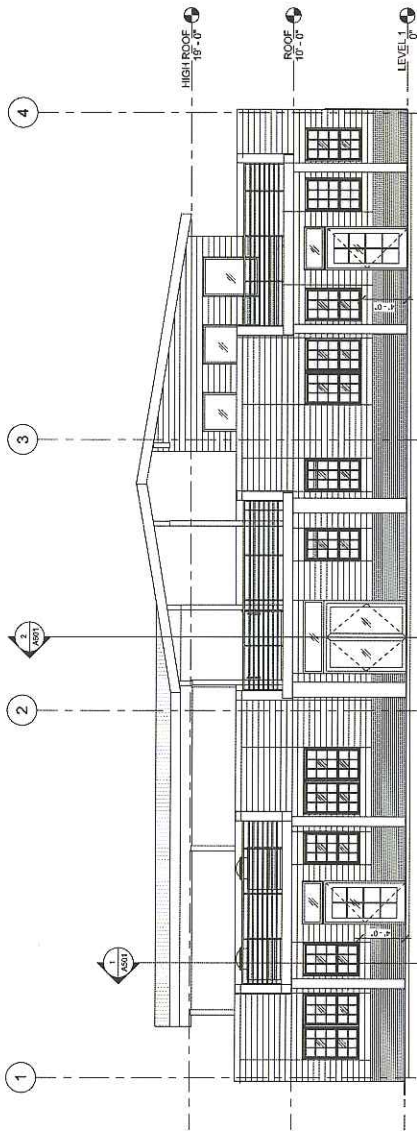


2 EAST EXTERIOR ELEVATION
3/16" = 1'-0"



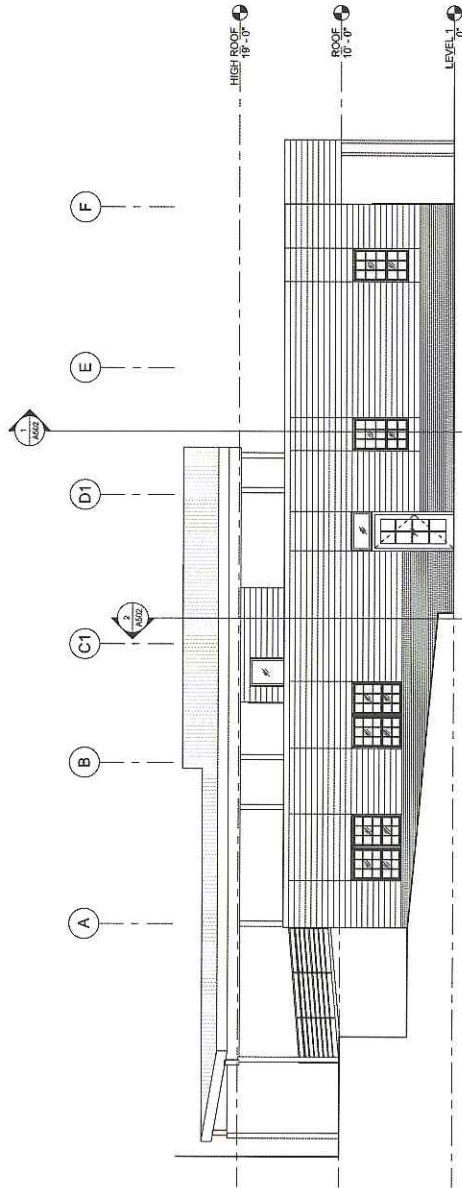
McCOOL CARLSON GREEN
ARCHITECTURE INTERIOR DESIGN SPACE PLANNING
200 FRONT STREET, ANCHORAGE, AK 99501 505-875-

DESIGNED BY	PROJECT NO.
DRAWN BY	DATE
CHECKED BY	DATE



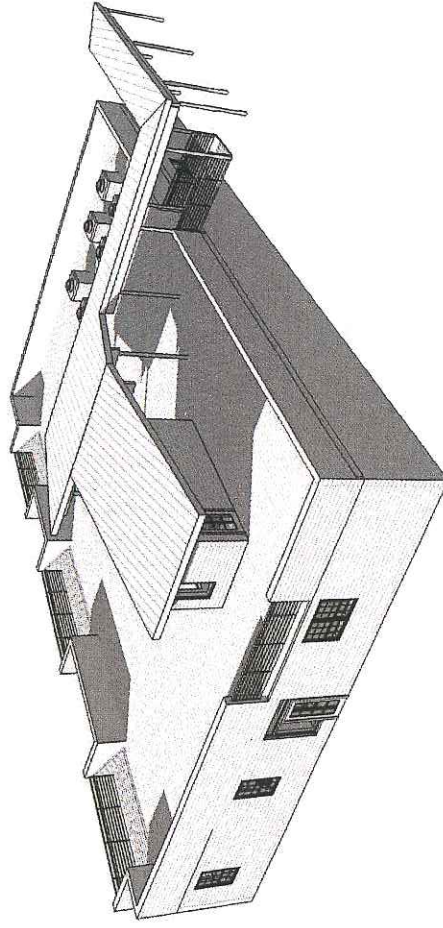
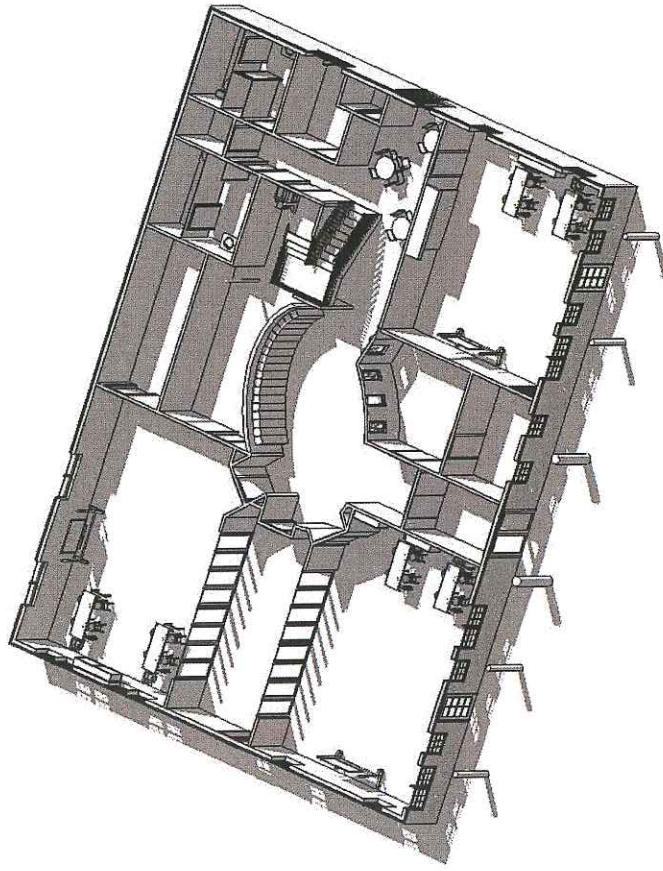
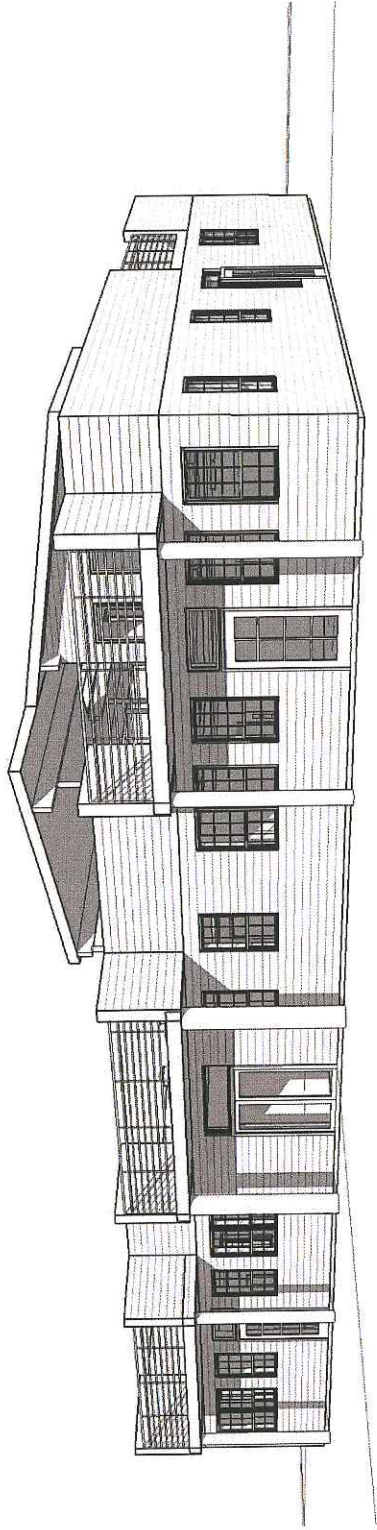
1 SOUTH EXTERIOR ELEVATION

3/16" = 1'-0"



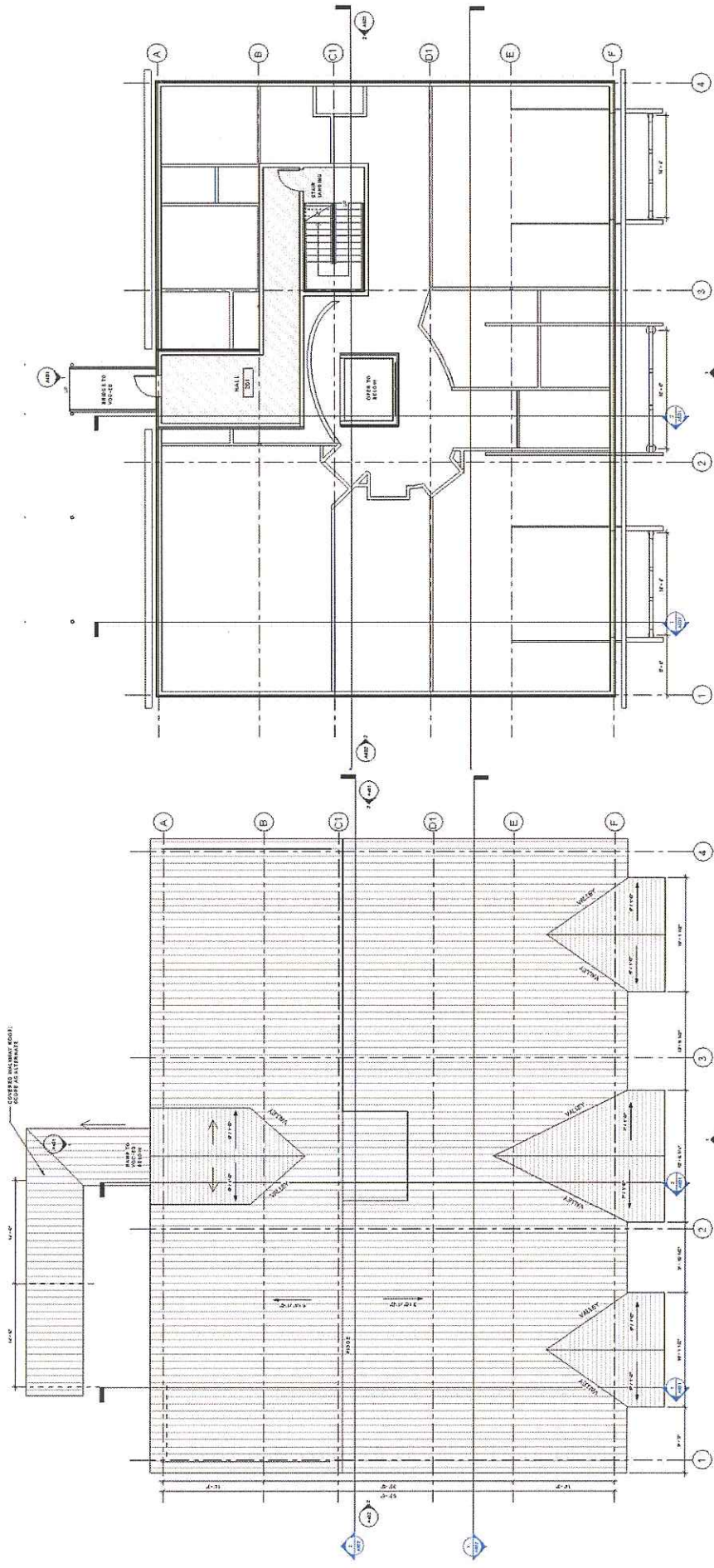
2 WEST EXTERIOR ELEVATION

3/16" = 1'-0"



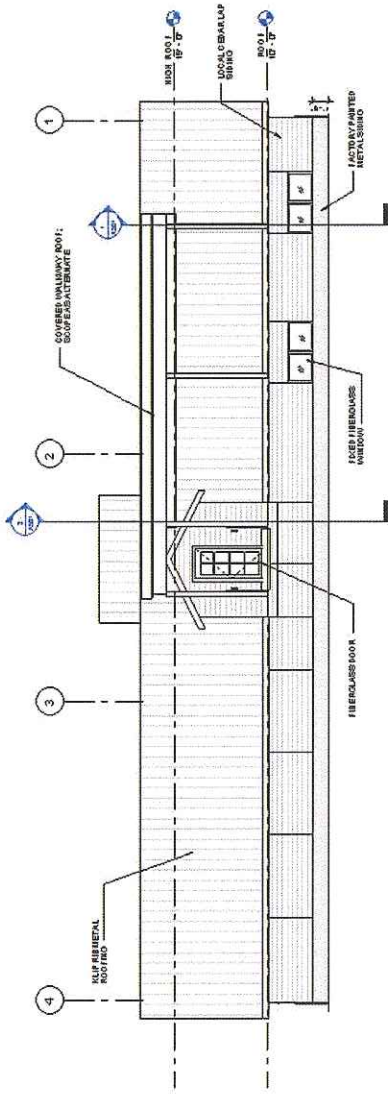


Pacific High School Renewal - Sloped Roof Alternate Rendering

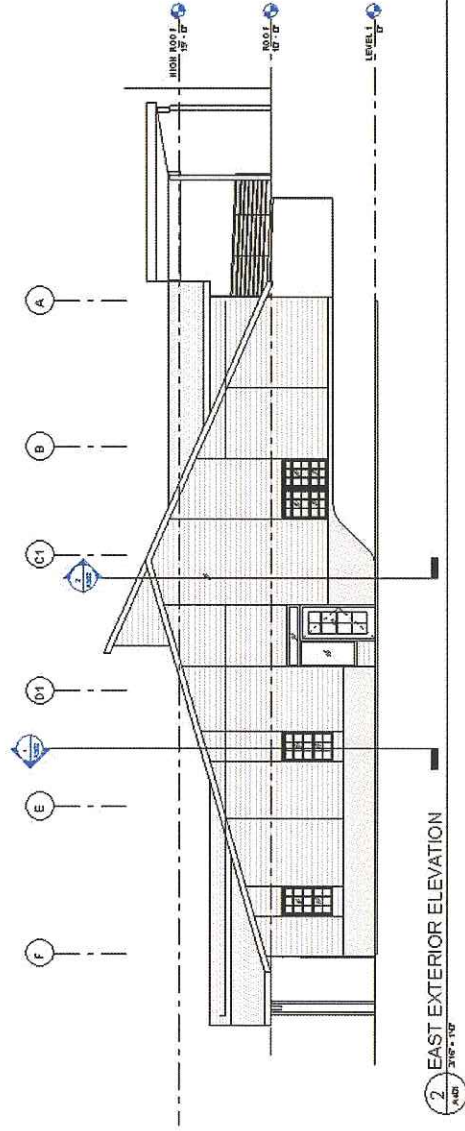


ATTIC PLAN

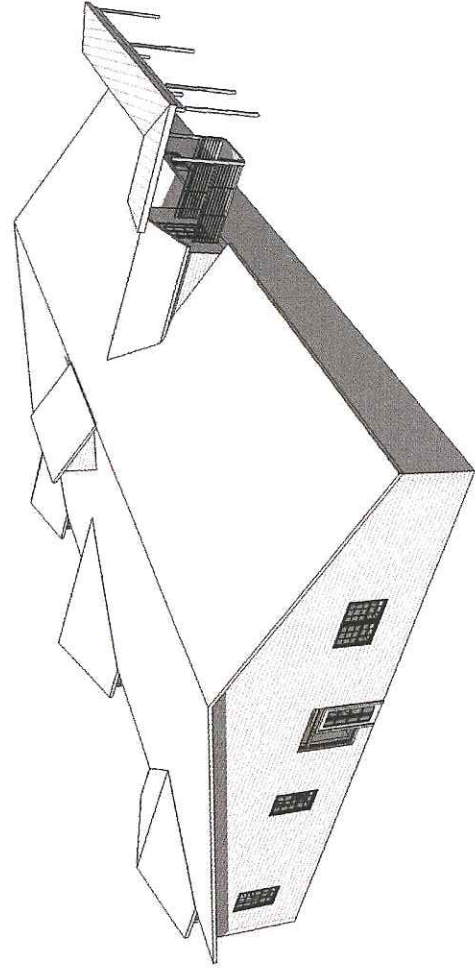
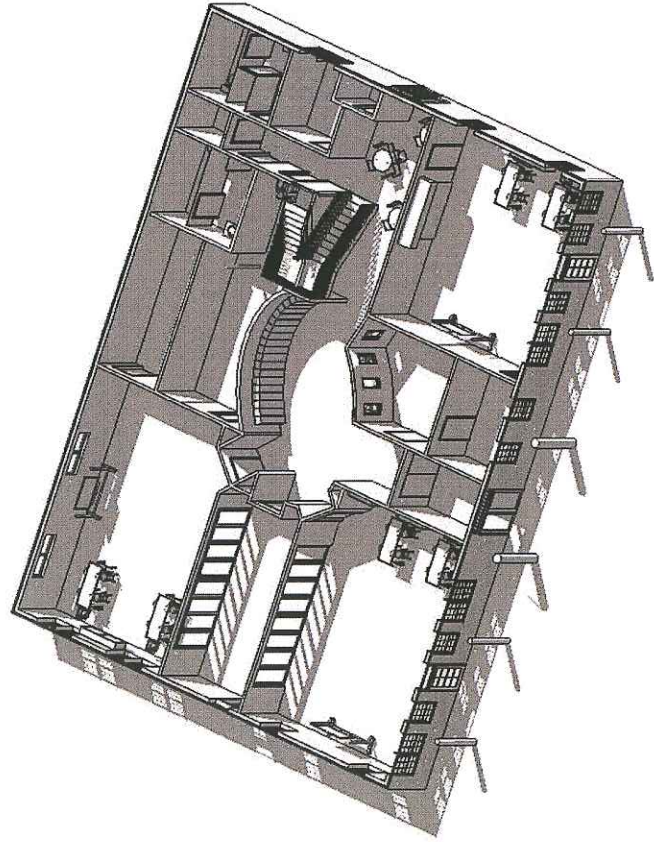
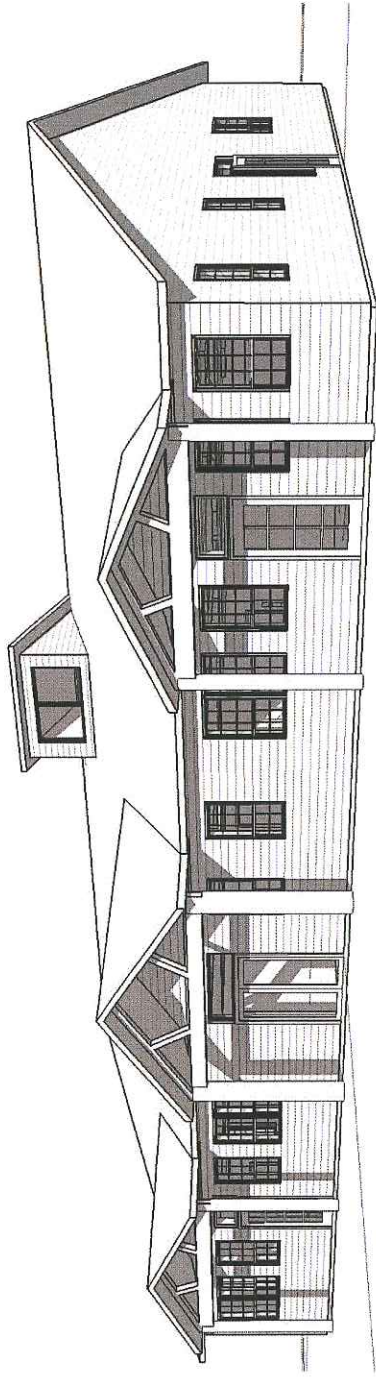
ROOF PLAN

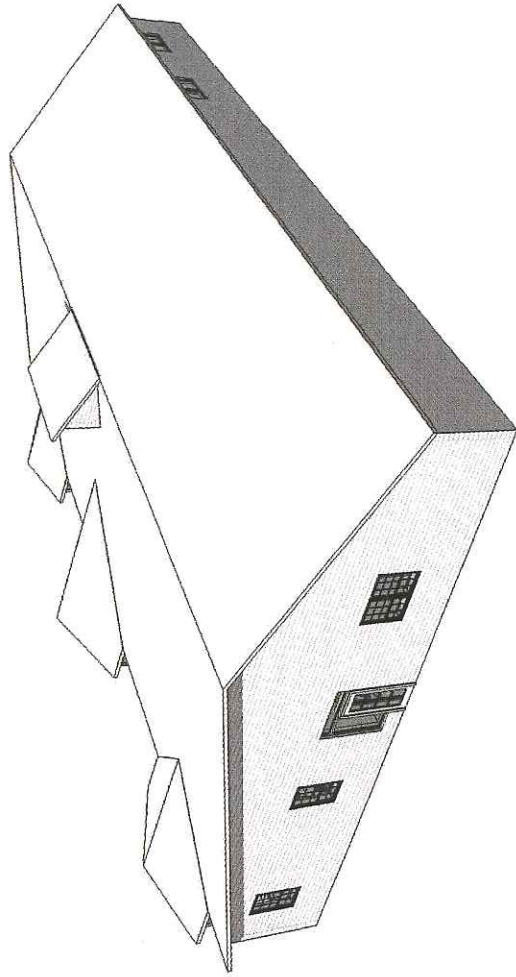
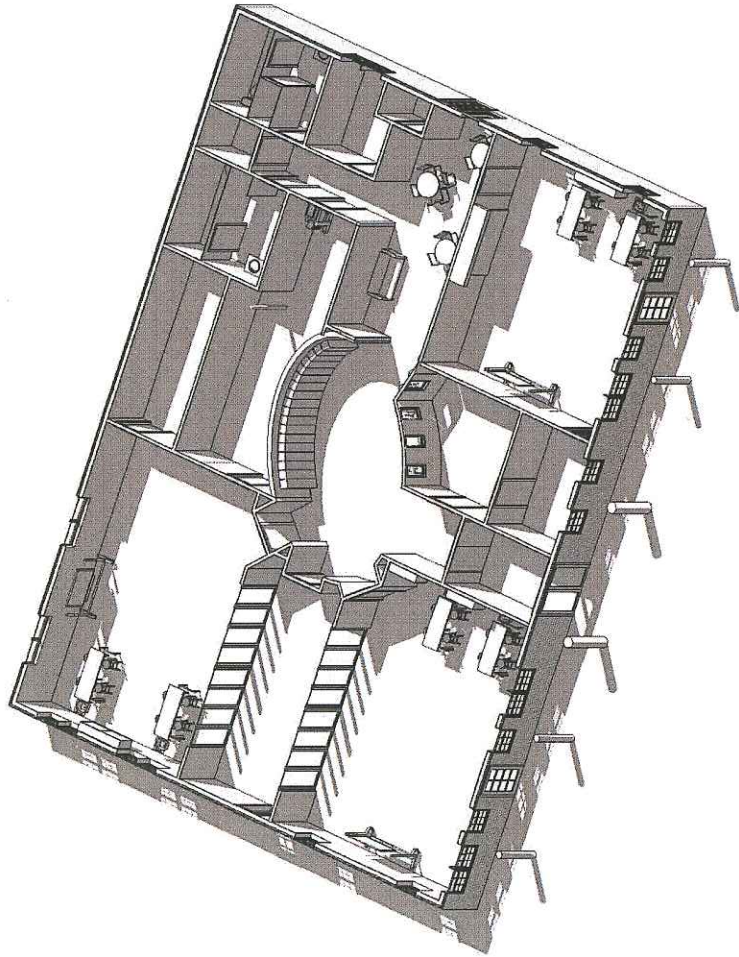


1 NORTH EXTERIOR ELEVATION
3/16" = 1'0"



2 EAST EXTERIOR ELEVATION
3/16" = 1'0"





Pacific High School Renewal - Roof Alternate 2 without Stair



