MATANUSKA-SUSITNA
BOROUGH SCHOOL DISTRICT

RFP #B26-06

COLONY HIGH SCHOOL TIER II SEISMIC ASSESSMENT

Due Date and Time: April 28, 2026 at 2:00 PM

Enclosed:

Request for Proposal
Documents
and
Affidavit

Matanuska-Susitna Borough School District

Purchasing Department
690 Cope Industrial Way
Palmer, AK 99645

P: (907) 861-5120 || F: (907) 861-5184
bids@matsuk12.us
www.matsuk12.us/bids

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ADVERTISEMENT

	DATE OF ADVERTISEMENT
Frontiersman	April 10, 2026
Anchorage Daily News	April 5 and 8, 2026

Type of Ad: Classified / Public Notice

The material herein must be printed in its entirety on the dates shown above. Affidavit of publication is required prior to payment.

Matanuska-Susitna Borough School District
REQUEST FOR PROPOSALS

RFP #B26-06

COLONY HIGH SCHOOL TIER II SEISMIC ASSESSMENT

Notice is hereby given that the Matanuska-Susitna Borough School District (MSBSD) will consider proposals from qualified individuals and firms for the provision of:

COLONY HIGH SCHOOL TIER II SEISMIC ASSESSMENT

Proposals are due on or before April 28, 2026 at 2:00 PM Palmer, Alaska time. Sealed proposals must be submitted and received by the MSBSD Purchasing Department, 690 Cope Industrial Way, Palmer, AK 99645, on or before said date and time designated for receipt of proposals. All proposals must be marked " RFP #B26-06 ." Proposal documents can be viewed on the MSBSD website at www.matsuk12.us/bids and are also available at the MSBSD Purchasing Department, 690 Cope Industrial Way, Palmer, AK 99645. For more information, call (907) 861-5120.

The MSBSD reserves the right to accept or reject any or all bids and waive any minor technicalities, informalities, and/or irregularities as it deems appropriate.

2/10/2026	Requested By:	A. Carney	Approved By:	B. Munson

MATANUSKA-SUSITNA
BOROUGH SCHOOL DISTRICT

COLONY HIGH SCHOOL TIER II SEISMIC ASSESSMENT

RFP #B26-06

REQUEST FOR PROPOSAL

THIS IS NOT A PURCHASE ORDER

The Matanuska-Susitna Borough School District (MSBSD) is requesting proposals from qualified proposers to provide

COLONY HIGH SCHOOL TIER II SEISMIC ASSESSMENT

as specific herein.

Proposals will be accepted until April 28, 2026 at 2:00 PM

Questions will be accepted until April 14, 2026 at 4:00 pm

PROPOSER USE ONLY

THIS PAGE MUST BE COMPLETELY FILLED IN, SIGNED, AND RETURNED WITH YOUR PACKET.

Company Name

Address

City | State | Zip

Telephone Number | Fax Number

State of Alaska Business License Number | Matanuska-Susitna Borough Business License Number

Authorized Signature | Printed Name | Date

INSTRUCTIONS TO PROPOSERS

1. GENERAL INFORMATION:

The Matanuska-Susitna Borough School District (MSBSD) is requesting proposals from qualified proposers to provide the scope of services as specified in Attachment A, Scope of Services. Copies of the Request for Proposal (RFP) documents can be viewed in the Purchasing section of the MSBSD website at www.matsuk12.us/bids and can be obtained in the Purchasing Department at 690 Cope Industrial Way, Palmer, Alaska 99645 or by calling (907) 861-5120. Office hours are 7:00am - 4:30pm, Monday through Friday.

Proposals must be fully executed, signed by each proposer, and enclosed in a sealed envelope with the proposer's name, address, and phone number clearly marked, as per Section 8 of this Instructions to Proposers. Proposals must be submitted to the MSBSD Purchasing Department at 690 Cope Industrial Way, Palmer, Alaska 99645. Signed proposals must be in the office of the MSBSD Purchasing Department on or before the date and time designated for receipt of proposals. **The MSBSD will not accept or consider proposals that are oral, telephonic, telegraphic, faxed, emailed, or otherwise electronically submitted.**

2. GENERAL STATEMENT:

In rendering the services hereunder, the selected proposer shall adhere to the following general terms and conditions. The term "selected proposer" refers to the proposer awarded a contract to provide services and/or products as required herein. The term "agreement" hereafter refers to this RFP, any and all attachments and appendices, any and all addenda, and the proposer's response and acceptance by the MSBSD. A contract may be issued upon award of this proposal.

3. PRE-PROPOSAL CONFERENCE:

A pre-proposal conference will not be held for this scope of services.

4. EXAMINATION OF RFP DOCUMENTS:

A. Proposers shall carefully examine the RFP documents before submitting a proposal. The submission of a proposal shall be an admission that the proposer has made such examination and is satisfied as to the conditions to be encountered in performing the work and as to the requirements and accuracy of the RFP documents.

B. The MSBSD assumes no responsibility for any understanding or representations concerning conditions made by any of its officers, agents, or employees prior to the execution of the proposal, unless such understanding or representations are expressly stated in the RFP documents or addenda.

C. Proposers shall include in their proposal sums sufficient to cover all items and services required by the RFP documents and shall rely entirely upon their own examination of the proposal. The submission of a proposal shall be taken as prima facie evidence of compliance with this paragraph.

5. INTERPRETATION OR CORRECTION OF PROPOSAL DOCUMENTS:

Proposers shall notify the Purchasing Department promptly of any error, omission, or inconsistency that may be discovered during examination of the proposal documents. Requests from proposers for interpretation or clarification of the proposal documents shall be made in writing to the Purchasing Department by April 14, 2026 at 4:00 pm Palmer, Alaska time.

Any questions received after this date and time will not be answered. Questions should reference the applicable RFP number and title and can be submitted by mail, fax, or e-mail to the following:

Mail: MSBSD Purchasing Department; 690 Cope Industrial Way; Palmer, AK 99645
Fax: MSBSD Purchasing Department; (907) 861-5184
E-mail: bids@matsuk12.us

Interpretations, corrections, responses to questions, and changes to the Proposal Documents will be made by addenda. Interpretations, corrections, responses to questions, and changes to the Proposal Documents made in

5. INTERPRETATION OR CORRECTION OF PROPOSAL DOCUMENTS (CONT.):
any other manner will not be binding to the MSBSD and proposers shall not rely on them. All addenda issued shall become part of the agreement documents. It is the proposer's sole responsibility to ascertain that they have received all addenda issued by the Purchasing Department. Each addendum will be issued by both fax machine and U.S. mail. All addenda will also be posted in the Purchasing section of the MSBSD website at www.matsuk12.us/bids. **All addenda must be acknowledged in the space provided on Appendix 1 or the proposal may be deemed non-responsive.**

6. PREPARATION AND SUBMISSION OF PROPOSALS:
A. Each proposal must be signed in longhand by the proposer with their usual signature. Proposals submitted by partnerships must be signed with the partnership name by one of the partners, followed by the signature and designation of the partner signing. Proposals submitted by corporations must be signed with the legal name of the corporation, followed by the name of the state of incorporation, and by the signature of the president, secretary, or other person authorized to bind in the matter. The full name and address of each person signing shall be typed or printed below the signature.

B. Proposals shall be submitted on the forms furnished and must be manually signed. Proposals must be submitted in a sealed envelope and addressed as indicated in Section 8 of this Instructions to Proposers.

C. Proposals may be rejected if they show any omissions, alteration of the forms, additions not called for, conditional or alternate proposals not called for, qualified proposals, or irregularities of any kind.

D. Proposers shall bear all costs directly or indirectly related to preparing a proposal, preparing presentations or supplements, and/or clarifying a proposal as may be required by the MSBSD in response to this solicitation.

7. SUBMITTAL REQUIREMENTS:
Refer to Attachment A, Scope of Services, for the full submittal requirements specific to this RFP.

8. PROPOSALS:
A. Signed proposals **MUST** be in the MSBSD Purchasing Department office on or before

April 28, 2026	at	2:00 PM	Palmer, Alaska time.

B. It is the responsibility of all proposers to ensure that their proposals and associated documents are in the office of the Purchasing Department prior to the time of the scheduled RFP opening. Proposals **MUST** be in **SEALED** envelopes clearly marked as follows:

RFP Number:	RFP #B26-06		
RFP Title:	COLONY HIGH SCHOOL TIER II SEISMIC ASSESSMENT		
Due:	April 28, 2026	at	2:00 PM

C. Proposers are cautioned that mailed proposals, which arrive after the date and time designated for receipt of proposals, will not be opened or considered. Proposers are further cautioned not to rely on the U.S. Postal System or any other second party for timely delivery of their proposal. It is the proposer's sole responsibility to ensure that their proposal and associated documents are in the physical possession of the Purchasing Department prior to the date and time designated for receipt of proposals.

D. All proposals shall be submitted on the attached forms in the spaces indicated and must comply with these instructions. The proposal must be completed and signed by an authorized representative of the firm submitting the proposal.

E. Scheduled proposal openings are open to the public and are located in the Purchasing Department.

F. The MSBSD will not accept proposals via fax machine or e-mail.

G. The MSBSD reserves the right to accept or reject any or all proposals, consider alternatives, and further reserves the right to waive minor informalities in procedures.

9. WITHDRAWAL FROM CONSIDERATION:
Proposals may be withdrawn upon written request delivered to the MSBSD Purchasing Department prior to the date and time designated for receipt of proposals. However, no proposer shall withdraw or cancel their proposal

9. WITHDRAWAL FROM CONSIDERATION (CONT.):
for a period of ninety (90) calendar days after said date and time designated for the receipt of proposals, nor shall the selected proposer withdraw, cancel, or modify their proposal after having been notified by the Purchasing Department that said proposal has been accepted by the MSBSD.

10. PROPOSAL EVALUATION:
A. An Evaluation Committee will be selected by the MSBSD to review the proposals.

B. The Evaluation Committee may elect to interview any or all proposers at its discretion, but is not required to do so.

C. Any proposers selected for an interview may be expected to make a presentation followed by a question and answer period at the MSBSD main administrative office (501 N. Gulkana St.; Palmer, AK 99645).

D. The MSBSD will select the proposal that reflects what is believed to be the best combination of price, experience, expertise, other cost factors, management capability, and understanding of the needs of the MSBSD. Proposals will be evaluated per the criteria outlined in Attachment B, Evaluation Criteria.

11. NEGOTIATIONS:
Proposers are asked to provide their best offer, including pricing, as part of the initial submittals. The MSBSD desires to enter into an agreement based on the initial submissions and proposers should not rely on the negotiation process to modify their offers. However, the MSBSD may conduct negotiations in accordance with the following at their discretion:

A. With the proposer who submits the most attractive proposal that is acceptable to the MSBSD;

B. With the proposers who have submitted proposals that are within the established competitive range; or

C. With all proposers.

Negotiations, if conducted, will occur after the opening date of the RFP and after evaluation by the Evaluation Committee. Proposers will be accorded fair and equal treatment during negotiations with respect to any opportunity for discussion and revision of proposals and such revisions may be permitted after submission and prior to award for the purpose of obtaining best and final offers. In conducting negotiations, there shall be no disclosure of any information derived from proposals submitted. Upon completion of negotiations, if any, the MSBSD may call for "best and final offers" at its discretion.

12. AWARD OF CONTRACT:
A. The MSBSD will award a contract to the proposer with the highest score on the evaluation criteria outlined in Attachment B, Evaluation Criteria.

B. The MSBSD, as it deems appropriate, shall have the right to reject any and all proposals. Proposals may be rejected if they do not include a required proposal bond or other data required by the Proposal Documents. All responsive proposals may be rejected if the MSBSD in its sole judgment, considers them too costly.

C. The MSBSD reserves the right to reject any and all proposals and to waive any minor informalities and/or irregularities in submittal of a proposal or award of the agreement and to request clarification of information from any proposer. The MSBSD is not obligated to enter into a contract on the basis of any bid or proposal submitted in response to the RFP.

D. The MSBSD reserves the right to make awards within a ninety (90) calendar day award period from the date proposals are opened. Proposals must be firm for the award period and the contracted service period.

13. AVAILABILITY OF FUNDS:
A. The MSBSD reserves the right, at its sole discretion, to cancel this RFP or any part thereof, at any time, prior to an award of contract issued under this RFP.

B. Awards are contingent upon the appropriation of MSBSD budget funds.

14. REQUEST FOR ADDITIONAL INFORMATION:
A. The MSBSD reserves the right to request clarification of ambiguous proposal language current audited financial statements; qualifications of management personnel, including program manager or field supervisors' performance references; or other information deemed relevant at any time prior to proposal award. Proposers

14. REQUEST FOR ADDITIONAL INFORMATION (CONT.):

agree to provide such requested information within three (3) business days of the request.

B. Prior to the final selection, proposers may be required to submit additional information, which the MSBSD may deem necessary to further evaluate the proposals.

C. The MSBSD reserves the right to make investigations of the qualifications of the proposer as it deems appropriate, including but not limited to a background investigation conducted by proper authorities.

15. PUBLIC RECORDS CLAUSE:

This RFP and the resulting proposals received, together with copies of all documents pertaining to the award of a contract, will be kept by the Purchasing Department and made a part of the record, which will be open to public inspection, unless restricted by the proposer and School Board Policy, once the Notice of Intent to Award has been issued. If a proposal contains any information which is proprietary or confidential, each page of the confidential information must be clearly marked with a diagonal watermark that reads "CONFIDENTIAL"; such information will be kept confidential if appropriate and will not be released to the public. A confidential watermark is required. MSBSD is not responsible for release of any documents not marked in this manner. The proposal tabulation sheet shall be open to public inspection as soon as practicable after the Notice of Intent to Award has been issued.

16. PROTEST OF AWARD:

The MSBSD has a process in place for an apparently unsuccessful proposer to submit a written protest, requesting a review of the proposal award.

A. An unsuccessful proposer must submit its protest within [ten (10)] days of the date of the Notice of Intent to Award issued by the MSBSD Purchasing Department.

B. The protest must be made in writing, delivered to the same location as the original proposal, and must set forth in detail all the reason(s) for the protest, with specific reference to the relevant provision in the Proposal Documents.

C. Upon receipt of the request for review, the Purchasing Department shall schedule an informal hearing to include the successful proposer, the protesting proposer, the Assistant Superintendent of Business and Operations, and a representative of the Purchasing Department. At such time, the proposer making protest can express his/her concerns with said award.

D. Following the informal hearing, the Assistant Superintendent of Business and Operations will send the MSBSD's decision on the protest to all involved parties.

E. If the contract award for the proposed project is required to be approved by the MSBSD School Board, the involved parties will be notified of the date and time of the applicable School Board meeting.

17. CONTRACT:

The contract between the MSBSD and the proposer shall consist of (1) the RFP and any attachments and/or amendments and/or addenda thereto; (2) the proposal submitted by the contractor in response to the RFP; and (3) the actual written agreement or contract. In the event of a conflict in language between the documents reference above, the provisions and requirements set forth and/or referenced in the RFP documents shall govern.

18. INSURANCE:

It is specifically agreed between the parties executing this agreement that it is not intended by any of the provisions of this agreement to create in the public or any member thereof a third-party benefit hereunder, or to authorize anyone not a party to this agreement to maintain a suit for personal injuries or property damage pursuant to the terms or provisions of this agreement. The successful proposer shall procure and maintain minimum insurance requirements and shall provide all required documentation as per attached Appendix 3 to the MSBSD upon award of this agreement. Failure to furnish proper evidence of insurance, or the lapse of insurance required under the provisions of this agreement, may be grounds for termination. The duties required under this subsection shall survive the termination expiration of this agreement. **It is highly recommended that the proposers confer with their respective insurance companies or brokers to determine if their insurance program complies with the MSBSD's insurance requirements, as per attached Appendix 3.**

19. LICENSES:

All individuals or businesses conducting business within the State of Alaska and within the Matanuska-Susitna Borough are hereby advised that they must obtain both a State of Alaska and a Matanuska-Susitna Borough

19. LICENSES (CONT.):
business license. For information on how to obtain the appropriate business license or see if any exemptions may apply, please visit the following websites:

State of Alaska:
https://www.commerce.alaska.gov/web/cbpl/BusinessLicensing/BusinessLicensingFormsFees.aspx

Matanuska-Susitna Borough:
http://www.matsugov.us/business-licenses

20. INVOICES AND METHOD OF PAYMENT:
Billings for services must be verified by a responsible representative of the MSBSD before payment can be made. Payments shall be made to the selected proposer within thirty (30) calendar days after the MSBSD receives and approves a written request for payment or invoice from the contractor. The request for payment or invoice may be submitted to the Matanuska-Susitna Borough School District, Attn: Accounting Department; 501 N. Gulkana St.; Palmer, AK 99645 or e-mailed to accounting@matsuk12.us.

21. FEDERAL EXCISE TAXES:
The MSBSD is exempt from Federal Excise Taxes. An Exemption Certificate will be furnished upon request.

22. MODIFICATIONS:
The MSBSD may, from time to time, require modifications in the scope of services to be performed under this agreement. However, it is expressly understood that this agreement shall not under any circumstances be modified without written authorization from the MSBSD. All modifications in the terms of this agreement, to include adding additional schools or sites, shall be incorporated by written amendments to this agreement executed by both parties.

23. INDEMNIFICATION:
A. Any and all employees of the proposer and other persons, while engaged in the performance of any work or services required by the proposer under this agreement, shall not be considered employees of the MSBSD.

B. Each party shall indemnify, defend, and hold harmless the other party from and against any claim of, or liability for, negligent acts, errors, and omissions of the other party under this agreement. However, a party is not required to indemnify, defend, or hold harmless the other party for a claim of, or liability for, the independent negligent acts, errors, and omissions of the other party. If there is a claim of, or liability for, a joint negligent act, error, or omission of both parties, the indemnification, defense, and hold harmless obligations of this provision shall be apportioned on a comparative fault basis.

24. PROTECTION OF EQUIPMENT AND PROPERTY:
The proposer assumes full responsibility for and shall indemnify the MSBSD for any loss or damage to any MSBSD property resulting in whole or in part from the negligent acts or omissions of the proposers, or any employee, agent or representative of the proposer.

25. PROPOSER'S PERSONNEL REQUIREMENTS:
The MSBSD may, by serving written notice, require the proposer to promptly remove from the site of work any employee or worker the MSBSD deems incompetent, careless, or otherwise objectionable including, but not limited to, violation of MSBSD policies relating to alcohol, illegal drugs or firearms on MSBSD property.

26. EQUAL EMPLOYMENT OPPORTUNITY:
Proposers, in submitting proposals, certify that if awarded a contract under this Request for Proposal, they will not discriminate against any employee or applicant for employment because of race, color, religion, gender, age, national or ethnic origin, disability, marital status, change in marital status, pregnancy, parenthood, or any other basis prohibited by Alaska state or federal laws. The proposer will take affirmative action to ensure non-discrimination. Such action shall include but not be limited to the following: employment, upgrading, demotion or transfer, recruitment or recruitment advertising, layoff or termination rates of pay or other forms of compensation, and selection for training, including apprenticeship. The proposer agrees to post in a conspicuous place, available to employees and applicants for employment, notices setting forth the provision of this non-discrimination clause.

27. DRUG, TOBACCO, AND ALCOHOL-FREE WORKPLACE:
The selected proposer agrees to comply with MSBSD School Board Policy BP 4020, Drug, Tobacco and Alcohol-Free Workplace. This policy states, in part: "In the interest of the health and safety of students and employees, it is a violation of this policy for students, staff, parents, visitors, contractors and all others to use, distribute or sell

27. DRUG, TOBACCO, AND ALCOHOL-FREE WORKPLACE (CONT.):

tobacco, any non-FDA-approved tobacco or nicotine delivery products or devices including but not limited to, cigarettes, cigars, dip, hookah pens, e-cigarettes, and dissolvable nicotine products on District premises, at school-sponsored activities on or off District premises and in District-owned, rented or leased vehicles."

28. CODE OF ETHICS:

A. The selected proposer shall comply with MSBSD School Board Policy BP 4119.21, Code of Ethics.

B. The selected proposer shall also comply with BP 3515.7, Restrictions on Sex Offenders on Campus. This policy states, in part: "To protect the morals, health, and safety of students, it is the policy of the district to deny entrance onto the premises of any district school or any building used for school activities to registered sex offenders or persons required to register under the sex offender registration act of whom the district has knowledge."

C. The selected proposer shall take affirmative action to ensure that no contractor, employee, or subcontractor who will be working on MSBSD property has a criminal record of any conviction for child abuse or assault, be on the State of Alaska or any State Sexual Offender Registry, or has been convicted of a crime of moral turpitude. Any waiver of this section must be in writing, signed by the District's Superintendent. The MSBSD has the right to verify such records at any time during the life of the contract.

29. OCCUPATIONAL SAFETY AND HEALTH WARRANTY:

If awarded the agreement, the proposer warrants that the products sold or services rendered shall conform to the standards and/or regulations promulgated by the U.S. Department of Labor under the Occupational Safety and Health Act of 1970 (29 U.S.C. 651, OL 91-596) and all amendments thereto. In the event the product sold does not conform to the OSHA standards and/or regulations, the MSBSD may return the product for correction or replacement at proposer's option and at proposer's expense. Services performed by the proposer which do not conform to OSHA standards and/or regulations must be corrected by proposer at proposer's expense or by the MSBSD at proposer's expense in the event proposer fails to make the appropriate correction within a reasonable time.

30. COMPLIANCE:

A. The selected proposer shall comply with all state, federal and local laws, regulations or orders applicable to the purchase, manufacture, processing and delivery of the service.

B. General Conditions:

I. General Statement: The following conditions shall be followed by the selected proposer. These conditions shall be adhered to, relative to any project for which the selected proposer provides services. The MSBSD reserves the right to delete or alter the following terms and conditions or to add additional terms and conditions at its discretion. The selected proposer shall perform services and otherwise comply with all conditions as set forth in this RFP including all attachments and appendices hereto and all additional requirements identified in the proposal documents.

II. Governing Laws: The agreement shall be governed as to performance and interpretation in accordance with the laws of the State of Alaska.

III. Compliance with All Laws: The proposer shall comply with all applicable laws, ordinances, executive orders and regulations of the federal, state, and local government, which may in any manner affect the performance of the agreement and all applicable MSBSD policies, rules and procedures.

IV. Relationship of All Parties: It is expressly understood and agreed by the proposer and the MSBSD that the proposer's relationship to the MSBSD is that of an independent contractor.

31. CONFLICT OF INTEREST:

A. The contracting party expressly represents that the contract is not contrary to MSBSD School Board Policy BP 2300, Conflict of Interest and that the contracting party has read and understands BP 2300. If this representation is false, the Superintendent may terminate the contract without regard to partial performance and in the event of such a termination the District will have no further liability or obligation to the contracting party.

B. Any employee and/or employee with immediate family members that may have a financial interest in the contract must file an annual BP 2300, Conflict of Interest Affidavit with MSBSD. The following definitions apply to this policy: Immediate family member means an employee's grandparent, parent, child, grandchild, brother, sister, spouse, child of a spouse, or regular member of the employee's household.

32. ASSIGNMENTS AND SUBCONTRACTORS:

A. The proposer shall not sell, assign, transfer, or convey any contract resulting from this RFP, in whole or in part, without the prior written consent of the MSBSD.

32. ASSIGNMENTS AND SUBCONTRACTORS (CONT.):

B. The proposer shall ensure that any prospective subcontractors are appropriately licensed, insured and bonded, and of sufficient high quality to meet all of the requirements of this RFP. If a proposal with subcontractors is selected, the proposer must provide the following information concerning each prospective subcontractor within five (5) working days of the request notice by the MSBSD:

I. The complete name and address of the subcontractor;
II. The type and percentage of work the subcontractor will perform;
III. Certificate of Insurance;
IV. Other requested information relevant to the qualifications of the subcontractor.

C. Subcontractors must comply with all licensing, indemnity, insurance limits, and insurance requirements imposed on the proposer.

33. TERMINATION FOR CAUSE:

A. If, through any cause, the proposer shall fail to fulfill in a timely and proper manner their obligation under this agreement, or if the proposer shall violate any of the covenants, agreements or stipulations of any awarded contract, the MSBSD shall thereupon have the right to terminate this agreement by serving written notice to the proposer of such termination and specifying the effective date thereof, at least thirty (30) days before the effective date of such termination. However, if the district determines that the continuation of this agreement constitutes an imminent threat to the health and safety of its students and staff, this agreement may be terminated by the MSBSD effective immediately.

B. In the event it becomes necessary to terminate the agreement awarded as a result of this RFP, regardless of the circumstances or time remaining on the contract, the proposer will be responsible for any and all expenses incurred by the MSBSD. These expenses can include, but are not limited to, cost of locating interim services, cost of re-issuing an RFP, and any additional cost to the MSBSD by the new contractor greater than the current contract.

C. The proposer shall be entitled to receive just and equitable compensation for any satisfactory work completed in accordance with the payment provision as set forth under Section 20 of this document. Equitable compensation shall not exceed the amount reasonably billed for work actually done and expenses reasonably incurred. The MSBSD's contract administrator shall determine whether work completed is satisfactory.

34. TERMINATION FOR CONVENIENCE OF THE MSBSD:

A. The MSBSD may terminate any awarded contract or agreement at any time by serving written notice to the proposer of such termination and specifying the effective date of such termination at least thirty (30) days prior to the effective date of termination.

B. Upon termination of any awarded contract or agreement, the MSBSD shall pay the proposer any payments due at that time.

35. FAILURE OF FUNDING:

A. The MSBSD shall be excused from performance under the contract if funding is not appropriated.

B. The MSBSD may reduce the scope and services provided under the contract to counteract a funding shortfall.

ATTACHMENT A:
SCOPE OF SERVICES

1. SCOPE

The Matanuska-Susitna Borough School District (MSBSD) is seeking proposals from qualified proposers to conduct a Tier II Seismic Assessment at Colony High School (CHS) as described herein.

2. BACKGROUND

Ranging in enrollment from 20 students to more than 1,500 students, the schools of the MSBSD educate approximately 19,000 students at 48 schools located throughout the Matanuska-Susitna Borough. The MSBSD also supports a variety of administrative services including but not limited to Facilities, Purchasing and Warehouse, Nutrition Services, and Central Office Administration. MSBSD schools include 21 elementary schools, five middle schools, nine high schools, six non-traditional schools, and seven charter schools.

The MSBSD received grant funding from the Federal Emergency Management Agency (FEMA) Hazard Mitigation Grant Program (HMGP) to complete a Tier II Seismic Assessment of Colony High School. CHS was built in 1988 and is one of the largest schools within the district at 194,000 sq. ft.

3. GENERAL REQUIREMENTS

A. It is expected that the assessment will include structural drawings to capture the full scope of affected systems based on the appendices provided.

B. The proposer is required to attend monthly design meetings. The contractor is responsible for keeping meeting minutes and submitting them to the MSBSD upon project completion.
   1. Kickoff meeting with MSBSD and DHS&EM: June 1, 2026
   2. Monthly progress meetings: will be coordinated with the MSBSD
   3. Final Presentation: March 5, 2027

C. Work performed during summer break can be completed during the day. Any work required to be done during the school year may need to be performed outside of school hours if the work disrupts classroom operations. Schedule of work must be coordinated with the MSBSD Facilities Department.

D. All work will be completed in a workmanlike manner according to standard practices and in accordance with all applicable standards and codes.

E. Any alteration or deviation from written specifications involving extra costs shall only be executed upon a written change order signed by both the proposer and the MSBSD. Each written notice of changed conditions shall be clearly identified as such and shall include an estimate of the cost and the contract time impact of the alleged changed condition.

4. SCOPE

The proposer will supply all supervision, labor, materials, and tools necessary to complete a Tier II seismic assessment that identifies seismic deficiencies.

A. Document Review:
   1. Review available building drawings, post-earthquake reports, and past assessments.
B. Field Investigation:
   1. Structural and non-structural onsite inspections.
   2. Verification of load paths, connections, and seismic vulnerabilities.
   3. Full photographic documentation.
C. Engineering Analysis:

1. Perform Tier II analysis per FEMA P-154, P-2055, and ASCE 41-23.
2. Develop structural models as needed.
3. Identify and rank deficiencies per the afore mentioned standards.

D. Mitigation Recommendations:
1. Provide conceptual retrofit solutions for each item on the prioritized list of deficiencies identified in the Tier II analysis.
2. Prepare rough order of magnitude (ROM) cost estimates for each conceptual retrofit recommendation.

E. Deliverables:
1. Draft Tier II Seismic Assessment Report (PDF and editable) for MSBSD review.
2. Final Tier II Report submitted to the MSBSD and FEMA. Report will include the following.
   a. Annotated floor plans
   b. Mitigation concept sketches
   c. ROM cost estimate tables
   d. Photo documentation
   e. Ranked list of deficiencies

5. COST

A. All costs associated with the scope herein should be identified on the form provided in Attachment C: Cost Proposal Form. Costs identified shall be firm for the life of any resulting contract(s).

B. The entirety of Attachment C: Cost Proposal must be completed and submitted in accordance with Section 6, Submittal Requirements or the proposal may be considered non-responsive.

C. Evaluation of costs will be made on the base cost proposal.

6. SUBMITTAL REQUIREMENTS

All proposals must include the following items, as a minimum, or the proposal **may** be considered non-responsive. Before submitting a proposal, please check the Purchasing section of the MSBSD website at http://www.matsuk12.us/bids for any additional information or addenda that may have been issued.

The original and six (6) copies of the narrative proposal must be submitted and clearly marked. Proposer must also provide a USB drive with a PDF copy of the narrative proposal. The cost proposal should be submitted separately as outlined in subsection (F) below.

The proposal shall include, at minimum, the following:

A. Signature Page: Request for Proposal signature page signed by responsible party.

B. Introduction and Executive Summary:
1. Provide a brief description of your firm, including history, organizational structure, ownership structure, names of principals, number of employees, and number of years in business. Include any information that may be of value to the MSBSD in evaluating your firm's qualifications.
2. Briefly describe the services and activities that your firm proposes to provide to the MSBSD, including the overall approach to the tasks described in the Scope of Services.
3. Describe the assignment of work within your firm's work team and with any proposed joint venture or subcontractor arrangements, including the overall approach to managing resources and output. Provide the name, address, phone, fax number and e-mail addresses of the person or persons to be used as contacts.

C. Firm Qualifications & References: Provide information on your or your firm's qualifications and references, to include but not be limited to the following:
   1. Firm History and Background
      Describe your firm's corporate background and experience. At minimum, proposers must address the following information:
      a. General information about the firm's organization, including date established, corporate office location, and ownership interests.
      b. Identification of active business venues (counties, states, etc.)
      c. General description of staff composition and organization.
   2. Firm Experience and Customer References
      The proposer must provide a description of experience in providing earthquake assessments for school districts whose needs and size are comparable to those of MSBSD. In addition to a description of experience, the proposer must describe its current customer base and include references as follows:
      a. Provide at least three (3) references of school district customers, with two (2) references preferred from school districts within Alaska. References should include the following for each customer:
         i. Name of organization
         ii. Location of organization (city/county, state)
         iii. Nature of services provided
         iv. Duration of relationship
         v. Contact name, phone number, and email address
      b. Provide three to five relevant past projects, with a preference placed on providing FEMA compliant earthquake assessments. Project experience should include the following for each project:
         i. Name of organization
         ii. Location of organization (city/county, state)
         iii. Nature of services provided
         iv. Photographs of completed work

D. Project Approach: Describe your firm's approach to the tasks described in the Scope of Services. Provide information on your or your firm's understanding of the requirements of the MSBSD's needs and approach to be used, to include but not be limited to the following:
   1. Project Team Organization/Staffing
      a. The proposer must provide an organizational chart of their proposed team.
      b. The proposer must identify the staff and other resources available to the MSBSD, including a description of any of the firm's partnerships or affiliations which could be leveraged to add value to the services being provided.
      c. The proposer must define the roles and responsibilities of each of its assigned staff. In addition, provide resumes of each staff member working on the team. Resumes should include work history related to this project and relevant qualifications and certifications.
      d. The proposer must describe in detail any work to be carried out by subcontractors. Those subcontractors should be identified whenever possible.
   2. Project Work Plan
      a. The proposer will be responsible for the development and maintenance of a detailed project work plan. This must include, but is not limited to, the identification of all project phases, stages, and tasks and the respective start dates, duration of tasks and dependencies of tasks, milestones, deliverable due dates, and responsible party.
      b. The proposer must address the following MSBSD-identified milestones:
         i. Kickoff meeting with MSBSD and DHS&EM: June 1, 2026

ii. Monthly progress meetings: will be coordinated with the MSBSD
iii. Final Presentation: March 5, 2027

3. Project Approach
   a. The proposer must describe their approach to the project and demonstrate their understanding of the MSBSD's needs.
4. Issue Management
   a. The proposer must describe approach to managing issues that may arise through the execution of the work described in Section 3: General Requirements and Section 4: Scope. Description should include specific approach to identification, communication, and resolution of such events.
   b. The proposer must specifically detail the approach to addressing and resolving concerns and complaints from the MSBSD.
5. Communication, Reporting, and Invoicing
   a. The proposer must describe how the firm would ensure quality and timeliness of communication with the MSBSD, including:
      i. The proposed communication methods and timelines to ensure the MSBSD is kept apprised of important information.
      ii. The proposed reporting measures used to ensure quality assurance is being maintained and provided to the MSBSD.
   b. The proposer must detail all reports and drawings that will be presented during the design meetings.

E. Resumes: Provide resumes for key personnel as described in subsection (D) of this section.

F. Sealed Cost Proposal: Cost proposal should be submitted in a separate sealed envelope within the larger, original sealed proposal. Only one copy of the cost proposal is desired. Do not submit cost information in the electronic copy of the proposal documents. Cost proposal should be submitted on the form provided in Attachment C: Cost Proposal.

G. Addendum Acknowledgement: Appendix 1, Addendum Acknowledgement, fully executed and signed.

H. Non-Collusion Certificate: Appendix 2, Non-Collusion Certificate, fully executed and signed.

I. Evidence of Insurance: Provide Evidence of Insurance as required in the RFP documents and Appendix 3.

J. Vendor Paperwork: Appendix 4, Vendor Paperwork, fully executed.

K. Proposed Subcontractors and Suppliers: Appendix 5, Proposed Subcontractors and Suppliers List filled out (if applicable).

L. Suspension and Debarment: Appendix 11, Suspension and Debarment, fully executed and signed.

M. Clean Air and Water: Appendix 12, Clean Air and Water, fully executed and signed.

N. Lobbying Activities: Appendix 13, Lobbying Activities, fully executed and signed.

O. Licenses: Provide copies of State of Alaska business license and all other licenses, certificates, or permits required by city, borough, state and federal law as applicable.

7. CONTRACT TERM

The term of any contract resulting from this solicitation shall begin on June 1, 2026 and end March 5, 2027. The MSBSD may extend this contract by giving written notice to the selected proposer prior to the expiration of the then-existing term, if it is found to be in the MSBSD's best interest.

8. CONTRACT MANAGEMENT

At the commencement of any resulting contract, the MSBSD and the successful proposer shall each designate a contract administrator. Such persons shall be each respective party's single point of contact for purposes of management of the contract. The proposer's contract administrator shall assume responsibility for the coordination of all contract issues under the contract.

9. SUBCONTRACTORS

If the proposed solution includes subcontractors, proposer must provide a detailed explanation of work to be done and complete Appendix 5, Proposed Subcontractors and Suppliers List. Subcontractors must comply with all licensing, indemnity, insurance limits, and insurance requirements imposed on the proposer.

ATTACHMENT B:
EVALUATION CRITERIA

1. GENERAL

An Evaluation Committee will be selected by the Matanuska-Susitna Borough School District (MSBSD) to review the proposals.

2. NARRATIVE PROPOSAL SCORING

The total score of all below criteria combined will dictate the ranking of proposals. Each proposal will be evaluated based on the criteria provided below.

Outstanding	1.0 – 0.9	The proposal far exceeds expectations, is very desirable, and has an excellent probability of success.
Excellent	0.8 – 0.7	The proposal exceeds the requirements of the criterion, demonstrates a high level of competence, and has a very good probability of success.
Good	0.6 – 0.5	The proposal meets the requirements of the criterion, achieves all objectives in a reasonable fashion, has a good probability of success.
Fair	0.4 – 0.3	The proposal adequately meets most of the requirements of the criterion, may be lacking in some areas which are not critical, and has a reasonable probability of success.
Poor	0.2 – 0.1	The proposal addresses some, but not all, of the requirements of the criterion to the minimum acceptable level, falls short of expectations, is lacking in some areas which are critical, and has a low probability of success.
Unsatisfactory	0	The proposal does not meet the requirements of the criterion, and the approach has no or very low probability of success.

The maximum weight (score) for each criterion is provided in the rubric below. The evaluation system is based on a maximum score of 100 points. Calculated points will be rounded to the nearest tenth of a point.

EXAMPLE: Firm A receives a score of 0.6 (Good) on the Introduction and Executive Summary criterion. Firm A's weighted score for that item would be:

5 points maximum x 0.6 score = 3.0 points

For the purposes of evaluation, a rating of "Good" or "Fair" shall be considered a baseline rating. Ratings outside of this range shall be justified by the evaluator.

In evaluating proposals, factors such as overall experience relative to the proposed contract, quality of work, control of cost, and ability to meet schedules may be considered. Evaluators may also contact listed references or other persons with knowledge of a proposer's past performance in order to make determinations.

3. COST PROPOSAL SCORING

In addition to a narrative proposal, the proposer shall prepare a cost proposal for the work to be performed. Attachment C: Cost Proposal Form should be completed and submitted in a separate sealed envelope. Cost proposals shall be scored using the following formula, which assigns the full point value to the least-cost proposal:

Maximum points available x (Lowest Price Received / Proposer's Price)

EXAMPLE: Firm A proposes $60,000; Firm B proposes $75,000; and Firm C proposes $80,000.

Firm A: (20 points maximum x ($60,000/$60,000)) = 20.0 points
Firm B: (20 points maximum x ($60,000/$75,000)) = 16.0 points
Firm C: (20 points maximum x ($60,000/$80,000)) = 15.0 points

4. EVALUATION CRITERIA

The final evaluation scores will be based on the following criteria and point system:

EVALUATION CRITERIA	MAXIMUM POINTS	SCORE	WEIGHTED SCORE
NARRATIVE PROPOSAL			
INTRODUCTION AND EXECUTIVE SUMMARY			
This criterion reflects the extent to which the proposal addresses, in a professional and well-organized manner, the services and activities the firm proposes to provide, including the overall approach to the tasks described in the scope of service.	5		
FIRM QUALIFICATIONS & REFERENCES			
Firm History and Background: The firm must have a background and history that substantiates its stated ability to perform the services as required by the scope. (Demonstrate this qualification by describing the firm's background and its capacity to meet the needs of the MSBSD.)	10		
Firm Experience and Customer References: The firm must have experience in performing work for other clients of comparable size and complexity. (Demonstrate this qualification by describing such experience and providing references that include the nature of services provided for each.)	15		
PROJECT APPROACH			
Contract Team Organization/Staffing: The firm must have a viable approach to staffing. (Demonstrate this qualification by describing the assignment of work within the firm's team and with any proposed subcontractor arrangements, including the overall approach to managing resources and project output.)	20		
Project Work Plan: The firm must have a viable approach to the tasks and schedule required for the project. (Demonstrate this qualification by providing the firm's detailed project plan that achieves the milestone dates set forth by the MSBSD.)	25		

Project Approach: The firm must have a viable approach to the design and administration of the project. (Demonstrate this qualification by describing the firm's approach and plan for the requested services.)	35		
Issue Management: The firm must have a viable approach to manage issues that arise in the course of the project. (Demonstrate this qualification by describing the firm's plan for handling such events, including identification, communication, and resolution.)	10		
Communication, Reporting, and Invoicing: The firm must provide overview of methods in which information will be provided to MSBSD. (Demonstrate this qualification by describing the firm's communication, reporting, and invoicing plans, including methods and timelines.)	5		
SUBTOTAL	**125**		
COST PROPOSAL	**75**		
TOTAL SCORE	**200**		

ATTACHMENT C:
COST PROPOSAL FORM

BASE COST PROPOSAL		
Item No.	**Proposal Item**	**Amount**
1	Provide a FEMA compliant Tier II Earthquake Assessment for Colony High School	$_____
	TOTAL BASE COST	**$_____**

The undersigned hereby further proposes to furnish all services, including labor, supplies, and supervision necessary to provide a Tier II Seismic Assessment to the MSBSD in full accordance with the Request for Proposal documents:

_____

Company Name

_____

Authorized Signature | Printed Name | Date

APPENDIX 1:
ADDENDUM ACKNOWLEDGEMENT

Please sign below to acknowledge receipt of all addenda. Return this form with your bid packet. Failure to acknowledge receipt of addenda may result in a determination of your proposal as non-responsive.

If no addenda have been issued, please indicate "NONE" below.

Addendum No.	Receipt Acknowledged (Signature)	Date

APPENDIX 2:
NON-COLLUSION CERTIFICATE

The bidder certifies that:

1. The prices in this offer have been arrived at independently and neither the bidder nor any representatives of the bidder has in any way colluded, conspired, connived, or agreed, directly or indirectly, with any other bidder, firm, or person relating to:
   - Those prices;
   - The intention to submit an offer; or
   - The methods or factors used to calculate the prices offered.

2. The prices in this offer have not and will not be knowingly disclosed by the bidder, directly or indirectly, to any other bidder or competitor before contract award unless otherwise required by law.

3. No attempt has been made or will be made by the bidder to induce any other concern to submit or not to submit an offer for the purpose of restricting competition.

_____
Signature

_____
Printed Name

_____
Title

_____
Business Name

_____
Date

APPENDIX 3:
INSURANCE REQUIREMENT FOR CONTRACTORS

It is highly recommended that contractors and subcontractors confer with their respective insurance companies or brokers to determine if their insurance program complies with the Matanuska-Susitna Borough School District's (MSBSD) insurance requirements.

The contractor and subcontractors shall procure and maintain in force at all times during the term of this agreement, and at its own cost, the following insurance policies required hereunder. Failure to furnish proper evidence of insurance, or the lapse of insurance required under the provisions of the contract, may be grounds for termination.

The insurance companies shall be rated no less than A-7 by AM Best rating service. MSBSD reserves the right to review and revise any of the following insurance requirements, based on insurance market conditions, availability or affordability of coverage, or changes within the scope of work that applies to this contract. In addition, the MSBSD reserves the right to reject any insurance policies that fail to meet the criteria listed within this section, or insurance carriers that are in poor financial condition or become in poor financial condition during the term of this contract.

The Policies of insurance required shall include the following:

1. **WORKERS' COMPENSATION INSURANCE:**
   Workers' Compensation Insurance in compliance with the laws of the State of Alaska, with Statutory Limits, and Employers' Liability insurance with a limit no less than $1,000,000 per accident for bodily injury or disease, and any other coverage that may apply to work performed by employees in this agreement and any project hereunder.

2. **COMMERCIAL GENERAL LIABILITY INSURANCE:**
   The contractors and subcontractors shall procure and maintain during the life of this agreement, Commercial General Liability Insurance on a "per occurrence" basis with limits of liability not less than $1,000,000 combined single limit bodily injury & property damage, $1,000,000 personal injury, $2,000,000 aggregate. Coverage shall include the following extensions: A) Contractual Liability; and B) Products and Completed Operations.

3. **EXCESS LIABILITY INSURANCE:**
   Contractors and subcontractors shall procure and maintain during the life of this agreement, Excess Liability insurance with a limit of liability not less than $5,000,000 per occurrence or claim, and $5,000,000 policy aggregate.

4. **PROFESSIONAL LIABILITY:**
   Professional Liability (Errors and Omissions) Insurance appropriate to the Contractor's profession and work hereunder, with a limit no less than $1,000,000 per occurrence or claim, $1,000,000 aggregate, with a two year extended reporting provision.

5. **BUSINESS AUTOMOBILE / MOTOR VEHICLE LIABILITY:**
   The contractors and subcontractors shall procure and maintain during the life of this agreement, Motor Vehicle Liability Insurance with limits of liability of not less than $1,000,000 per occurrence combined single limit bodily injury and property damage. Coverage shall include all owned vehicles, all non-owned vehicles, and all hired vehicles.

6. **ADDITIONAL INSURED:**
   The following shall be listed as an Additional Insured on each policy listed except Workers' Compensation, Professional Liability, and Errors & Omissions: the Matanuska-Susitna Borough School District including all agents, assigns, subsidiaries, subcontractors, employees, and volunteers of the MSBSD.

7. **INDEMNIFICATION AND HOLD HARMLESS:**
   Each party shall indemnify, defend, and hold harmless the other party from and against any claim of, or liability for, negligent acts, errors, and omissions of the other party under this agreement. However, a party is not required to indemnify, defend, or hold harmless the other party for a claim of, or liability for, the independent negligent acts, errors, and omissions of the other party. If there is a claim of, or liability for, a joint negligent act, error, or omission of both parties, the indemnification, defense, and hold harmless obligations of this provision shall be apportioned on a comparative fault basis.

8. **CANCELLATION NOTICE:**
   All insurance policies, as described above, shall include an endorsement stating the following: "thirty (30) days Advance Written Notice of Cancellation or Non-Renewal shall be sent to: MSBSD, Attn: Purchasing Department, 690 Cope Industrial Way, Palmer, AK 99645.

9. **WAIVER OF SUBROGATION:**
The insurer(s) shall agree to waive all rights of subrogation against the District, its Administrators, officers, officials, employees and volunteers for losses arising from work performed by the Contractor or any of its subcontractors for the District.

10. **CERTIFICATES OF INSURANCE:**
The contractors and subcontractors shall provide the MSBSD two (2) Certificates of Insurance and/or copies of policies acceptable to the MSBSD for the coverage's listed herein at the time the agreements are returned for execution.

11. **CONTINUATION OF COVERAGE:**
If any of the above coverage expires during the term of this agreement, the contractors and subcontractors shall deliver renewal certificates of insurance and/or policies to the MSBSD at least ten (10) days prior to the expiration date.

The duties required under this appendix shall survive the termination or expiration of this agreement.

APPENDIX 4:
VENDOR PAPERWORK

Please complete this form in its entirety. Any applicable supplemental documents can be attached as needed. A W-9, available at www.irs.gov/uac/about-form-w9, must be submitted with this form or the application will be denied.

Please check one: ☐ New Vendor Application ☐ Vendor Update/Change

Vendor Legal Name _____ EIN or SSN _____

Operating Name (DBA) _____

Vendor Mailing Address _____

City, State, Zip Code _____

Vendor Remit-To Address _____

City, State, Zip Code _____

Vendor Contact Name _____

Contact E-mail Address _____ Phone # _____

Vendor Website URL _____ Fax # _____

Describe the services, materials, and/or equipment to be provided:

How long have you been in business providing these services, materials, and/or equipment?Describe any special instructions for shipping to Alaska:

Do you accept Purchase Orders (POs)? ☐ Yes ☐ No

How to you prefer to receive POs? Mail ☐ Email ☐ Fax

What is your preferred method of payment? ☐ EFT ☐ Check

Do you provide services to the public? ☐ Yes ☐ No

Do you have a current Business License?Do ☐ Yes ☐ No License # _____ State _____

you have a State of AK Business License?Do ☐ Yes ☐ No License # _____

you have a Mat-Su Business License? ☐ Yes ☐ No License # _____

Are you currently an MSBSD employee? ☐ Yes* ☐ No *Stop. Complete a Conflict of Interest Affidavit.

Are you related to an MSBSD employee? ☐ Yes* ☐ No *Stop. MSBSD employee must complete a Conflict of Interest Affidavit.

Do you have employees? ☐ Yes* ☐ No *Do you carry Worker's Compensation insurance? ☐ Yes ☐ No

Upon request, can you provide three (3) references from individuals/companies you have served? ☐ Yes ☐ No

Authorized Agent Signature (Required) Date Printed Name and Title

Purchasing Department Use Only:

W-9 Attached? ☐ Yes ☐ No

Pre-Pay? ☐ Yes ☐ No

Sent to Acctg.: _____

Approved? Yes ☐ ☐ No* Vendor # _____

Approved/Denied By _____

*Reason for Denial _____

Alt. Vendor # _____ Alt. Vendor Name _____

APPENDIX 5:
PROPOSED SUBCONTRACTORS AND SUPPLIERS LIST

NOTE: Please return this with your bid, if applicable. Put an "X" in the right columns indicating if the company is a sub-contractor or a supplier.

#	ITEM	CONTRACTOR NAME, ADDRESS, & E-MAIL	SUB	SUP
1				
2				
3				
4				
5				
6				
7				
8				
9				
10				

Signature

Company Name

Date

STRUCTURAL NOTES

CODE

UNIFORM BUILDING CODE 1985 EDITION

LOADS

ROOF:	SNOW (Uniform)	40 PSF	
	Drifting Allowances per ANSI A58.1-1982		
FLOOR:	CORRIDORS, STAIRS	100 PSF	
	MECHANICAL ROOMS	125 PSF	
	LIBRARY	125 PSF	
	CLASSROOMS	60 PSF	
	RUNNING TRACK, CATWALKS	40 PSF	
	ALL OTHER AREAS	60 PSF	
WIND:	UBC 100 MPH - EXPOSURE B		
	BASIC PRESSURES: TO 20 FT	27 PSF	
	ABOVE 20 FT	30 PSF	
SEISMIC:	UBC ZONE 4		
	K = 1.33		
	I = 1.25 (ASSEMBLY AREAS) 1.0 OTHERWISE		
	CS = 0.14		

(A) PREVIOUSLY ABOVE INCLUDE GYMNASIUM LAKE LOOSE MIL AND DRAMA MEZ

FOUNDATIONS

1. Refer to Soils Investigation Report No 185299, dated September 26, 1985 and Design Memorandum dated September 6, 1985 prepared by Gilfillian Engineering, Inc., Wasilla, Alaska for field investigations of this site and design recommendations.

2. Footings are designed to bear on undisturbed native sandy gravel soils. In some locations, it will be necessary to overexcavate silty soils above the sandy gravel layer and remove. Backfill overexcavated areas with Type I Classified fill and compact as specified. Design allowable soil pressure = 5000 PSF. Contractor is to use soil log data to determine quantities of silt removal and related backfill. See specs for soils report information.

3. All topsoil, fill, debris, organic material, and frozen soil shall be removed from the building site.

4. Fill and backfill under footings and around walls shall be placed in 10 inch maximum lifts and compacted to at least 95% of the maximum density as determined by ASTM D-1557. Fill under slabs-on-grade shallbe placed in 10 inch maximum lifts and compacted to at least 95% of the maximum density as determined by ASTM D-1557.

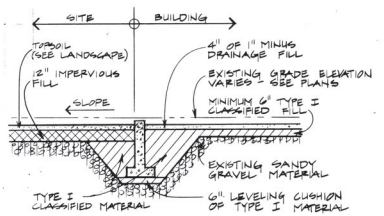
5. All slab-on-grade shall be underlain with a reinforced polyethylene sheet moisture barrier and a minimum 4 inch layer of 1 inch minus NFS granular fill.

6. While it is the responsibility of the Contractor to provide safe working conditions for building excavations, the following guidelines for unshored temporary excavations are provided for planning purposes:

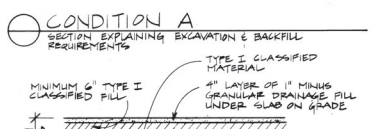
Depth of Excavation in feet	Slope Inclination, Horizontal:Vertical
0-4	1:2
4 or greater	1:1

7. All soils under footings, interior slabs, or other interior structural elements shall be protected from freezing during the entire construction timetable. Heaved concrete due to nonprotection is the contractor's responsibility to replace.

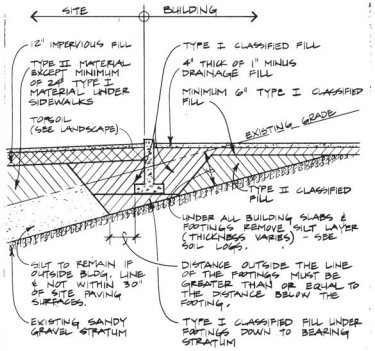
8. Positive drainage shall be provided, during construction, to remove surface and roof runoff well away from building foundations.



CONDITION A
SECTION EXPLAINING EXCAVATION & BACKFILL REQUIREMENTS



CONDITION B
EXPLANATION OF EXCAVATION & BACKFILL REQUIREMENTS @ INTERIOR BUILDING TRENCHING



CONDITION C
SECTION EXPLAINING EXCAVATION & BACKFILL REQUIREMENTS

NOTES

1. All footings must bear on sandy gravel stratum or on Type I classified backfill carrying loads down to sandy gravel stratum. Footings cannot bear on or above silt layer.

2. Where silt layer exists under the buildings slab on grade, it is to be removed down to the sandy gravel stratum and replaced with Type I classified material.

3. Both sides of foundation walls are to be backfilled with Type I classified material.

4. See specs and foundation notes for additional data.

REINFORCED CONCRETE

1. All concrete shall have a minimum 28-day compressive strength of 3500 PSI with a minimum cement content of 6 sacks per cubic yard.

2. The laboratory designed mix strength used as a basis for selecting proportions of ingredients for concrete shall exceed the minimum design strength of 3500 PSI as specified in Chapter 4, Building Code Requirements for Reinforced Concrete, ACI 318-83.

3. Reinforcing steel shall be ASTM A615, Grade 60, except stirrups and ties which may be Grade 40.

4. Welded wire fabric shall conform to ASTM A185-79, Type 14 X 14 - D7/D7 (50 lb./100 s.f.). Provide in flat sheets in all slab on grade and slabs over metal deck u.n.o. Place within 1-1/2" of top at slabs on grade and within 1" of top of slabs over deck. Support with chairs to insure proper placement of concrete.

5. All concrete to be prepared, formed, cured and placed as per applicable ACI Codes or as specified.

6. All concrete walls shall contain the following as minimum reinforcing. This applies unless details show a greater quantity.

Wall Thickness	Reinforcing Location	Horizontal Bars	Vertical Bars
6" thru 7"	Center of Wall	#4 @ 14"	#4 @ 18"
8" thru 9"	Center of Wall	#4 @ 12"	#4 @ 12"
10" thru 11"	Each Face	#4 @ 12"	#4 @ 12"
12" thru 16"	Each Face	#5 @ 15"	#5 @ 15"
17" thru 18"	Each Face	#5 @ 12"	#5 @ 12"
19" & over	Each Face	#6 @ 12"	#6 @ 12"

7. All horizontal bars shall be continuous around corners. At intersecting walls, reinforcing shall be extended through and lapped on the opposite face of the continuing wall. All openings shall be reinforced with 2-#5 bars on all sides of the opening extended 2'-6" minimum beyond the opening and with 1-#5x4'-0" diagonal bar at each corner for each layer of steel, unless detailed otherwise. Provide a minimum of 2-#5 vertical bars and matching dowels at all wall ends and wall intersections.

8. All lap splices shall be Class B splices as defined by ACI 318-83 with appropriate modification factors unless shown otherwise. See the Table of Reinforcing Laps on Sheet S-6.1.

9. Chamfer all exposed corners 3/4 inch unless noted.

10. Cover on reinforcement shall be as follows:

3 "	Placed against earth
2 "	To earth face of walls
1 "	To inside face of walls
1-1/2 "	To beams and columns (to ties)
1 "	To top of slabs on metal deck

Center Reinforcing or woven wire fabric in slabs-on-grade

MASONRY

1. All masonry work to be in accordance with the Uniform Building Code, ~~1982~~ 1985. (A)

2. All concrete masonry units shall have a minimum compressive strength of 1,350 PSI, Grade N. Lay all units with stack bond.

3. All masonry grout shall have a minimum 28-day compressive strength of 2000 PSI, 3/8 inch aggregate, 7 to 8 inch slump.

4. All masonry mortar shall have a minimum 28-day compressive strength of 1,800 PSI, Type S.

5. Reinforce all masonry as indicated on the drawings. If not indicated onthe drawings, reinforce walls as follows. This applies to both load bearing and non-loadbearing walls; i.e., all masonry. Following is the minimum reinforcing required at all masonry walls. This applies unless plans show a greater quantity.

12" CMU - (2) #6 @ 48" verts, offset in grouted cells
(2) #6 @ 48" horiz, in bond beams grouted full

10" CMU - (2) #5 @ 48" verts, offset in grouted cells
#7 @ 48" horiz, in bond beams grouted full

8" CMU - #6 @ 48" verts, ctrd in grouted cells
#6 @ 48" horiz, in bond beams grouted full
EXCEPT (3) #6 VERTS IN TOP BOND BEAM

6" CMU - #5 @ 48" verts, ctrd in grouted cells
#5 @ 48" horiz, in bond beams grouted full
EXCEPT (3) #6 VERTS IN TOP BOND BEAM

In addition to the rebar listed above, provide horizontal joint reinforcement consisting of 2-9 gauge longitudinal wires and trussed ties (Dur-o-Wall or approved equal) at 16" vertical spacing in all CMU.

Masonry veneer - horizontal joint reinforcing at 16" oc
Consisting of two 9 gauge galvanized wires with trussed wires used as connectors; i.e., 4" Dur-O-Wall or equal.

6. Provide 2 - #4 bars all sides of wall openings 24" or greater in either dimension. Extend reinforcing each way 24" beyond opening.

7. Provide 2 - #5 verts and foundations dowels each side of door and window openings. Extend reinforcing 24" beyond opening.

8. As a minimum requirement dowel all masonry walls to concrete foundation walls with 1-#5x3'-6" at each vertical wall bar, embed 1'-6" into concrete. All vertical bars in masonry walls directly above concrete shall have matching foundation dowels.

9. Splices in rebar to lap 40 diameters, 12" minimum.

10. Provide 27" x 27" horizontal corner bars equal in size and number to horizontal reinforcement at all corners and wall intersections.

11. Reinforcing is to be centered in masonry unless shown otherwise. When 2 vertical reinforcing bars are called out on the drawings, both bars shall be placed in the same grouted cell and offset as dctailed on the drawings.

12. Provide weep holes in masonry veneer @ 32" oc, unless noted otherwise.

13. See Specs for attachment (flexible ties) at veneer.

14. Typical control joints in masonry (vertical).

4" block veneer. Provide caulked joints with backing rod at locations shown on drawings. Regardless of that shown on the drawings, the maximum horizontal distances between control joints shall be ~~20'-0"~~ 32'-0" at exterior block and 32'-0" at interior block. (This same spacing applies to brick veneer alternate). (A) RFP #23 (A)

8"-8", 10" & 12" CMU - Provide rapid control joints and related jamb block (with backer rod and caulking where exposed to view or ceiling space) at locations shown on drawings. Regardless of that specifically shown or not shown on drawings, the maximum horizontal distances between control joints shall be ~~20'-0"~~ 32'-0" at exterior block and 32'-0" at interior block. Where CMU exists together with 4" veneer, the joint location shall match. 32'-0" o.c. (A)

Provide color of caulking to match mortar color. See Section ~~07920~~ 07900 of the Specs for caulking type. All control joints shall be 3/8" wide. Caulking shall be at least 1/4" in thickness with backing rod behind.

15. All non-load bearing masonry walls (interior walls) shall allow for vertical deflection of the structure above but shall be connected so as to resist lateral seismic forces as per Detail 12/S6.1, 26/S7.2, OR 27/S7.2.

16. Where 2" nominal masonry or 4" masonry wraps steel columns, provide 16 ga. galvanized corrugated ties @ 16" o.c. each way (tack weld to column and extend to within 1/2" of outside of mortar joint). Also provide 9 ga. galvanized deformed joint reinforcing bent to conform to bed joint configuration and forming wrap around column. Space joint reinforcing @ 16" o.c. vertical.

PRECAST CONCRETE

1. Concrete for precast architectural members shall meet the requirements of Section 03310 except the 28 day design strength shall be 5000 psi. Precast members shall be designed, and manufactured according to PCI Standards.

2. Precast members shall be designed to support all uniform and concentrated loads as shown on the structural drawings. The precast concrete manufacturer shall design for all casting, handling, transportation, and erection loads.

3. Provide inserts, embeds, plates, and blockouts as required by the structural, architectural, and electrical drawings. G.C. to coordinate.

4. The depth and configuration of all precast concrete products shall be as shown on the drawings.

STRUCTURAL STEEL

1. All detailing, fabrication, and erection shall be in accordance with AISC Specifications, 8th Edition, 1980.

2. Plates, wide flange shapes, channels, and angles shall be ASTM A36. Tube columns ASTM A501. Pipe columns ASTM A53, Type E or S.

3. All bolts shall be 3/4" diameter high-strength ASTM A325 with load indicating bolts or washers unless otherwise noted. Bolts indicated as machine bolts (MB) or anchor bolts (AB) shall conform to ASTM A307.

4. All welds shall conform to AWS D1.1 latest edition. Electrodes shall be E70XX (E60XX at metal studs).

5. Welded shear stud connectors shall conform to and be installed in accordance with UBC Standard 27-8.

6. Steel floor deck shall be 2", 20 GA., galvanized composite deck with wide rib spacing for shear connectors, and the following minimum properties per foot of width:

I = .420 in 4 S = .365 in 3

Floor Deck Welding:

End laps - 3 welds per 24" sheet.
Intermediate Supports - 3 welds per 24" sheet.
Side laps - Button punch at 18" oc
Parallel Side Supports - Fusion welds at 18" oc
All welds to be 5/8" dia fusion welds.

7. Metal roof deck shall be 1-1/2", 20 gauge galvanized (typical) or in some locations 18 gauge galvanized as specifically shown, Type B1, galvanized, the following minimum properties per foot of width:

18 Ga: I = .280 in 4 S = .306 in 3
20 Ga: I = .208 in 4 S = .230 in 3

Provide 1-1/2", 20 gauge galvanized accoustical deck above Rooms B-147, D-113, E-125, E-126 E-128, G-116, & G-120. Accoustical deck structural properties shall conform to the above requirements. Galvanization of acoustideck to be A-60.

Roof Deck Welding shall be as follows unless specifically noted on the dwawings.

End laps - 7 welds per 36" sheet

Intermediate Supports - 5 welds per 36" sheet
Side laps - Top seam weld @ 12" oc (A) RFP #4
Parallel Side supports - puddle welds @ 18" oc

All puddle (fusion) welds shall be 5/8" dia.

8. Metal roof deck for the Gymnasium shall be 3", 18 gauge, and 16 gauge, (Galvanized A-60) galvanized Type N1, accoustical with the following minimum section properties per foot of width.

18 ga - I = 1.223 in 4 S = .731 in 3
16 ga - I = 1.647 in 4 S = .950 in 3

End laps - 4 welds per 24" sheet
Intermediate Supports - 4 welds per 24" sheet
Side laps - Top seam weld @ 12" oc (A) RFP #4
Parallel Side supports - puddle welds @ 12" oc

All puddle (fusion) welds shall be 5/8" dia.

9. All Steel Joists shall be designed and fabricated in accordance with the Steel Joists Institute "Standard Specifications and Load Tables". Provide structural calculations for all joists.

10. Steel joist bridging shall conform to details shown and to SJI Standards. The ends shall be solidly anchored into the adjacent structural elements.

METAL STUDS

1. All 6" structural metal studs shall be 6" C-shaped with 1-5/8" wide flanges by 16 gauge. Minimum S=.99, Minimum I=2.97.

2. All metal stud walls to have 14 ga. min. unpunched track top and bottom.

3. Studs shall be seated firmly and squarely against the inside track web. Weld both flanges to track.

4. Provide rows of horizontal stiffeners (1-1/2" 16 ga. channels) at 4'-6" o.c. Weld to studs.

5. All structural metal stud walls to be double studs spaced at 16" o.c. (equivalent of 8" o.c.), except double studs at 12" o.c. at wall section 29/A3.5.

6. Because of typical double stud arrangement, tack weld double studs together at 4'-0" o.c. vertically so they will act together if one is loaded.

7. Unless plans call for more stringent attachment, as a minimum, attach bottom track to foundation wall, concrete, or block bond beam with 9/64 x 1-1/2" power actuated drive pins with 7/8" washer. Space at 32" o.c. Provide double attachment (two drive pins) directly adjacent to each side of all openings. Attach track to metal beams or angles with field welds spread at 32" o.c. maximum. Provide each weld capable of resisting 1000 lbs. sheer force.

8. Frame wall openings with double studs at each jamb of frame except where more than 2 are shown or indicated in manufacturer's instructions.

GENERAL NOTES

1. Coordinate dimensions, openings, embedded items and conditions with architectural, civil, plumbing, mechanical, electrical, and all other drawings and trades. Not all items are indicated on structural drawings so be sure to review the other documents.

2. Shop drawings shall be required on reinforcing steel for concrete and masonry, structural steel, metal deck, steel joists, and pre-cast concrete members and shall be reviewed prior to fabrication.

3. Provide temporary support of structure and components during construction as required to resist the wind and seismic loads noted on this sheet. The drawings indicate the structure in its final form capable of supporting design loads. However, completed bracing of shear walls and completed floor and roof diaphragms are essential to proper lateral support, therefore, walls and frames must be temporarily supported during construction.

4. In addition to the work shown on the drawings, the contractor shall furnish the following to be cut and fabricated on the job or in the steel fabricaters shop and erected or placed as directed by the architect during the course of construction:

100 lf	3/8" fillet weld
16 pcs	Plate 1/2" x 6" x 12"
15 pcs	3 x 3 x 3/16 x 20'-0" angle
15 pcs	4 x 4 x 1/4 x 20'-0" angle
10 pcs	6 x 4 x 3/8 x 20'-0" angle
20 pcs	#5 bar x 20'-0"
30 pcs	#4 bar x 20'-0"
20 pcs	#6 bar x 20'-0"
50 pcs	6" C-shaped x 1-5/8" studs x 20'-0" x 16 ga.
4 pcs	W8 x 31 x 20'
4 pcs	W14 x 30 x 20'
4 pcs	W16 x 36 x 20'
4 pcs	Tube 5" x 5" x 1/4" x 20'-0"

5. Details apply whether referenced or not.

6. Where drains exist in floor slabs and setting beds are not scheduled, all floor slabs shall slope positively and uniformly to the floor drain location. Coordinate with plumbing plans.

7. In case of discrepancies between detail notes and drawing notes, ask for clarification prior to bidding. Such clarification will be issued by addendum. If clarification has not been issued and discrepancies exist, the portion of the documents calling for the highest factor of safety will be required.

(A) ADD THE FOLLOWING TO - MASONRY, NOTE 14

For locations of exterior masonry control joints, architectural exterior elevations Sheet A3.5 take precedence over structural drawings for number and location.

All locations of control joints in masonry shall be a minimum of 24" from centerline of steel joist of WF beam pockets.

RECORD DRAWINGS

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Colony Senior High School
Palmer, Alaska

(A) INDICATES CHANGES MADE BY EITHER ADDENDUM #1 OR ADDENDUM #2. NUMBER IN TRIANGLE SYMBOL CORRESPONDS WITH ADDENDUM NUMBER. 6/30/86

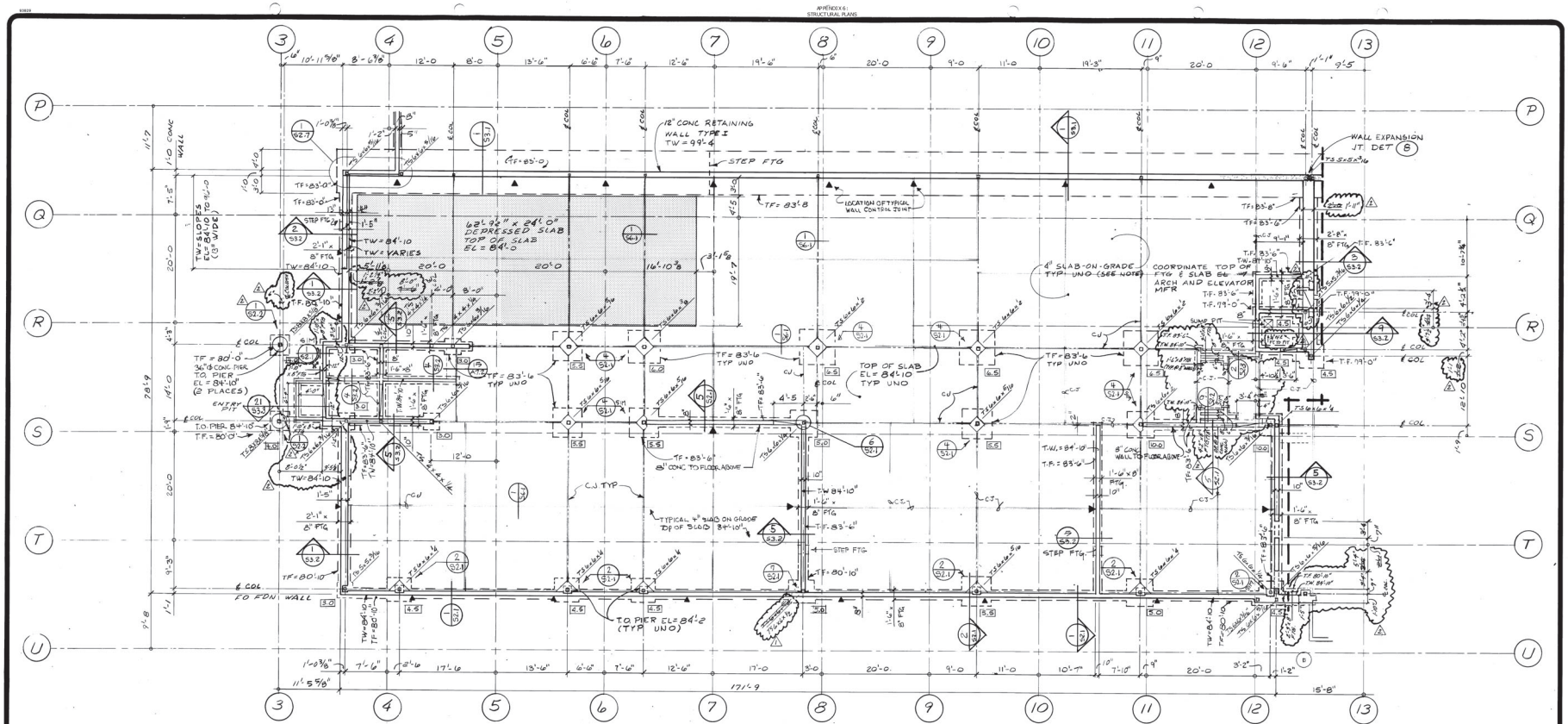
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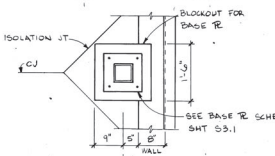
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Gene L. Eckstad
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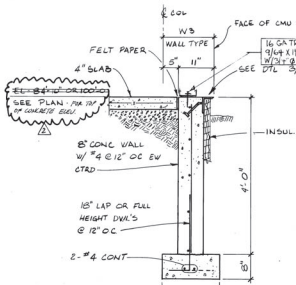
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STRUCTURAL NOTES

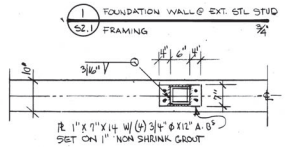
SHEET S-2 OF



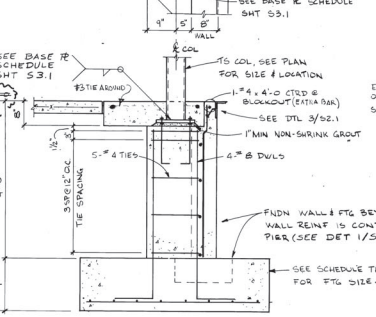




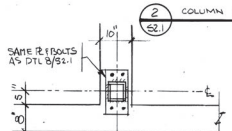
1 S2.1 FOUNDATION WALL @ EXT. STL STUD FRAMING 3/4"



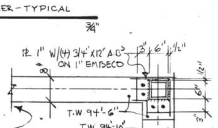
8 S2.1 TYPICAL COL TO 10" FND WALL



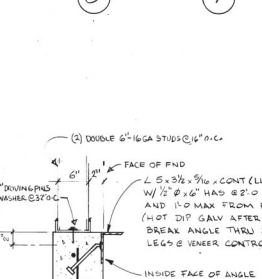
2 S2.1 COLUMN PIER - TYPICAL 3/4"



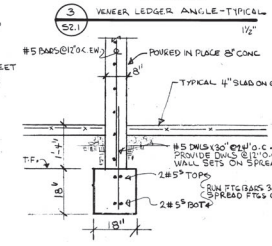
7 S2.1 PLAN



6 S2.1 PLAN



3 S2.1 VENEER LEDGER ANGLE - TYPICAL 1½"



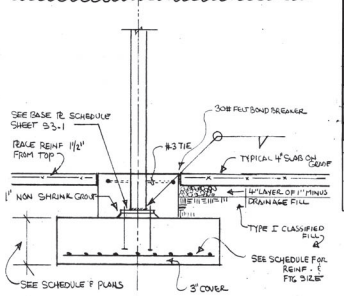
5 S2.1 TYPICAL DTL. @ CONC SHEAR WALL

FOUNDATION PLAN - AREA 'F'

1/8" = 1'-0

1. SLAB-ON-GRADE SHALL BE 4" CONC W/ #4 @ 24" O/C BOTH WAYS UNLESS NOTED OTHERWISE. ALSO SEE STRUCTURAL NOTES ON SHEET S1.1
2. TF = TOP OF FOOTING ELEVATION
3. TW = TOP OF FOUNDATION WALL ELEVATION
4. C.J. (———) = CONTROL/CONSTRUCTION JOINT. SEE DTL 1/S2.1
5. ▲ = INDICATES VERTICAL WALL CONTROL JOINT. SEE DTL 3/S6.1
6. 5.0 = PAD FOOTING DESIGNATION. SEE SCHEDULE THIS SHEET
7. ▭ = INDICATES DEPRESSED FLOOR SLAB. SEE PLAN FOR TOP OF CONCRETE ELEVATIONS, SEE ARCH FOR DIMENSIONS.
8. ◯ = INDICATES TYPICAL STRUCTURAL DETAIL SEE SHEETS S6.1 & S6.2

SEE ARCH 10/A7.4 & 19/A7.4 FOR THICKENED SLAB AT BASE OF STAIRS AND LANDING

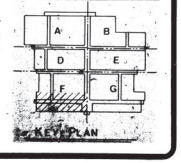


4 S2.1 TYPICAL INTERIOR FOOTING & COL. CONNECTION

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DATE: FEBUARY 1989

PAD FOOTING SCHEDULE				
MARK	W (SQUARE)	T	REINF. EA. WAY	
2.0	2'-0	10"	3-#4	
2.5	2'-6	10"	3-#4	
3.0	3'-0	11"	5-#4	
3.5	3'-6	13"	6-#4	
4.0	4'-0	14"	8-#4	
4.5	4'-6	16"	9-#4	
5.0	5'-0	17"	8-#5	
5.5	5'-6	19"	9-#5	
6.0	6'-0	20"	11-#5	
6.5	6'-6	21"	13-#5	
7.0	7'-0	23"	10-#6	
10.0	10'-0	48"	10-#6 EW TOP & BOT W/ #4 VERT @ 12" O.C.	
10.1	10'-0	6'-9"	10-#4 EW TOP & BOT W/ #4 VERT @ 12" O.C.	
8.0	8'-0	2'-6	8-#4 EW TOP & BOT W/ #4 VERT @ 12" O.C.	



Colony Senior High School

Palmer, Alaska

TERMINATE CHANGES MADE BY FITTERER ADDENDUM #1 OR ADDENDUM #2. REMOVE #3 TO PARALLEL SCHOOL CONSTRUCTION, 5TH ADDITION NUMBER 1/20/06

DRAWN BY: TPL/CWL
CHECKED BY: KWK
DATE: 2 MAY 89
CTA # 89.21.45

Dean Keith Wilson
Dean L. Kolstad
No. 6224
U.S.A.
REGISTERED PROFESSIONAL ENGINEER

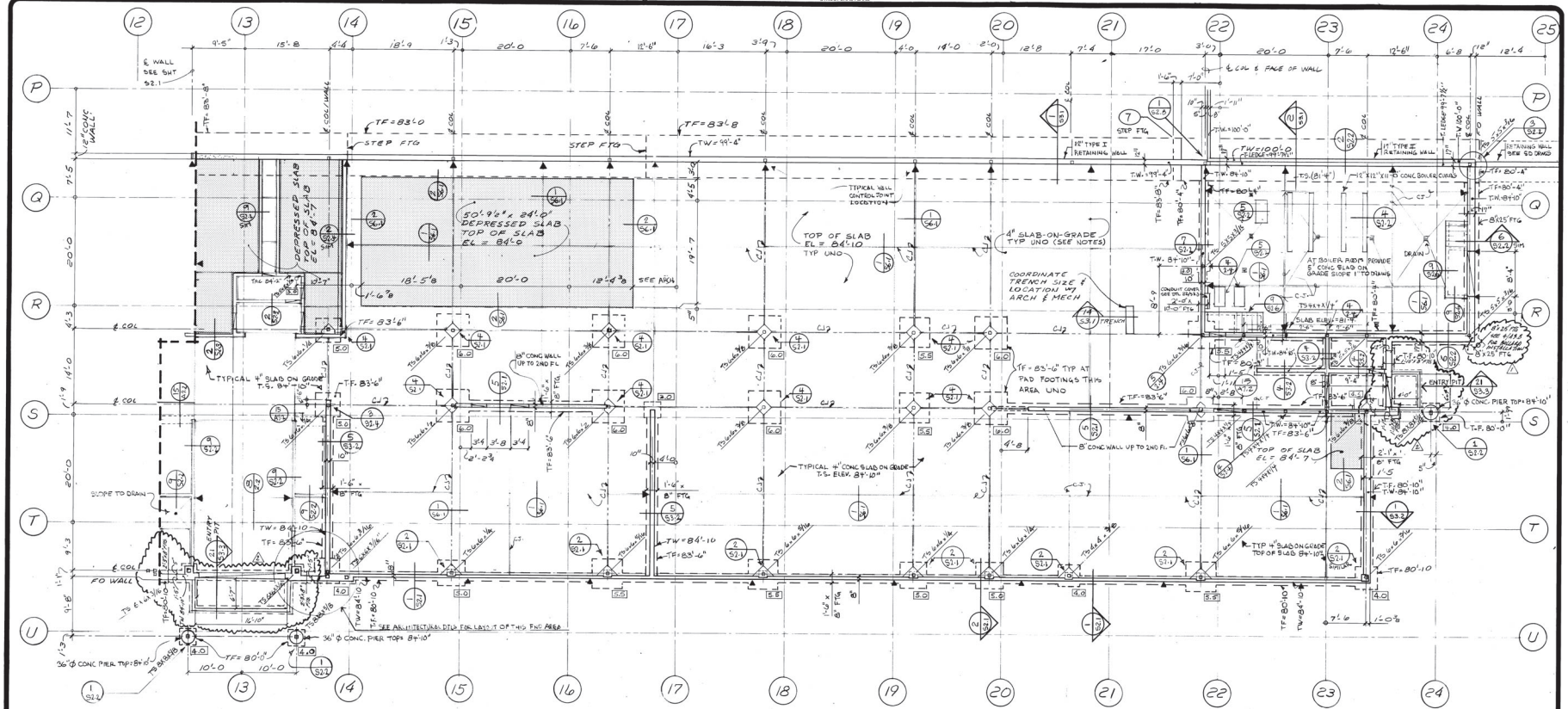
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FOUNDATION PLAN

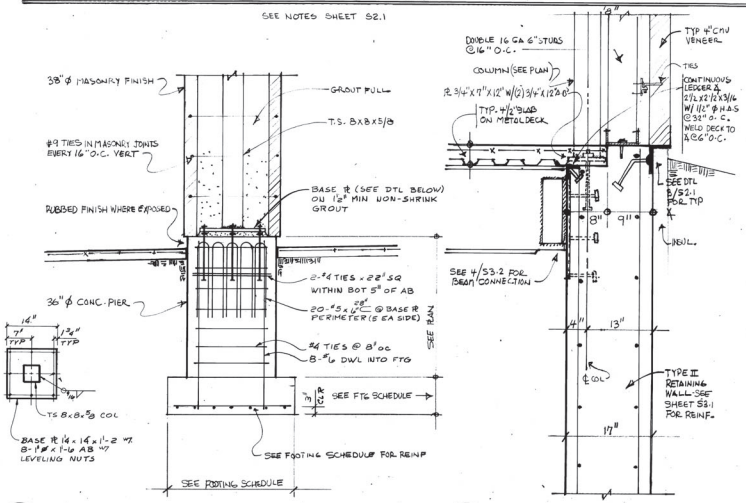
AREA 'F'

SHEET ____ OF ____

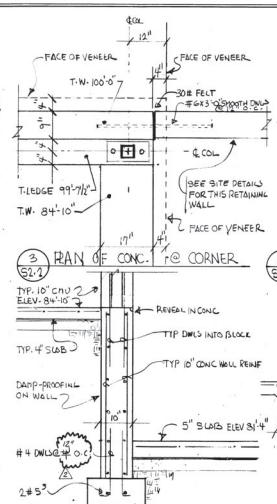
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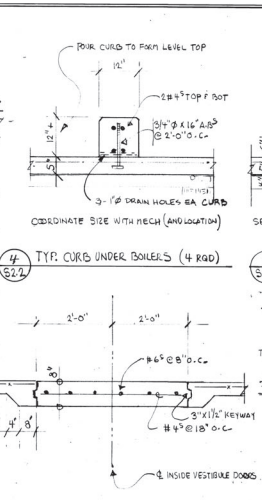
FOUNDATION PLAN AREA 'G'



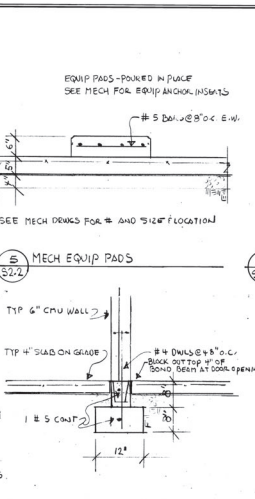
1 S2.2



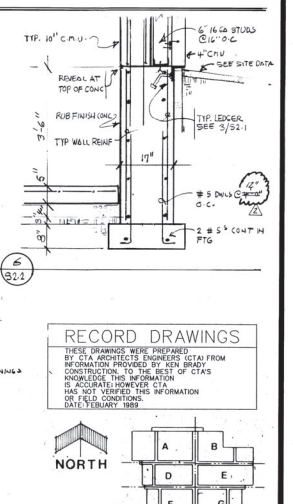
2 S2.2 PLAN OF CONC. @ CORNER



4 S2.2 TYP. CURB UNDER BOILERS (4 REQ'D)



5 S2.2 MECH EQUIP PADS



6 S2.2

8 S2.2

9 S2.2 TYPICAL NON LOAD BEARING CMU FND.

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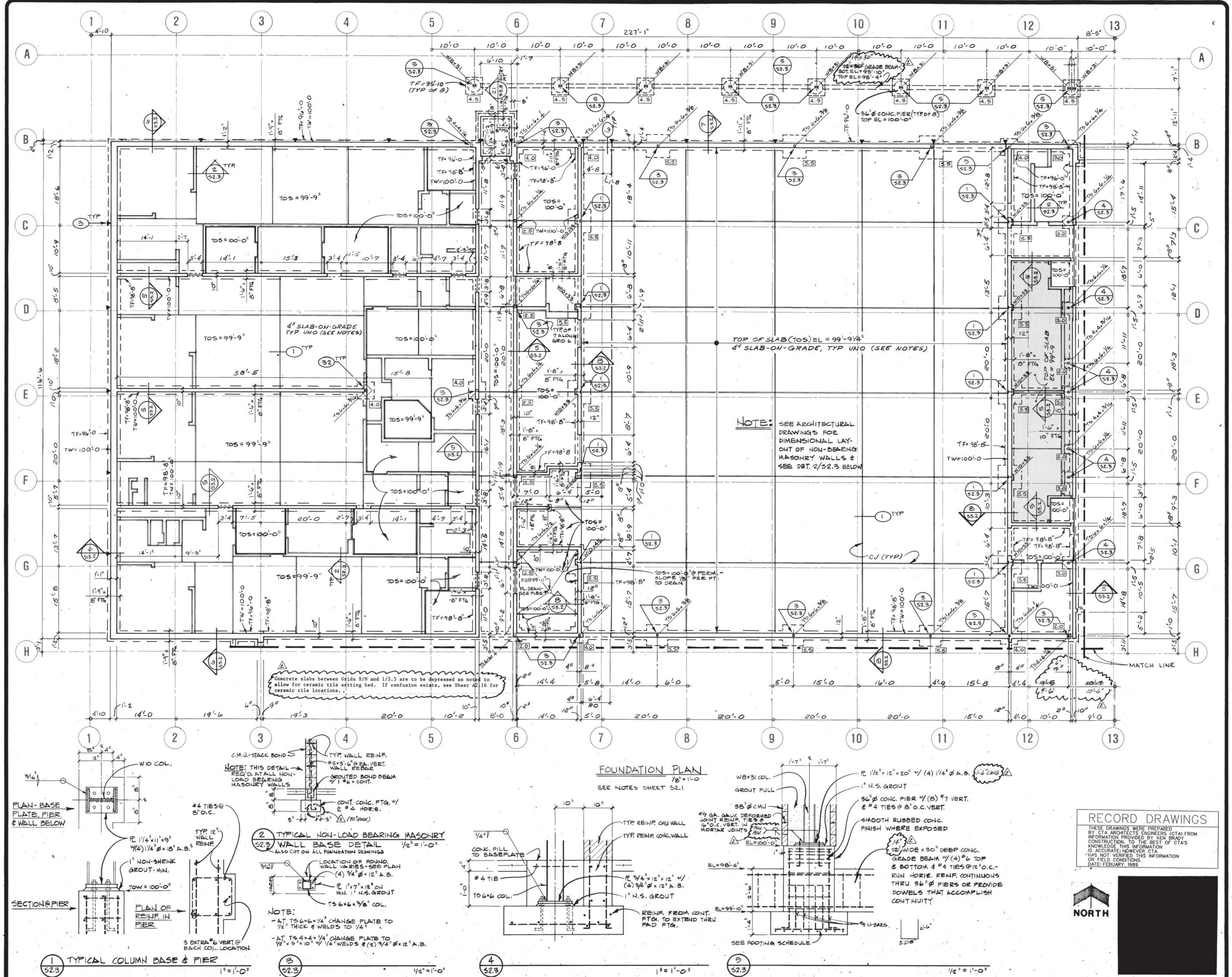
DRAWN BY: VPR/MA
CHECKED BY: KWB
DATE: 2 MAY 89
CTA #: 637.85

6 49TH STATE
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FOUNDATION PLAN
AREA 'G'

SHEET
OF



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CHECKED BY: GKS
DATE: 2 MAY '86
CTA # 6371.45

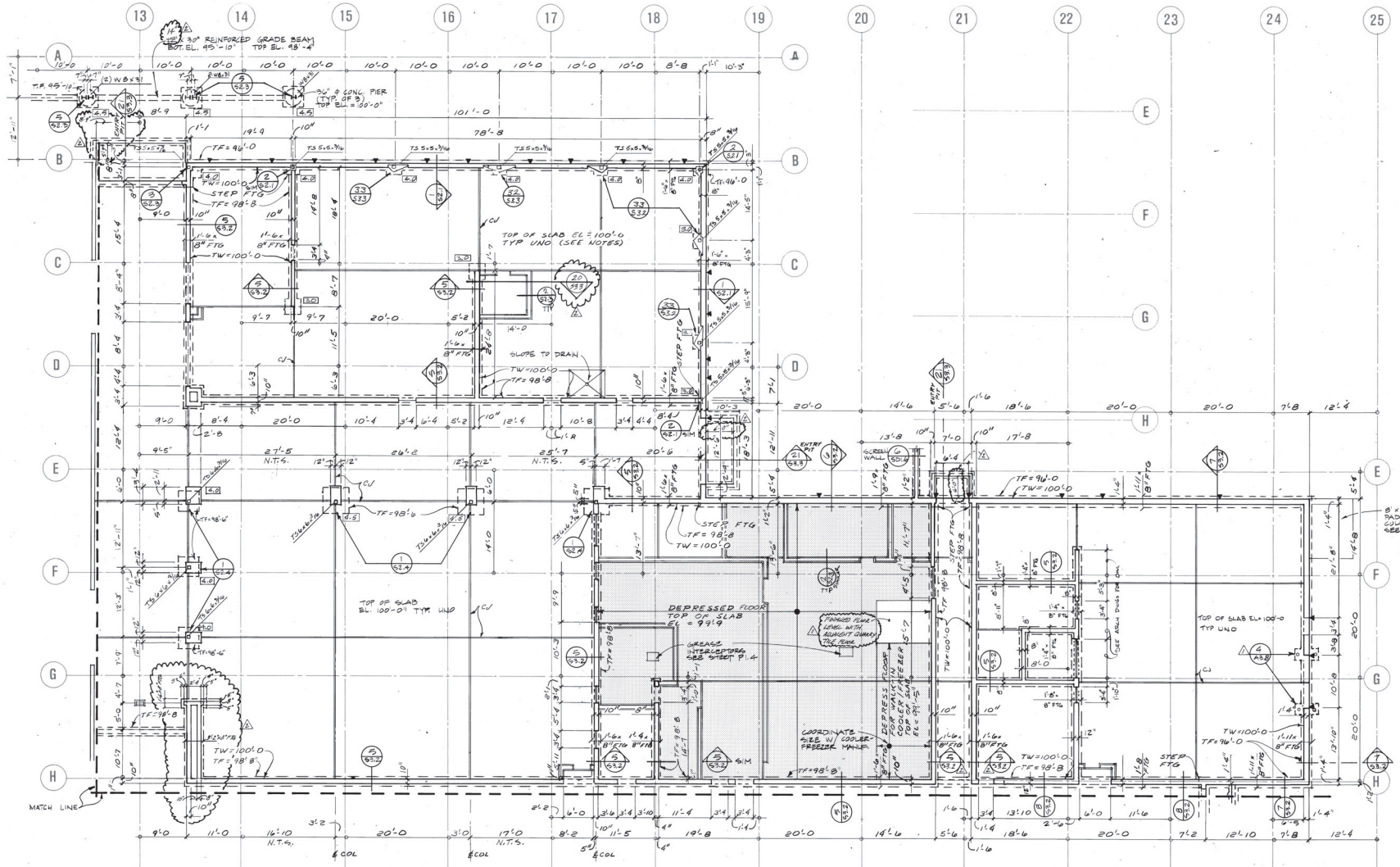
STATE OF ALASKA
49TH
Gene L. Kolstad
No. 6224
C.E.
REGISTERED PROFESSIONAL ENGINEER

cta
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FOUNDATION PLAN

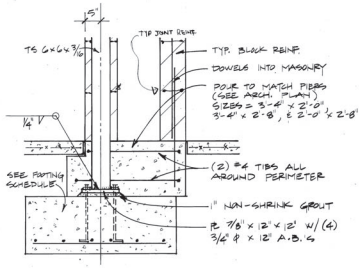
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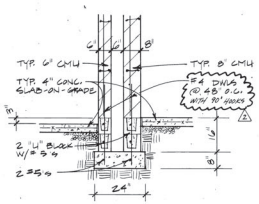


FOUNDATION PLAN AREA 'B'
1/8

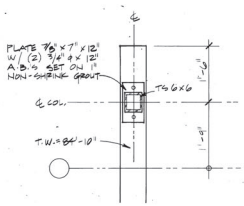
GENERAL NOTES:
1. SEE NOTES SHEET S2.1



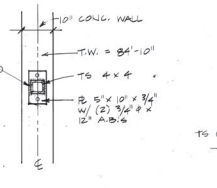
1 S2.4 3/4"



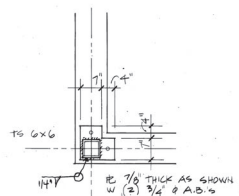
2 S2.2 1/2"



3 S2.2 BASE PLATE PLAN 3/4"

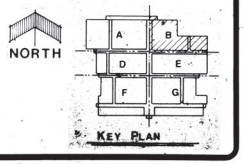


4 S2.2 BASE PLATE PLAN 3/4"



5 S2.2 BASE PLATE PLAN 3/4"

RECORD DRAWINGS
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DATE: FEBUARY 1989



Colony Senior High School

Palmer, Alaska

⚠ INDICATES CHANGES MADE BY EITHER ADDENDUM #1 OR ADDENDUM #2. NUMBER IN TRIANGLE SYMBOL CORRESPONDS WITH ADDENDUM NUMBER. 6/30/86

DRAWN BY: JPR/DT
CHECKED BY: GMB
DATE: 2 MAY 86
CTA # 6371.45

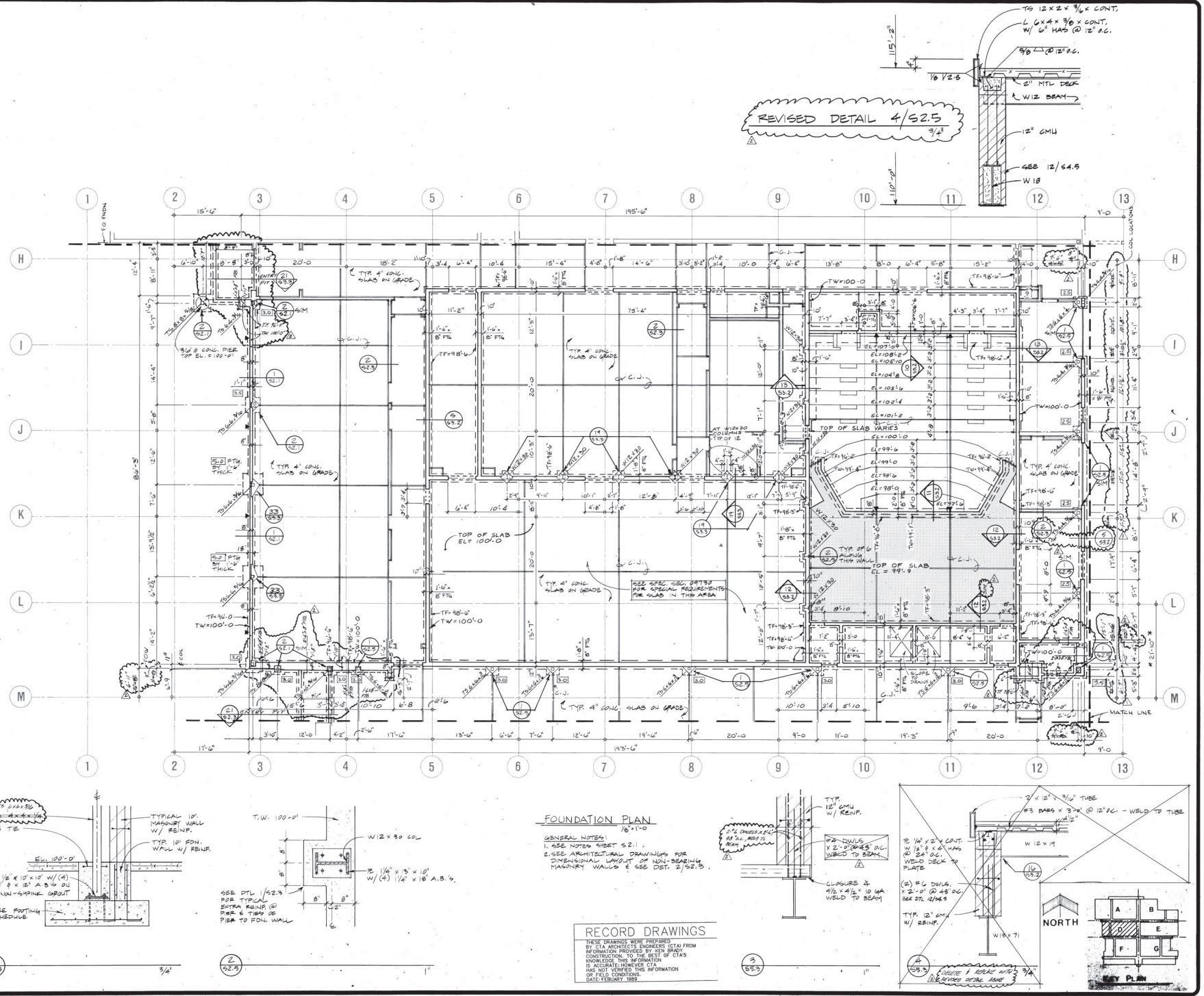
STATE OF ALASKA
49TH
Dana K. Bolstad
No. 5224
REGISTERED PROFESSIONAL ENGINEER

CTA ARCHITECTS ENGINEERS
BILLINGS • BOISE • ANCHORAGE

FOUNDATION PLAN
AREA 'B'

SHEET
OF

RFP-#826-06



1/S2.5 3/4"

2/S2.5 1"

FOUNDATION PLAN

1/8"=1'-0

GENERAL NOTES:
1. SEE NOTES SHEET S2.1.
2. SEE ARCHITECTURAL DRAWINGS FOR DIMENSIONAL LAYOUT OF NON-BEARING MASONRY WALLS & SEE DET. 2/S2.3.

3/S5.3 1"

RECORD DRAWINGS

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△ INDICATES CHANGES MADE BY BIDDER ADDENDUM #1 OR ADDENDUM #2. NUMBER IN TRIANGLE SYMBOL CORRESPONDS WITH ADDENDUM NUMBER. 6/30/86

DRAWN BY: TH/DT
CHECKED BY: GEC
DATE: 2-MAY 86
CTA #: 6511.45

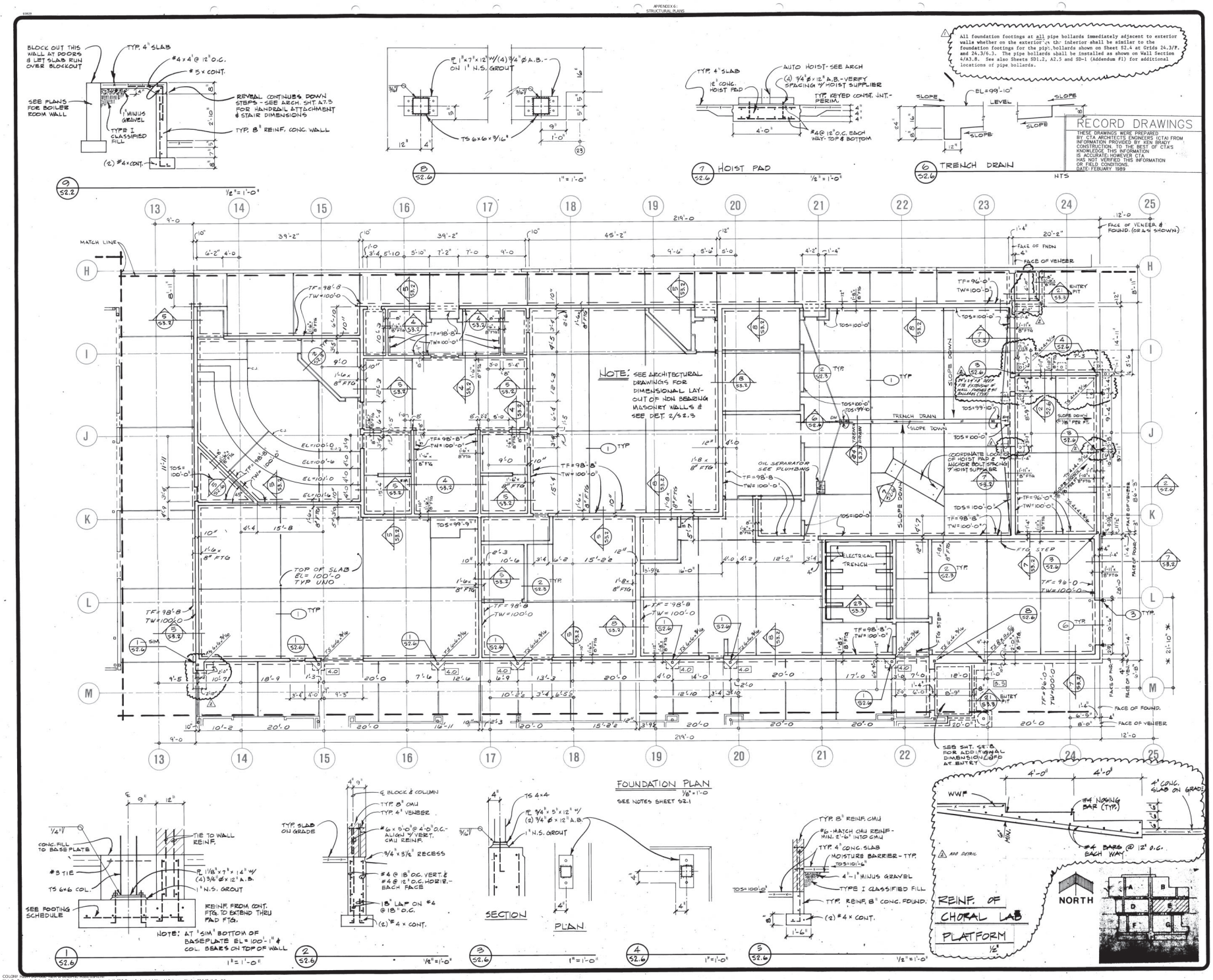
STATE OF ALASKA
49TH
Dana K. Kiniski
Dana L. Kiniski
No. 6224
U.S.A.
REGISTERED PROFESSIONAL ENGINEER

CTA ARCHITECTS ENGINEERS
BILLINGS • BOISE • ANCHORAGE

FOUNDATION PLAN
AREA "D"

SHEET
OF

RFP #826-06



Colony Senior High School

Palmer, Alaska

INDICATES CHANGES MADE BY ESTERS ADDENDUM #1 OR ADDENDUM #2; NUMBER IN TRIANGLE SYMBOL CORRESPONDS WITH ADDENDUM NUMBER. 6/30/86

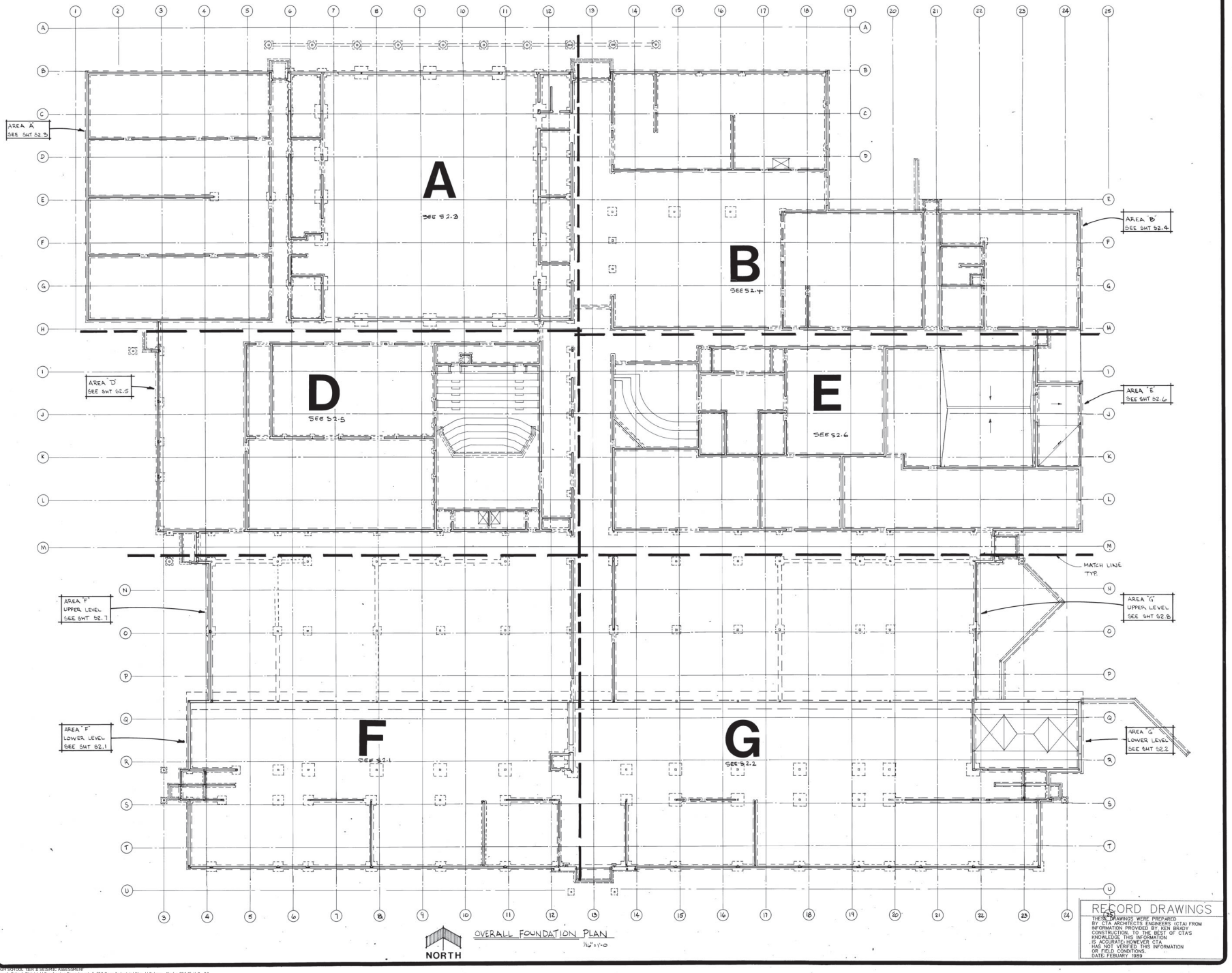
DRAWN BY: JPR/JG
CHECKED BY: GLK/CK
DATE: 2 MAY '86
CTA # 2371.45

STATE OF ALASKA
49TH
Dana L. Kiesling
No. 5224
REGISTERED PROFESSIONAL ENGINEER

CTA ARCHITECTS ENGINEERS
BILLINGS • BOISE • ANCHORAGE

FOUNDATION PLAN
AREA "E"

SHEET
OF



OVERALL FOUNDATION PLAN
1/16" = 1'-0

RECORD DRAWINGS
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DATE: FEBUARY 1989

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Palmer, Alaska

△ INDICATES CHANGES MADE BY BIDDERS ADDENDUM #1 OR ADDENDUM #2, NUMBER 1A TELEPHONE CONSOLE CONSIDERATIONS, 6TH ADDENDUM NUMBER 1 - 07/01/86

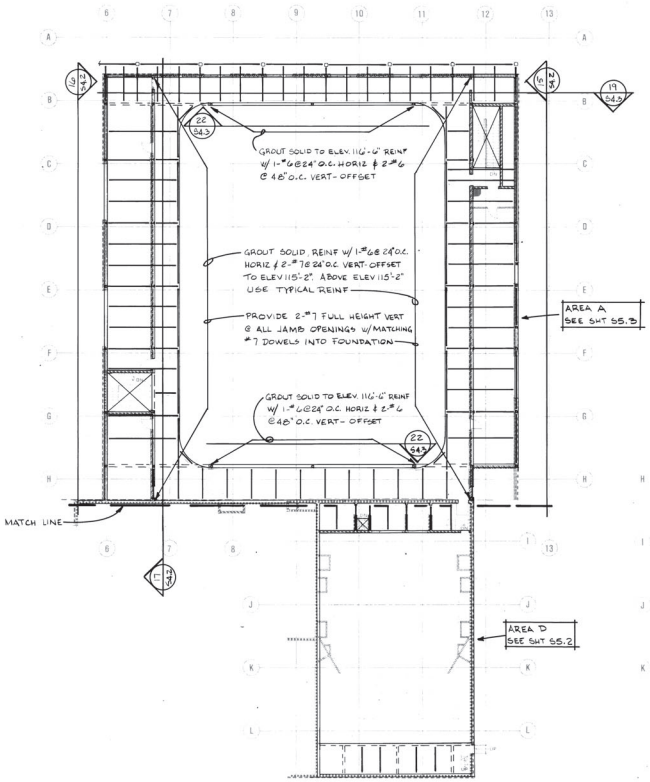
DRAWN BY: TH
CHECKED BY: MB
DATE: 2 MAY 86
CTA #: 6371.45

STATE OF ALASKA
1949
Dean L. Kvitek
No. 4024
REGISTERED PROFESSIONAL ENGINEER

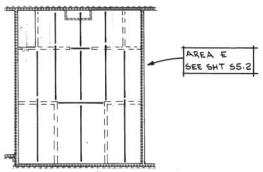
CTA ARCHITECTS ENGINEERS
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OVERALL FOUNDATION PLAN

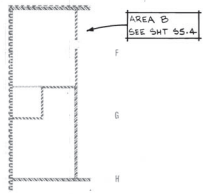
SHEET
S 2.9 OF



RUNNING TRACK, MECH, LOFT & CATWALK
1/16"=1'-0



MECH ROOM
1/16"=1'-0



MECH ROOM
1/16"=1'-0

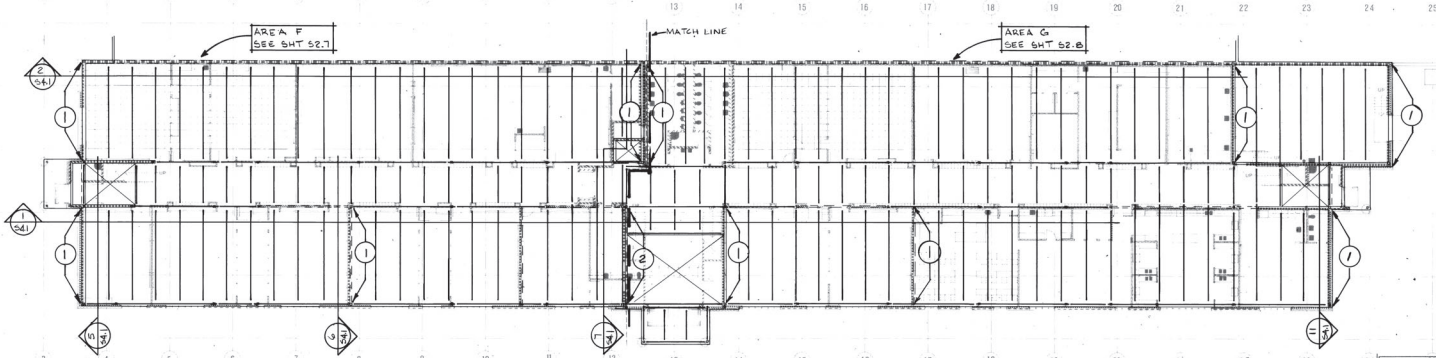
CMU NOTES:

1. SEE SHT S5.1 FOR TYP REINF
2. ALL GROUTED SOLID WALLS TO HAVE SPECIAL REINF. SEE DTL (14)

SPECIAL REINF. CONDITIONS

(1) SOLID GROUT W/ #6@24" O.C. HORIZ & 2-#5@48" O.C. VERT & 4-#7 VERT EA. END OF WALL W/ MATCHING DOWELS

(2) SOLID GROUT W/ TYPICAL REINF



FLOOR FRAMING PLAN AREA F & G
1/16"=1'-0

RECORD DRAWINGS
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DATE: FEBUARY 1989

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INDICATES CHANGES MADE BY BIDDER ADDENDUM # 1 OR ADDENDUM # 2. NUMBER IN TRIANGLE STANDS FOR THE ADDENDUM NUMBER. - 6/30/86

DRAWN BY: TH
CHECKED BY: MBM
DATE: 2 MAY 86
CTA # 6371.45

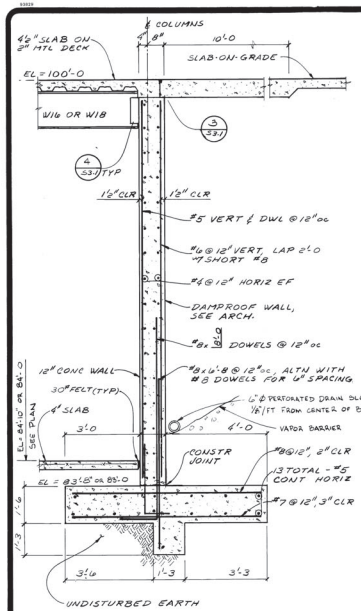
Gene L. Kolstad
No. 6024
O.E.

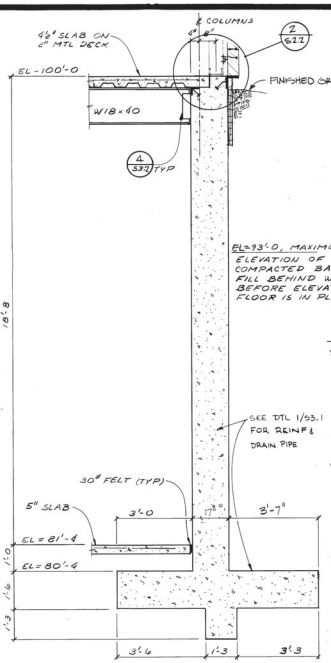
CTA ARCHITECTS ENGINEERS
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OVERALL FLOOR FRAMING PLANS W/ SPECIAL CMU REINFORCING & GROUT CALL OUTS

SHEET
S 2.10 OF

RFP #826-06





RETAINING WALL NOTES

Type I Retaining Wall

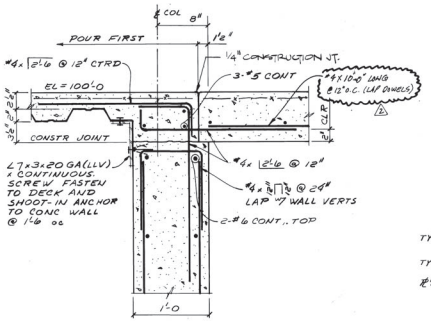
1. Extent of Type I Wall is from Grid 3.5 to Grid 21.5
2. Type I Wall is designed to be free-standing with full backfill up to elevation 99'-4" without the elevated floor furnishing support, and without the lower level slab-on-grade.
3. If the contractor elects to backfill the wall before constructing the elevated floor, the retaining wall shall be constructed with a 1/2 inch batter from top top to bottom, to compensate for rotation during the backfilling operation.

Type II Retaining Wall

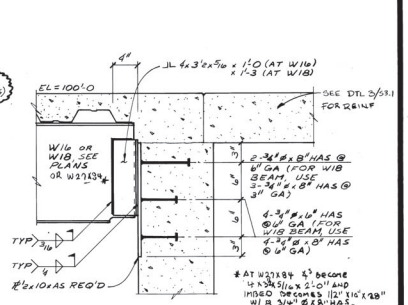
1. Extent of Type II Wall is from Grid 21.5 to Grid 24.5
2. Type II Wall is designed to be free-standing with backfill up to elevation 93'-0". Backfill shall not be placed above this elevation until the elevated floor is in place.
3. If Type I Wall is battered, batter Type II Wall to match.

General

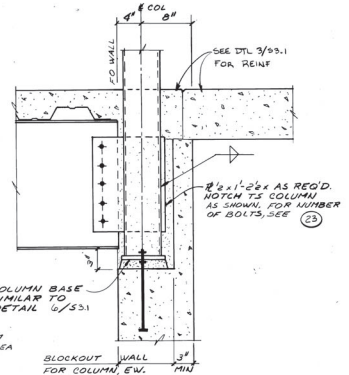
1. Pour footing shear keys in one continuous pour with wall footings. Do not form the sides of shear keys.
2. Do not operate earth-moving or compaction equipment weighing more than 1000 pounds within 10 feet of retaining walls.
3. In order to minimize shrinkage, provide vertical construction joints at a maximum spacing of 60 feet.
4. Where Type I and II retaining walls are to be exposed to freezing temperatures during the construction schedule, the footing toes of both wall types are to be protected from freezing with a minimum earth cover of 4 feet above the bottom of the footing.

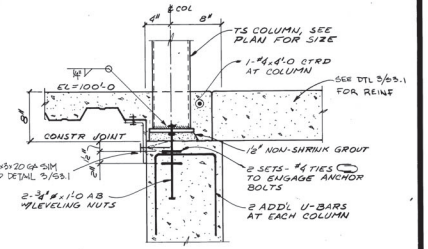


3 S2.1 SLAB CONN @ RETAINING WALL
AREA 'F & G' 1½"

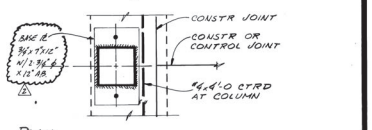


4 S2.1 FLOOR BEAM CONN @ WALL
AREA 'F & G' 1½"





SECTION

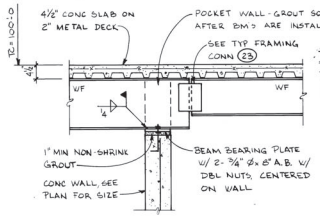


PLAN

4 S2.1 COLUMN CONN AT WALL
AREA 'F & G' 1½"

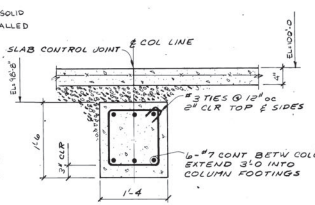
TYPE I WALL - SEE NOTES

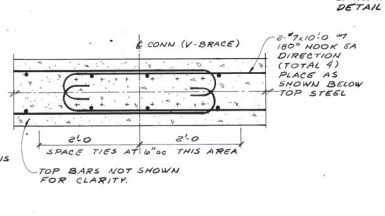
1 S2.1 RETAINING WALL SECTION
AREA 'F & G' ½"



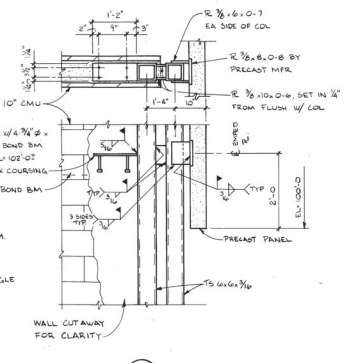
TYPE II WALL - SEE NOTES

2 S2.2 RETAINING WALL SECTION
AREA 'G' ½"





5 S2.1 TRANSFER GIRDER CONN
AREA 'F & G' 1½"

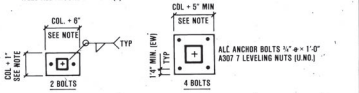


12 S2.1 ¾"

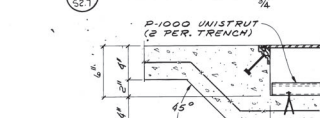
BASE PLATE SCHEDULE

AREA	COLUMN SIZE	# OF AND SIZE OF BOLTS	PLATE SIZE	T & PE	NOTES
A	TS 6" X 6" X ¼"	(4) ¾"ø X 12"	½" X 7" X 12"		
A	TS 6" X 6" X ½"	(2) ¾"ø X 12"	½" X 5" X 10"		
A	W 8" X 31"	(4) 1"ø X 18"	1¼" X 12" X 20"		
A	TS 6" X 6" X ½" TS 6" X 6" X 3/16"	(4) ¾"ø X 12"	1" X 7" X 12"		
A	W 10" X 33"	(4) 1 1/4"ø X 18"	1¼" X 9" X 11"		
B	TS 5" X 5" X 3/16"	(4) ¾"ø X 12"	¼" X 10" X 10"		
B, D	TS 6" X 6" X 3/16"	(4) ¾"ø X 12"	7/8" X 12" X 12"		
D	TS 4" X 4" X 3/16" TS 4" X 4" X ¼"	(4) ¾"ø X 12"	½" X 10" X 10"		
D	W 12" X 30"	(4) 1 1/4"ø X 18"	1" X 10" X 13"		
E	TS 6" X 6" X 3/16"	(4) ¾"ø X 12"	1¼" X 7" X 14"		
E	TS 4" X 4" X 3/16"	(2) ¾"ø X 12"	¾" X 5" X 12"		
F & G	TS 6" X 6" X ¼"	(4) ¾"ø X 12"	7/8" X 12" X 12"		
F & G	TS 6" X 6" X 5/16"	(4) ¾"ø X 12"	1" X 12" X 12"		
F & G	TS 5" X 5" X 3/16"	(4) ¾"ø X 12"	¾" X 12" X 12"		
F & G	TS 6" X 6" X ½"	(4) ¾"ø X 12"	1¼" X 12" X 12"		
F & G	TS 6" X 6" X ¾"	(4) ¾"ø X 12"	1½" X 12" X 12"		
F & G	ALL COLUMNS AT X BRACING	"SPECIAL" SEE DETAIL	"SPECIAL" SEE DETAIL		SEE DETAIL SHEET
F & G	TS 8" X 8" X ½"	(4) ¾"ø X 12"	1" X 14" X 14"		
D	TS 6" X 6"	(2) ¾"ø X 12"	¾" X 14" X 7"		

NOTE:
- WHERE COLUMN IS NOT SPECIFICALLY DETAILED OR ON THE BASE PLATE SCHEDULE, FOLLOW THE REQUIREMENTS SHOWN BELOW.
- THICKNESS OF BASE PLATE TO BE 1" IF NOT SCHEDULED OR OTHERWISE NOTED.
- WELDS TO BE 1/16" LESS THAN THICKNESS OF THE COLUMN STEEL.
- WELD ALL AROUND AND USE (4) ¾"ø X 12" ABs.



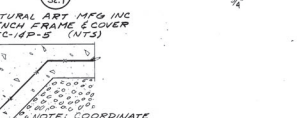
13 S2.1 TYPICAL COLUMN BASE PLATE
(SEE SCHEDULE) NTS



7 S2.1 ¾"

SEISMIC TIE BEAM

8 S2.1 1"



PLAN @ V-BRACE CONN

8A 1½"

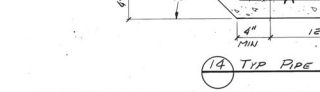


∠ 4 x 4 x ¼ x CONT. WITH ¾"ø x 8" A.B @ 16" O.C. IN BOND BM. STAGGER A.B.'S FROM SIDE TO SIDE.

AT "SIM" FLOOR AND ANGLE ARE ON ONE SIDE ONLY. PROVIDE 1'-10" DOWEL @ 24" o.c.

R ⅜"ø x 6" x 1'-2 W/ 4-¾"ø x 6" HAS INTO BOND BM TOP OF R. EL= 102'-0" MATCH BLOCK COURSING
BOND BM
TYP 3"
3 SIDES TYP
TYP 3/16
TYP
EL = 90'-0
PRECAST PANEL
TS 6"x6"x⅜"

11 S2.1 ¾"



14 TYP PIPE TRENCH 2"

9 S2.1 ¾"

10 S2.1 ¾"

RECORD DRAWINGS

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DATE: FEBUARY 1989

Colony Senior High School
Palmer, Alaska

△ INDICATES CHANGES MADE BY ETTHER ADDENDUM #1 OR ADDENDUM #2; NUMBER IN TRIANGLE SYMBOL CORRESPONDS WITH ADDENDUM NUMBER. 6/30/86

DRAWN BY: JPR
CHECKED BY: GH
DATE: 2 MAY 86
CTA # 6371.45

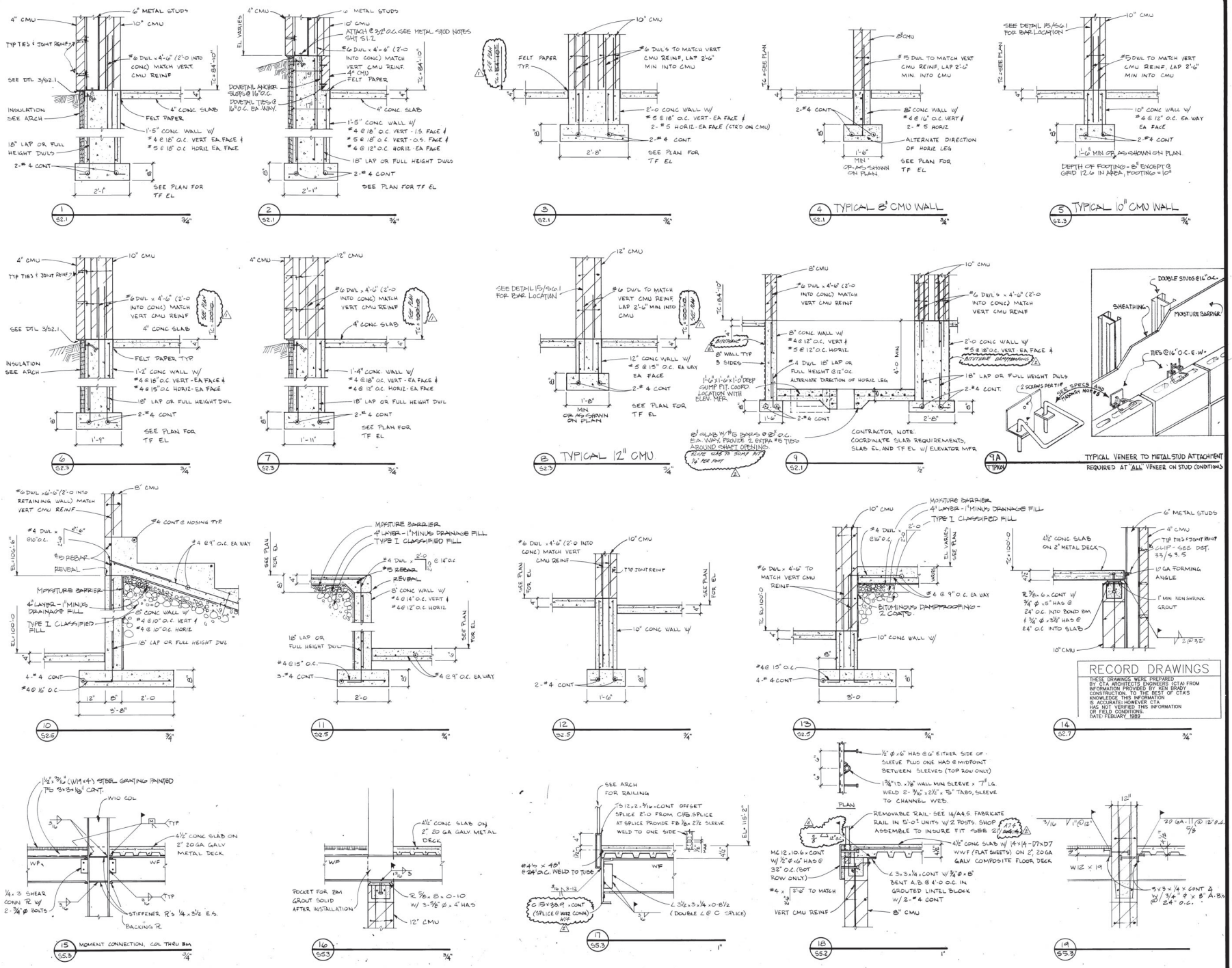
STATE OF ALASKA
Denis L. Kolstad
No. 6224
REGISTERED ARCHITECT

CTA ARCHITECTS ENGINEERS
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FOUNDATION & FLOOR FRAMING DETAILS

SHEET S 3.1 OF

RFP #826-06



1 S2.1 — 3/4"
2 S2.1 — 3/4"
3 S2.1 — 3/4"
4 S2.1 — TYPICAL 8" CMU WALL — 3/4"
5 S2.3 — TYPICAL 10" CMU WALL — 3/4"
6 S2.3 — 3/4"
7 S2.3 — 3/4"
8 S2.3 — TYPICAL 12" CMU. — 3/4"
9 S2.1 — 1/2"
9A TYPICAL — 3/4"
10 S2.5 — 3/4"
11 S2.5 — 3/4"
12 S2.5 — 3/4"
13 S2.5 — 3/4"
14 S2.7 — 3/4"
15 S5.3 — MOMENT CONNECTION, COL THRU BM — 3/4"
16 S5.3 — 3/4"
17 S5.3 — 1"
18 S5.2 — 1"
19 S5.3 — 3/4"

⚠ INDICATES CHANGES MADE BY KITHER ADDENDUM #1 OR ADDENDUM #2. NUMBER IN TRIANGLE SYMBOL CORRESPONDS WITH ADDENDUM NUMBER. 6/30/86

Colony Senior High School

Palmer, Alaska

DRAWN BY: TH
CHECKED BY: JG
DATE: 2 MAY 86
CTA #: 6511.45

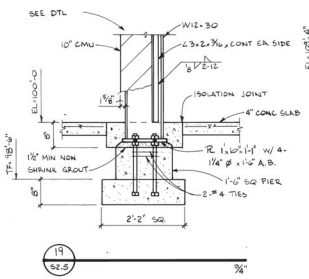
Gene L. Koteles
No. 5224
C.E.

CTA ARCHITECTS ENGINEERS
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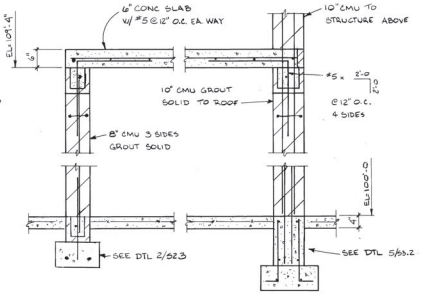
FOUNDATION & FLOOR FRAMING DETAILS

SHEET
S 3.2 OF ____

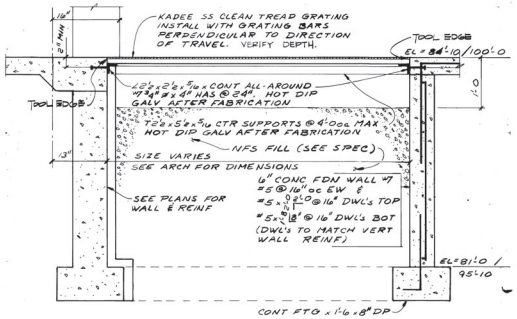
RFP #826-06

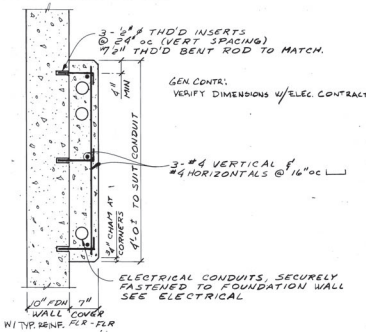


19 S2.5 3/4"



20 S5A 3/4"





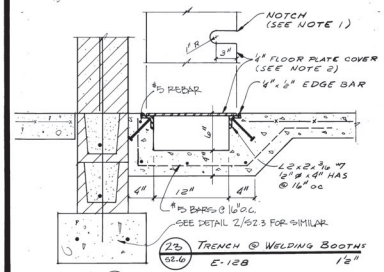
PLAN

22 S2.2 Conc Conduit Cover 1"

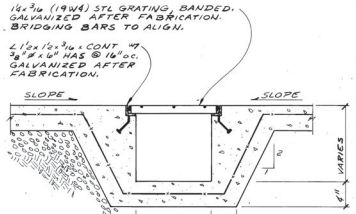
NOTES:

1) PROVIDE NOTCH 4" FROM WALL AT EACH WELDING BOOTH. PROVIDE 10 NOTCHES ALONG NORTH WALL @ 6" oc

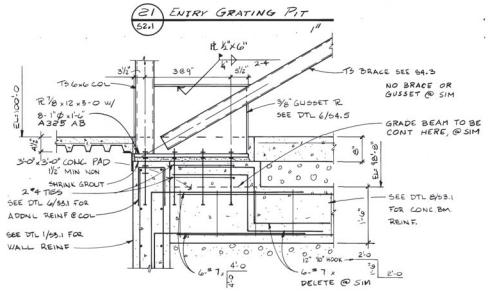
2) 4" FLOOR PLATE. PROVIDE 3'-0 LONG REMOVABLE COVERS AT WELDING BOOTHS. PROVIDE 1'-0 LONG COVERS UNDER 8" CMU DIVIDER WALLS.



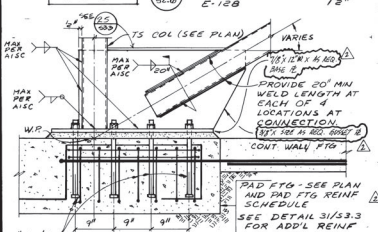
23 S2.6 Trench @ Welding Booths E-128 1/2"



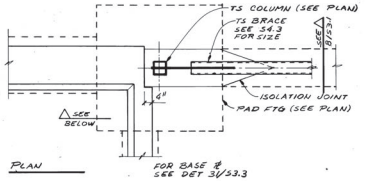
24 S2.6 Trench Drain @ Auto Shop E-125 1/2"



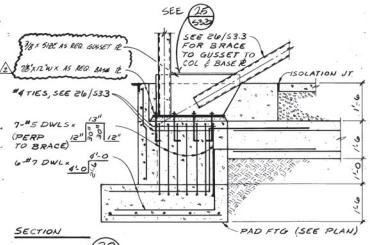
21 S2.1 Entry Grating Pit 1"



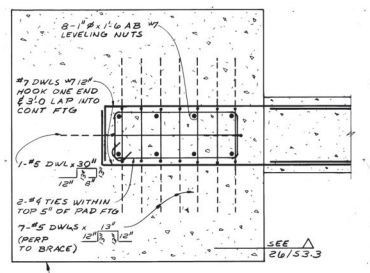
26 S2.7 Brace Frame 1"



PLAN FOR BASE R SEE DET 31/S3.3

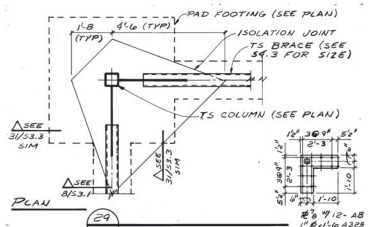


SECTION 28 S2.7 1/2"

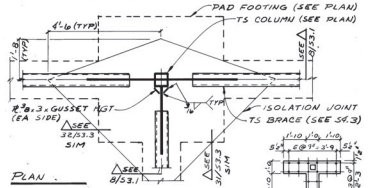


PLAN SECTION

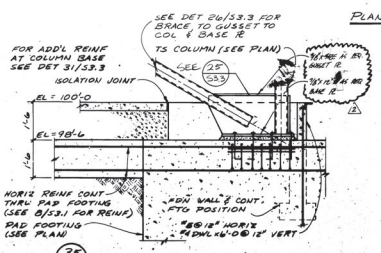
27 S2.7 Pad Ftg @ Braced Frame 1"



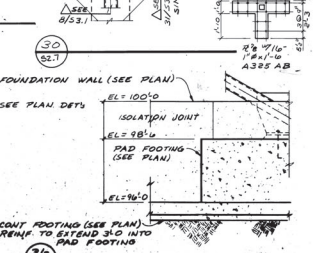
PLAN 29 S2.7



PLAN 30 S2.7



35 S2.8

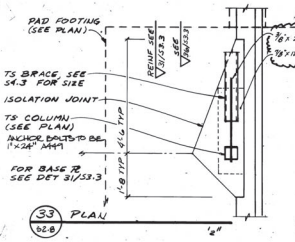


36 S2.8

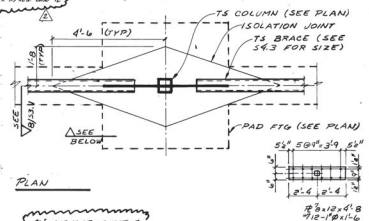
DETAILS 25, 26, 28, 34, 32, AND 36 - HELD AT COLUMN AND BRACE SLOT TO BE INCREASED BY AMOUNT OF OVERCUT IN SLOT.

RECORD DRAWINGS

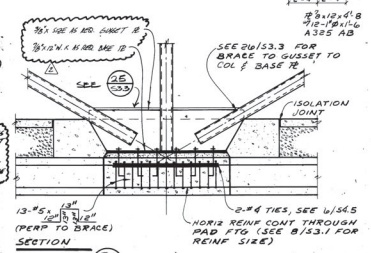
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DATE: FEBRUARY 1989



33 S2.8 PLAN 1/2"



PLAN



34 S2.8 PLAN 1/2"

SECTION 32 S2.7 1/2"

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△ INDICATES CHANGES MADE BY EITHER ADDENDUM #1 OR ADDENDUM #2; NUMBER IN TRIANGLE SYMBOL CORRESPONDS WITH ADDENDUM NUMBER. 6/30/06

DRAWN BY: JH
CHECKED BY: MB
DATE: MAY 2 06
CTA #16371.45

CTA ARCHITECTS ENGINEERS
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FOUNDATION DETAILS

SHEET
S 3.3 OF ____

1 NOT USED

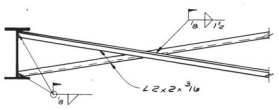
2 NOT USED

3 NOT USED

4 NOT USED

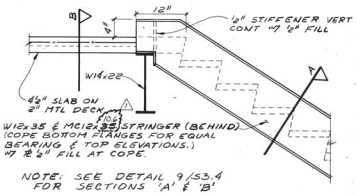
5 NOT USED

6 NOT USED



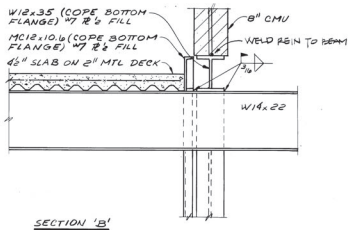
TYPICAL BRIDGING ANGLES AT BEAMS MECHANICAL ROOMS A203, A204, A205

7 BRIDGING ANGLES 553 NTS

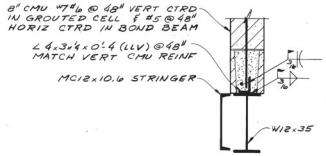


NOTE: SEE DETAIL 9/S3.4 FOR SECTIONS 'A' & 'B'

8 553 1"



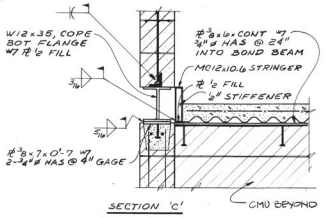
SECTION 'B'



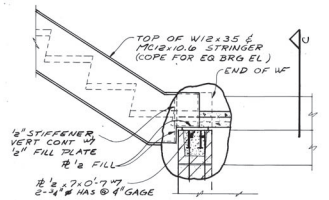
NOTE: SEE DETAIL 8/S3.4

SECTION 'A'

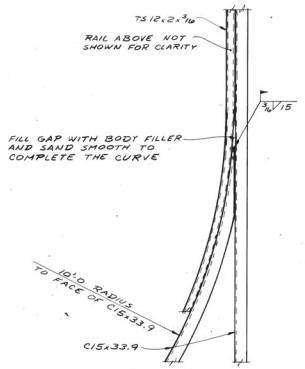
9 553 1"



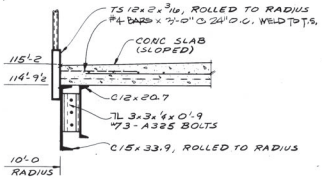
SECTION 'C'



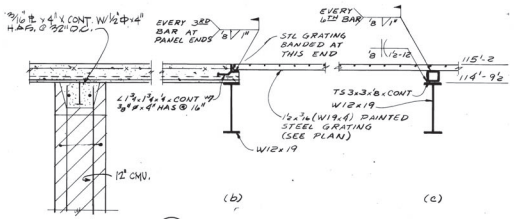
10 553 1"



14 RUNNING TRACK - PLAN 553 1"

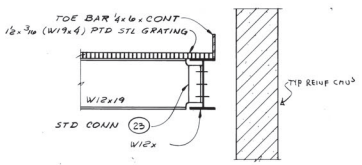


11 RUNNING TRACK 553 1"

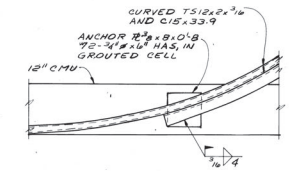


(b) (c)

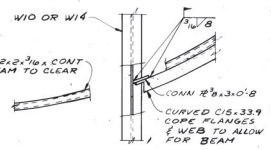
12 553 1"



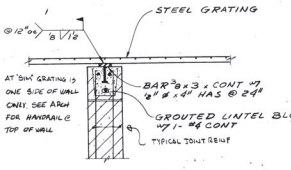
13 553 1"



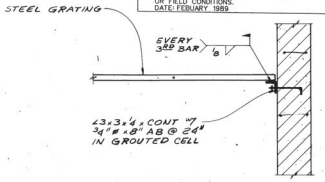
15 RUNNING TRACK - PLAN 553 1"



16 RUNNING TRACK - PLAN 553 1"



17 552 1"



18 552 1"

RECORD DRAWINGS

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DATE: FEBUARY 1989

Colony Senior High School

Palmer, Alaska

3 SPECIFICATIONS CHANGED MADE BY ADDENDUM #1 OR ADDENDUM #2, NUMBER IN TRIANGLE SYMBOL CORRESPONDS WITH ADDENDUM NUMBER. 6/10/86

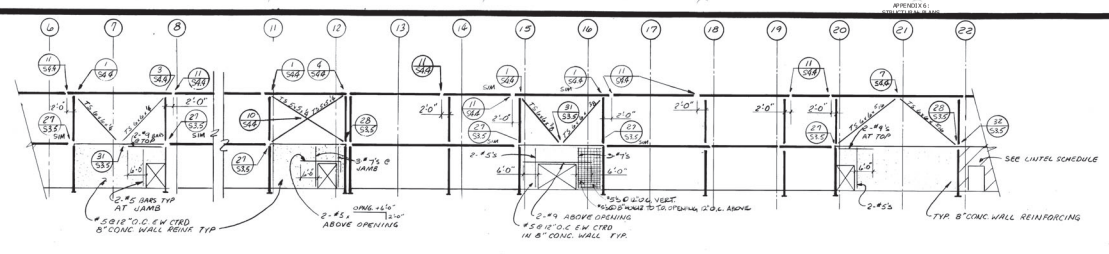
DRAWN BY: JPR
CHECKED BY: MARK
DATE: 2 MAY 86
CTA #4371.45

Gene L. Koleto No. 5224 C.E.

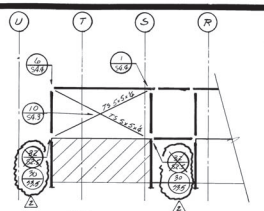
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FLOOR FRAMING DETAILS

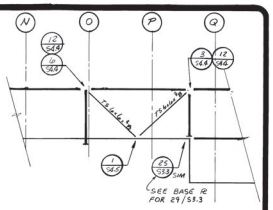
SHEET S 3.4 OF ____



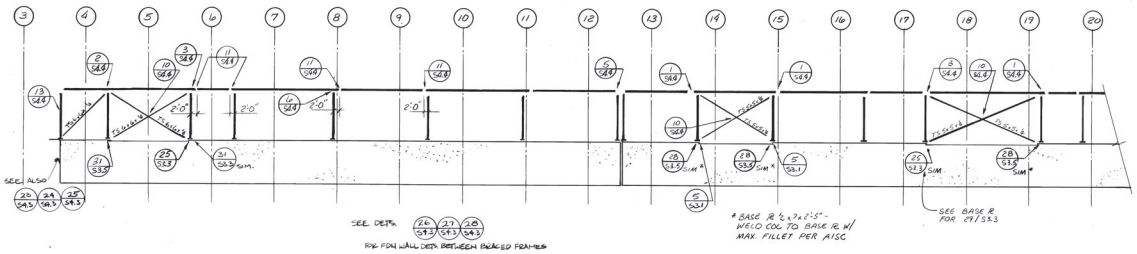
1 / 55.1 FRAME BRACE ELEVATION
GRID 'R.9' - AREA 'F & G' 1/16"



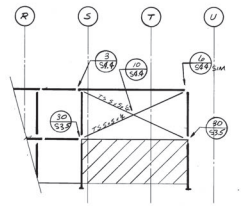
5 / 55.1 GRID '3.6' - AREA 'F' 1/16"



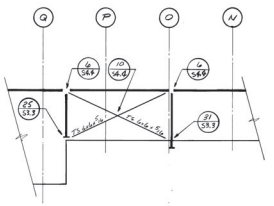
8 / 55.1 GRID '5.7' - AREA 'F' 1/16"



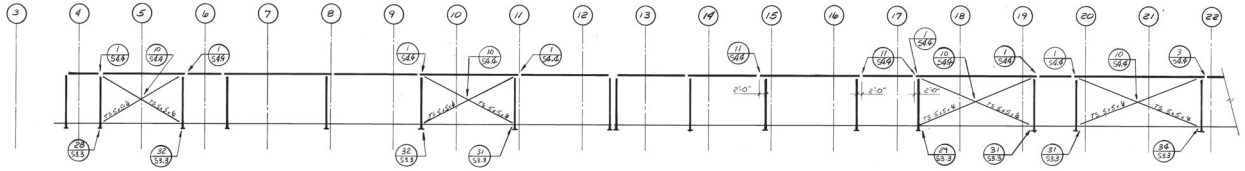
2 / 55.1 FRAME BRACE ELEVATION
GRID 'P.6' - AREA 'F & G' 1/16"

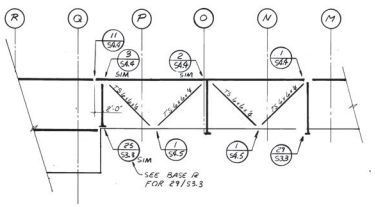


6 / 55.1 GRID '7.8' - AREA 'F' 1/16"



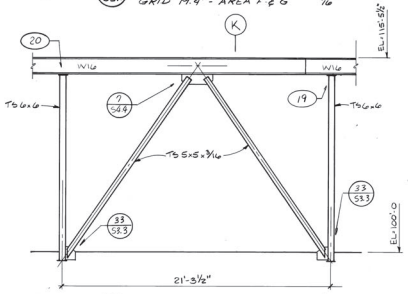
9 / 55.1 GRID '8' - AREA 'F' 1/16"



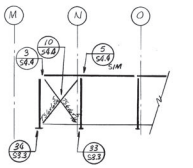


10 / 55.1 GRID '17.3' - AREA 'G' 1/16"

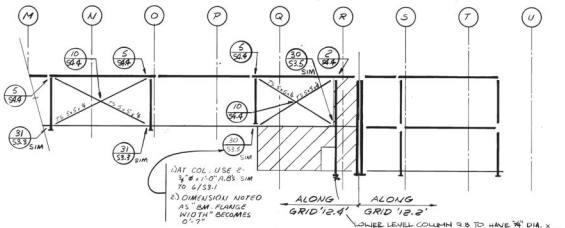
3 / 55.1 FRAME BRACE ELEVATION
GRID 'M.9' - AREA 'F & G' 1/16"



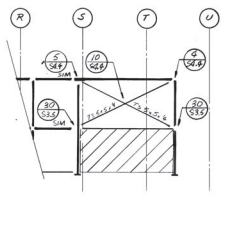
4 / 55.1 BRACED BAY @ GRID 3
1/4"



23 / 55.1 GRID '21.8' AREA 'G' 1/16"



7 / 55.1 GRID '12.2 & 12.4' - AREA 'F' 1/16"



11 / 55.1 GRID '23.4' - AREA 'G' 1/16"

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DATE: FEBRUARY, 1989

Colony Senior High School

Palmer, Alaska

△ INDICATES CHANGES MADE BY ESTIMER ADDENDUM #1 OR ADDENDUM #2. NUMBER IN TRIANGLE SYMBOL CORRESPONDS WITH ADDENDUM NUMBER. - 6/30/86

DRAWN BY: JPR
CHECKED BY: CMS
DATE: 2 MAY 86
CTA # 8731.45

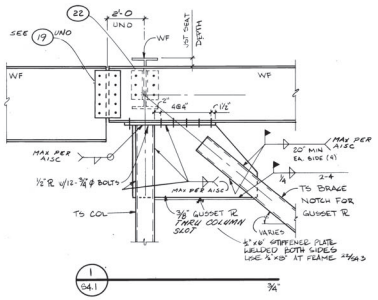
Gene L. Roland
No. 5224
U.S.

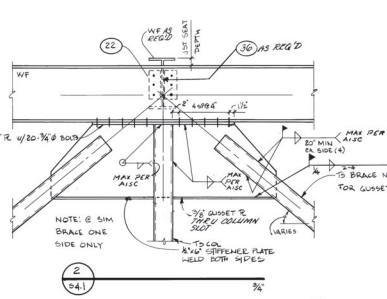
CTA ARCHITECTS ENGINEERS
BILLINGS • BOISE • ANCHORAGE

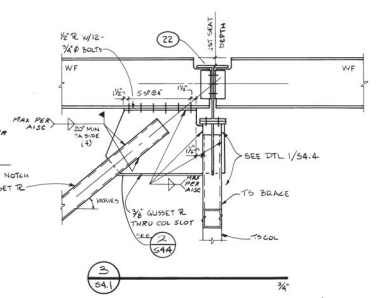
BRACING ELEVATIONS
AREAS F&G

SHEET
S 4.1 OF

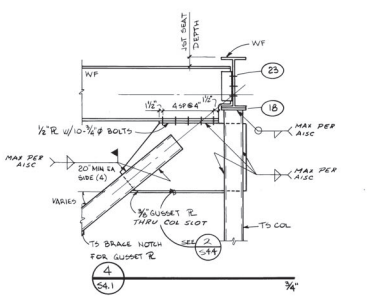
RFP #826-06

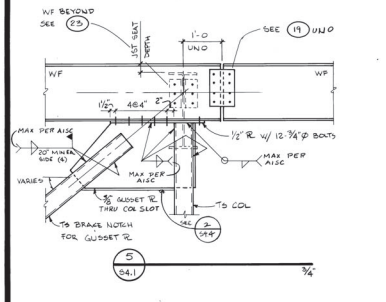


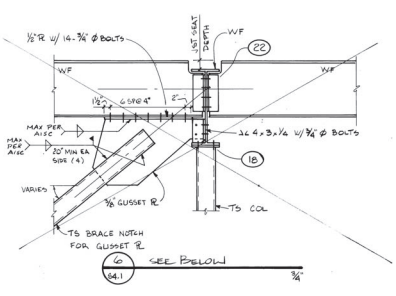


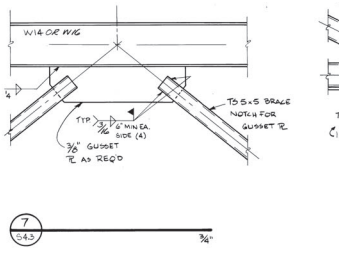


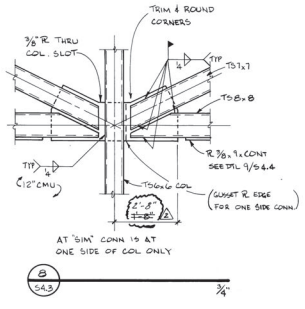
NOTE:
ON DETAILS 1 THRU 4 - ALL WELDS AT SLOTTED TUBES TO BE INCREASED BY THE AMOUNT OF OVERCUT IN THE SLOT.

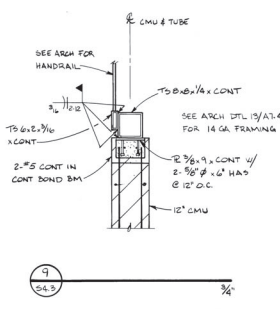


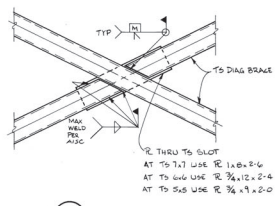


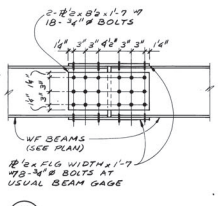


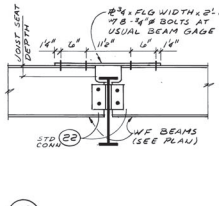


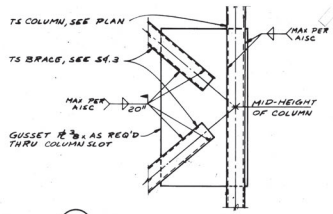


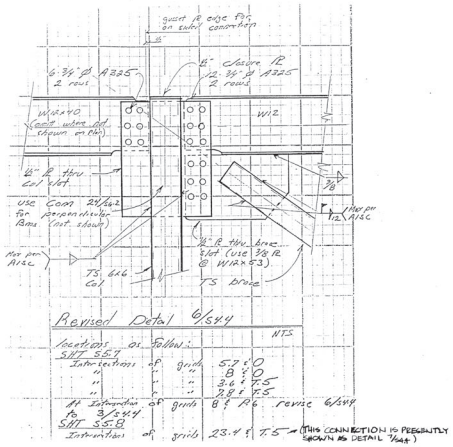












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DATE: FEBUARY 1989

Colony Senior High School

Palmer, Alaska

⚠ INDICATES CHANGES MADE BY EITHER ADDENDUM #1 OR ADDENDUM #2. NUMBER IN TRIANGLE SYMBOL CORRESPONDS WITH ADDENDUM NUMBER. 6/30/86

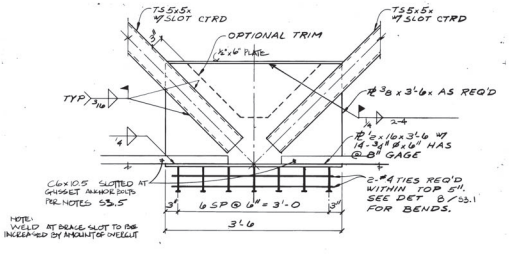
DRAWN BY: TH
CHECKED BY: MGM
DATE: 2 MAY 86
CTA # 4271.45

491H
Gene L. Kolstad
No. 6224
C.E.

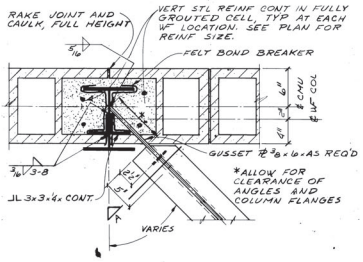
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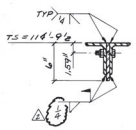
BRACING DETAILS

SHEET S 4.4 OF



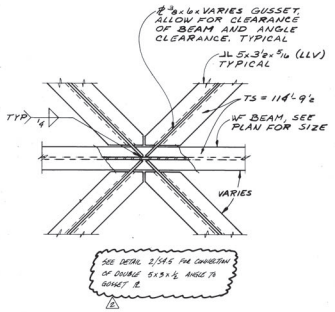
1 / S2.1 BRACE BOTTOM CONN 1"





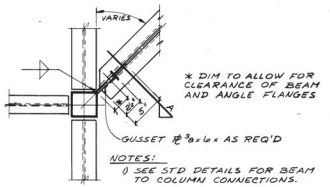
NOTE: HORIZONTAL CMU REINF IN BOND BEAMS TO RUN CONT. THROUGH WEB OF WF COLUMN.

2 / S5.3 X-BRACE CONN DETAIL 1 1/2"



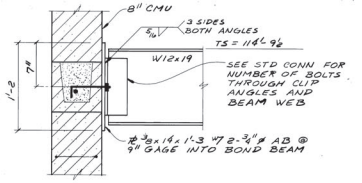
3 / S5.3 CROSS BRACE CONN TO BEAM 1"

4 NOT USED



5 / S5.3 X-BRACE CONN DETAIL 1"

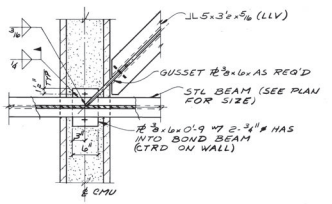
6 NOT USED



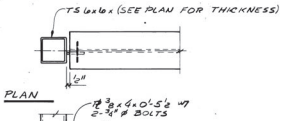
10 / S5.3 1 1/2"

7 NOT USED

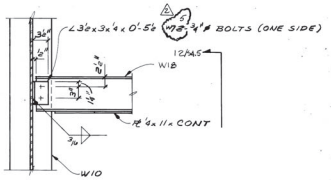
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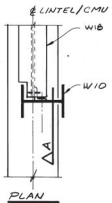
9 / S5.3 1"



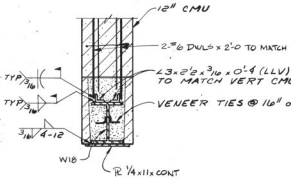
11 / S5.3 1"



SECTION A

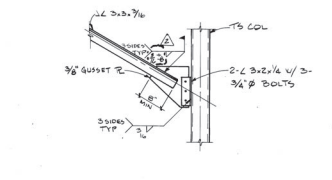


13 / S5.3 1"

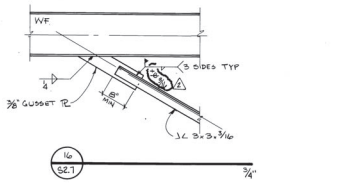


12 / S4.5 1"

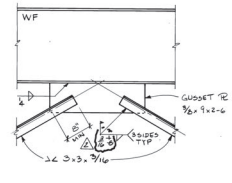
14 NOT USED



15 / S2.1 1"



16 / S2.1 3/4"



17 / S2.1 3/4"

18 / S2.1 3/4"

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DATE: FEBUARY 1989

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Palmer, Alaska

1 INDICATES CHANGES MADE BY ESTHER ADDENDUM #3 OR ADDENDUM #2. REMOVE 18" TELESCOPE STEEL CONVEYORS WITH ADDENDUM NUMBER 3 - 5/31/96

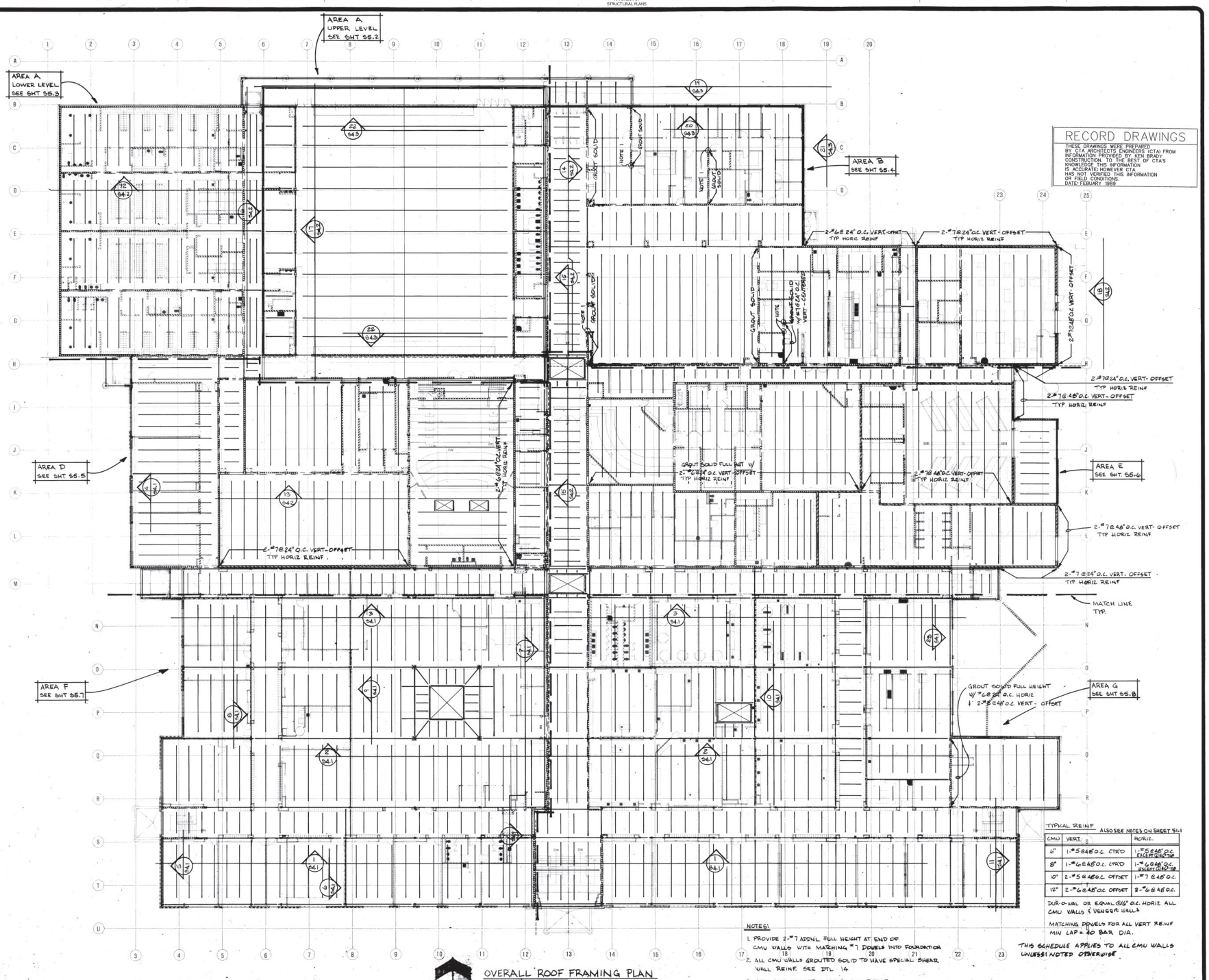
DRAWN BY: UPR
CHECKED BY: GLK
DATE: 2 MAY 96
CTA #6371.45

Grace L. Kolstad
No. 6224
C.E.

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BRACING DETAILS

SHEET S 4.5 OF



OVERALL ROOF FRAMING PLAN
1/16" = 1'-0

NOTES:
1. PROVIDE 2-#7 ADDNL FULL HEIGHT AT END OF CMU WALLS WITH MATCHING #7 DOWELS INTO FOUNDATION
2. ALL CMU WALLS GROUTED SOLID TO HAVE SPECIAL SHEAR WALL REINF. SEE DTL 14
3. SEE SHT S2.1D FOR ADDN'L CMU REINF

TYPICAL REINF
ALSO SEE NOTES ON SHEET S1.1

CMU	VERT.	HORIZ.
6"	1-#5@48" O.C. CTRD	1-#6@48" O.C. EXCEPT @24"TOP
8"	1-#6@48" O.C. CTRD	1-#6@48" O.C. EXCEPT @24"TOP
10"	2-#5@48" O.C. OFFSET	1-#7 @48" O.C.
12"	2-#6@48" O.C. OFFSET	2-#6@48" O.C.

DUR-O-WAL OR EQUAL @16" O.C. HORIZ ALL CMU WALLS & VENEER WALLS
MATCHING DOWELS FOR ALL VERT REINF MIN LAP = 40 BAR DIA.

THIS SCHEDULE APPLIES TO ALL CMU WALLS UNLESS NOTED OTHERWISE.

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△ INDICATES CHANGES MADE BY ATTACHED ADDENDUM #1 OR ADDENDUM NUMBER IN TRIANGLE SYMBOL, CORRESPONDS WITH ADDENDUM dated: 4/30/86

DRAWN BY: TH
CHECKED BY: MBA
DATE: 2 MAY 86
CTA # 6371.45

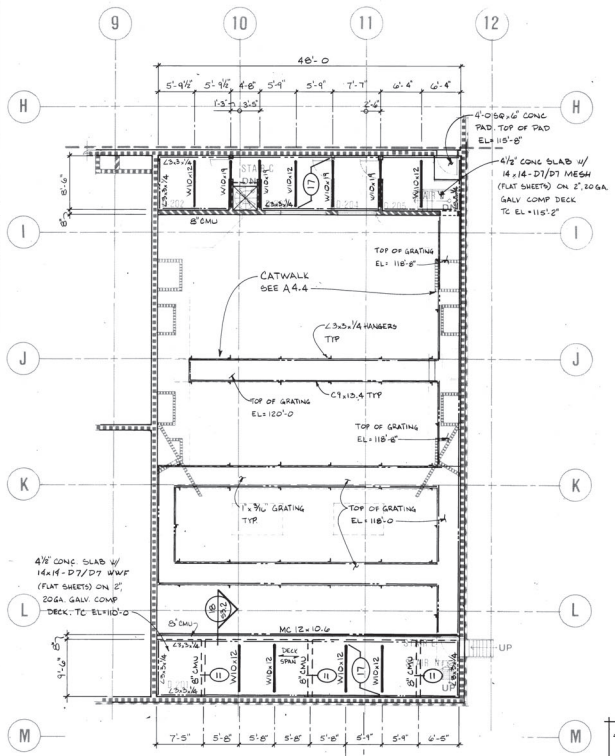
Dana L. Bleitel
No. 5224
U.S.A.
REGISTERED PROFESSIONAL ENGINEER

CTA ARCHITECTS ENGINEERS
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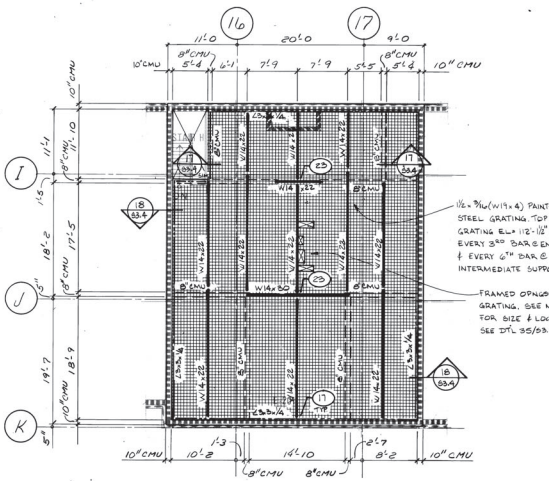
OVERALL ROOF FRAMING PLAN @ SPECIAL CMU GROUT & REINF CALL OUTS

SHEET S-5.1 OF ___

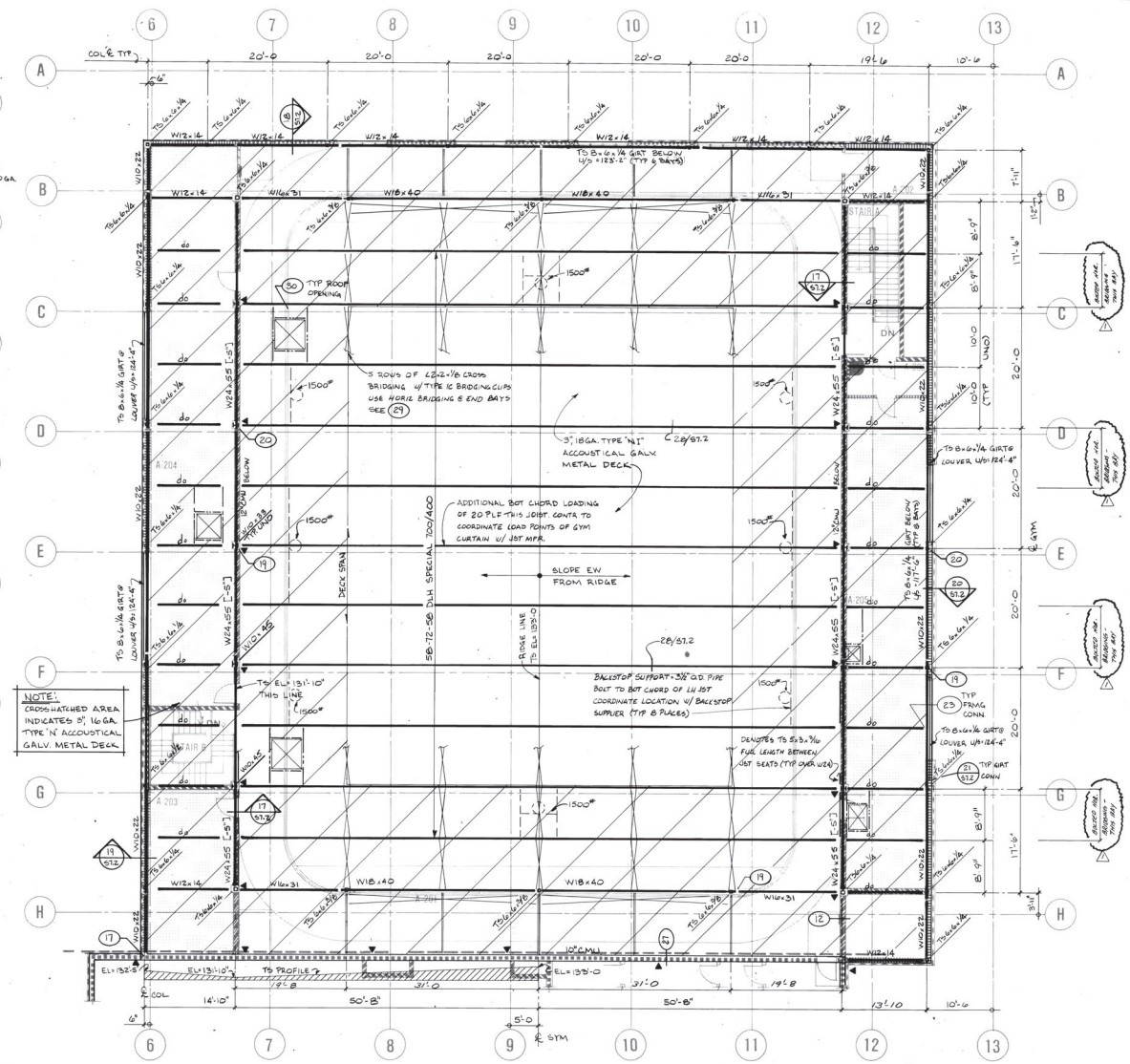
RFP-#026-06



CATWALK & LOFT FRAMING AREA 'D'
1/8"=1'-0



MECH ROOM FLOOR FRAMING PLAN AREA 'E'
⅛"



NOTE:
CROSS HATCHED AREA INDICATES 3", 16 GA. TYPE 'N' ACCOUSTICAL GALV. METAL DECK.

UPPER ROOF FRAMING PLAN AREA 'A'
⅛"=1'-0

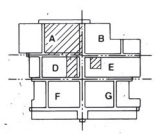
ROOF FRAMING NOTES

1. Top of Steel (TS) indicates top of steel beams or joists and equals bottom of deck elevation.
2. Members with [-2 1/2] indicate top of member is parallel to and 2 1/2 inches below top of steel line.
3. Double dashed lines (====) indicate load bearing walls stopping below the metal deck.
4. See structural notes for welding requirements of roof diaphragm.
5. SEE SHTS S6.1 & S6.2 FOR STANDARD DETAILS INDICATED BY ◯
6. U/S = UNDER SIDE OF STEEL ELEVATION.
7. ▲ INDICATES VERT WALL CONTROL JOINT IN CMU, SEE (9)
8. SEE DTL'S 26 & 27/S7.2 FOR BRACING @ TOP OF NON LOAD BEARING CMU WALLS
9. EXTRA STEEL ANGLE. IRON TO BE USED TO PROVIDE "K" BRACING AT THE EIGHT (8) JOIST BAYS ABOVE THE BASKETBALL BACKSTOPS.

CLARIFICATION: THE "I" IN STEEL BRG TYPE "NT" ROOF IS TYPE "INTERLOCKING" TYPE BRG.

A-201 RUNNING TRACK
A-202 STORAGE
A-203 STORAGE
A-204 MECHANICAL
A-205 MECHANICAL
A-206 JANITOR
D-201 STORAGE
D-202 DIMMER EQUIPMENT ROOM
D-203 PROJECTION BOOTH
D-204 SOUND CONTROL ROOM
D-205 VESTIBULE
E-201 MECHANICAL

NORTH



KEY PLAN

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Palmer, Alaska

△ INDICATES CHANGES MADE BY EITHER ADDENDUM #1 OR ADDENDUM #2. NUMBER IN TRIANGLE SYMBOL CORRESPONDS WITH ADDENDUM NUMBER. 6/30/86

DRAWN BY: TH
CHECKED BY: MB/TH
DATE: 2 MAY 86
CTA # 6371.45

STATE OF ALASKA
No. 4914
Glenn L. Bolstad
No. 6524
C.E.
REGISTERED PROFESSIONAL ENGINEER

CTA ARCHITECTS ENGINEERS
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UPPER ROOF FRAMING AREA 'A'

UPPER FLOOR FRAMING AREA 'D'

MECH. FLOOR FRAMING AREA 'E'

SHEET
S 5.2 OF

Colony Senior High School

Palmer, Alaska

INDICATES CHANGES MADE BY EITHER ADDENDUM #1 OR ADDENDUM #2.
NUMBER IN TRIANGLE SYMBOL CORRESPONDS WITH ADDENDUM NUMBER. 6/30/08

RECORD DRAWINGS

KEY PLAN

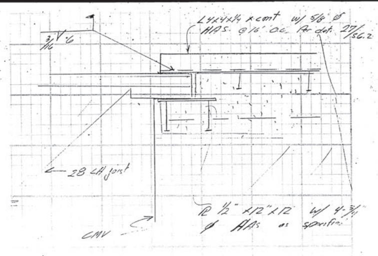
NORTH

ROOF FRAMING PLAN

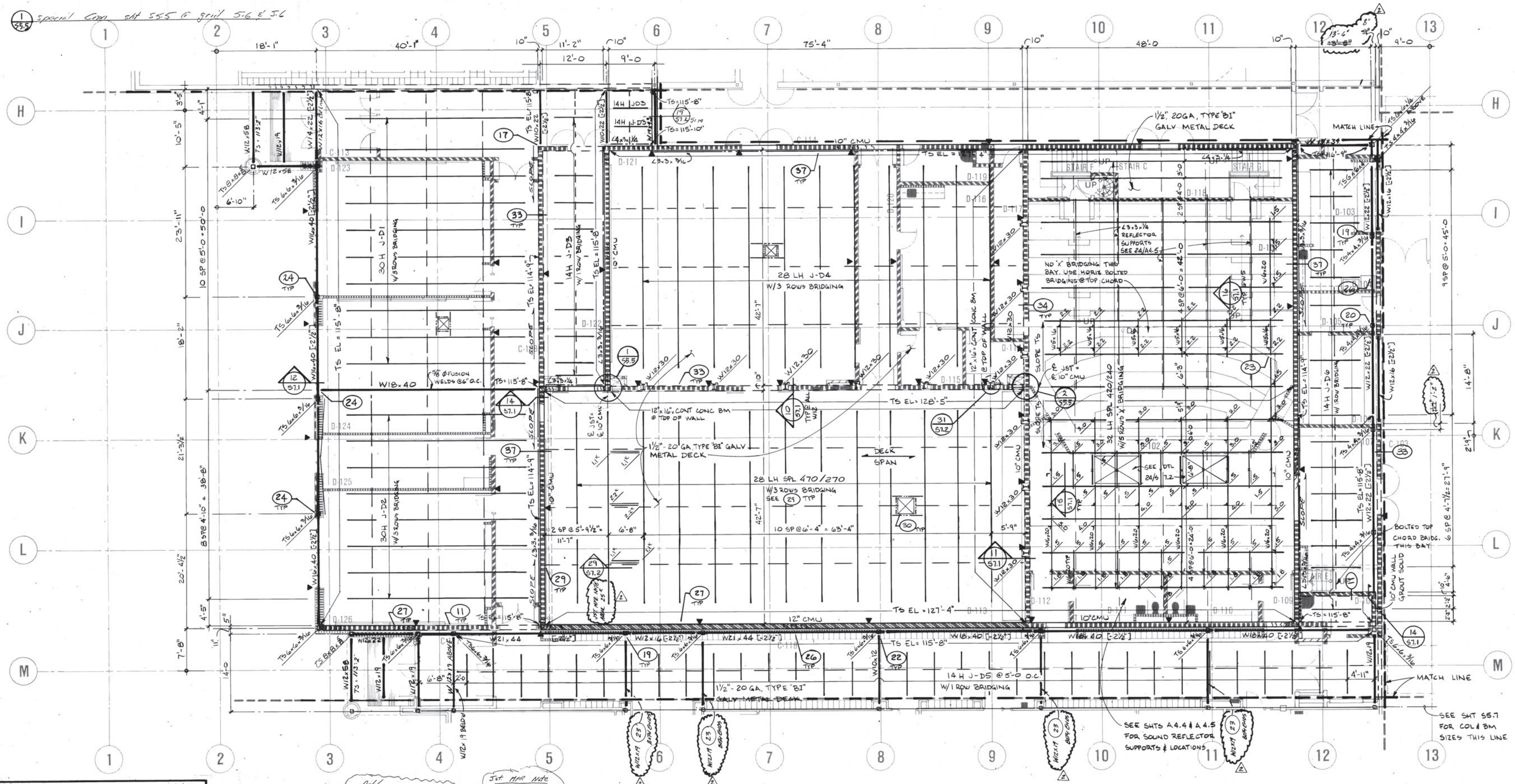
AREA 'A'

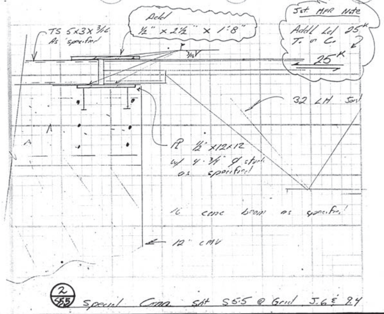
SHEET

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1/S5.5 Special Conn. at S5.5 @ Grid 5.6 & J.6





2/S5.5 Special Conn. at S5.5 @ Grid 3.6 & 2.4

JOIST SCHEDULE - AREA 'D'	
DESIGNATION	LOADING PLF
J-D1 SPL	200 / 150; 12'; 300
J-D2 SPL	200 / 150; 22'; 550
J-D3 SPL	300 / 200 / 150; 550
J-D4 SPL	270 / 200; 16'; 500
J-D5 SPL	300 / 200 / 150; 550
J-D6 SPL	550 / 200 / 150; 225

ROOF FRAMING PLAN - AREA - 'D'

1/8" = 1'-0

SEE ROOF FRAMING NOTES SHEET S5.2

12. Drawing S5.5

(a) Columns along grid 2.9 with connections 19/S6.1 or 20/S6.1 to be revised to 24/S6.2. These locations are at intersecting grids I.8, J.7 and K.7.

(b) 32 LH joist on grid J.6 between 9.4 and 11.8 to have additional top chord load of 25K axial (this has been indicated on joist shops). Joist is also to have special anchorage condition at grids 9.4 and J.6. See 2/S5.5

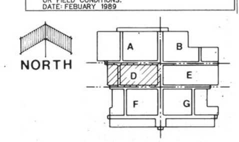
(c) 28 LH joist on grid 5.6 between J.6 and L.7 to have special anchorage condition at north end. See 1/S5.5

D-101 LARGE LECTURE
D-102 PLATFORM
D-103 CONCESSIONS
D-104 CONCESSIONS WORK ROOM
D-105 STUDENT STORE WORK ROOM
D-106 STUDENT STORE
D-107 STORAGE
D-108 JANITOR
D-109 DRESSING ROOM VESTIBULE
D-110 DRESSING ROOM
D-111 DRESSING ROOM
D-112 DRESSING ROOM VESTIBULE
D-113 WRESTING/GYMNASTICS
D-114 STORAGE
D-115 HUMAN PERFORMANCE OFFICE
D-116 HUMAN PERFORMANCE
D-117 LARGE LECTURE CORRIDOR
D-118 LARGE LECTURE LOBBY
D-119 JANITOR
D-120 WRESTING/GYMNASTICS CORRIDOR
D-121 WEIGHT TRAINING
D-122 P.E. EQUIPMENT STORAGE
D-123 FOREIGN LANGUAGE CLASSROOM
D-124 FOREIGN LANGUAGE CLASSROOM
D-125 FOREIGN LANGUAGE PREPARATION ROOM
D-126 FOREIGN LANGUAGE CLASSROOM
C-103 MAIN STREET CORRIDOR CENTER
C-108 FOREIGN LANGUAGE CORRIDOR
C-113 VESTIBULE
C-114 NORTH CORRIDOR WEST
C-117 VESTIBULE
C-118 CENTER CORRIDOR WEST

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DATE: FEBUARY 1989

NORTH



KEY PLAN

Colony Senior High School

Palmer, Alaska

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DRAWN BY: TH
CHECKED BY: MB
DATE: 2MAY 86
CTA #: 6371.45

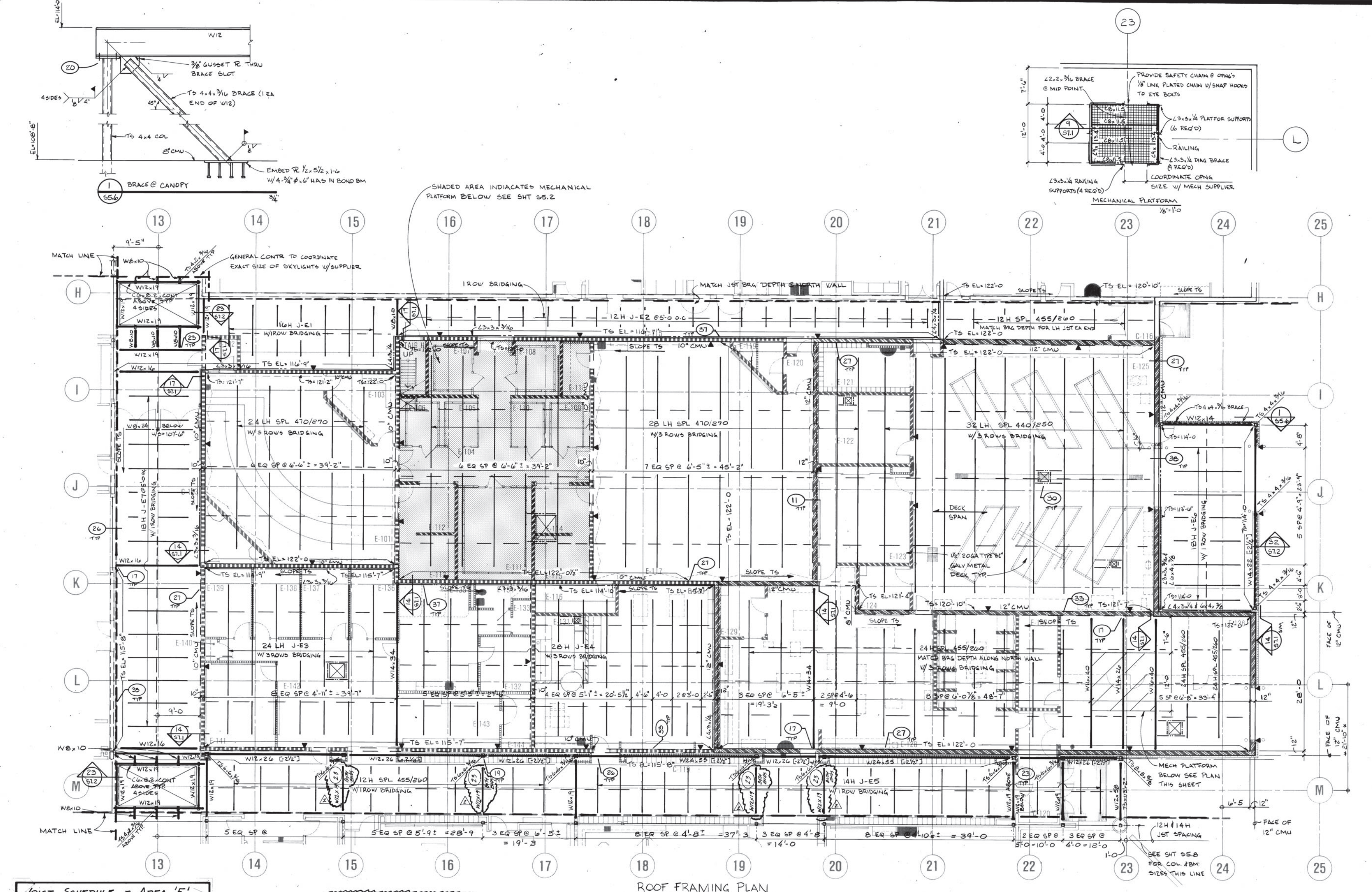
STATE OF ALASKA 49TH Gene L. Kolstad No. 6224 C.E. REGISTERED PROFESSIONAL ENGINEER

cta
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ROOF FRAMING PLAN
AREA "D"

SHEET S 5.5 OF ____

6 / D

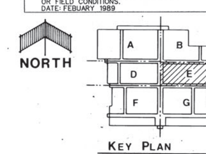


JOIST SCHEDULE - AREA 'E'	
DESIGNATION	LOADING PLF
J-E1 SPL	500; 200; 180; 100
J-E2 SPL	500; 200; 180; 300
J-E3 SPL	22'; 605; 200; 150
J-E4 SPL	22'; 605; 280; 168
J-E5 SPL	200; 200; 180; 500
J-E6 SPL	650; 200; 180; 50
J-E7 SPL	200; 180; 650

E-101 CHORAL LAB
E-102 CHORAL VESTIBULE
E-103 ROBE STORAGE
E-104 PRACTICE ROOM CORRIDOR
E-105 SOUND BOOTH
E-106 SOUND BOOTH
E-107 SOUND BOOTH
E-108 SOUND BOOTH
E-109 SOUND BOOTH
E-110 SOUND BOOTH
E-111 ENSEMBLE SOUND BOOTH
E-112 CHORAL OFFICE
E-113 CHORAL LIBRARY
E-114 INSTRUMENTAL OFFICE
E-115 INSTRUMENTAL LIBRARY
E-116 PERCUSSION STORAGE
E-117 INSTRUMENTAL LAB
E-118 STORAGE
E-119 STORAGE
E-120 INSTRUMENTAL VESTIBULE
E-121 CLEAN UP
E-122 STORAGE
E-123 CLASSROOM
E-124 AUTO SHOP OFFICE
E-125 AUTO SHOP
E-126 RECEIVING
E-127 CUSTODIAN OFFICE/SHOP
E-128 METALS/WELDING SHOP
E-129 METALS/WELDING OFFICE
E-130 GRAPHICS LAB
E-131 DARKROOM
E-132 NURSE'S OFFICE
E-133 STORAGE
E-134 TOILET/SHOWER
E-135 HEALTH/EXAM ROOM
E-136 COUNSELING OFFICE
E-137 COUNSELING OFFICE
E-138 COUNSELING OFFICE
E-139 COUNSELING OFFICE
E-140 STORAGE
E-141 CONFERENCE ROOM
E-142 GUIDANCE/WAITING ROOM
E-143 GUIDANCE LIBRARY
E-144 WORK ROOM
C-103 MAIN STREET CORRIDOR CENTER
C-115 NORTH CORRIDOR EAST
C-116 VESTIBULE
C-119 CENTER CORRIOR EAST
C-120 VESTIBULE

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DRAWN BY: TH
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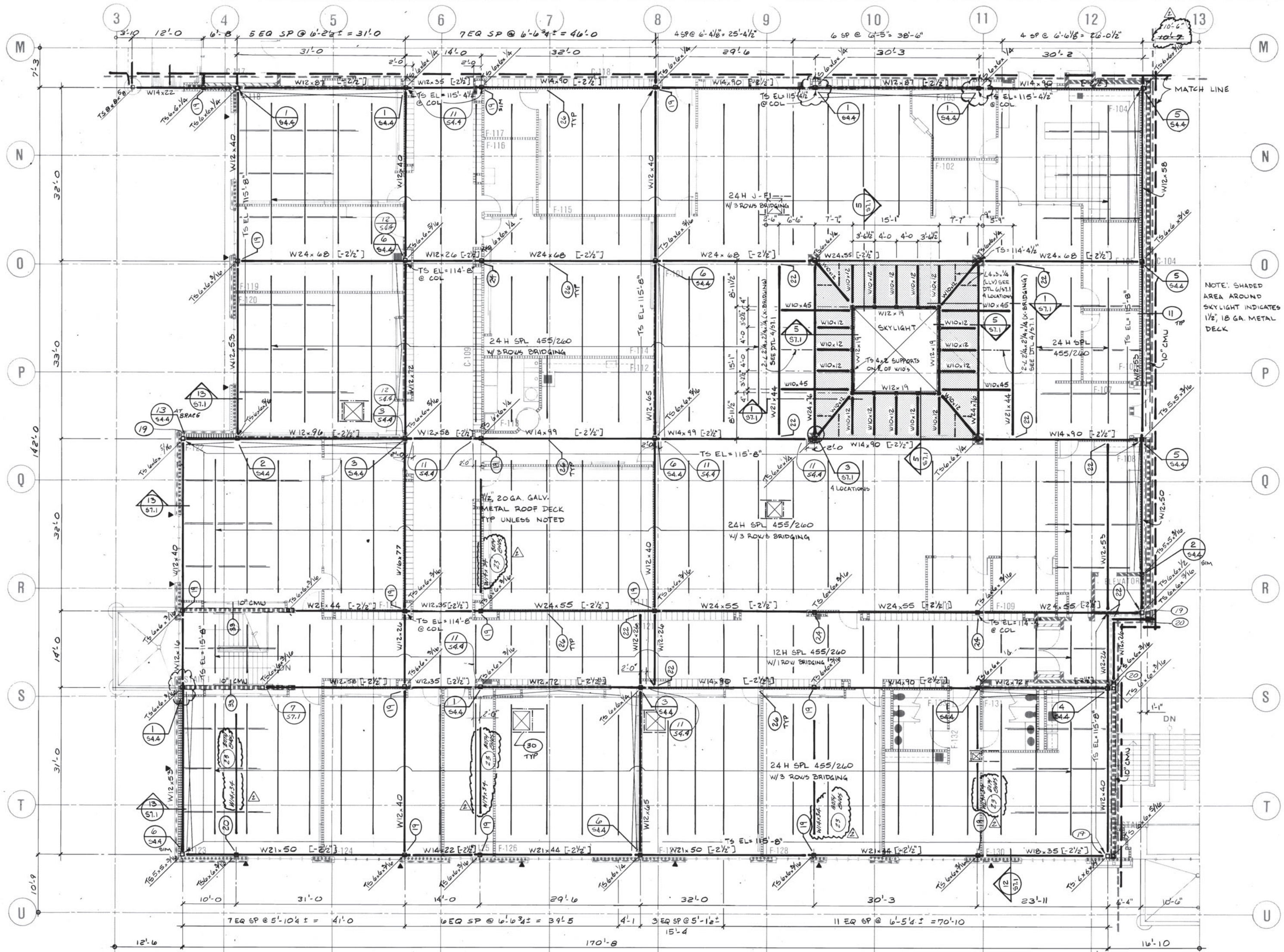
STATE OF ALASKA
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ROOF FRAMING PLAN
AREA "E"

SHEET
S 5.6 OF

7
E



ROOF FRAMING PLAN

1/8" = 1'-0

SEE ROOF FRAMING NOTES SHEET S5.2

1. Beam splice connections on grids M.4 at intersection of 9.5 and 11 require double 3/8" shear plates. Beam splice connection on grid 3.5 at R.9 requires double 3/8" shear plate.

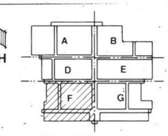
JOIST SCHEDULE - AREA "F"	
DESIGNATION	LOADING PLF
J-F1 SPL	260

F-101 LIBRARY
F-102 LIBRARIAN'S OFFICE
F-103 PERIODICAL/.MICRO-FILM ROOM
F-104 WORK ROOM
F-105 MEDIA ROOM
F-106 AUDIO ROOM
F-107 LIBRARY ENTRY
F-108 AV EQUIPMENT
F-109 CONFERENCE ROOM
F-110 CONFERENCE ROOM
F-111 LANGUAGE ARTS CLASSROOM
F-112 YEAR BOOK
F-113 DARKROOM
F-114 HEALTH CLASSROOM
F-115 PREVIEW CLASSROOM
F-116 HEALTH PREPARATION ROOM
F-117 VIDEO EQUIPMENT
F-118 LANGUAGE ARTS CLASSROOM
F-119 TEACHERS' PREPARATION
F-120 LANGUAGE ARTS CLASSROOM
F-121 JOURNAL ROOM
F-122 LANGUAGE ARTS CLASSROOM
F-123 LANGUAGE ARTS CLASSROOM
F-124 LANGUAGE ARTS CLASSROOM
F-125 TEACHERS' PREPARATION
F-126 LANGUAGE ARTS CLASSROOM
F-127 LANGUAGE ARTS CLASSROOM
F-128 LANGUAGE ARTS CLASSROOM
F-129 TEACHERS' STUDY
F-130 TEACHERS' LOUNGE
F-131 WOMEN'S TOILET
F-132 CORRIDOR
F-133 MEN'S TOILET
C-104 MAIN STREET CORRIDOR SOUTH
C-109 LANGUAGE ARTS CORRIDOR
C-117 VESTIBULE
C-118 CENTER CORRIDOR WEST
C-121 SOUTH CORRIDOR WEST

RECORD DRAWINGS

THESE DRAWINGS WERE PREPARED BY CTA ARCHITECTS ENGINEERS (CTA) FROM INFORMATION PROVIDED BY KEN BRADY CONSTRUCTION. TO THE BEST OF CTA'S KNOWLEDGE THIS INFORMATION IS ACCURATE; HOWEVER CTA HAS NOT VERIFIED THIS INFORMATION OR FIELD CONDITIONS.
DATE: FEBUARY 1989

NORTH



KEY PLAN

Colony Senior High School

Palmer, Alaska

△1 INDICATES CHANGES MADE BY EITHER ADDENDUM #1 OR ADDENDUM #2. NUMBER IN TRIANGLE SYMBOL CORRESPONDS WITH ADDENDUM NUMBER. 6/30/86

DRAWN BY: TH
CHECKED BY: MB GK.
DATE: 2 MAY '86
CTA # 6371.45

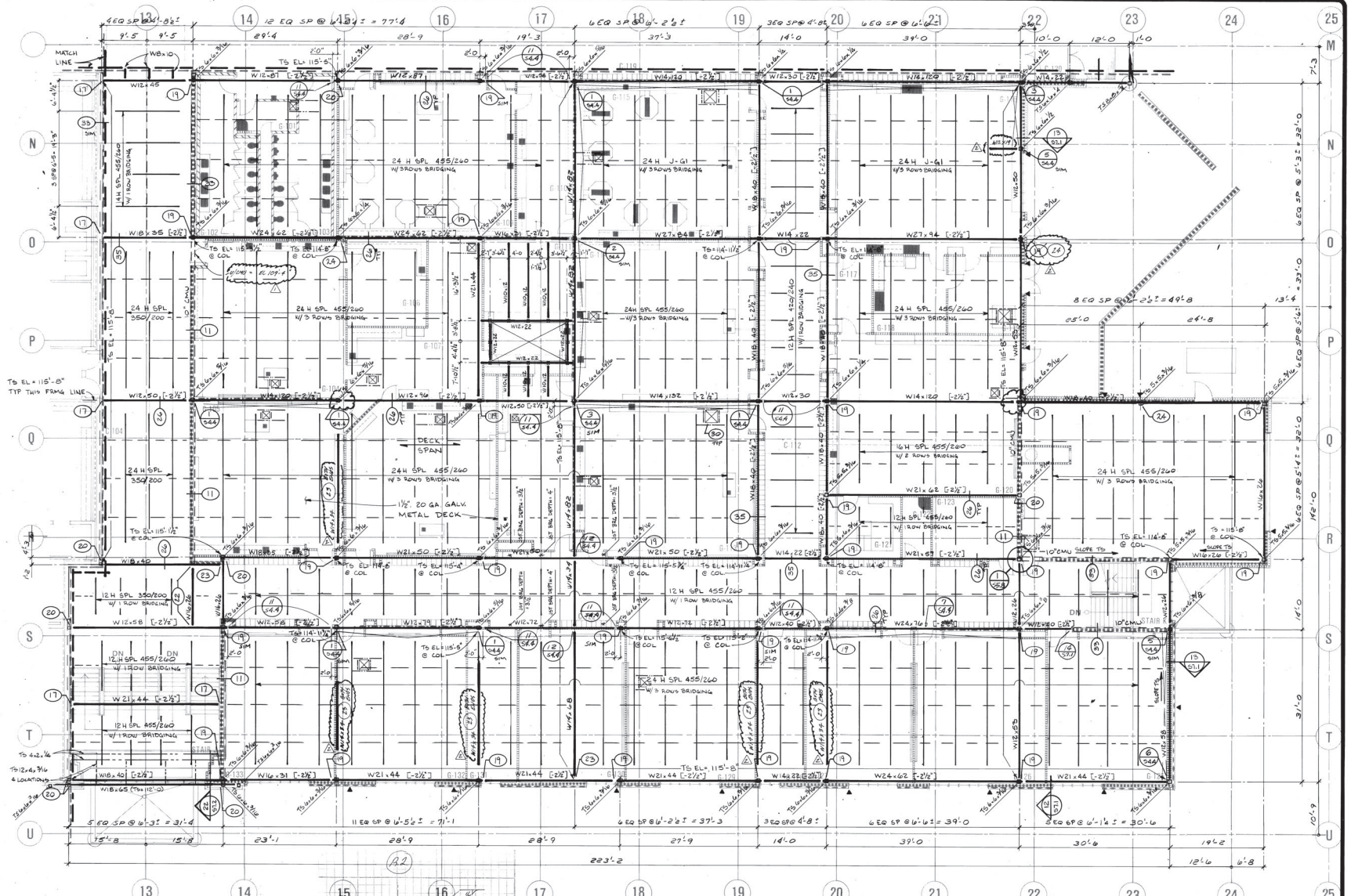
STATE OF ALASKA 49TH Gene L. Kolstad No. 6224 C.E. REGISTERED PROFESSIONAL ENGINEER

CTA ARCHITECTS ENGINEERS
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ROOF FRAMING PLAN AREA "F"

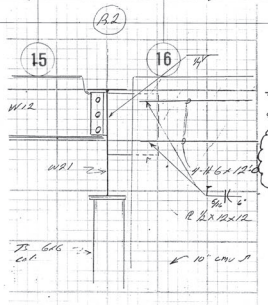
SHEET S 5.7 OF ____

8 F



JOIST SCHEDULE - AREA 'G'

DESIGNATION	LOADING PLF
J-G1 SPL	8'-0" 240



1/S5.8 Steeper Collector Detail @ Intersection of grid 21.9 @ B.2

ROOF FRAMING PLAN

1/8" = 1'-0

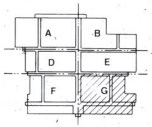
SEE ROOF FRAMING NOTES SHEET S5.2

Beam splice on grid P.6 at 15.1 requires double shear plate with 6-3/4" diameter bolts each beam. Beam splice on grid P.6 at 21.9 requires double shear plate. W21 x 57 and 10" CMU wall located on grid 21.9 at B.2 requires special anchorage. See 1/S5.8

G-101 JANITOR
G-102 GIRLS' TOILET
G-103 BOYS' TOILET
G-104 PHYSICAL SCIENCE CLASSROOM
G-105 PHYSICAL SCIENCE CLASSROOM
G-106 PHYSICAL SCIENCE CLASSROOM
G-107 PHYSICAL SCIENCE PREPARATION
G-108 GEOLOGY CLASSROOM
G-109 PHYSICS CLASSROOM
G-110 CHEMISTRY/PHYSICS PREPARATION
G-111 PLANTS/ANIMALS
G-112 BIOLOGY PREPARATION
G-113 BIOLOGY CLASSROOM
G-114 BIOLOGY CLASSROOM
G-115 CHEMISTRY CLASSROOM
G-116 CERAMICS AND SCULPTURE CLASSROOM
G-117 TEACHER'S OFFICE
G-118 CLAY STORAGE
G-119 KILN ROOM
G-120 PAINTING AND DRAWING CLASSROOM
G-121 STORAGE
G-122 JANITOR
G-123 MECHANICAL
G-124 MECHANICAL EQUIPMENT
G-125 SOCIAL STUDY CLASSROOM
G-126 SOCIAL STUDY CLASSROOM
G-127 SOCIAL STUDY CLASSROOM
G-128 TEACHERS' PREPARATION
G-129 SOCIAL STUDY CLASSROOM
G-130 SOCIAL STUDY CLASSROOM
G-131 TEACHERS' PREPARATION
G-132 SOCIAL STUDY CLASSROOM
G-133 SOCIAL STUDY CLASSROOM
C-104 MAIN STREET CORRIDOR SOUTH
C-112 ART CORRIDOR
C-119 CENTER CORRIDOR EAST
C-120 VESTIBULE
C-122 SOUTH CORRIDOR EAST

RECORD DRAWINGS
THESE DRAWINGS WERE PREPARED BY CTA ARCHITECTS ENGINEERS (CTA) FROM INFORMATION PROVIDED BY KEY BRADY CONSTRUCTION. THE ACCURACY OF CTA'S INVOLVEMENT IN THIS INFORMATION INCLUDES, HOWEVER CTA HAS NOT VERIFIED THIS INFORMATION OR FIELD CONDITIONS.
DATE: FEBUARY, 1989.

NORTH



KEY PLAN

Colony Senior High School

Palmer, Alaska

⚠ INDICATES CHANGES MADE BY EITHER ADDENDUM #1 OR ADDENDUM #2; NUMBER IN TRIANGLE SYMBOL CORRESPONDS WITH ADDENDUM NUMBER. 6/30/86

DRAWN BY: TH
CHECKED BY: MB
DATE: 2 MAY 86
CTA # 6571.45

STATE OF ALASKA
No. 6224
Gene L. Kolstad
R.E.
REGISTERED PROFESSIONAL ENGINEER

CTA ARCHITECTS ENGINEERS
BILLINGS • BOISE • ANCHORAGE

ROOF FRAMING PLAN
AREA "G"

SHEET S 5.8 OF ____

APP #826-06

NOTE: CONCRETE SLAB 4" (U.N.O.)
SEE PLAN FOR REINF.

ZIP STRIP OR 8"x1" DEEP SAW CUT. SAW CUTS SHALL BE MADE WITHIN 24 HOURS AFTER PLACING CONCRETE.

STOP SLAB REINF 12" CLR OF JOINT

VAPOR BARRIER

GRANULAR FILL AS SPEC'D

CONTROL JOINT — CONSTRUCTION JOINT

1 SLAB-ON-GRADE JOINTS

T= SLAB THICKNESS, SEE PLAN
R= RECESS DEPTH, SEE PLAN

1-#4 TOP & BOTTOM (OPENING + 3'-0)

VAPOR BARRIER

1-LAYER 30# FELT

T+R (8" MIN)

GRANULAR FILL AS SPEC'D

COMPACTED SUBGRADE

2 SLAB-ON-GRADE RECESS 1"

REINF IS CONTINUOUS THROUGH JOINT

CAULK EXTERIOR JOINT

NOTCH IS CONTINUOUS BOTH SIDES OF WALL

NOTE: WORK THIS DETAIL W/ CMU & BRICK CONTROL JOINTS (WHERE APPLICABLE)

3 VERTICAL WALL CONTROL JOINT
INDICATED BY ▲ ON PLAN NTS

REINFORCING CONTINUOUS ACROSS JOINT. STAGGER SPLICES A MINIMUM OF 40 BAR DIAMETERS, UNLESS INDICATED OTHERWISE

6"x1/16 GA GALV STEEL WATERSTOP CONTINUOUS

LAP REINFORCING AS INDICATED ON PLANS

PLAN

4 VERT CONSTRUCTION JOINT NTS

5 NOT USED

EXTERIOR — INTERIOR

SLOPE

SEE PLAN

#6 x 3'-0 @ 9" OC. INTO EXTERIOR SLAB

#4 x 3'-0 @ 16" O.C.

1" ø CONT @ OPENING

SEE PLAN 1'-0

6 THICKENED SLAB AT DOOR
TYP @ ALL DOORS TO EXTERIOR (WITHOUT GRATING PIT DTL)

T= FOOTING THICKNESS

1-#5 x 4'-0 FOR EACH LAYER OF STEEL

STEP 4'-0 MAX SEE PLAN

POUR AGAINST UNDISTURBED EARTH

REINFORCE SAME AS FOOTING

T MIN

7 TYPICAL STEPPED FOOTING NTS

EXTERIOR

1" SERIES NEOPRENE COMPRESSION SEAL

2"

12" CONC WALL

PLAN

DC 790 W/ BACKER ROD

SEE DWGS & NOTES FOR SIZE OF REINF. BARS

CMU WALL

STOP HORIZONTAL REINFORCING AT JOINT, TYPICAL. AT TOP BOND BEAM CONTINUE BAR THRU JOINT AND SCORE MORTAR JOINT.

VERTICAL BAR IN GROUTED CELL EACH SIDE OF JOINT, TYPICAL.

"RAPID" REGULAR CONTROL JOINT, (SEE SPECIFICATIONS.)

CAULK EXTERIOR W/ DC 790, AND INTERIOR W/ ACRYLIC SEALER. — CAULK AGAINST ETHAFOAM BACKING ROD

BLOCK

PLAN @ CMU

VENEER — TYPICAL CONTROL JOINT

8 SEISMIC WALL JOINT NTS

SEE ARCHITECTURAL ELEVATIONS FOR VENEER CONTROL JOINT LOCATIONS
-ALWAYS PROVIDE MATCHING CMU BACKUP WALL JOINT TO MATCH VENEER JOINT LOCATION

MASONRY WALL CONTROL JOINT
INDICATED BY ▲ ON PLAN OR IF NOT SHOWN @ 25'-0" O.C. MAX SPACING NTS

9

VERT REINF CONT

RAKE JOINT & CAULK FULL HEIGHT

FELT BOND BREAKER

BOLDFACE BARS ARE TO BE CONTINUOUS THRU COLUMN, NOT CONN. 1/2" ø BARS

PLAN @ COLUMN

CMU WALL PARALLEL TO BEAM

7" 1/2" 12" 1/2"

W14 OR LARGER

1/2 OR SMALLER

1" MIN NON SHRINK GROUT

R 1/2 x 6 1/2 x 0-6 1/2 W/ 2-3/4" ø x 1'-6" A.B. W/ DBL NUTS

2-#4 x 3'-0

2" 2"

2-#5 VERT FULL HEIGHT IN GROUTED CELL

2-3/4" ø x 1'-6" A.B. W/ DBL NUTS

10 BEAM BRG CONN W/ BM PARALLEL TO WALL (TYP UNO) 3/4"

METAL DECK (SEE PLAN FOR SIZE)

6" O.C. 1/16

#8 3/8 x 3 x CONT "J" 6/8 #6 x 6" HAS @ 16" O.C.

BOND BEAM ALONG TOP OF WALL. SEE DETAIL 13 FOR SLOPING OF WALL

CMU WALL, SEE PLAN FOR SIZE AND REINFORCING.

11 DECK-BRG. WALL CONN. 3/4"

METAL DECK

1-#12 TEKS SELF-TAPPING SCREW (OR EQUAL) @ 12" O.C.

2" MAX 1" MIN CLEAR

4 x 4 x 1/16 GA x CONT EACH SIDE OF WALL.

CMU WALL

SEE SHEET 7.2 FOR TYPICAL BRACING OF LOWER HEIGHT MASONRY WALLS

TYP JOINT REINF

NOTE: THIS DETAIL APPLIES AT ALL FULL HEIGHT NON-BEARING MASONRY WALLS. TYP

12 MASONRY WALL TOP CONN 1"

LAP BARS IN ADJACENT BOND BEAMS 40 x BAR DIAMETER, 24" MIN

INDICATES REINFORCING STEEL TOP OF CMU WALL (SLOPED)

SHADED AREA INDICATES BLOCK FILLED WITH GROUT

13 TYP BOND BM ALONG SLOPE 4"

BAR LAP, 40 DIA (TYP)

CORNER BAR, SAME SIZE AS HORIZ BARS

ALTERNATE CORNER BAR

SIZE AND SPACING SEE PLAN

2-#5 VERTS AND FOUNDATION DOWELS AT WALL ENDS AND INTERSECTIONS (TYPICAL)

TYPICAL CORNER REINFORCING

TERMINATE ALL HORIZONTAL BARS WITH HOOKS. HOOKS SHALL BE AT LEAST 90° W/ 12 BAR DIA EXTENSION. ORIENT HOOK IN ANY DIRECTION.

SIZE AND SPACING, SEE PLAN

LAP HORIZ BARS 40 DIA (TYP)

2-#6 VERTS AND FOUNDATION DOWELS AT WALL ENDS AND INTERSECTIONS (TYPICAL) U.N.O.

SPECIAL SHEAR WALL REINFORCING

OFFSET STEEL PLACEMENT FOR CMU

T= THICKNESS OF WALL	A= C-C BAR
8"	3"
10"	5"
12"	6 4"

USE THESE DIMENSIONS FOR BAR PLACEMENT WHEN CMU REINFORCING IS CALLED OUT AS OFFSET (OS). INSTALL REBAR POSITIONERS TO MAINTAIN BAR POSITION WIRE PRODUCTS AA22B OR APPROVED EQUAL.

15 OFFSET CMU REINFORCING NTS

TABLE OF REINFORCEMENT LAPS

Bar Size	Embedment Length	Other Bar Lap Length Class "B"	Embedment Length	* Top Bar Lap Length Class "B"
3	1'-0"	1'-0"	1'-0"	1'-2"
4	1'-0"	1'-2"	1'-2"	1'-8"
5	1'-0"	1'-6"	1'-5"	2'-0"
6	1'-3"	1'-9"	1'-8"	2'-6"
7	1'-6"	2'-3"	2'-3"	3'-2
8	2'-3"	3'-0"	3'-0"	4'-3"
9	2'-9"	3'-9"	3'-9"	5'-4"
10	3'-6"	4'-10"	4'-10"	6'-9"
11	4'-3"	6'-0"	6'-0"	8'-3"

NOTES:

1. *TOP BARS SHALL BE DEFINED AS ANY HORIZONTAL BARS PLACED SUCH THAT MORE THAN 12 INCHES OF FRESH CONCRETE IS CAST IN THE MEMBER BELOW THE BAR, IN ANY SINGLE POUR. HORIZONTAL WALL BARS ARE CONSIDERED TOP BARS.
2. ALL BENDS, UNLESS SHOWN OTHERWISE, SHALL BE A 90° STANDARD HOOK AS DEFINED IN ACI 318-02, SECTION 7.1.
3. MULTIPLY ABOVE EMBEDMENT AND LAP LENGTHS BY 1.25 WHERE BAR SPACING IS LESS THAN 6 INCHES (EXAMPLE: BEAM REINFORCEMENT).
4. TABLE VALUES ARE CALCULATED FOR CONCRETE COMPRESSIVE STRENGTH OF 3,500 PSI AND REINFORCEMENT. Fy = 60,000 PSI.

16 REINFORCING LAPS

BEARING PLATE SCHEDULE	
BM SIZE	PL SIZE
W6 - W12 & ALL C, MC & WT SHAPES	PL 1/2 x 7 1/2 x 1'-0
W14 - W21	PL 3/4 x 7 1/2 x 1'-0
EXCEPTIONS TO SCHEDULE	
W12x50	PL 1 x 7 1/2 x 1'-3
W18x40	PL 1/4 x 7 1/2 x 1'-6

CMU WALL SEE PLAN FOR SIZE

WF BM SEE PLAN & SCHEDULE

NOTE: WHERE JOIST BRG IS ADJACENT TO BM BRG COPE TOP OF BM AS REQ'D FOR JST BRG DEPTH. WELD 1-L 4 x 3 1/2 x 5/16 x 0'-8 (LLH) TO EA SIDE OF BM WEB FOR JOIST BRG SEAT

BRG PL W/ 2-3/4" ø x 8" A.B. W/ DBL NUTS. SEE SCHEDULE

1" MIN NON SHRINK GROUT

TYP BOND BM OR 2-#5 x 4'-0 IN BOND BM

GROUT POCKET SOLID AFTER BM IS INSTALLED

GROUT 2 CELLS SOLID FULL HEIGHT @ BM BRG. REINF W/ 2-#5 EA CELL (UNO)

17 BEAM BEARING PERPINDICULAR TO WALL

RECORD DRAWINGS
THESE DRAWINGS WERE PREPARED BY CTA ARCHITECTS ENGINEERS (CTA) FROM INFORMATION PROVIDED BY KEN SPRADY CONSTRUCTION. TO THE BEST OF CTA'S KNOWLEDGE THIS INFORMATION IS ACCURATE; HOWEVER CTA HAS NOT VERIFIED THIS INFORMATION OR FIELD CONDITIONS.
DATE: FEBRUARY 1989

3/4" SHIMS TYP

4"

WF

BEAM — COPE AS REQ'D STEEL BEAM, SEE PLAN

2-L 4 x 3 1/2 x 1/4 (1-EA SIDE)

JOIST SEAT DEPTH

2-3/4" ø BOLTS (1-EACH ANGLE) STAGGER SPACING.

14 CMU HORIZ REINFORCING NTS

SEE FRAMING PLAN. OMIT TOP COLUMN AT ROOF FRAMING.

COLUMN BASE PLATE, SIMILAR TO TOP PLATE BELOW

TYP

STIFFENER PL 3/8" ø (1/2 BEAM FLANGE WIDTH), EACH SIDE OF BEAM WEB (TYPICAL)

LOWER COL. OUTSIDE DIM.

NOTE: LOCATION OF BEAM STIFFENER PL's TO CLEAR WHERE PERPENDICULAR BEAM FRAMES INTO SIDE OF CONTINUOUS BEAM AT COLUMN ℄.

MAX PER AISC

1/2" (TYP)

STEEL BEAM, CONTINUOUS

4-3/4" ø BOLTS AT BEAM GAGE

COLUMN TOP PL 1/2" ø COLUMN SIZE + 1" OR BEAM FLANGE WIDTH (WHICHEVER IS LARGER).

STEEL COLUMN, SEE PLAN FOR SIZE. OMIT BOT. COL. WHERE NOT INDICATED ON PLAN

18 CONT BEAM-COLUMN NTS

NOM. BM DEPTH	ROWS OF BOLTS	LENGTH OF ANGLE	T
30" - 36"	7	1'-8 1/2"	5/16"
24" - 27"	6	1'-5 1/2"	1/4"
16" - 21"	4	11 1/2"	1/4"
12" - 15"	3	8 1/2"	1/4"
8" - 10"	2	5 1/2"	1/4"
6" - 7"	1	3"	1/4"

NOTE: AT 1 ROW CONN PROVIDE 2L 6 x 4 x 5/16 W/ 2-3/4" ø BOLTS THRU BEAM WEB.

3/8" PLATE W/ 3/4" ø BOLTS. NUMBER OF BOLTS AS PER TYPICAL FRAMING CONNECTION FOR WF-A. - AT SIMILAR SEE 11-8 4.4

3 SIDES

WHERE WF-A IS 24" OR DEEPER, USE 2-3/4" R. COPE BOT. FLANGE OF WF-A

WF-A

WF-B

1'-0 (UNO)

TOP PL 1/2 x 7 AS REQ'D W/ 4-3/4" ø BOLTS 1/8 WIDTH EITHER COL + 1" OR BEAM FLANGE WHICHEVER IS GREATER

T= DB OR WF COL

19 BEAM - COLUMN CONNECTION TYP UNO NTS

STEEL BEAM, CONTINUOUS, SEE FRAMING PLANS.

PL 1/2 x 6 AS REQ'D W/ 4-3/4" ø BOLTS @ BEAM GAGE. PLATE WIDTH SHALL BE THE GREATER OF: COLUMN + 1", OR, - BEAM FLANGE WIDTH. WHICHEVER IS GREATER

T= DB OR WF COL

20 CONT BEAM-COLUMN CONN TYP UNO NTS

PAD SIZE (1'-0 EW LARGER THAN FOOTING BASE OR SEE PLAN FOR SIZE)

#3 TIE @ 4'-6" @ 18" OC AROUND PERIMETER

6 x 6 - W1.4 x W1.4 WWF 1" CLEAR OF TOP

3/4" CHAMFER (TYP)

#3 x CONT AROUND PERIMETER AND ALL OPENINGS

CONSTRUCTION JOINT, ROUGHEN

21 EQUIP PAD ON SUSPENDED SLAB 1"

WF

JOIST SEAT DEPTH

SEE TYPICAL BOLTED CONN. DETAIL: NUMBER OF BOLTS AND ROWS TO FIT LOWER DIMENSION OF CONNECTING BEAM.

22 FRAMING CONNECTION NTS

2L 6 x 4 x 5/16 @ 1 ROW CONN ONLY

2L 6 x 3 1/2 x T

3/4" ø A325 N BOLTS

* 2 1/2" DIMENSION TYPICAL EXCEPT AS RECOMMENDED BY AISC FOR LARGER MEMBERS.

VARIES

ACCEPTABLE DEVIATIONS:
1. SHOP WELD ANGLES TO EITHER BEAM OR SUPPORTING MEMBER
2. FOR W 16 x 22 OR LESS, SHOP WELD 5/16" x 5 1/2" SINGLE SHEAR PL TO SUPPORTING MEMBER. FIELD BOLT TO BM

NOTE: ALL FRAMING CONNECTIONS SHALL CONFORM TO SCHEDULE UNLESS DETAILED OTHERWISE

23 TYPICAL FRAMING CONN NTS

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△ INDICATES CHANGES MADE BY ESTNER ADDENDUM #1 OR ADDENDUM #2. NUMBER IN TRIANGLE SYMBOL CORRESPONDS WITH ADDENDUM NUMBER. - 6/30/06

DRAWN BY: JPR
CHECKED BY: MDP
DATE: 2 MAY 06
CTA # 03714.45

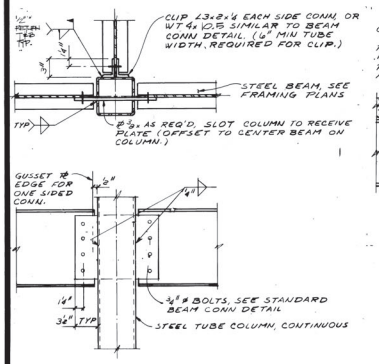
STATE OF ALASKA — 49TH — Chris W. Kikkert — No. 6224 — REGISTERED PROFESSIONAL ENGINEER

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STANDARD STRUCTURAL DETAILS

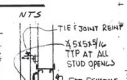
(TYPICAL DETAILS)

SHEET S 6.1 OF ___



NOTES:
1) BOLTED CONN INDICATED AS TYPICAL. WELD CONN ONLY AT COLUMNS INDICATED ON PLAN
2) FOR STEEL BEAMS OF NOMINAL DEPTH 14" OR LESS, IT IS ACCEPTIBLE TO SHOP WELD A WT 4x10.5 TO THE TUBE COLUMN WALL W.N.O. TRIM TO FIT

24 CONT TUBE COLUMN - BEAM
NTS



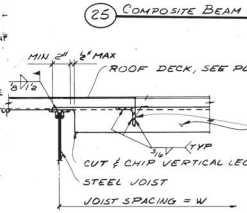
SECTION THRU TYPICAL HEADER AT STRUCT METAL STUDS

LINTEL MATERIAL CONTINUED		
SPAN	STRUCTURAL METAL STUD MIN	BRACES @ EA END
UP TO 5'*	(2) 6" 16 GA.	NONE
5' TO 8'*	(2) 8" 16 GA	* AT MID SPAN
8' TO 12'*	(3) 8" 14 GA.	* AT ⅓ POINTS

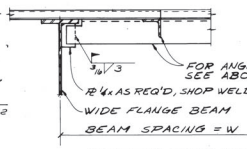
* ALL BRACES = DOUBLE 6" 16 GA STUDS

28 LINTEL SCHEDULE CONTINUED
CONTINUED

25 COMPOSITE BEAM DETAIL
NTS



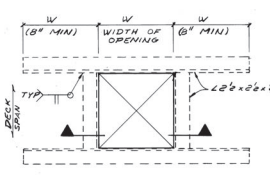
BETWEEN STEEL JOISTS



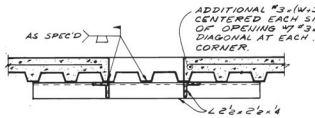
BETWEEN STEEL BEAMS

NOTE: THIS DETAIL APPLIES TO OPENINGS GREATER THAN 1'-0 IN ANY DIMENSION, OR EQUAL TO 1'-0 SQUARE.

26 H-SERIES JST SEAT ON STL BM
1½"

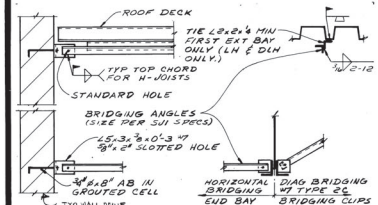


PLAN

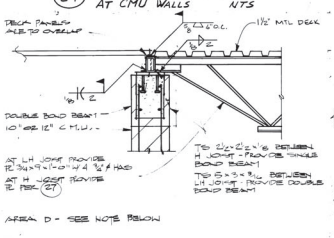


SECTION

NOTE: DETAIL TYPICAL AT ALL DECK PENETRATIONS GREATER THAN 8" SQUARE AND NOT SPECIFICALLY FRAMED ON FRAMING PLAN.

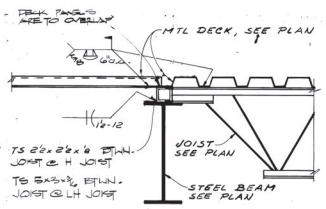


29 LH & DLH JOIST BRIDGING AT CMU WALLS
NTS



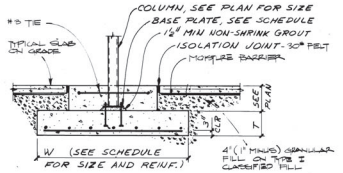
AREA D - SEE NOTE BELOW

30 TYP ROOF OPNG FRAMING
1½"

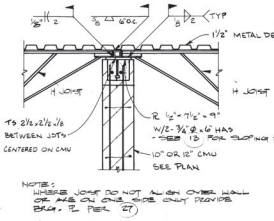


31 TYPICAL FLOOR OPENING
NTS

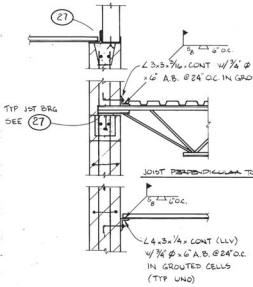
32 TYPICAL COLUMN FOOTING
½"



33 TYP. H SERIES BEARING
¾"

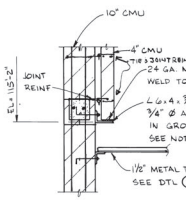


NOTE: WHERE JOIST DO NOT ALIGN OVER WALL OR AB OR CMU SIDE ONLY PROVIDE BRG. PL PER 27



NOTES:
1. ANCHOR BOLTS SHALL BE PLACED WITH A TEMPLATE
2. FLAME CUTTING OF ANGLES OR BOLTS TO ATTACH ANGLES WILL NOT BE ACCEPTED WORK !
3. SHOP WELDED HEADED ANCHOR STUDS ⅝"Ø x 6" LG ARE ACCEPTABLE ALTERNATES FOR ANCHOR BOLTS PROVIDED GROUT IS VIBRATED AROUND ALL HAS

37 TYP. ROOF DECK LEDGER ANGLE
¾"

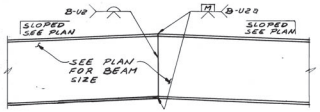


38 4" CMU VENEER LEDGER ANGLE
¾"

34 CHANGE IN DECK SPAN
¾"

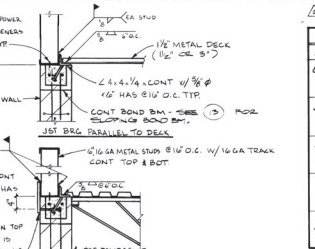
35 CHANGE IN DECK SPAN
1½"

36 STL BEAM AT RIDGE
NTS

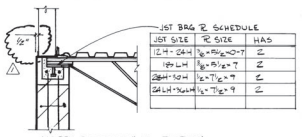


AREA D NOTE :

AREA D ONLY @ 2B LH & 3C LH JOIST BEARING BETWEEN W12 COLUMNS ARE TO BEAR ON 12" x 16" CONT. CONC. BEAM AT TOP TWO COURSES OF WALL - SEE DETAIL 10/S7.1 FOR REINF.

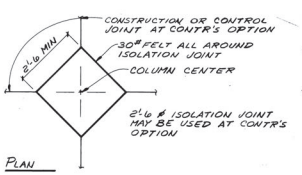


NOTES:
1) WHERE BEAM FLANGE IS LESS THAN 5'6", OFFSET JOIST SEATS.



JST BRG PERPENDICULAR TO DECK

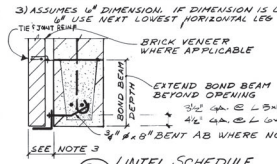
27 TYP. EXT. DECK LEDGER
¾"



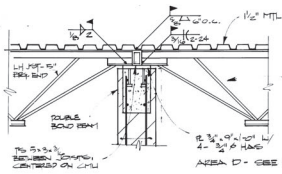
PLAN

NOTES:
1) THIS SCHEDULE APPLIES TO ALL OPENINGS UNLESS DETAILED OTHERWISE.
2) ALL OPENINGS GREATER THAN 12'-0 SHALL BE SPECIAL DETAILED ON DRAWINGS.
3) ASSUMES 6" DIMENSION. IF DIMENSION IS LESS THAN 6" USE NEXT LOWEST HORIZONTAL LEG SIZE.

LINTEL MATERIAL / REINFORCEMENT				
SPAN	CONCRETE	6" OR 8" CMU	10" OR 12" CMU	4" BRICK VENEER
UP TO 5'-0	2-#5	8" DEEP 2-#5 BOT	8" DEEP 2-#5 BOT	L5x5x¼ LOOSE
5'-0 TO 8'-0	2-#6	16" DEEP 2-#5 BOT	16" DEEP 2-#6 BOT	L5x5x¼ W/ 1-AB @ E
8'-0 TO 12'-0	2-#7	24" DP. 2-#5 T&B W/ #3 STIRRUPS @ 8" EA END	24" DP. 2-#6 T&B #3 STIRRUPS @ 8" EA END	Lx6x⅜ W/ AB @ 4'0 MAX
NOTES:	EXTEND BARS 40 DIA BEYOND OPENING →	→	→	8" BEARING AT EA END



28 LINTEL SCHEDULE
NTS



AREA D - SEE NOTE BELOW

TYPE LH SERIES BEARING

NOTES:
1. "Substitute "CMU Veneer" for "Brick Veneer" wherever the brick veneer note occurs. CMU veneer is base Bid, Brick veneer is an alternate.

RECORD DRAWINGS
THESE DRAWINGS WERE PREPARED BY CTA ARCHITECTS ENGINEERS (CTA) FROM INFORMATION PROVIDED BY KEN BRADY CONSTRUCTION. TO THE BEST OF CTA'S KNOWLEDGE, THIS INFORMATION REFLECTS, WHETHER CTA HAS NOT VERIFIED, THIS INFORMATION OR FIELD CONDITIONS.
DATE: FEBUARY 1989

INDICATES CHANGES MADE BY EITHER ADDENDUM #1 OR ADDENDUM #2. NUMBER IN TRIANGLE SYMBOL CORRESPONDS WITH ADDENDUM NUMBER. 6/30/86

Colony Senior High School
Palmer, Alaska

DRAWN BY: JPR
CHECKED BY: GK, SK
DATE: 2 MAY 86
CTA # 0371.43

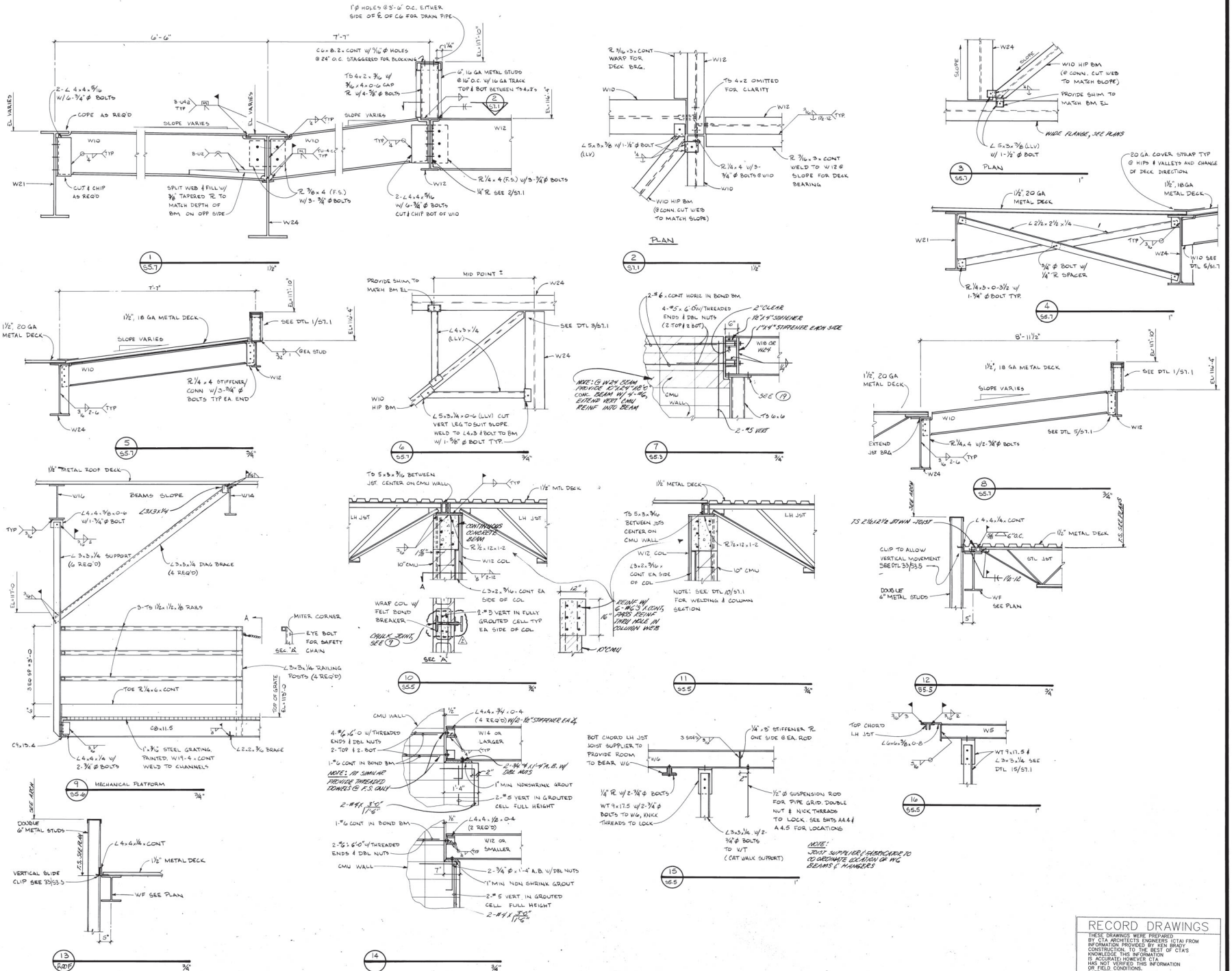
STATE OF ALASKA
8/40TH EXP.
Derek L. Rolstad
No. 5224
C.E.
REGISTERED PROFESSIONAL ENGINEER

CTA ARCHITECTS ENGINEERS
BILLINGS • BOISE • ANCHORAGE

STANDARD STRUCTURAL DETAILS
(TYPICAL DETAILS)

SHEET
S 6.2 OF

RFP #826-06



RECORD DRAWINGS
THESE DRAWINGS WERE PREPARED BY CTA ARCHITECTS ENGINEERS (CTA) FROM INFORMATION PROVIDED BY KEN BRADY CONSTRUCTION. TO THE BEST OF CTA'S KNOWLEDGE THIS INFORMATION IS ACCURATE; HOWEVER CTA HAS NOT VERIFIED THIS INFORMATION OR FIELD CONDITIONS.
DATE: FEBUARY 1982

Colony Senior High School

Palmer, Alaska

⚠ INDICATES CHANGES MADE BY EITHER ADDENDUM #1 OR ADDENDUM #2; NUMBER IN TRIANGLE SYMBOL CORRESPONDS WITH ADDENDUM NUMBER. 6/30/86

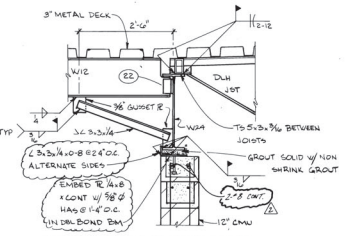
DRAWN BY: TH
CHECKED BY: MB
DATE: 5 MAY 86
CTA #: 6571.45

Brent L. Ellis
No. 6224
U.S.A.
REGISTERED PROFESSIONAL ENGINEER

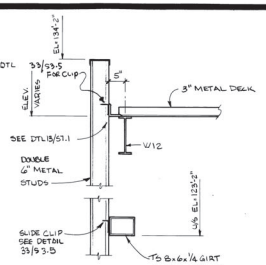
CTA ARCHITECTS ENGINEERS
BILLINGS • BOISE • ANCHORAGE

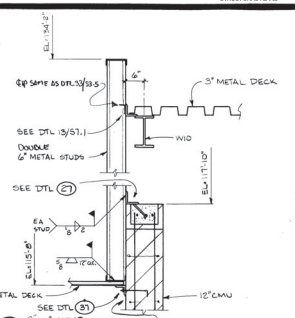
ROOF FRAMING DETAILS

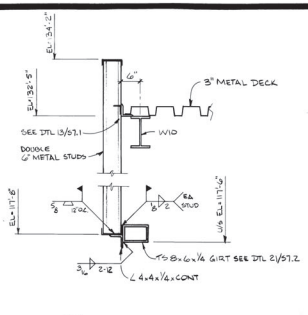
SHEET
S 7.1 OF

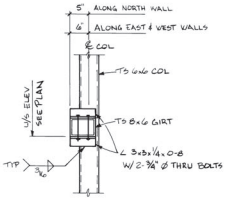


Detail 17 is revised per request from the fabricator. 5/8" ø H.A.S. are to be welded directly to the W24 beam. Embedded plate and angle 3 x 3 x 1/4 x 8" is to be omitted. CMU is to be cast, and dry packed around H.A.S.

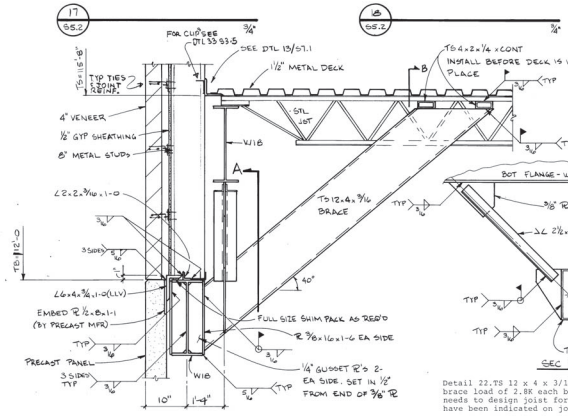








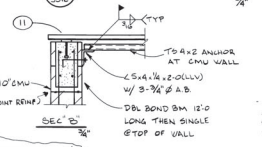
17 / 55.2 — 3/4"



Detail 22.TS 12 x 4 x 3/16 to show diagonal upward brace load of 2.8K each brace. Joist manufacturer needs to design joist for this upward load (these have been indicated on joist shops).

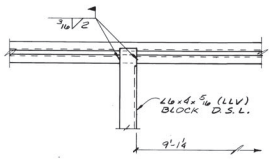
16 / 55.2 — 3/4"

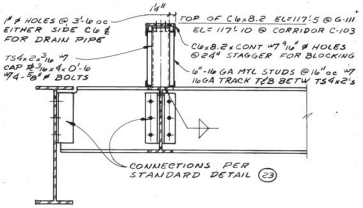
19 / 55.2 — 3/4"



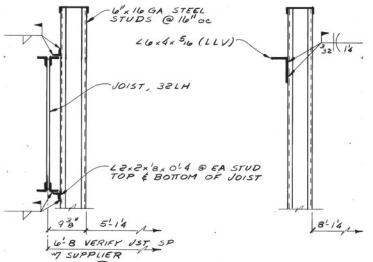
20 / 55.2 — 3/4"

21 / 57.2 — GIRT TO COLUMN CONNECTION — 1 ¾"



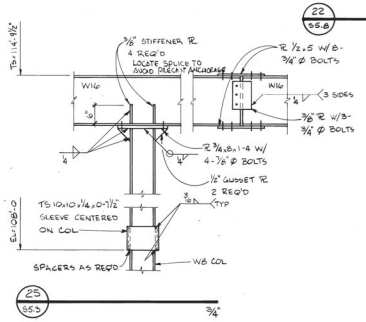


23 / 55.6 — FRAME AT SKYLIGHT — 1"

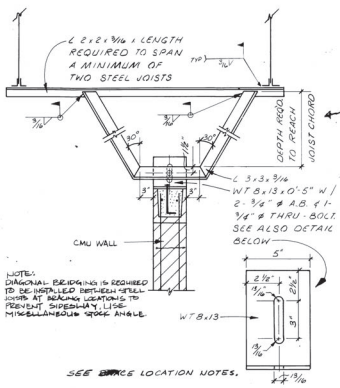


24 / 55.5 — SMOKE HATCH FRAME AREA D — 1"

22 / 55.8 — 1" UNO



25 / 55.3 — ¾"



SEE BRACE LOCATION NOTES.

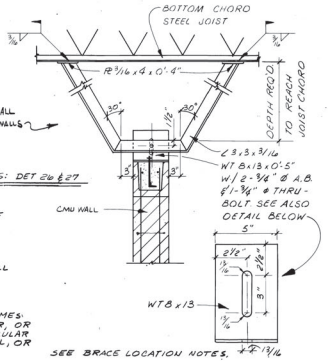
26 / 55.2 — TYPICAL RESTRAINT AT TOP OF NON-LOAD BEARING CMU WALLS

NOTE! THIS BRACING IS REQUIRED AT ALL NON LOAD BEARING MASONRY WALLS

BRACE LOCATION NOTES: DET 26 & 27

1) MAXIMUM SPACING BETW BRACES, OR BETW BRACE AND SUPPORTED* END OF WALL IS AS FOLLOWS:
   4" CMU ---11'-0
   8" CMU ---14'-0
   10 CMU ---16'-0
2) MAXIMUM DISTANCE FROM UNSUPPORTED* END OF WALL IS AS FOLLOWS:
   4" CMU --- 5'-0
   8" CMU --- 6'-0
   10 CMU --- 7'-0

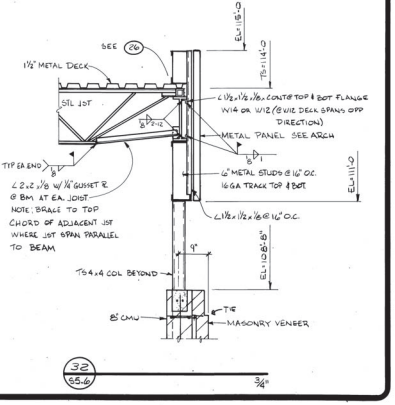
* SUPPORTED END WALL FRAMES: INTO CONT. PERPENDICULAR, OR THE CORNER OF PERPENDICULAR CMU WALL, CONCRETE WALL, OR STEEL FRAMING.



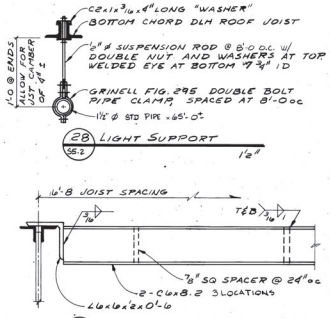
NOTE: BRACING SUPPORTS TO BE COORDINATED WITH JOINT PANEL POINTS OF BRACE. ADDITIONALLY WITH A SPLICE FROM THE BRACING SUPPORT TO THE NEAREST UPPER JOIST PANEL POINT, USE STOCK ANGLE.

SEE BRACE LOCATION NOTES.

27 / 55.2 — TYPICAL RESTRAINT AT TOP OF NON-LOAD BEARING CMU WALLS

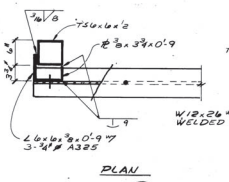


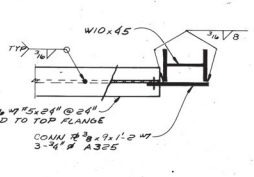
32 / 55.6 — ¾"



28 / 55.2 — LIGHT SUPPORT — 1½"

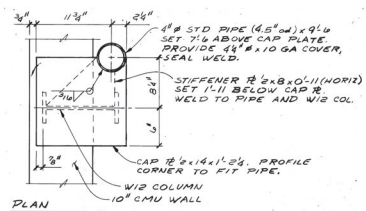
29 / 55.5 — MAT MOVER HOIST SUPPORT — 1½"





PLAN

30 / 55.3 — MASONRY SUPPORT BEAM STAIR 'B' — 1"



PLAN

31 / 55.5 — SATELLITE DISH MAST (FOR FUTURE DISH) — 1½"

RECORD DRAWINGS
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DATE: FEBRUARY 1999

△ INDICATES CHANGES MADE BY EITHER ADDENDUM #1 OR ADDENDUM #2. NUMBER IN TRIANGLE SYMBOL CORRESPONDS WITH ADDENDUM NUMBER. 6/30/96

Colony Senior High School

Palmer, Alaska

DRAWN BY: TH CK
CHECKED BY: MB
DATE: 2/04/96
CTA # 16371.45

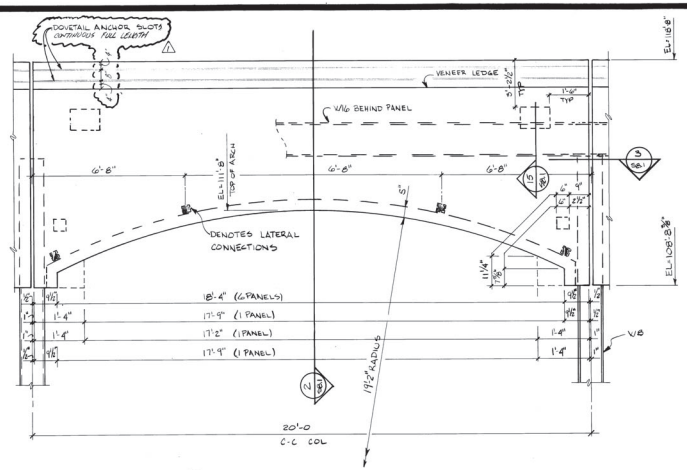
STATE OF ALASKA — 49TH — Brian K. Litz — Brian L. Litz — No. 5224 — REGISTERED PROFESSIONAL ENGINEER

CTA ARCHITECTS ENGINEERS
BILLINGS • BOISE • ANCHORAGE

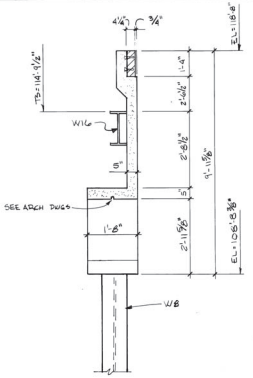
ROOF FRAMING DETAILS

SHEET S 7.2 OF ___

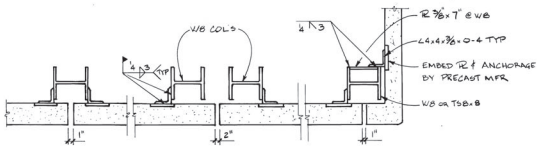
RFP #826-06



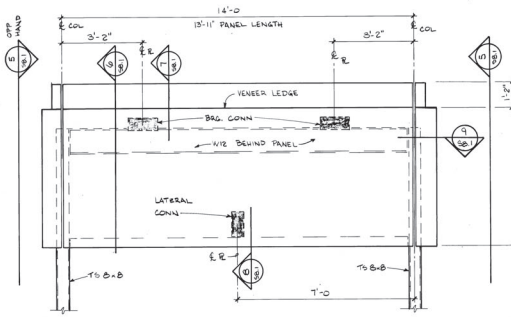
1 / 55.3 TYP PRECAST PANEL ELEV @ NORTH ENTRANCE (9 REQ'D) NTS

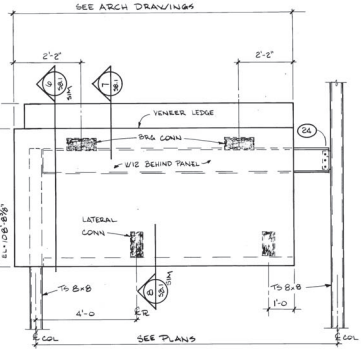


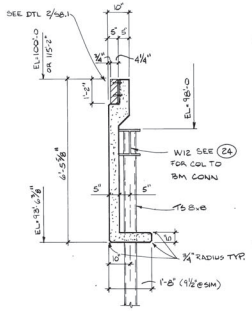
2 / 58.1 NTS



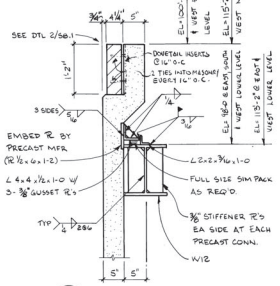
3 / 58.1 NTS



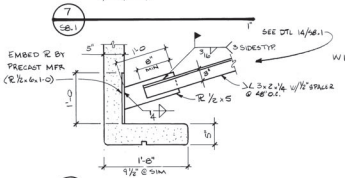




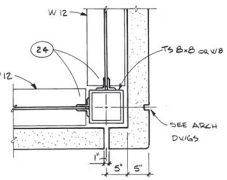
6 / 58.1 1/2"



7 / 58.1 1"

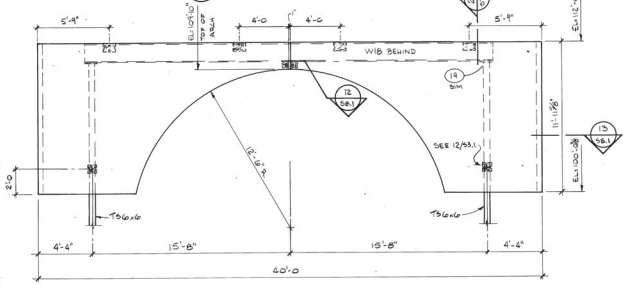


8 / 58.1 1"

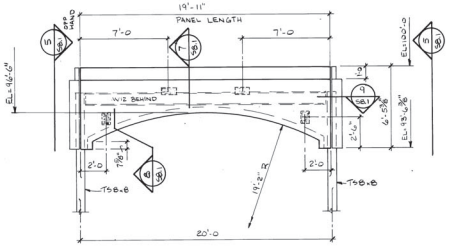


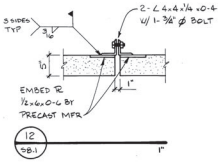
9 / 58.1 1"

4 / 52.1 TYP PRECAST PANEL ELEV @ WEST ENTRANCE 1/2"

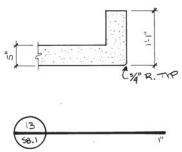


5 / 58.1 SIDE PANELS @ ENTRANCE CANOPIES SEE ARCH FOR PANEL CONFIGURATIONS





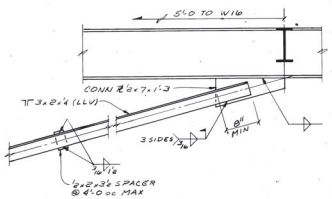
12 / 58.1 1"



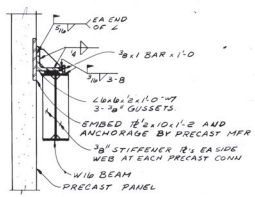
13 / 58.1 1"

10 / 52.8 UPPER PRECAST PANELS SOUTH ENTRANCE 1/4"

11 / 52.8 LOWER FRONT PRECAST PANEL @ SOUTH ENTRANCE 1/4"



14 / 58.1 1"



15 / 58.1 1"

PRECAST NOTES:

1. PRECAST FABRICATOR SHALL DESIGN AND PROVIDE THE REINFORCING AND LIFTING LOOPS TO SATISFY CURRENT CODES AND SAFELY HANDLE LOADS IMPOSED DURING CASTING, STRIPPING, HANDLING, SHIPPING AND ERECTION.
2. SHOP DRAWINGS AND CALCULATIONS SHALL BE SUBMITTED FOR REVIEW ESTABLISHING SUITABILITY OF THE PANELS FOR THE USE INTENDED INCLUDING WIND AND SEISMIC FORCES
3. PROCEDURES FOR HANDLING, STORAGE AND ERECTION SHALL BE SET FORTH SO AS TO AVOID DAMAGE TO THE PANELS OR THE STRUCTURE
4. PANEL CONNECTIONS AND BRACING SHALL BE REVIEWED FOR EACH PANEL TYPE AND PRECAST FABRICATOR IS TO MAKE PROVISIONS FOR PROPER INSTALLATION.

RECORD DRAWINGS

THESE DRAWINGS WERE PREPARED BY CTA ARCHITECTS ENGINEERS (CTA) FROM INFORMATION PROVIDED BY KEN BRADY CONSTRUCTION. TO THE BEST OF CTA'S KNOWLEDGE THIS INFORMATION IS ACCURATE; HOWEVER CTA HAS NOT VERIFIED THIS INFORMATION OR FIELD CONDITIONS.
DATE: FEBUARY 1989

Colony Senior High School

Palmer, Alaska

⚠ INDICATES CHANGES MADE BY BIDDER ADDENDUM #1 OR ADDENDUM #2. NUMBER IN TRIANGLE SYMBOL CORRESPONDS WITH ADDENDUM NUMBER. 6/10/86

DRAWN BY: TH
CHECKED BY: JG
DATE: 2 MAY 86
CTA # 6371.4-5

STATE OF ALASKA
10 JUNE 1987
Gene L. Kolstad
No. 6224
C.E.
REGISTERED PROFESSIONAL ENGINEER

cta
CTA ARCHITECTS ENGINEERS
BILLINGS • BOISE • ANCHORAGE

PRECAST PANEL DETAILS

SHEET S8.1 OF

RFP #826-06

TYPICAL NOTES FOR EQUIPMENT ANCHORING

1.— ANCHOR ALL MECHANICAL EQUIPMENT TO THE FLOOR, CURB, FOUNDATION, OR STRUCTURAL BASE (AS APPLICABLE). ANCHORING SHALL BE CAPABLE OF WITHSTANDING A HORIZONTAL LATERAL FORCE AS DEFINED BY THE UNIFORM BUILDING CODE, 1979 EDITION, SEISMIC ZONE 4, ESSENTIAL (I=1.5). THIS FORCE, WHICH IS EQUAL TO 0.45 TIMES THE EQUIPMENT WEIGHT SHALL BE APPLIED AT THE CENTER OF GRAVITY OF THE EQUIPMENT IN ANY DIRECTION.

1 SCHEDULE OF SIDE BRACING FOR RECTANGULAR DUCTS

DUCT SIZE ***	VERTICAL L LONGEST L'@	DIAGONAL L'S	HORIZONTAL L'S	BOLT SIZE	CONNECTION TO STRUCTURAL SUPPORTING MEMBER *	WT PER LINEAR FOOT **
30" SQ	2"x2"x16GA	2"x2"x16GA	2"x2"x16GA	1/2"ø	TYPE I	13
42" SQ	2"x2"x16GA	2"x2"x16GA	2"x2"x16GA	1/2"ø	TYPE I	20
54" SQ	2"x2"x16GA	2"x2"x16GA	2"x2"x16GA	5/8"ø	TYPE I	27
60" SQ	3"x3"x16GA	3"x3"x16GA	3"x3"x16GA	5/8"ø	TYPE II	36
84" SQ	4"x4"x14GA	4"x4"x14GA	4"x4"x14GA	5/8"ø	TYPE II	53
96" SQ	4"x4"x12 GA	4"x4"x12 GA	4"x4"x12 GA	1"ø	TYPE III	80

*SEE SCHEDULE SHEET 13 FOR TYPICAL CONNECTION TO STRUCTURAL SUPPORTING MEMBERS.
** MAX. WEIGHTS OF DUCT OR COMBINATIONS OF DUCTS PER LINEAR FOOT
*** THE DUCTS MAX. DIMENSION SHALL GOVERN WHAT BRACING IS REQUIRED, EXAMPLE: A 36"x 60" DUCT SHALL BE BRACED AS A 60" SQ. DUCT.

2 SCHEDULE OF CENTER BRACING FOR RECTANGULAR DUCTS

DUCT SIZE ***	VERTICAL L'S	DIAGONAL L'S	HORIZONTAL L'S	LONGITUDINAL L'S	BOLT SIZE	CONN. TO STRUCT. SUPPORTING MEMBERS *	WT. PER FOOT **
30" SQ	2"x2"x16GA	2"x2"x16GA	2"x2"x16GA	3"x3"x16 GA	1/2"ø	TYPE II	13
42" SQ	4"x4"x16GA	2"x2"x16GA	2"x2"x16GA	DO	5/8"ø	TYPE II	20
54" SQ	4"x4"x12 GA	2"x2"x16GA	2"x2"x16GA	DO	5/8"ø	TYPE II	27
60" SQ	4"x4"x12 GA	3"x3"x16GA	3"x3"x16GA	DO	5/8"ø	TYPE II	36
84" SQ	4"x6"x14 GA	4"x4"x14 GA	4"x4"x14 GA	DO	3/4"ø	TYPE III	53
96" SQ	5"x5"x12 GA	4"x4"x12 GA	4"x4"x12 GA	DO	1"ø	TYPE III	80

"L" DENOTES ANGLE
ALL HOLES IN L'S 1/8" ø OVERSIZE MAX.
PLACE STANDARD CUT WASHERS BETWEEN SHEET METAL L'S & NUT

** EDGE DISTANCE FOR BOLTS

1/2"ø	1"
5/8"ø	1"
3/4"ø	1 1/8"
7/8"ø	1 1/4"
1"ø	1 1/2"

SHEET 2

SCHEDULE FOR BRACING PIPES

PIPE SIZE	"ELCEN" (OR EQUAL) HANGER TYPE	BOLTS TO "L" **	VERTICAL ANGLE	DIAGONAL ANGLE	LONGITUDINAL ANGLE	TOP CONN. OF DIAG. & LONG'L L'S *	ROD SIZE	MAX. LENGTH FOR RODS
2 1/2	CLEVIS TYPE	5/8"ø	2"x2"x16GA	2"x2"x16GA	2"x2"x16GA	TYPE I	1/2"ø	9.5'
3	DO	DO	2"x2"x16GA	2"x2"x16GA	2"x2"x16GA	TYPE I	1/2"ø	9.5'
3 1/2	DO	DO	2"x2"x16GA	2"x2"x16GA	2"x2"x16GA	TYPE I	1/2"ø	9.5'
4	DO	DO	2"x2"x16GA	2"x2"x16GA	2"x2"x16GA	TYPE I	5/8"	11'
5	DO	DO	2"x2"x16GA	2"x2"x16GA	2"x2"x16GA	TYPE I	5/8"	11'
6	DO	DO	2"x2"x16GA	2"x2"x16GA	2"x2"x16GA	TYPE II	3/4"	11'
8	DO	DO	3"x3"x16GA	3"x3"x12GA	3"x3"x12GA	TYPE II	7/8"ø	13'
10	DO	DO	3"x3"x16GA	3"x3"x12GA	3"x3"x12GA	TYPE III	7/8"ø	13'

"L" DENOTES ANGLE.
* SEE SCHED. FOR TYP. CONN. TO STRUCTURAL SUPPORTING MEMBERS.
** PLACE STANDARD CUT WASHERS BETWEEN SHEET METAL L'S & NUT.

SHEET 8

SCHEDULE FOR TYP. CONNECTIONS TO STRUCTURAL SUPPORTING MEMBERS

TYPE	MAX. LOAD CAPACITY POUNDS	PHILLIPS REDHEAD ANCHORS TO CONC. LT. WT.	PHILLIPS REDHEAD ANCHORS TO CONC. HARD ROCK	CONC. CAST-IN PLACE INSERT	BOLT OF ST'L BM CLAMP	SPREADER SIZE	BOLT AT WOOD	SPANCRETE ROD	ANGLE TO SUPPORTING STRUCTURAL MEMBER	ROD SIZE FOR PIPES
I	500	3/8"	3/8"	3/8"	3/8"	C4x5.4			3"x2"x5/16"-5" LLH	1/2"ø
II	1000	1/2"	3/8"	1/2"	3/8"	C5x6.7			3"x2"x3/8"x6"x0'-5" LLH	1/2"ø
III	1500	5/8"	1/2"	1/2"	1/2"	C6.8B			3"x2"x3/8"x6'-0" LLH	5/8"ø
IV	2000	3/4"	1/2"	5/8"	1/2"	C8x11.5			3"x2"x 1/2"x4'-0" LLH	3/4"ø
V	3000	2-3/4"	2-1/2"	2-1/2"	3/8"	C9x13.4			2"x3"x3/8"x6'-0"x4'	7/8"ø
VI	4000	2-3/4"	2-3/4"	2-3/4"	3/8"	C10x15.3			2"x3"x 1/2"x0'-6"	1"ø***

NOTES: 1. FOR SLABS LESS THAN 5" THICK ONLY THIN SLAB INSERTS MAY BE USED.
2. * FOR USE W/CONC. CAST IN PLACE INSERTS OR PHILLIPS REDHEAD IN HARDROCK ONLY.
3. ** FOR USE WITH CONC. CAST IN PLACE INSERTS ONLY.
4. FOR ESSENTIAL FACILITIES WHERE CONC. ANCHOR BOLTS OF THE "RED HEAD" EXPANSION TYPE ARE LOADED IN PULLOUT, 50 PER CENT OF THE BOLTS (ALTERNATE BOLTS IN ANY GROUP ARRANGEMENT) SHALL BE PROOF TESTED TO TWICE THE ALLOWABLE LOAD. IF THERE ARE FAILURES, THE IMMEDIATELY ADJACENT BOLTS MUST THEN ALSO BE TESTED.
5. THE MECHANICAL ENGINEER SHALL BE RESPONSIBLE FOR SUBMITTING TO THE STRUCTURAL ENGINEER ALL PERTINENT MECHANICAL DATA SO THAT THE STRUCTURAL ENGINEER CAN DESIGN THE STRUCTURE TO SUPPORT THE MECHANICAL SYSTEM.

SHEET 10

TYPICAL NOTES FOR BRACING OF DUCTS

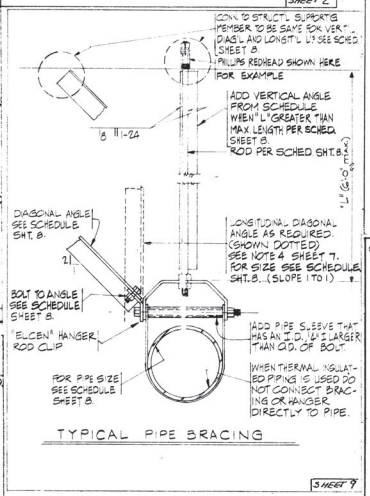
1.— DETAILS SHOWN PROVIDE A LATERAL BRACING SYSTEM. A TYPICAL VERTICAL SUPPORT SYSTEM MAY ALSO BE USED HOWEVER, WHERE BRACING OCCURS THE VERTICAL ANGLE SHOWN MAY REPLACE A TYPICAL VERTICAL SUPPORT. THIS INCLUDES A TRAPEZE VERTICAL SUPPORTING SYSTEM.
2.— BRACE ALL RECTANGULAR DUCTS 6 SQ. FT. OF AREA AND LARGER. BRACE ALL ROUND DUCTS 60" IN DIAMETER AND LARGER.
3.— TRANSVERSE BRACING TO OCCUR 30'-0" o.c. MAX. (EXCEPT FOR RECTANGULAR DUCTS 6 SQ. FT. OF AREA OR LARGER WHICH MAY BE BRACED 60'-0" o.c.) TRANSVERSE BRACING SHALL BE INSTALLED AT EACH DUCT TURN AND AT EACH END OF A DUCT RUN.
LONGITUDINAL BRACING SHALL OCCUR AT 60'-0" o.c. MAX. TRANSVERSE BRACING FOR ONE DUCT SECTION MAY ALSO ACT AS LONGITUDINAL BRACING FOR A DUCT SECTION CONNECTED PERPENDICULAR TO IT IF THE BRACING IS INSTALLED WITHIN FOUR FEET OF THE INTERSECTION OF BOTH DUCTS & THE BRACING IS SIZED FOR THE LARGER DUCT.
4.— NO BRACING 1" ROD, RED'D AT THE TOP OF DUCT IS SUSPENDED 12" OR LESS FROM THE SUPPORTING STRUCTURAL MEMBER ATTACHED TO TOP OF DUCT.
5.— A GROUP OF DUCTS MAY BE COMBINED IN A LARGER SIZE FRAME USING THE OVERALL DIMENSIONS WITH MAX WT. FOR SELECTION OF THE MEMBERS FROM THE SCHEDULE ON SHEET 2.
6.— WALLS, INCLUDING SYP-BOARD NON-BEARING PARTITIONS, WHICH HAVE DUCTS RUNNING THRU THEM MAY REPLACE A TYPICAL TRANSVERSE BRACE.
7.— WHERE IT IS PRACTICAL TO DO SO, DUCTS (&PIPES) NOT BRACED, SHALL BE INSTALLED WITH A 6" MIN. CLEARANCE TO VERTICAL CEILING HANGER WIRES.

SHEET 1

GENERAL NOTES FOR BRACING PIPES

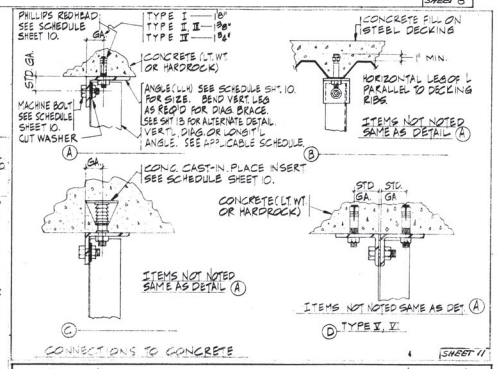
SHEET 9

1.— BRACE ALL PIPES WITH 2 1/2" I.D AND LARGER.
2.— DETAILS SHOWN PROVIDE A LATERAL BRACING SYSTEM. A TYPICAL VERTICAL SUPPORT SYSTEM MUST ALSO BE USED HOWEVER, WHERE BRACE OCCURS, THE VERTICAL ANGLE SHOWN MAY REPLACE A TYPICAL VERTICAL SUPPORT.
3.— TRANSVERSE BRACINGS AT 40'-0" o.c. MAX.
4.— LONGITUDINAL BRACINGS AT 80'-0" o.c. MAX.
5.— TRANSVERSE BRACING FOR ONE PIPE SECTION MAY ALSO ACT AS LONGITUDINAL BRACING FOR THE PIPE SECTION CONNECTED PERPENDICULAR TO IT, IF THE BRACING IS INSTALLED WITHIN 12'-0" OF THE ELBOW OR TEE AND SIMILAR SIZE.
6.— DO NOT USE BRANCH LINES TO BRACE MAIN LINES.
7.— PROVIDE FLEXIBILITY IN JOINTS WHERE PIPES PASS THROUGH BUILDING SEISMIC OR EXPANSION JOINTS, OR WHERE RIGIDLY SUPPORTED PIPES CONNECT TO EQUIPMENT WITH VIBRATION ISOLATORS.
8.— AT VERTICAL PIPE RISERS, WHEREVER POSSIBLE, SUPPORT THE WEIGHT OF THE RISER AT A POINT OR POINTS ABOVE THE CENTER OF GRAVITY OF THE RISER. PROVIDE LATERAL GUIDES AT THE TOP AND BOTTOM OF THE RISER AND AT INTERMEDIATE POINTS NOT TO EXCEED 30'-0" ON CENTER.
9.— PROVIDE LARGE ENOUGH PIPE SLEEVES THROUGH WALLS OR FLOORS TO ALLOW FOR ANTICIPATED DIFFERENTIAL MOVEMENTS.
10.— DO NOT FASTEN ONE RIGID PIPING SYSTEM TO TWO DISSIMILAR PARTS OF A BUILDING THAT MAY RESPOND IN A DIFFERENT MODE DURING AN EARTHQUAKE; FOR EXAMPLE, A WALL AND A ROOF.
11.— BRACING DETAILS, SCHEDULE AND NOTES ARE TO BE USED WITH THE FOLLOWING TYPES OF PIPE: STEEL PIPE SCHEDULE 40 AND 80, COPPER PIPE TYPE K, L, AND DWV, SILVER SOLDERED BRAZED JOINTS TO BE USED WITH COPPER PIPE).
12.— FOR GAS PIPING, THE BRACING DETAILS, SCHEDULES AND NOTES MAY ALSO BE USED EXCEPT THAT TRANSVERSE BRACING SHALL BE AT 20'-0" o.c. MAX. AND LONGITUDINAL BRACING AT 40'-0" o.c. MAX. ALSO 1" & 1 1/2" ø AND 2" ø PIPES SHALL BE BRACED THE SAME AS 2 1/2" ø PIPE IN THE SCHEDULE.
13.— ACID WASTE PIPING SYSTEMS SUCH AS GLASS, PLASTIC AND DURIRON PIPE AND CAST IRON PIPING SYSTEMS ARE EXCLUDED FROM THE GUIDELINES.
14.— IN BOILER & MECH'L EQUIPMENT ROOMS, BRACING OF ALL TYPES OF PIPE (EX. STEEL, COPPER, ETC.) INCLUDED IN SCHEDULE SHALL BE EXTENDED TO INCLUDE 1 1/4", 1 1/2" & 2" ø, BRACED AS REQ'D FOR 2 1/2" ø PIPE.



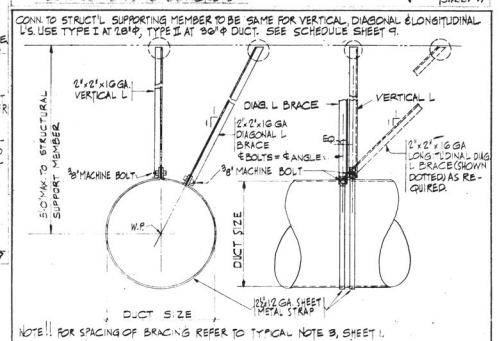
TYPICAL PIPE BRACING

SHEET 7



CONNECTIONS TO CONCRETE

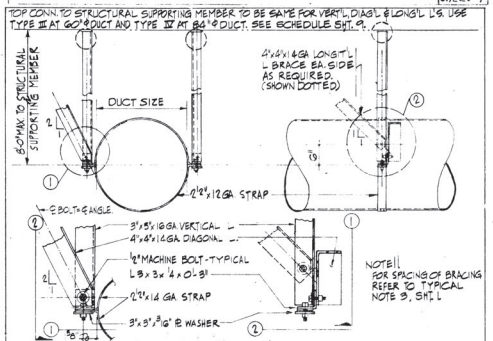
SHEET 11



NOTE!! FOR SPACING OF BRACING REFER TO TYPICAL NOTE 3, SHEET 1.

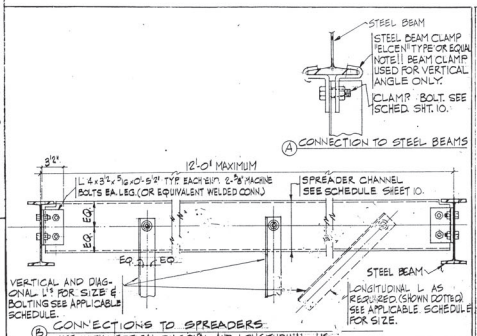
TYPICAL BRACING FOR 24"ø AND 30"ø DIAMETER DUCT

SHEET 5



TYPICAL BRACING FOR 60"ø AND 84"ø DIAMETER DUCTS

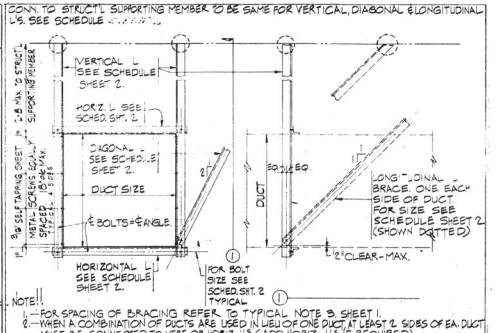
SHEET 6



(B) CONNECTIONS TO SPREADERS
USE WITH VERTICAL, DIAGONAL, AND LONGITUDINAL L'S

CONNECTIONS TO STEEL

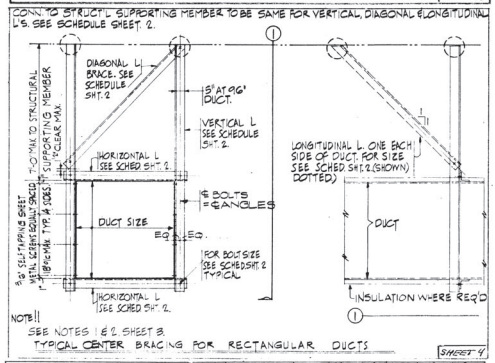
SHEET 13



NOTE!!
1.— FOR SPACING OF BRACING REFER TO TYPICAL NOTE 3, SHEET 1.
2.— WHEN A COMBINATION OF DUCTS ARE USED IN LIEU OF ONE DUCT, AT LEAST 2 SIDES OF EA. DUCT MUST BE CONNECTED TO VERT. OR HORIZ. L'S (ADD HORIZ. L'S IF REQUIRED)

TYPICAL SIDE BRACING FOR RECTANGULAR DUCTS

SHEET 3



NOTE!!
SEE NOTES 1 & 2 SHEET 8.

TYPICAL CENTER BRACING FOR RECTANGULAR DUCTS

SHEET 4

RECORD DRAWINGS
"THESE DRAWINGS WERE PREPARED BY CTA ARCHITECTS ENGINEERS (CTA) FROM INFORMATION PROVIDED BY KEN BRADY CONSTRUCTION. TO THE BEST OF CTA'S KNOWLEDGE, THIS INFORMATION IS ACCURATE; HOWEVER CTA HAS NOT VERIFIED THIS INFORMATION OR FIELD CONDITIONS."
DATE: FEBRUARY, 1989

Colony Senior High School

Palmer, Alaska

DRAWN BY: DT, SS
CHECKED BY: JB
DATE: 5-2-86
CTA #: 6371-45

STATE OF ALASKA
49TH
Gerald L. Hansen
No. 8012
REGISTERED PROFESSIONAL ENGINEER

CTA ARCHITECTS ENGINEERS
BILLINGS • BOISE • ANCHORAGE

SIESMIC DETAILS

SHEET
M 1.5 OF 26

1 INCLUDES CHANGES MADE BY ADDENDUM #1 OR ADDENDUM #2, NUMBER IN TRIANGLE SYMBOL CORRESPONDS WITH ADDENDUM NUMBER. 6/30/86

RFP #826-06

P | N | D
ENGINEERS, INC.

MEMORANDUM

To: Jeff Walden, Mat Su Borough Date: 7 Dec 2018

Cc: Antonio Weese, Mat Su School District

From: Charles Kenley, PND Engineers, Inc C. Kenley

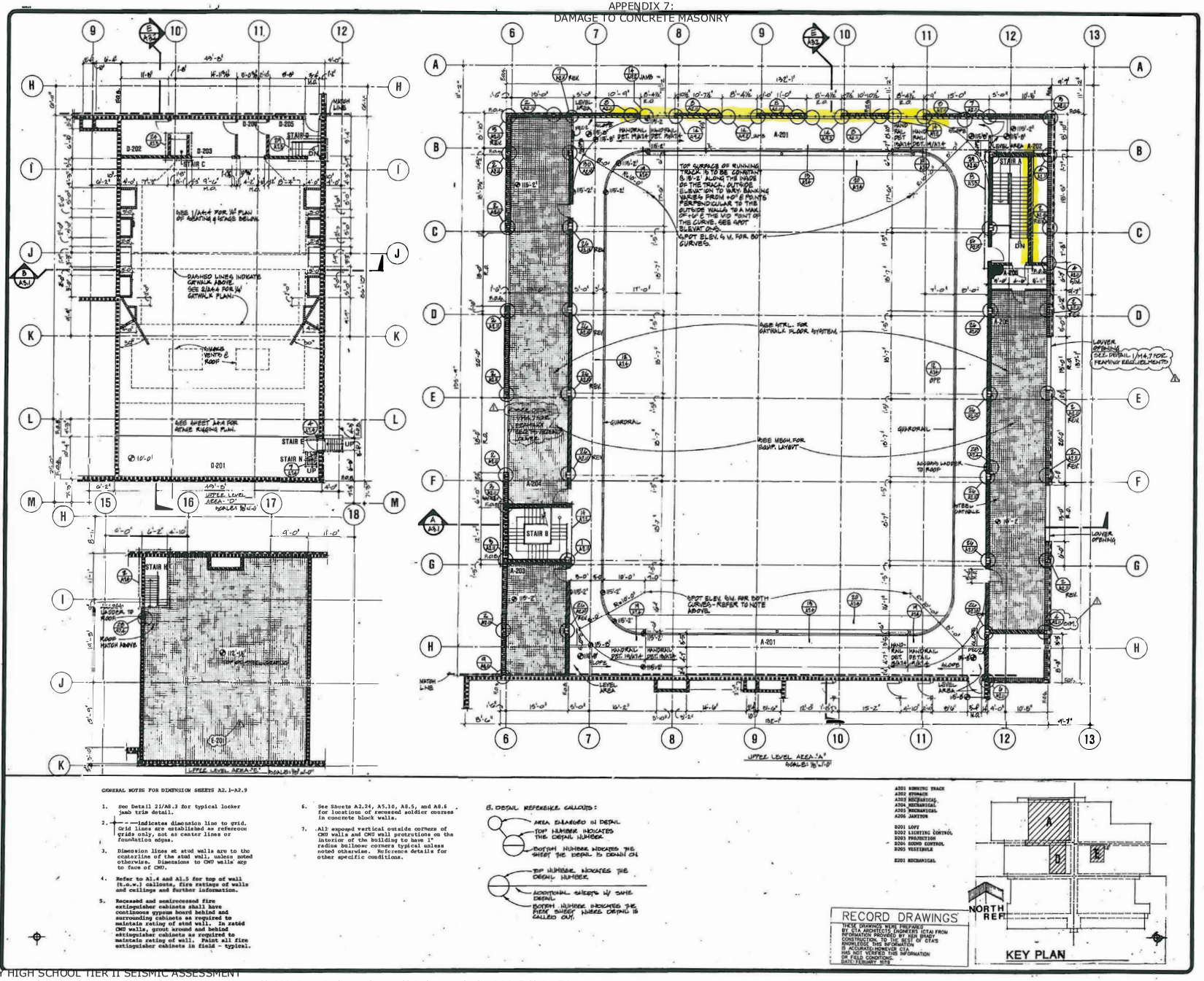
Subject: Damage to Concrete Masonry at Colony High School

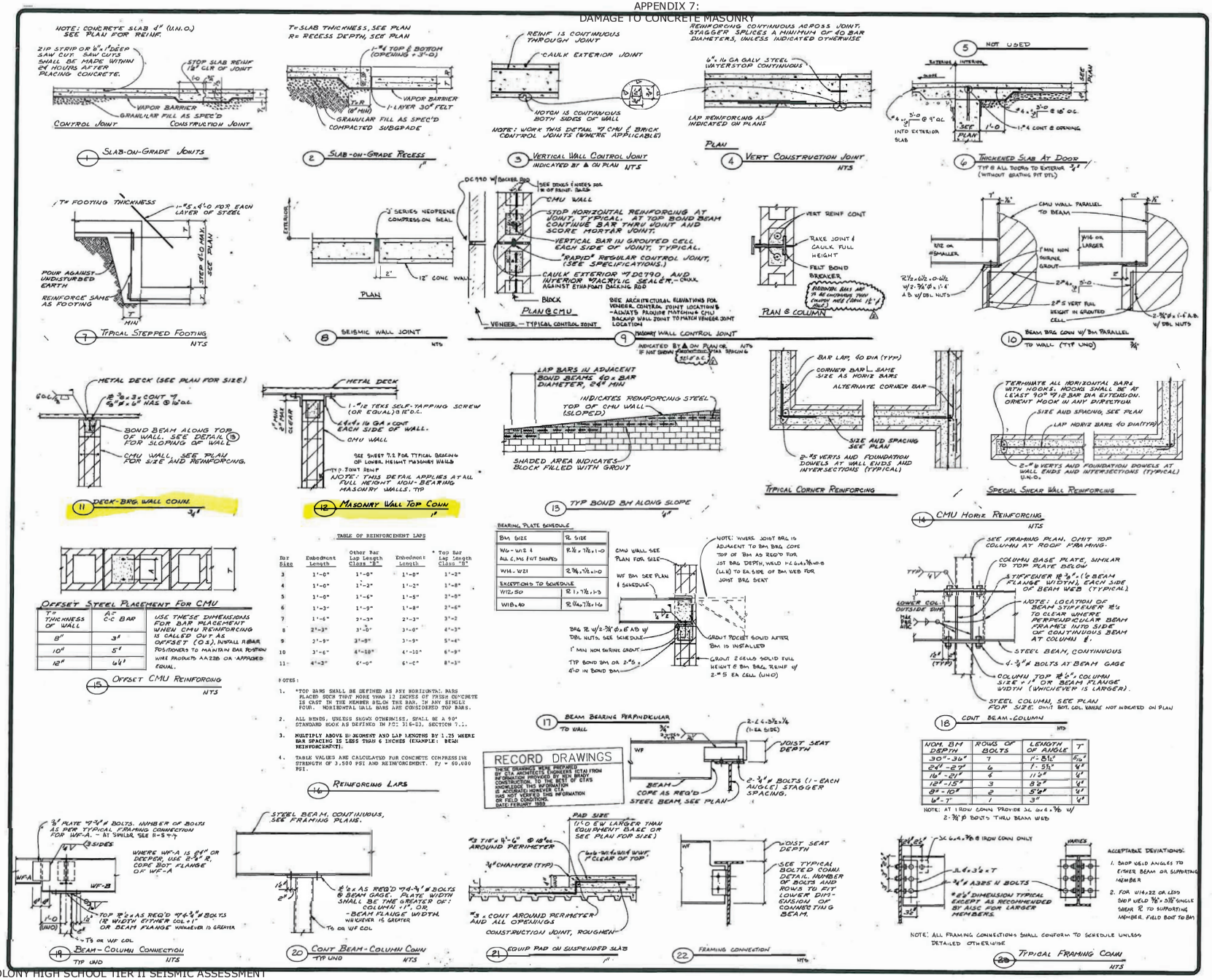
Over the course of the week after the November 30 earthquake, PND has made several inspections of the damage to concrete masonry units (CMU) at the Colony High School. This memo will serve as an interim report to quantify the known damage and to give guidance on occupancy of the building. Recommendations on repairs will follow so that occupancy of all areas of the school can be accomplished as soon as possible. The known damage is in the gymnasium area. The attached original plan sheets of the gymnasium show affected CMU walls highlighted in yellow. The damage can generally be categorized as follows:

1. Damage to the north exterior wall of the gym at the running track level. This damage consists of spalling of the interior face shell of the CMU particularly at vertical steel column locations next to windows. These CMU walls are partial-height up to the top of the windows. The walls are non-bearing and do not participate in the lateral load resisting system of the building. The primary purpose of the masonry was to provide a hard interior wall surface at the running track. The walls are stack bond masonry with vertical bars at a spacing of 48" oc.
2. Falling block from a non-bearing CMU partition wall in the Stair "A" (north east corner of gym). This wall is 30-ft tall and only a short length of wall extends to the foundation. The wall is a non-bearing partition which encloses an air duct space east of the stair. The top of the wall is not connected to the roof structure and has no restraint perpendicular to the wall. There are two steel braces at the floor level that provide some lateral restraint for the wall (see section). CMU that were placed at the top of the wall between steel roof beams had no grout and no reinforcing and were dislodged during the shaking. Some of these blocks fell onto the stairs. Sheet S6.1 of the original drawings has been attached to this memo. Detail 12 shows a connection to be used for the top of the all non-bearing walls. This connection was not installed.

The unsupported east wall of Stair A constitutes a hazardous situation. PND is currently working on recommendations to correct the deficiencies in the Stair "A" wall and to repair the damage to the running track wall. Until such time as those repairs are complete, the School District should restrict access to the gymnasium, Stair "A", and the small archery room below the stair to construction personnel only. These areas should be closed to students and school staff.

1506 West 36th Avenue • ANCHORAGE, ALASKA 99503 • phone: 907.561.1011 • fax: 907.563.4220


Colony Senior High School
Palmer, Alaska
GENERAL NOTES FOR DIMENSION SHEETS A2.1-A2.9
1. See Detail 21/A8.3 for typical locker jamb trim detail.
2. ---indicates dimension line to grid. Grid lines are established as reference grids only, not as center lines or foundation edges.
3. Dimension lines at stud walls are to the centerline of the stud wall, unless noted otherwise. Dimensions to CMU walls are to face of CMU.
4. Refer to A1.4 and A1.5 for top of wall (t.o.w.) callouts, fire ratings of walls and ceilings and further information.
5. Recessed and semirecessed fire extinguisher cabinets shall have continuous gypsum board behind and surrounding cabinets as required to maintain rating of stud wall. In rated CMU walls, grout around and behind extinguisher cabinets as required to maintain rating of wall. Paint all fire extinguisher cabinets in field - typical.
6. See Sheets A2.24, A5.10, A8.5, and A8.6 for locations of recessed soldier courses in concrete block walls.
7. All exposed vertical outside corners of CMU walls and CMU wall protrutions on the interior of the building to have 1" radius bullnose corners typical unless noted otherwise. Reference details for other specific conditions.
B. DETAIL REFERENCE CALLOUTS:
AREA ENLARGED IN DETAIL
TOP NUMBER INDICATES THE DETAIL NUMBER
BOTTOM NUMBER INDICATES THE SHEET THE DETAIL IS DRAWN ON
TOP NUMBER INDICATES THE DETAIL NUMBER
ADDITIONAL SHEETS W/ SAME DETAIL
BOTTOM NUMBER INDICATES THE FIRST SHEET WHERE DETAIL IS CALLED OUT
A201 RUNNING TRACK
A202 STORAGE
A203 MECHANICAL
A204 MECHANICAL
A205 MECHANICAL
A206 JANITOR
D201 LOFT
D202 LIGHTING CONTROL
D203 PROJECTION
D204 SOUND CONTROL
D205 VESTIBULE
E201 MECHANICAL
RECORD DRAWINGS
THESE DRAWINGS WERE PREPARED BY CTA ARCHITECTS ENGINEERS (CTA) FROM INFORMATION PROVIDED BY KEN ADAMS CONSTRUCTION. TO THE BEST OF CTA'S KNOWLEDGE THIS INFORMATION IS ACCURATE; HOWEVER CTA HAS NOT VERIFIED THIS INFORMATION OR FIELD CONDITIONS.
DATE: FEBRUARY 1989
NORTH REF.
KEY PLAN
DRAWN BY: SHAKER
CHECKED BY: JW
DATE: 5-2-86
CTA # 1851.45
CTA ARCHITECTS ENGINEERS
DIMENSION PLAN - AREA A UPPER LEVEL
SHEET A2.1


SLAB-ON-GRADE JOINTS
SLAB-ON-GRADE RECESS
VERTICAL WALL CONTROL JOINT
VERT CONSTRUCTION JOINT
NOT USED
THICKENED SLAB AT DOOR
TYPICAL STEPPED FOOTING
SEISMIC WALL JOINT
MASONRY WALL CONTROL JOINT
BEAM BRG CONN W/ BM PARALLEL TO WALL
DECK-BRG. WALL CONN
MASONRY WALL TOP CONN
TYP BOND BM ALONG SLOPE
CMU HORIZ REINFORCING
OFFSET CMU REINFORCING
REINFORCING LARS
BEAM BEARING PERPENDICULAR TO WALL
CONT BEAM-COLUMN
BEAM-COLUMN CONNECTION
CONT BEAM-COLUMN CONN
EQUIP PAD ON SUSPENDED SLAB
FRAMING CONNECTION
TYPICAL FRAMING CONN
TYPICAL CORNER REINFORCING
SPECIAL SHEAR WALL REINFORCING
PLAN & COLUMN
PLAN @ CMU
TABLE OF REINFORCEMENT LAPS
OFFSET STEEL PLACEMENT FOR CMU
BEARING PLATE SCHEDULE
RECORD DRAWINGS

P | N | D
ENGINEERS, INC.

December 18, 2018 181194

Antonio Weese
Facilities Capital Planning & Construction Manager
Matanuska-Susitna Borough School District
3901 E Bogard Rd, Wasilla AK 99654

Subject: Post-Earthquake Structural Evaluation of Colony High School

Mr. Weese:

Over the course of the week after the November 30 earthquake, PND has made several inspections of the earthquake damage at the Colony High School. This evaluation report will quantify the known damage and give guidance on recommended repairs and occupancy of the building. The discovered damage was limited mainly to architectural finishes, mechanical ducts, and non-bearing concrete masonry unit (CMU) walls in the gymnasium area. The attached original plan sheets (Fig. 1) of the gymnasium show affected CMU walls highlighted in yellow. The damage can generally be categorized as follows:

1. Damage to the north interior face of the exterior wall of the gym at the running track level. This damage consists of spalling of the interior face shell of the 6" CMU particularly at vertical steel column locations next to windows. These CMU walls are partial-height up to the top of the windows. The walls are non-bearing and do not participate in the lateral load resisting system of the building. The primary purpose of the masonry was to provide a hard interior wall surface at the running track. The walls are stack bond masonry with vertical bars at a spacing of 48" oc.
2. Falling block from a non-bearing CMU partition wall in the Stair "A" (north east corner of gym). This wall is 30-ft tall and only a short length of wall extends to the foundation. The wall is a non-bearing partition which encloses a duct space east of the stair. The top of the wall is not connected to the roof structure and has no restraint perpendicular to the wall. There are two steel braces at the floor level that provide some lateral restraint for the wall (see section). CMU that were placed at the top of the wall between steel roof beams had no grout and no reinforcing and were dislodged during the shaking. Some of these blocks fell onto the stairs. Sheet S6.1/detail 12 of the original drawings showed a restraint connection to be used for the top of the all non-bearing walls. This connection was not installed at this wall. Also attached is a sketch of the wall in relation to the stair (See Fig. 2).

The attached photographs document the damage to the CMU partition walls.

Occupancy
The unsupported east wall of Stair A constitutes a hazardous situation. PND recommends mitigating efforts to make the stair safe before occupancy is allowed. PND also recommends repairs to the damaged running track wall. Until such time as those repairs are complete, the School District should restrict access to the gymnasium, Stair "A", and the small archery room below the stair to construction personnel only. These areas should be closed to students and school staff.

Recommendations
PND recommends the following mitigation measure be taken at Colony High.

Stair "A" East Wall
The unsupported east wall of Stair "A" constitutes a hazardous situation and should be mitigated. The wall is a non-bearing partition made of 8" CMU and 30-ft in height. The weight of CMU wall makes it very difficult to restrain the wall under lateral out-of-plane seismic forces. CMU was used only for the durability of its hard surface. The wall should be removed and replaced with an 8" steel stud wall with drywall finish. An architect should be consulted for details of the replacement.

North Running track CMU wall
The north running track wall on the second level should be removed or repaired. The wall is a non-bearing interior wall surface made of 6" CMU. It could not be determined if the wall is adequately connected and laterally restrained at the top to a steel girt. Wall damage and displacements indicate it was not. CMU was used only for the durability of its hard surface. The wall should be remove and replaced with a 6" steel stud wall with drywall finish. An architect should be consulted for details of the replacement.

PND has met with Mat-Su Borough Project Manager Jeff Walden and will continue to support his efforts in making the necessary repairs.

If there are any questions regarding this report, please do not hesitate to contact us.

Sincerely,
PND Engineers, Inc. | Anchorage Office



F. Charles Kenley, P.E., S. E.
Vice President
PND Engineers, Inc

PHOTOS



Photo 1 – Gymnasium Stairwell



Photo 2 – Running Track Wall

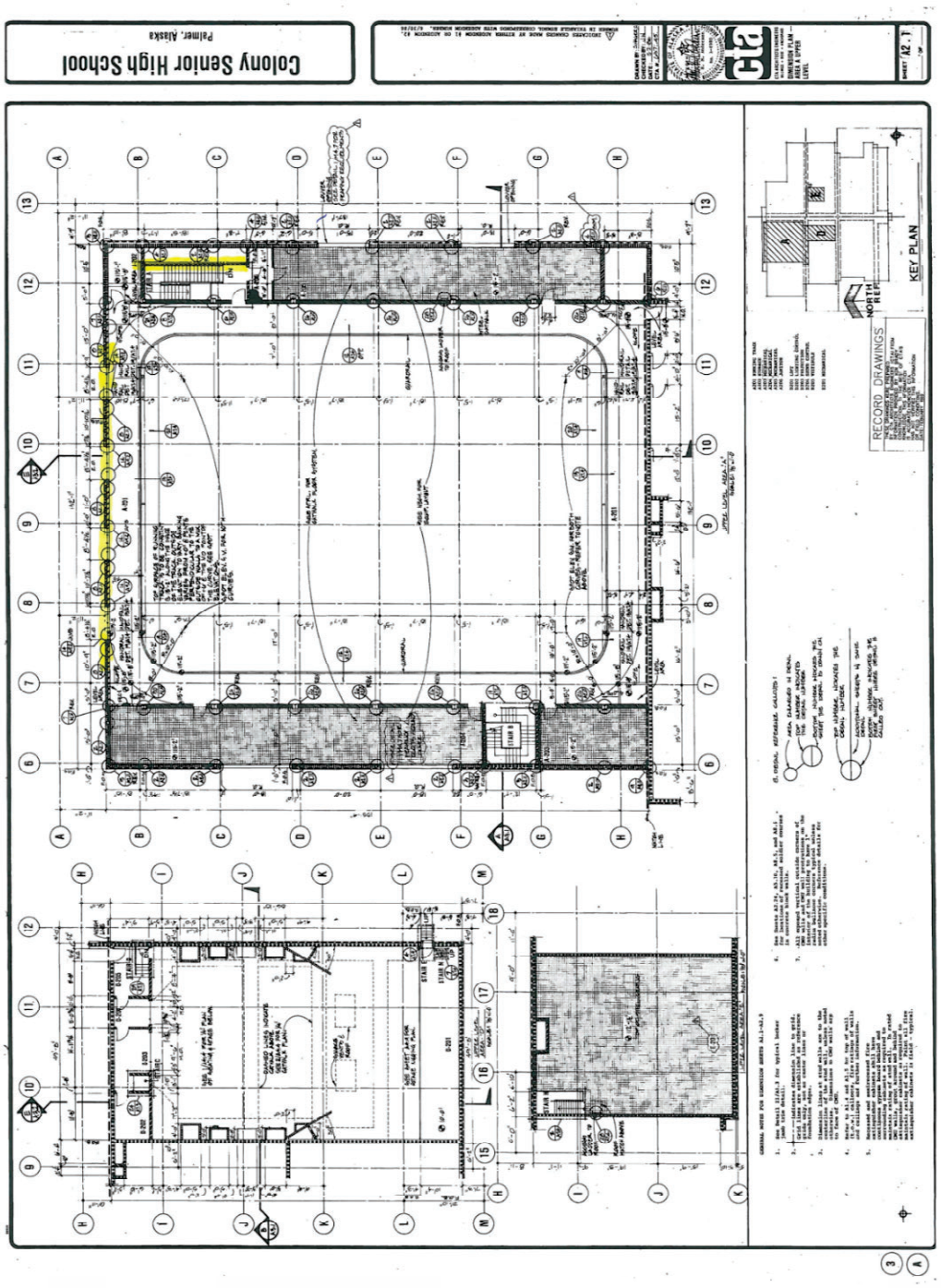


Fig. 1 - Gymnasium Plan Highlighting Damaged CMU Walls

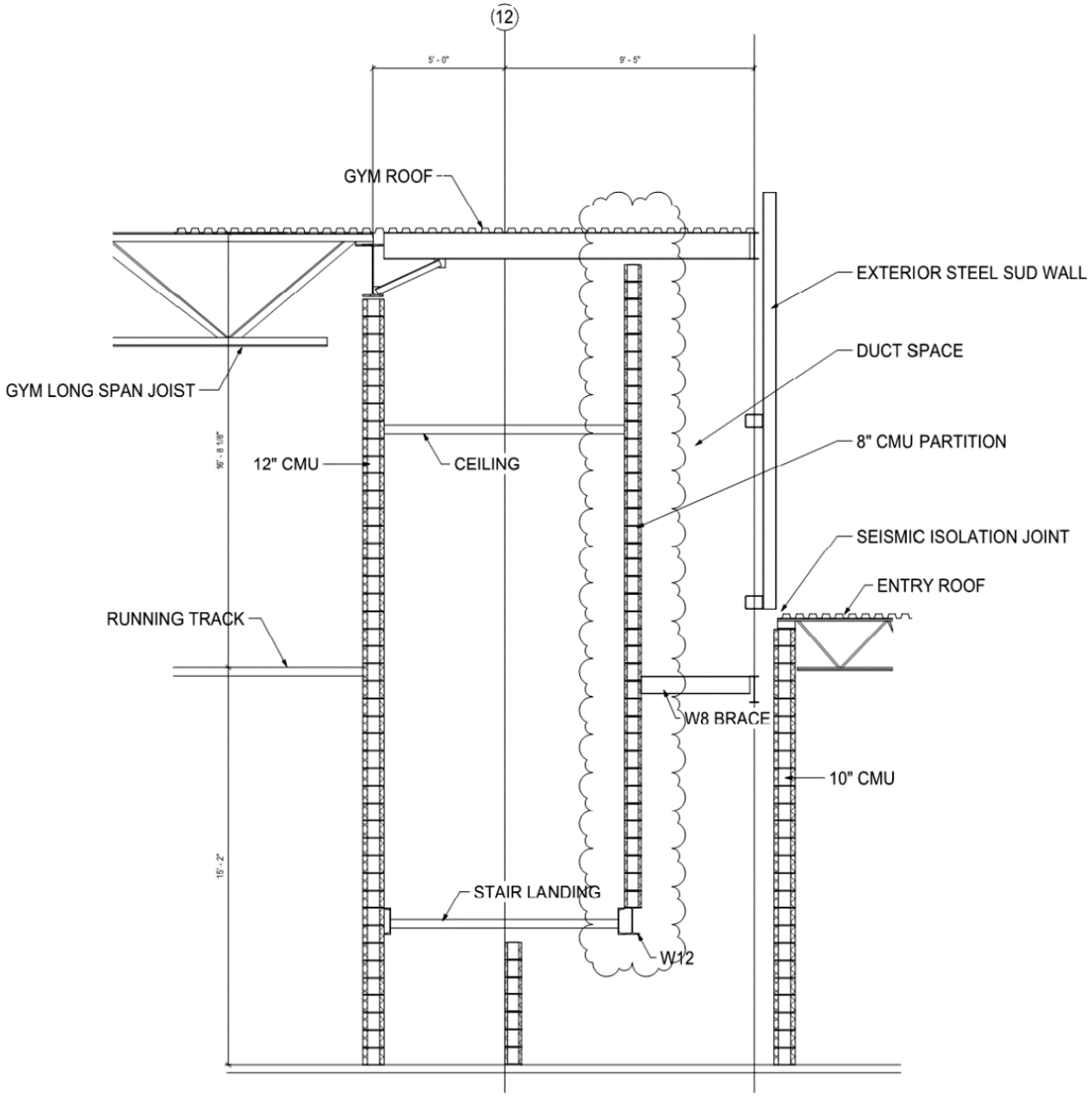


Fig. 2 – Section at Stairwell Showing Unsupported CMU Wall

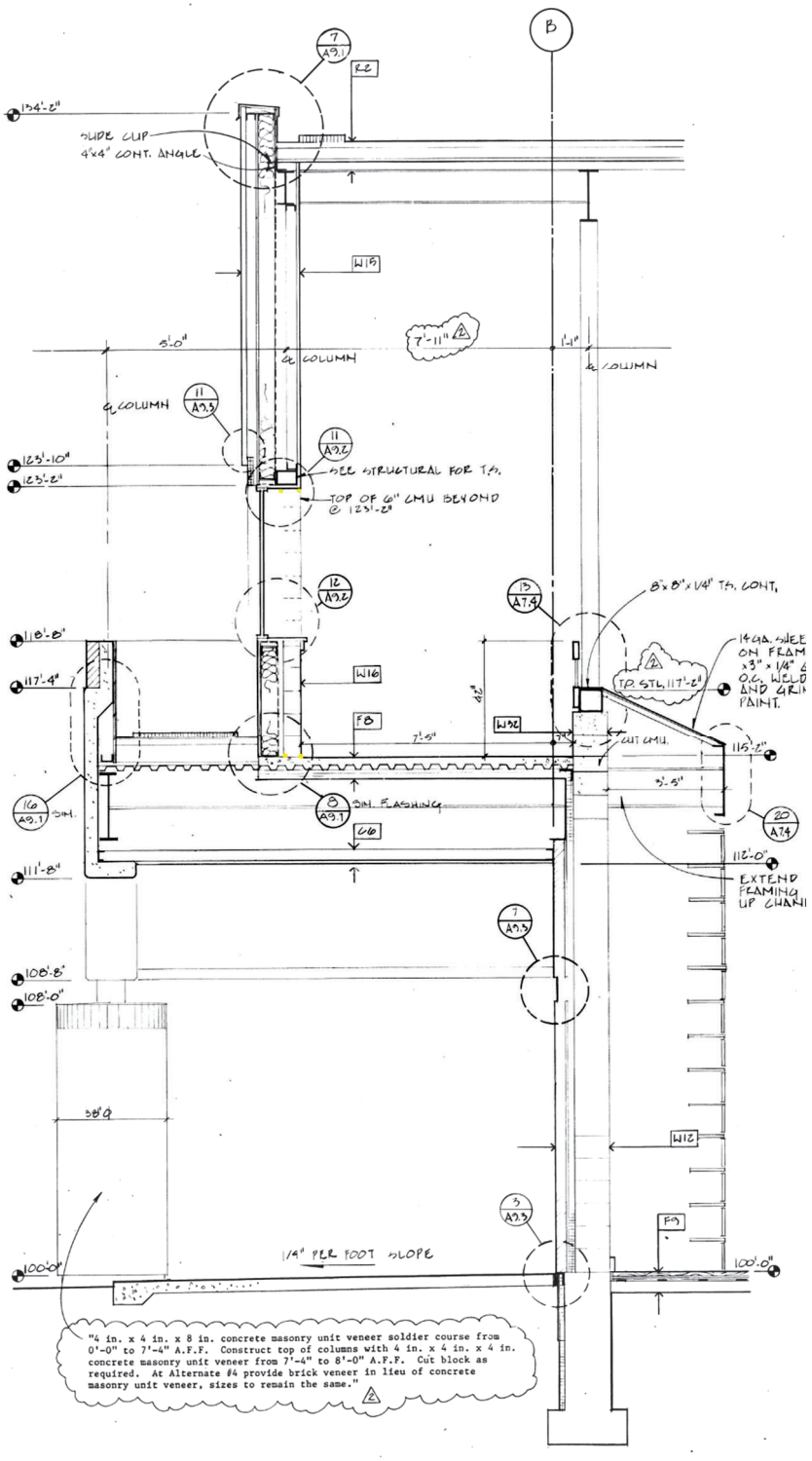


Fig. 3 – Section at Running Track Wall

February 2019

Prepared by:

PND ENGINEERS, INC.

Mat-Su School District Post Seismic Evaluations

Rapid Visual Screening of 35 School Facilities

Post November 30, 2018 Anchorage Earthquake



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Mat-Su School District Post Seismic Evaluations February 2019

Summary Report

PND Engineers was contacted shortly after the Nov 30, 2018 earthquake in South Central Alaska to perform a rapid visual screening of school buildings for seismic damage. Although many of the schools had substantial non-structural damage such as collapsed suspended ceilings, the purpose of our investigations was to determine which schools had structural damage and whether they could be safely occupied. In all, PND evaluated a total of 34 school buildings and the Nutrition Center. Those buildings north of Huston and north-east of Sutton were not evaluated.

Documentation was done using the Applied Technology Council (ATC) form ATC-20 entitled "Detailed Evaluation Safety Assessment". To provide a quick reference for all of the buildings, a spreadsheet summary of all of the buildings inspected is also attached to this summary report. For a few building with damage that needed immediate attention, supplemental written reports were completed. These written reports are included in this summary as well.

Introduction

On November 30, 2018, at 8:29 a.m., a 7.0 earthquake hit about 8 miles north-west of Anchorage, and occurred at a depth of 29 miles. It was followed six minutes later by a magnitude 5.7 aftershock. Over 80 aftershocks of various magnitudes were recorded throughout the day, with at least three having magnitudes greater than 5.0.

The earthquake caused severe shaking at areas within the Matanuska Valley. Intensity levels of 7 and 8 on the Mercalli scale of intensities were measured in Wasilla and Big Lake. Shaking was slightly less in Palmer. Mercalli scale ranges from 1 (not noticeable) to 10 (catastrophic damage). Severe shaking could cause negligible damage in buildings of good design and construction; slight to moderate damage in well-built ordinary structures; and considerable damage in poorly built or badly designed structures.

The Mercalli scale classifies earthquakes by their effects where the Richter scale measures the energy released by an earthquake. The energy and effects are not necessarily strongly correlated; a shallow earthquake with sharp accelerations in a populated area with soil of certain types can be far more intense in effects than a much more energetic deep earthquake.

Observations

Most schools had no structural damage, but many sustained a substantial amounts of non-structural damage, especially in suspended lay-in tile ceilings. Structural damage did occur at the Huston Middle school. A separate written report has been prepared for this school and an ASCE 41 Tier II investigation is on-going. Colony Middle school had damage to some of the non-structural concrete block partition walls on the upper level of the track and stair. A written report has also been prepared for this school.

Mat-Su School District Post Seismic Evaluations February 2019

Our structural observations can be summarized as follows:

- No structural damage observed in any of the Palmer buildings with the exception of the CMU walls in the Colony High School.
- Some of the older schools such as Palmer High, Palmer Middle, and Wasilla High performed well considering their age and the codes under which they were designed.
- The wood box schools performed well.
- Huston Middle school sustained severe damage. Damage to CMU structural walls and connections was primarily due to the use of stack-bond masonry and a lack of sufficient grouting and reinforcing. Also damage to CMU structural walls and their connections to the roof diaphragm occurred due to out-of-plane movement of the tall heavy walls. The extent of damage can be attributed to both poor design and construction errors and deficiencies.
- The “Ramp” schools exhibited minor amounts of vertical cracking in some walls. These schools have some of the same characteristics as Huston Middle School i.e., flexible wood roof diaphragms supporting tall CMU walls.

Appendix A

Summary Spreadsheet

MAT-SU SCHOOL DISTRICT **RAPID VISUAL SCREENING EVALUATION SUMMARY** **Nov 30, 2019 Anchorage Earthquake**

	Facility	Screened	Initials	Inspection Date	Structural Damage	Inspection Results	Further Analyses or Inspection Required	Comments
1	Admin Bldg	YES	DB	30-Nov	NO	OCCUPANCY PERMITTED		Hairline cracks in gym wall CMU.
2	Academy Charter	YES	DB	30-Nov	NO	OCCUPANCY PERMITTED		Hairline cracks in gym wall CMU.
3	Big Lake Elementary	YES	CK	4-Dec	NO	OCCUPANCY PERMITTED		Drywall cracking
4	Burchell	YES	DB	4-Dec	NO	OCCUPANCY PERMITTED		Drywall cracking
5	Butte Elementary	YES	CM	5-Dec	NO	OCCUPANCY PERMITTED		Nail popping at exterior sheeting.
6	Career Center	YES	CM	4-Dec	NO	OCCUPANCY PERMITTED		
7	Colony High	YES	CK	30-Nov	YES	RESTRICTED USE	YES	Damage to non-structural CMU in gymnasium and adjacent east stairwell. These areas should not be occupied until repairs are made. Plan is to remove non-bearing walls and replace with studs.
8	Colony Middle	YES	CK	30-Nov	NO	OCCUPANCY PERMITTED		Damage to lay-n ceiling tiles needs to be addressed before occupancy
9	Cottonwood Creek Elementary	YES	CK	5-Dec	NO	OCCUPANCY PERMITTED		No Damage
10	Day School	YES	CM	5-Dec	NO	OCCUPANCY PERMITTED		No Damage.
11	Denaina	YES	CK	5-Dec	NO	OCCUPANCY PERMITTED		Minor Drywall Cracking
12	Finger Lake Elementary	YES	CM	1-Dec	NO	OCCUPANCY PERMITTED		Extensive ceiling tile damage. Small CMU corner crack
13	Fronteras	YES	CM	5-Dec	NO	OCCUPANCY PERMITTED		No damage.
14	Goose Bay	YES	CK	5-Dec	NO	OCCUPANCY PERMITTED		Mortar joint cracking in CMU near backboards. Small CMU cracks.
15	Houston High	YES	CK	30-Nov	NO	OCCUPANCY PERMITTED		
16	Houston Middle	YES	CM/CK	30-Nov	YES	UNSAFE	YES	Further investigation and report needed on cause of excessive structural damage.
17	Iditarod	YES	DB	4-Dec	NO	OCCUPANCY PERMITTED		
18	Knik	YES	CK	1-Dec	NO	OCCUPANCY PERMITTED		Gym ceiling damage only.
19	Larson	YES	CK	5-Dec	NO	OCCUPANCY PERMITTED		No damage
20	Machetanz	YES	CM	5-Dec	NO	OCCUPANCY PERMITTED		Ceiling damage. Cracked drywall.
21	Meadow Lakes	YES	CK	4-Dec	NO	OCCUPANCY PERMITTED		Small amount of CMU cracking at vertical joints near or at corners
22	Nutrition Services	YES	CK	6-Dec	NO	OCCUPANCY PERMITTED		No damage
23	Palmer High School	YES	CK	30-Nov	NO	OCCUPANCY PERMITTED		Lay-in ceiling tile damage and small amount of slab on grade damage.
24	Palmer Middle School	YES	CK	30-Nov	NO	OCCUPANCY PERMITTED		Hairline acks in gym CMU walls. Ceiling damage.
25	Pioneer Peak	YES	CM	4-Dec	NO	OCCUPANCY PERMITTED		No damage.
26	Redington	YES	CK	5-Dec	NO	OCCUPANCY PERMITTED		Slight gyp. board and floor slab cracking.
27	Shaw	YES	CM	5-Dec	NO	OCCUPANCY PERMITTED		Small cracks at a CMU lintel.
28	Sherrod	YES	DB	30-Nov	NO	OCCUPANCY PERMITTED		
29	Sutton	YES	CM	5-Dec	NO	OCCUPANCY PERMITTED		Cracked roof purlins at basketball backboards.
30	Swanson	YES	DB	30-Nov	NO	OCCUPANCY PERMITTED		Floor irregularities determined to be existing.
31	Tanaina	YES	CK	4-Dec	NO	OCCUPANCY PERMITTED		Exterior retaining walls not connected
32	Teeland Middle	YES	CM	4-Dec	NO	OCCUPANCY PERMITTED		Hairline crack is a few precast wall panels.
33	Valley Pathways	YES	DB	4-Dec	NO	OCCUPANCY PERMITTED		
34	Wasilla High School	YES	CK	3-Dec	NO	OCCUPANCY PERMITTED		Drywall cracks around windows in second story classrooms. Hairline racks in stucco in weight room.
35	Wasilla Middle School	YES	DB/CK	3-Dec	YES	OCCUPANCY PERMITTED	YES	Architectural CMU piers in 2nd story hallways at ends of lockers are not structurally tied to CMU walls. Strap repairs have been completed. Piers should be removed. One significant crack in CMU wall.

Appendix B

ATC-20 Forms

ATC-20 Detailed Evaluation Safety Assessment Form

Inspection

Inspector ID: David Bentti

Affiliation: PND Engineers

Inspection date and time: 30 Nov 2018 ☑ AM ☐ PM

Final Posting
from page 2

- ☑ Inspected
- ☐ Restricted Use
- ☐ Unsafe

Building Description

Building name: Academy Charter

Address: 801 East Arctic Palmer, AK 99645

Building contact/phone: _____

Number of stories above ground: 2 below ground: _____

Approx. "Footprint area" (square feet): _____

Number of residential units: _____

Number of residential units not habitable: _____

Type of Construction

- ☐ Wood frame
- ☑ Steel frame
- ☐ Tilt-up concrete
- ☐ Concrete frame
- ☐ Concrete shear wall
- ☐ Unreinforced masonry
- ☐ Reinforced masonry
- ☐ Other: _____

Primary Occupancy

- ☐ Dwelling
- ☐ Other residential
- ☐ Public assembly
- ☐ Emergency services
- ☐ Commercial
- ☐ Offices
- ☐ Industrial
- ☐ Other: _____
- ☐ Government
- ☐ Historic
- ☑ School

Evaluation

Investigate the building for the conditions below and check the appropriate column. There is room on the second page for a sketch.

	Minor/None	Moderate	Severe	Comments
Overall hazards:				
Collapse or partial collapse	☐	☐	☐	
Building or story leaning	☐	☐	☐	
Other _____	☐	☐	☐	
Structural hazards:				
Foundations	☐	☐	☐	
Roofs, floors (vertical loads)	☐	☐	☐	
Columns, pilasters, corbels	☐	☐	☐	
Diaphragms, horizontal bracing	☐	☐	☐	
Walls, vertical bracing	☐	☐	☐	
Precast connections	☐	☐	☐	
Other _____	☐	☐	☐	
Nonstructural hazards:				
Parapets, ornamentation	☐	☐	☐	
Cladding, glazing	☐	☐	☐	
Ceilings, light fixtures	☐	☐	☐	
Interior walls, partitions	☑	☐	☐	Hairline cracks in gym CMU wall
Elevators	☐	☐	☐	
Stairs, exits	☐	☐	☐	
Electric, gas	☐	☐	☐	
Other _____	☐	☐	☐	
Geotechnical hazards:				
Slope failure, debris	☐	☐	☐	
Ground movement, fissures	☐	☐	☐	
Other _____	☐	☐	☐	

General Comments: _____

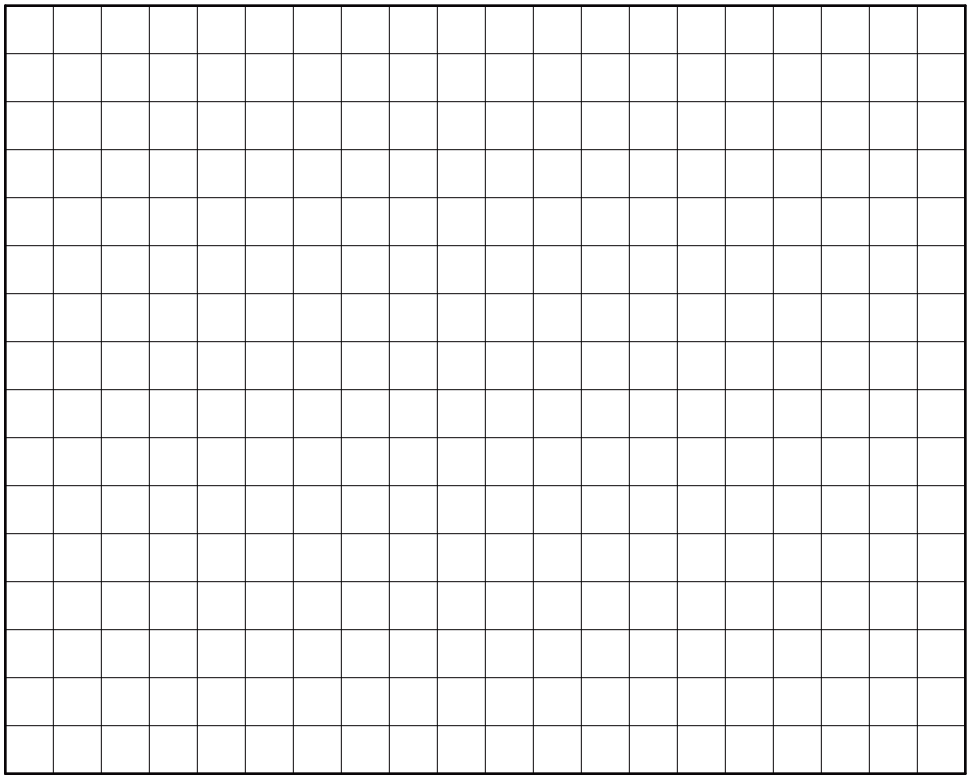
Continue on page 2

ATC-20 Detailed Evaluation Safety Assessment Form — Page 2

Building name: Academy Charter Inspector ID: David Bentti

Sketch (optional)

Provide a sketch of the building or damaged portions. Indicate damage points.



Estimated Building Damage

If requested by the jurisdiction, estimate building damage (repair cost ÷ replacement cost, excluding contents).

- ☑ None
- ☐ 0–1%
- ☐ 1–10%
- ☐ 10–30%
- ☐ 30–60%
- ☐ 60–100%
- ☐ 100%

Posting

If there is an existing posting from a previous evaluation, check the appropriate box.

Previous posting: ☐ INSPECTED ☐ RESTRICTED USE ☐ UNSAFE Inspector ID: _____ Date: _____

If necessary, revise the posting based on the new evaluation and team judgment. *Severe* conditions endangering the overall building are grounds for an Unsafe posting. Local *Severe* and overall *Moderate* conditions may allow a Restricted Use posting. Indicate the current posting below and at the top of page one.

☑ **INSPECTED** (Green placard) ☐ **RESTRICTED USE** (Yellow placard) ☐ **UNSAFE** (Red placard)

Record any use and entry restrictions exactly as written on placard: _____

Further Actions

Check the boxes below only if further actions are needed.

☐ Barricades needed in the following areas: _____

☐ Engineering Evaluation recommended: ☐ Structural ☐ Geotechnical ☐ Other: _____

☐ Other recommendations: _____

Comments: _____

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ATC-20 Detailed Evaluation Safety Assessment Form

Inspection

Inspector ID: David Bentti

Affiliation: PND Engineers

Inspection date and time: Nov 30, 2018 ☐ AM ☐ PM

Final Posting
from page 2

- ☑ Inspected
- ☐ Restricted Use
- ☐ Unsafe

Building Description

Building name: Administration Building

Address: 501 N Gulkana St, Palmer, AK 99645

Building contact/phone: _____

Number of stories above ground: 1 below ground: _____

Approx. "Footprint area" (square feet): _____

Number of residential units: _____

Number of residential units not habitable: _____

Type of Construction

- ☐ Wood frame
- ☑ Steel frame
- ☐ Tilt-up concrete
- ☐ Concrete frame
- ☐ Concrete shear wall
- ☐ Unreinforced masonry
- ☑ Reinforced masonry
- ☐ Other: _____

Primary Occupancy

- ☐ Dwelling
- ☐ Other residential
- ☐ Public assembly
- ☐ Emergency services
- ☐ Commercial
- ☑ Offices
- ☐ Industrial
- ☐ Other: _____
- ☐ Government
- ☐ Historic
- ☐ School

Evaluation

Investigate the building for the conditions below and check the appropriate column. There is room on the second page for a sketch.

	Minor/None	Moderate	Severe	Comments
Overall hazards:				
Collapse or partial collapse	☐	☐	☐	
Building or story leaning	☐	☐	☐	
Other _____	☐	☐	☐	
Structural hazards:				
Foundations	☐	☐	☐	
Roofs, floors (vertical loads)	☐	☐	☐	
Columns, pilasters, corbels	☐	☐	☐	
Diaphragms, horizontal bracing	☐	☐	☐	
Walls, vertical bracing	☐	☐	☑	Hairline cracks in gym wall CMU
Precast connections	☐	☐	☐	
Other _____	☐	☐	☐	
Nonstructural hazards:				
Parapets, ornamentation	☐	☐	☐	
Cladding, glazing	☐	☐	☐	
Ceilings, light fixtures	☐	☐	☐	
Interior walls, partitions	☐	☐	☐	
Elevators	☐	☐	☐	
Stairs, exits	☐	☐	☐	
Electric, gas	☐	☐	☐	
Other _____	☐	☐	☐	
Geotechnical hazards:				
Slope failure, debris	☐	☐	☐	
Ground movement, fissures	☐	☐	☐	
Other _____	☐	☐	☐	

General Comments: _____

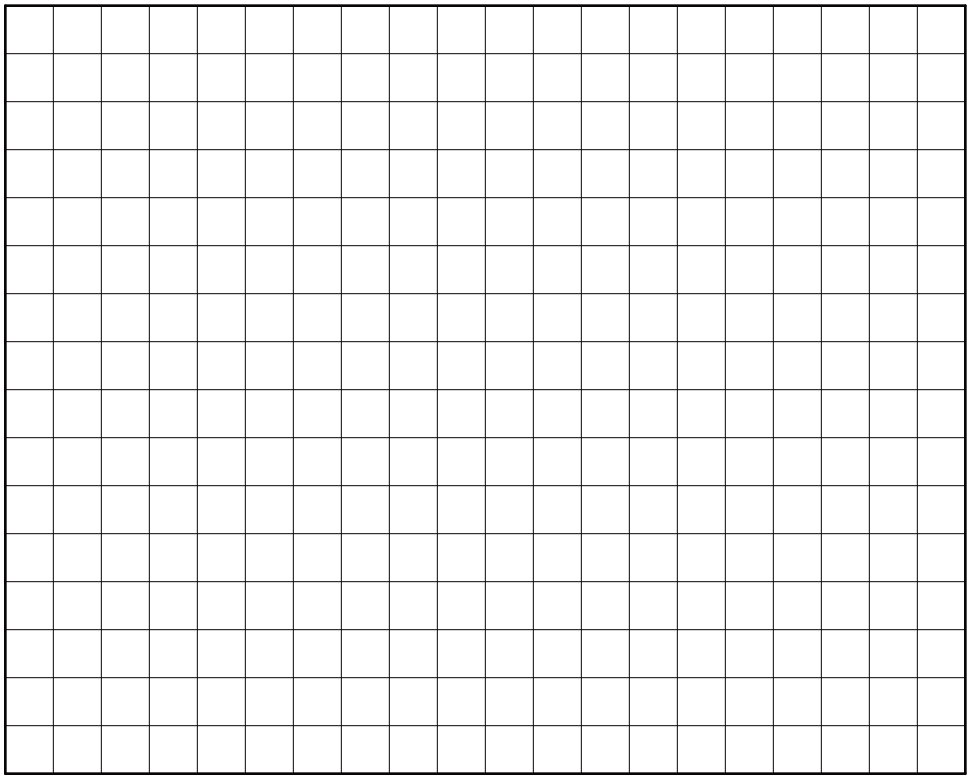
Continue on page 2

ATC-20 Detailed Evaluation Safety Assessment Form — Page 2

Building name: Administration Building Inspector ID: David Bentti

Sketch (optional)

Provide a sketch of the building or damaged portions. Indicate damage points.



Estimated Building Damage

If requested by the jurisdiction, estimate building damage (repair cost ÷ replacement cost, excluding contents).

- ☑ None
- ☐ 0–1%
- ☐ 1–10%
- ☐ 10–30%
- ☐ 30–60%
- ☐ 60–100%
- ☐ 100%

Posting

If there is an existing posting from a previous evaluation, check the appropriate box.

Previous posting: ☐ INSPECTED ☐ RESTRICTED USE ☐ UNSAFE Inspector ID: _____ Date: _____

If necessary, revise the posting based on the new evaluation and team judgment. *Severe* conditions endangering the overall building are grounds for an Unsafe posting. Local *Severe* and overall *Moderate* conditions may allow a Restricted Use posting. Indicate the current posting below and at the top of page one.

☑ **INSPECTED** (Green placard) ☐ **RESTRICTED USE** (Yellow placard) ☐ **UNSAFE** (Red placard)

Record any use and entry restrictions exactly as written on placard: _____

Further Actions

Check the boxes below only if further actions are needed.

☐ Barricades needed in the following areas: _____

☐ Engineering Evaluation recommended: ☐ Structural ☐ Geotechnical ☐ Other: _____

☐ Other recommendations: _____

Comments: _____

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ATC-20 Detailed Evaluation Safety Assessment Form

Inspection

Inspector ID: Charles Kenley

Affiliation: PND Engineers

Inspection date and time: 4 Dec 2018 ☐ AM ☐ PM

Final Posting
from page 2

- ☑ Inspected
- ☐ Restricted Use
- ☐ Unsafe

Building Description

Building name: Big Lake Elementary

Address: 3808 S Big Lake Rd, Big Lake, AK 99652

Building contact/phone: _____

Number of stories above ground: 2 below ground: _____

Approx. "Footprint area" (square feet): _____

Number of residential units: _____

Number of residential units not habitable: _____

Type of Construction

- ☑ Wood frame
- ☐ Steel frame
- ☐ Tilt-up concrete
- ☐ Concrete frame
- ☐ Concrete shear wall
- ☐ Unreinforced masonry
- ☐ Reinforced masonry
- ☐ Other: _____

Primary Occupancy

- ☐ Dwelling
- ☐ Other residential
- ☐ Public assembly
- ☐ Emergency services
- ☐ Commercial
- ☐ Offices
- ☐ Industrial
- ☐ Other: _____
- ☐ Government
- ☐ Historic
- ☑ School

Evaluation

Investigate the building for the conditions below and check the appropriate column. There is room on the second page for a sketch.

	Minor/None	Moderate	Severe	Comments
Overall hazards:				
Collapse or partial collapse	☐	☐	☐	
Building or story leaning	☐	☐	☐	
Other _____	☐	☐	☐	
Structural hazards:				
Foundations	☐	☐	☐	
Roofs, floors (vertical loads)	☐	☐	☐	
Columns, pilasters, corbels	☐	☐	☐	
Diaphragms, horizontal bracing	☐	☐	☐	
Walls, vertical bracing	☐	☐	☐	
Precast connections	☐	☐	☐	
Other _____	☐	☐	☐	
Nonstructural hazards:				
Parapets, ornamentation	☐	☐	☐	
Cladding, glazing	☐	☐	☐	
Ceilings, light fixtures	☐	☐	☐	
Interior walls, partitions	☑	☐	☐	Drywall Cracking
Elevators	☐	☐	☐	
Stairs, exits	☐	☐	☐	
Electric, gas	☐	☐	☐	
Other _____	☐	☐	☐	
Geotechnical hazards:				
Slope failure, debris	☐	☐	☐	
Ground movement, fissures	☐	☐	☐	
Other _____	☐	☐	☐	

General Comments: _____

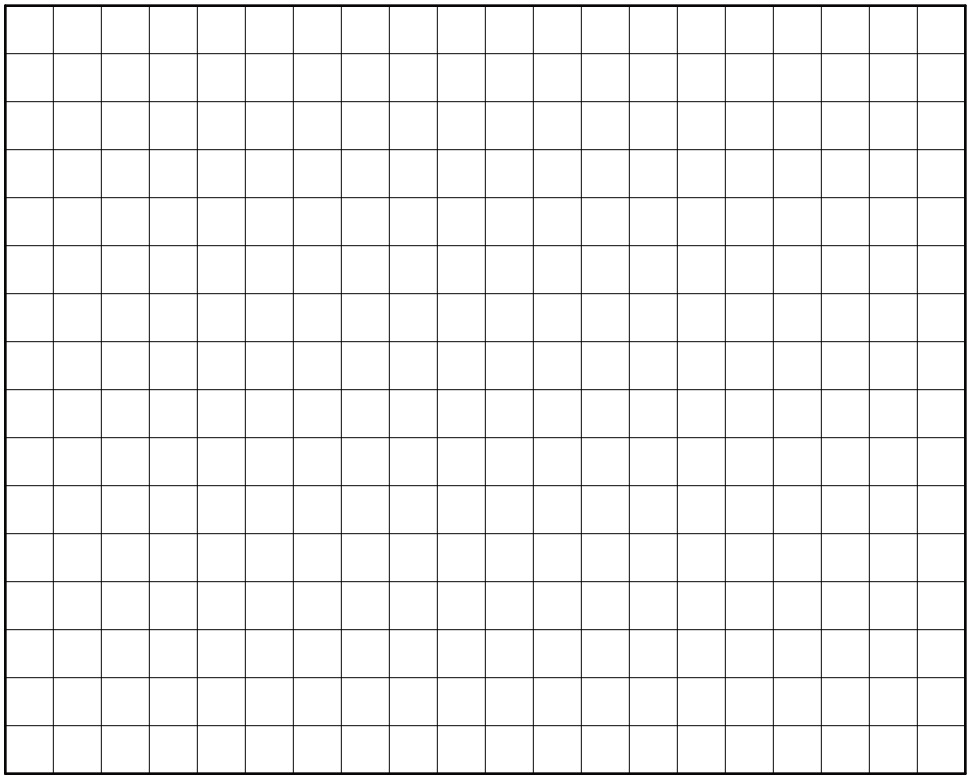
Continue on page 2

ATC-20 Detailed Evaluation Safety Assessment Form — Page 2

Building name: Big Lake Elementary Inspector ID: Charles Kenley

Sketch (optional)

Provide a sketch of the building or damaged portions. Indicate damage points.



Estimated Building Damage

If requested by the jurisdiction, estimate building damage (repair cost ÷ replacement cost, excluding contents).

- ☑ None
- ☐ 0–1%
- ☐ 1–10%
- ☐ 10–30%
- ☐ 30–60%
- ☐ 60–100%
- ☐ 100%

Posting

If there is an existing posting from a previous evaluation, check the appropriate box.

Previous posting: ☐ INSPECTED ☐ RESTRICTED USE ☐ UNSAFE Inspector ID: _____ Date: _____

If necessary, revise the posting based on the new evaluation and team judgment. *Severe* conditions endangering the overall building are grounds for an Unsafe posting. Local *Severe* and overall *Moderate* conditions may allow a Restricted Use posting. Indicate the current posting below and at the top of page one.

☑ **INSPECTED** (Green placard) ☐ **RESTRICTED USE** (Yellow placard) ☐ **UNSAFE** (Red placard)

Record any use and entry restrictions exactly as written on placard: _____

Further Actions

Check the boxes below only if further actions are needed.

☐ Barricades needed in the following areas: _____

☐ Engineering Evaluation recommended: ☐ Structural ☐ Geotechnical ☐ Other: _____

☐ Other recommendations: _____

Comments: _____

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ATC-20 Detailed Evaluation Safety Assessment Form

Inspection

Inspector ID: David Bentti

Affiliation: PND Engineers

Inspection date and time: 4 Dec 2018 ☑ AM ☐ PM

Final Posting
from page 2

☑ Inspected
☐ Restricted Use
☐ Unsafe

Building Description

Building name: Burchell High School

Address: 1775 W Parks Hwy, Wasilla, AK 99654

Building contact/phone: _____

Number of stories above ground: 2 below ground: _____

Approx. "Footprint area" (square feet): _____

Number of residential units: _____

Number of residential units not habitable: _____

Type of Construction

☐ Wood frame
☑ Steel frame
☐ Tilt-up concrete
☐ Concrete frame
☐ Concrete shear wall
☐ Unreinforced masonry
☐ Reinforced masonry
☐ Other: _____

Primary Occupancy

☐ Dwelling
☐ Other residential
☐ Public assembly
☐ Emergency services
☐ Commercial
☐ Offices
☐ Industrial
☐ Other: _____
☐ Government
☐ Historic
☑ School

Evaluation

Investigate the building for the conditions below and check the appropriate column. There is room on the second page for a sketch.

	Minor/None	Moderate	Severe	Comments
Overall hazards:				
Collapse or partial collapse	☐	☐	☐	
Building or story leaning	☐	☐	☐	
Other _____	☐	☐	☐	
Structural hazards:				
Foundations	☐	☐	☐	
Roofs, floors (vertical loads)	☐	☐	☐	
Columns, pilasters, corbels	☐	☐	☐	
Diaphragms, horizontal bracing	☐	☐	☐	
Walls, vertical bracing	☐	☐	☐	
Precast connections	☐	☐	☐	
Other _____	☐	☐	☐	
Nonstructural hazards:				
Parapets, ornamentation	☐	☐	☐	
Cladding, glazing	☐	☐	☐	
Ceilings, light fixtures	☐	☐	☐	
Interior walls, partitions	☑	☐	☐	Drywall cracking
Elevators	☐	☐	☐	
Stairs, exits	☐	☐	☐	
Electric, gas	☐	☐	☐	
Other _____	☐	☐	☐	
Geotechnical hazards:				
Slope failure, debris	☐	☐	☐	
Ground movement, fissures	☐	☐	☐	
Other _____	☐	☐	☐	

General Comments: _____

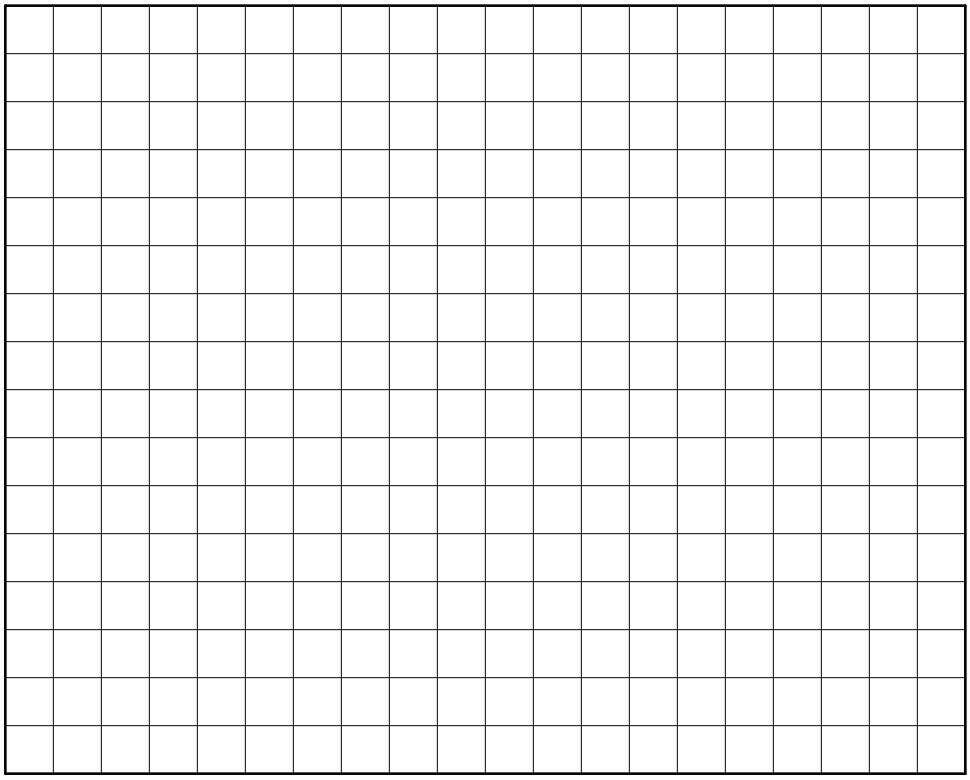
Continue on page 2

ATC-20 Detailed Evaluation Safety Assessment Form — Page 2

Building name: Burchell High School Inspector ID: David Bentti

Sketch (optional)

Provide a sketch of the building or damaged portions. Indicate damage points.



Estimated Building Damage

If requested by the jurisdiction, estimate building damage (repair cost ÷ replacement cost, excluding contents).

- ☑ None
- ☐ 0–1%
- ☐ 1–10%
- ☐ 10–30%
- ☐ 30–60%
- ☐ 60–100%
- ☐ 100%

Posting

If there is an existing posting from a previous evaluation, check the appropriate box.

Previous posting: ☐ INSPECTED ☐ RESTRICTED USE ☐ UNSAFE Inspector ID: _____ Date: _____

If necessary, revise the posting based on the new evaluation and team judgment. *Severe* conditions endangering the overall building are grounds for an Unsafe posting. Local *Severe* and overall *Moderate* conditions may allow a Restricted Use posting. Indicate the current posting below and at the top of page one.

☑ **INSPECTED** (Green placard) ☐ **RESTRICTED USE** (Yellow placard) ☐ **UNSAFE** (Red placard)

Record any use and entry restrictions exactly as written on placard: _____

Further Actions

Check the boxes below only if further actions are needed.

☐ Barricades needed in the following areas: _____

☐ Engineering Evaluation recommended: ☐ Structural ☐ Geotechnical ☐ Other: _____

☐ Other recommendations: _____

Comments: _____

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ATC-20 Detailed Evaluation Safety Assessment Form

Inspection

Inspector ID: Chad Malone

Affiliation: PND Engineers

Inspection date and time: 5 Dec 2018 ☐ AM ☑ PM

Final Posting
from page 2

☑ Inspected
☐ Restricted Use
☐ Unsafe

Building Description

Building name: Butte Elementary

Address: 4006 Butte Rd, Palmer, AK 99645

Building contact/phone: _____

Number of stories above ground: _____ below ground: _____

Approx. "Footprint area" (square feet): _____

Number of residential units: _____

Number of residential units not habitable: _____

Type of Construction

☑ Wood frame
☐ Steel frame
☐ Tilt-up concrete
☐ Concrete frame
☐ Concrete shear wall
☐ Unreinforced masonry
☐ Reinforced masonry
☐ Other: _____

Primary Occupancy

☐ Dwelling
☐ Other residential
☐ Public assembly
☐ Emergency services
☐ Commercial
☐ Offices
☐ Industrial
☐ Other: _____
☐ Government
☐ Historic
☑ School

Evaluation

Investigate the building for the conditions below and check the appropriate column. There is room on the second page for a sketch.

	Minor/None	Moderate	Severe	Comments
Overall hazards:				
Collapse or partial collapse	☐	☐	☐	
Building or story leaning	☐	☐	☐	
Other _____	☐	☐	☐	
Structural hazards:				
Foundations	☐	☐	☐	
Roofs, floors (vertical loads)	☐	☐	☐	
Columns, pilasters, corbels	☐	☐	☐	
Diaphragms, horizontal bracing	☐	☐	☐	
Walls, vertical bracing	☑	☐	☐	Some nail popping on exterior shear walls
Precast connections	☐	☐	☐	
Other _____	☐	☐	☐	
Nonstructural hazards:				
Parapets, ornamentation	☐	☐	☐	
Cladding, glazing	☐	☐	☐	
Ceilings, light fixtures	☐	☐	☐	
Interior walls, partitions	☑	☐	☐	Minor drywall cracks.
Elevators	☐	☐	☐	
Stairs, exits	☐	☐	☐	
Electric, gas	☐	☐	☐	
Other _____	☐	☐	☐	
Geotechnical hazards:				
Slope failure, debris	☐	☐	☐	
Ground movement, fissures	☐	☐	☐	
Other _____	☐	☐	☐	

General Comments: _____

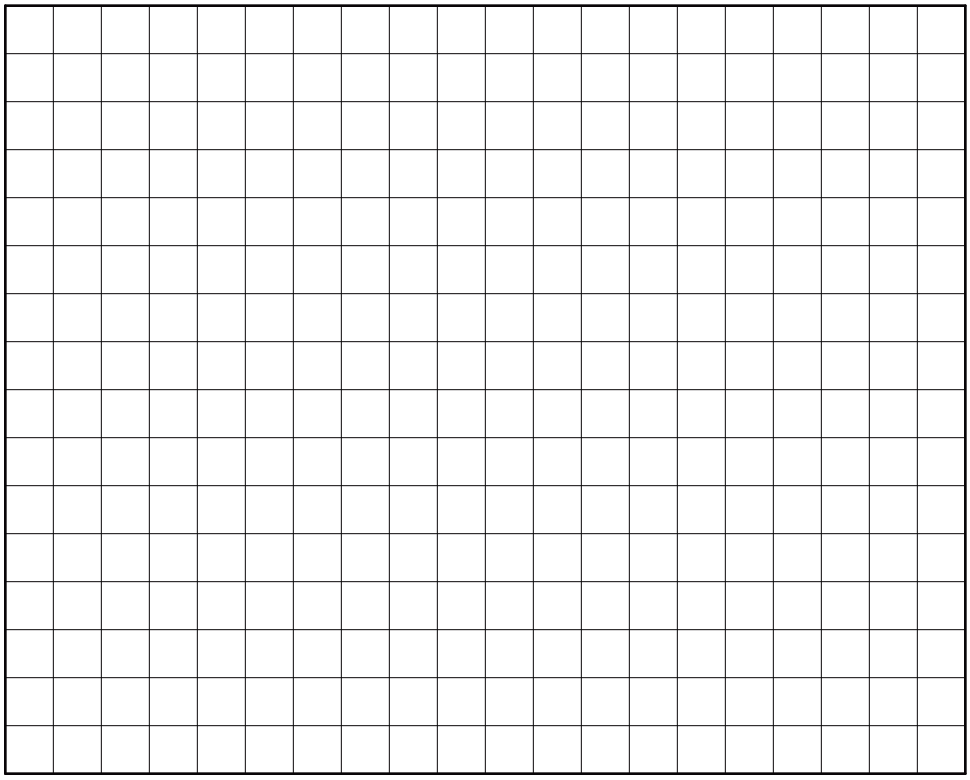
Continue on page 2

ATC-20 Detailed Evaluation Safety Assessment Form — Page 2

Building name: Butte Elementary Inspector ID: Chad Malone

Sketch (optional)

Provide a sketch of the building or damaged portions. Indicate damage points.



Estimated Building Damage

If requested by the jurisdiction, estimate building damage (repair cost ÷ replacement cost, excluding contents).

- ☑ None
- ☐ 0–1%
- ☐ 1–10%
- ☐ 10–30%
- ☐ 30–60%
- ☐ 60–100%
- ☐ 100%

Posting

If there is an existing posting from a previous evaluation, check the appropriate box.

Previous posting: ☐ INSPECTED ☐ RESTRICTED USE ☐ UNSAFE Inspector ID: _____ Date: _____

If necessary, revise the posting based on the new evaluation and team judgment. *Severe* conditions endangering the overall building are grounds for an Unsafe posting. Local *Severe* and overall *Moderate* conditions may allow a Restricted Use posting. Indicate the current posting below and at the top of page one.

☑ **INSPECTED** (Green placard) ☐ **RESTRICTED USE** (Yellow placard) ☐ **UNSAFE** (Red placard)

Record any use and entry restrictions exactly as written on placard: _____

Further Actions

Check the boxes below only if further actions are needed.

☐ Barricades needed in the following areas: _____

☐ Engineering Evaluation recommended: ☐ Structural ☐ Geotechnical ☐ Other: _____

☐ Other recommendations: _____

Comments: _____

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December 5, 2018 Inspection Photos



Photo 1

There are several sheets of exterior structural sheathing around the perimeter of the structure with nails pulling away from the face of the sheathing and some areas where the nails were never installed. The school is also, in need of new paint to extend the life of the structure. See Photo 2 and Photo 3

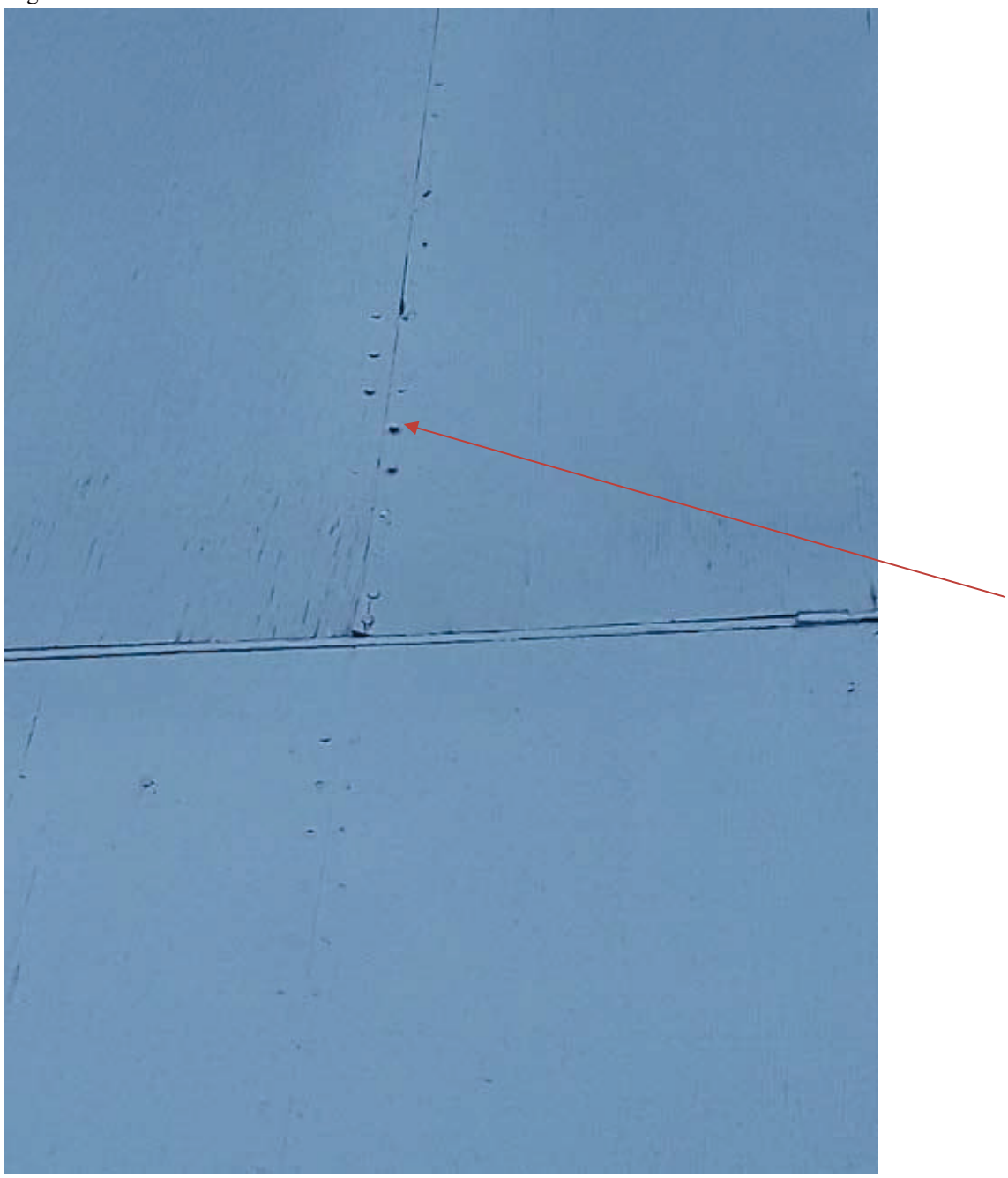


Photo 2
Close up photo of the nails pulling away from the face of the wall sheathing

Butte Elementary School Seismic Damage Investigation
12-11-2018
Page 4

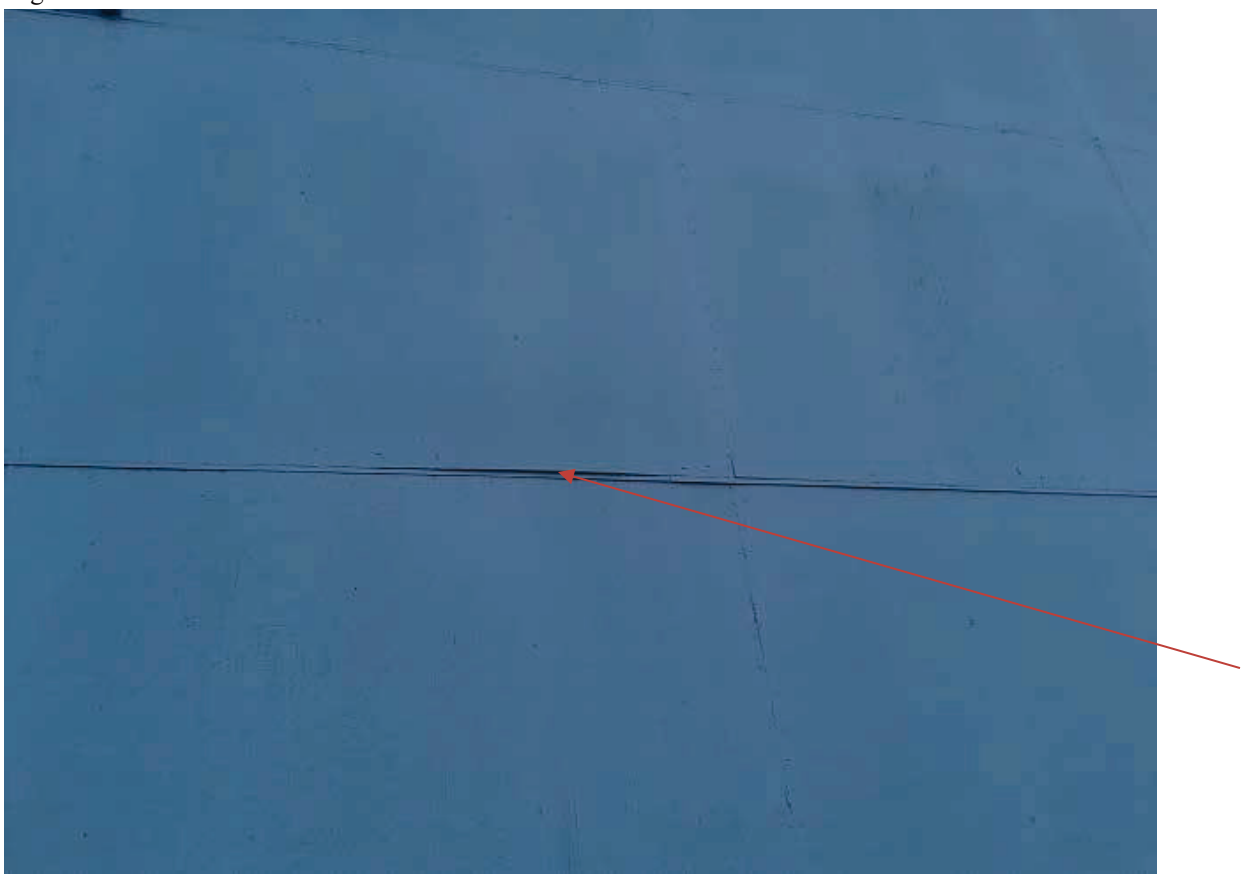


Photo 3

There are several sheets of structural sheathing around the building which have not been nailed properly. The lack of nails at the panel edges has allowed the sheets to bow out at the joints. This reduces the overall shear capacity of the structure due to bowing of the shear wall sheathing.



Photo 4

Room CR7 has cracked gypsum wall board and the top of the window frame appears to be bowed. The sheathing on the outside of the building does not appear to be deflected or damaged. SEE PHOTO 5

Cracks at the corner of the windows are typical, however the vertical crack at the center of the window seems to be related to the window deflection. Removing the gypsum wall board above the window would allow for the wall framing to be checked for any damage, or potential cause for the window frame deflection.



Photo 5
Outside face of Room CR7 Window does not have any signs of damage or header deflection, other than a slight bow in the wall sheathing at the panel edge

Butte Elementary School Seismic Damage Investigation
12-11-2018
Page 7



Photo 6
Horizontal crack in the gypsum wall board outside of the Custodial Closet

ATC-20 Detailed Evaluation Safety Assessment Form

Inspection

Inspector ID: Chad Malone

Affiliation: PND Engineers

Inspection date and time: 4 Dec 2018 ☐ AM ☐ PM

Final Posting
from page 2

- ☑ Inspected
- ☐ Restricted Use
- ☐ Unsafe

Building Description

Building name: Career Center

Address: 2472 N Seward Meridian Pkwy, Wasilla, AK 99654

Building contact/phone: _____

Number of stories above ground: 2 below ground: _____

Approx. "Footprint area" (square feet): _____

Number of residential units: _____

Number of residential units not habitable: _____

Type of Construction

- ☐ Wood frame
- ☑ Steel frame
- ☐ Tilt-up concrete
- ☐ Concrete frame
- ☐ Concrete shear wall
- ☐ Unreinforced masonry
- ☑ Reinforced masonry
- ☐ Other: _____

Primary Occupancy

- ☐ Dwelling
- ☐ Other residential
- ☐ Public assembly
- ☐ Emergency services
- ☐ Commercial
- ☐ Offices
- ☐ Industrial
- ☐ Other: _____
- ☐ Government
- ☐ Historic
- ☐ School

Evaluation

Investigate the building for the conditions below and check the appropriate column. There is room on the second page for a sketch.

	Minor/None	Moderate	Severe	Comments
Overall hazards:				
Collapse or partial collapse	☐	☐	☐	
Building or story leaning	☐	☐	☐	
Other _____	☐	☐	☐	
Structural hazards:				
Foundations	☐	☐	☐	
Roofs, floors (vertical loads)	☐	☐	☐	
Columns, pilasters, corbels	☐	☐	☐	
Diaphragms, horizontal bracing	☐	☐	☐	
Walls, vertical bracing	☐	☐	☐	
Precast connections	☐	☐	☐	
Other _____	☐	☐	☐	
Nonstructural hazards:				
Parapets, ornamentation	☐	☐	☐	
Cladding, glazing	☐	☐	☐	
Ceilings, light fixtures	☐	☐	☐	
Interior walls, partitions	☐	☐	☐	
Elevators	☐	☐	☐	
Stairs, exits	☐	☐	☐	
Electric, gas	☐	☐	☐	
Other _____	☐	☐	☐	
Geotechnical hazards:				
Slope failure, debris	☐	☐	☐	
Ground movement, fissures	☐	☐	☐	
Other _____	☐	☐	☐	

General Comments: No damage

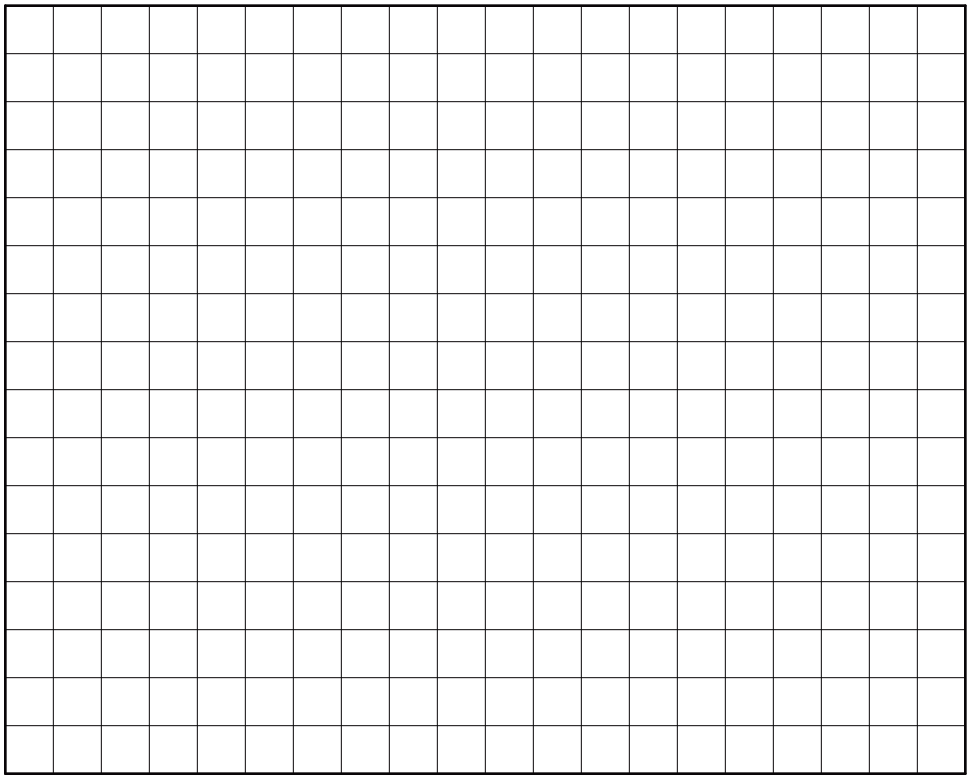
Continue on page 2

ATC-20 Detailed Evaluation Safety Assessment Form — Page 2

Building name: Career Center Inspector ID: Chad Malone

Sketch (optional)

Provide a sketch of the building or damaged portions. Indicate damage points.



Estimated Building Damage

If requested by the jurisdiction, estimate building damage (repair cost ÷ replacement cost, excluding contents).

- ☑ None
- ☐ 0–1%
- ☐ 1–10%
- ☐ 10–30%
- ☐ 30–60%
- ☐ 60–100%
- ☐ 100%

Posting

If there is an existing posting from a previous evaluation, check the appropriate box.

Previous posting: ☐ INSPECTED ☐ RESTRICTED USE ☐ UNSAFE Inspector ID: _____ Date: _____

If necessary, revise the posting based on the new evaluation and team judgment. *Severe* conditions endangering the overall building are grounds for an Unsafe posting. Local *Severe* and overall *Moderate* conditions may allow a Restricted Use posting. Indicate the current posting below and at the top of page one.

☑ **INSPECTED** (Green placard) ☐ **RESTRICTED USE** (Yellow placard) ☐ **UNSAFE** (Red placard)

Record any use and entry restrictions exactly as written on placard: _____

Further Actions

Check the boxes below only if further actions are needed.

☐ Barricades needed in the following areas: _____

☐ Engineering Evaluation recommended: ☐ Structural ☐ Geotechnical ☐ Other: _____

☐ Other recommendations: _____

Comments: _____

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ATC-20 Detailed Evaluation Safety Assessment Form

Inspection

Inspector ID: Charles Kenley

Affiliation: PND Engineers

Inspection date and time: Sept 30, 2018, 12:00 ☑ AM ☐ PM

Final Posting
from page 2

- ☑ Inspected
- ☐ Restricted Use
- ☐ Unsafe

Building Description

Building name: Colony Middle School

Address: 9250 E. Bogard Rd., Palmer, Alaska 99645

Building contact/phone:

Number of stories above ground: 2 below ground: 0

Approx. "Footprint area" (square feet): 120,000

Number of residential units:

Number of residential units not habitable:

Type of Construction

- ☐ Wood frame
- ☑ Steel frame
- ☐ Tilt-up concrete
- ☐ Concrete frame
- ☐ Concrete shear wall
- ☐ Unreinforced masonry
- ☐ Reinforced masonry
- ☐ Other:

Primary Occupancy

- ☐ Dwelling
- ☐ Other residential
- ☐ Public assembly
- ☐ Emergency services
- ☐ Commercial
- ☐ Offices
- ☐ Industrial
- ☐ Other:
- ☐ Government
- ☐ Historic
- ☑ School

Evaluation

Investigate the building for the conditions below and check the appropriate column. There is room on the second page for a sketch.

	Minor/None	Moderate	Severe	Comments
Overall hazards:				
Collapse or partial collapse	☐	☐	☐	
Building or story leaning	☐	☐	☐	
Other	☑	☐	☐	Cracks in slab-on-grade near seismic joint
Structural hazards:				
Foundations	☐	☐	☐	
Roofs, floors (vertical loads)	☐	☐	☐	
Columns, pilasters, corbels	☐	☐	☐	
Diaphragms, horizontal bracing	☐	☐	☐	
Walls, vertical bracing	☐	☐	☐	
Precast connections	☐	☐	☐	
Other extraneous steel channel	☐	☑	☐	Poorly attached temporary piece of steel fell through ceiling.
Nonstructural hazards:				
Parapets, ornamentation	☐	☐	☐	
Cladding, glazing	☑	☐	☐	Cracks in exterior brick cladding at bridge
Ceilings, light fixtures	☐	☑	☐	Moderate damage to ceilings and light fixtures
Interior walls, partitions	☐	☐	☐	
Elevators	☐	☐	☐	
Stairs, exits	☐	☐	☐	
Electric, gas	☐	☐	☐	
Other Water Pipe	☑	☐	☐	Broken water pipe
Geotechnical hazards:				
Slope failure, debris	☐	☐	☐	
Ground movement, fissures	☐	☐	☐	
Other	☐	☐	☐	

General Comments:

Continue on page 2

ATC-20 Detailed Evaluation Safety Assessment Form — Page 2

Building name: Colony Middle School Inspector ID: Charles Kenley

Sketch (optional)

Provide a sketch of the building or damaged portions. Indicate damage points.

Estimated Building Damage

If requested by the jurisdiction, estimate building damage (repair cost ÷ replacement cost, excluding contents).

- ☐ None
- ☑ 0–1%
- ☐ 1–10%
- ☐ 10–30%
- ☐ 30–60%
- ☐ 60–100%
- ☐ 100%

Posting

If there is an existing posting from a previous evaluation, check the appropriate box.

Previous posting: ☐ INSPECTED ☐ RESTRICTED USE ☐ UNSAFE Inspector ID: _____ Date: _____

If necessary, revise the posting based on the new evaluation and team judgment. *Severe* conditions endangering the overall building are grounds for an Unsafe posting. Local *Severe* and overall *Moderate* conditions may allow a Restricted Use posting. Indicate the current posting below and at the top of page one.

☑ **INSPECTED** (Green placard) ☐ **RESTRICTED USE** (Yellow placard) ☐ **UNSAFE** (Red placard)

Record any use and entry restrictions exactly as written on placard: _____

Further Actions

Check the boxes below only if further actions are needed.

☐ Barricades needed in the following areas: _____

☐ Engineering Evaluation recommended: ☐ Structural ☐ Geotechnical ☐ Other: _____

☐ Other recommendations: _____

Comments: _____

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ATC-20 Detailed Evaluation Safety Assessment Form

Inspection

Inspector ID: Charles Kenley

Affiliation: PND Engineers

Inspection date and time: 5 Dec 2018 ☑ AM ☐ PM

Final Posting
from page 2

☑ Inspected
☐ Restricted Use
☐ Unsafe

Building Description

Building name: Cottonwood Creek Elementary

Address: 800 N Seward Meridian Pkwy,Wasilla, AK 99654

Building contact/phone: _____

Number of stories above ground: 2 below ground: _____

Approx. "Footprint area" (square feet): _____

Number of residential units: _____

Number of residential units not habitable: _____

Type of Construction

☐ Wood frame
☐ Steel frame
☐ Tilt-up concrete
☐ Concrete frame
☐ Concrete shear wall
☐ Unreinforced masonry
☐ Reinforced masonry
☐ Other: _____

Primary Occupancy

☐ Dwelling
☐ Other residential
☐ Public assembly
☐ Emergency services
☐ Commercial
☐ Offices
☐ Industrial
☐ Other: _____
☐ Government
☐ Historic
☑ School

Evaluation

Investigate the building for the conditions below and check the appropriate column. There is room on the second page for a sketch.

	Minor/None	Moderate	Severe	Comments
Overall hazards:				
Collapse or partial collapse	☐	☐	☐	
Building or story leaning	☐	☐	☐	
Other _____	☐	☐	☐	
Structural hazards:				
Foundations	☐	☐	☐	
Roofs, floors (vertical loads)	☐	☐	☐	
Columns, pilasters, corbels	☐	☐	☐	
Diaphragms, horizontal bracing	☐	☐	☐	
Walls, vertical bracing	☐	☐	☐	
Precast connections	☐	☐	☐	
Other _____	☐	☐	☐	
Nonstructural hazards:				
Parapets, ornamentation	☐	☐	☐	
Cladding, glazing	☐	☐	☐	
Ceilings, light fixtures	☐	☐	☐	
Interior walls, partitions	☐	☐	☐	
Elevators	☐	☐	☐	
Stairs, exits	☐	☐	☐	
Electric, gas	☐	☐	☐	
Other _____	☐	☐	☐	
Geotechnical hazards:				
Slope failure, debris	☐	☐	☐	
Ground movement, fissures	☐	☐	☐	
Other _____	☐	☐	☐	

General Comments: No damage

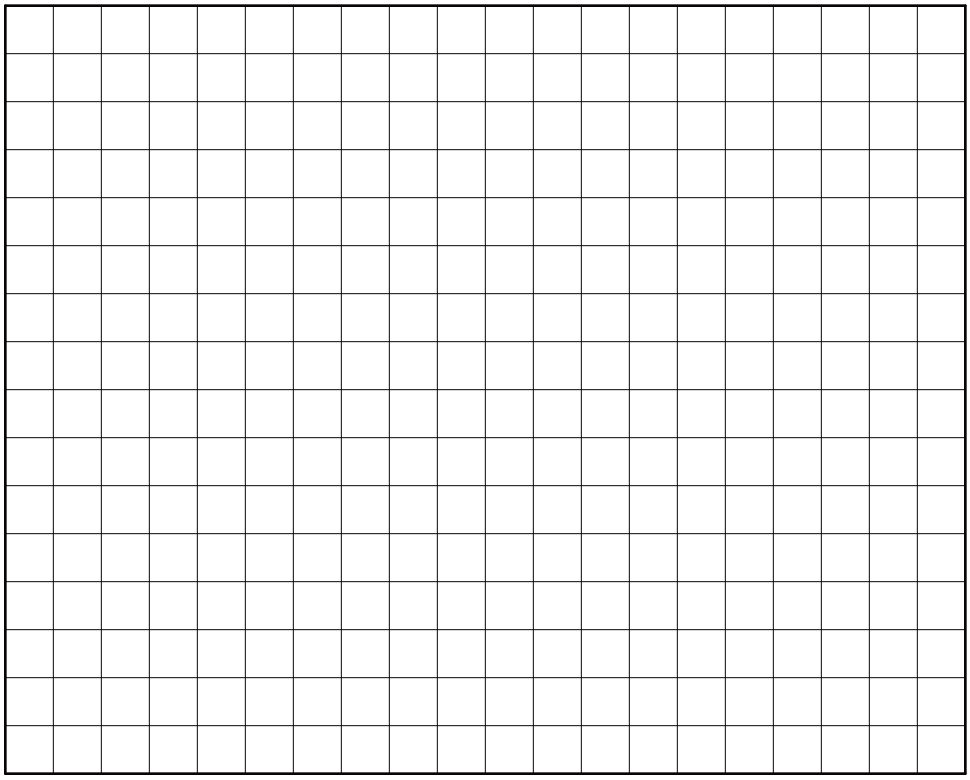
Continue on page 2

ATC-20 Detailed Evaluation Safety Assessment Form — Page 2

Building name: Cottonwood Creek Elementary Inspector ID: Charles Kenley

Sketch (optional)

Provide a sketch of the building or damaged portions. Indicate damage points.



Estimated Building Damage

If requested by the jurisdiction, estimate building damage (repair cost ÷ replacement cost, excluding contents).

- ☑ None
- ☐ 0–1%
- ☐ 1–10%
- ☐ 10–30%
- ☐ 30–60%
- ☐ 60–100%
- ☐ 100%

Posting

If there is an existing posting from a previous evaluation, check the appropriate box.

Previous posting: ☐ INSPECTED ☐ RESTRICTED USE ☐ UNSAFE Inspector ID: _____ Date: _____

If necessary, revise the posting based on the new evaluation and team judgment. *Severe* conditions endangering the overall building are grounds for an Unsafe posting. Local *Severe* and overall *Moderate* conditions may allow a Restricted Use posting. Indicate the current posting below and at the top of page one.

☑ **INSPECTED** (Green placard) ☐ **RESTRICTED USE** (Yellow placard) ☐ **UNSAFE** (Red placard)

Record any use and entry restrictions exactly as written on placard: _____

Further Actions

Check the boxes below only if further actions are needed.

☐ Barricades needed in the following areas: _____

☐ Engineering Evaluation recommended: ☐ Structural ☐ Geotechnical ☐ Other: _____

☐ Other recommendations: _____

Comments: _____

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ATC-20 Detailed Evaluation Safety Assessment Form

Inspection

Inspector ID: Chad Malone

Affiliation: PND Engineers

Inspection date and time: 5 Dec 2018 ☐ AM ☐ PM

Final Posting
from page 2

- ☑ Inspected
- ☐ Restricted Use
- ☐ Unsafe

Building Description

Building name: Day School

Address: 2360 Tait Dr, Wasilla, AK 99654

Building contact/phone: _____

Number of stories above ground: 1 below ground: _____

Approx. "Footprint area" (square feet): _____

Number of residential units: _____

Number of residential units not habitable: _____

Type of Construction

- ☐ Wood frame
- ☑ Steel frame
- ☐ Tilt-up concrete
- ☐ Concrete frame
- ☐ Concrete shear wall
- ☐ Unreinforced masonry
- ☑ Reinforced masonry
- ☐ Other: _____

Primary Occupancy

- ☐ Dwelling
- ☐ Other residential
- ☐ Public assembly
- ☐ Emergency services
- ☐ Commercial
- ☐ Offices
- ☐ Industrial
- ☐ Other: _____
- ☐ Government
- ☐ Historic
- ☑ School

Evaluation

Investigate the building for the conditions below and check the appropriate column. There is room on the second page for a sketch.

	Minor/None	Moderate	Severe	Comments
Overall hazards:				
Collapse or partial collapse	☐	☐	☐	
Building or story leaning	☐	☐	☐	
Other _____	☐	☐	☐	
Structural hazards:				
Foundations	☐	☐	☐	
Roofs, floors (vertical loads)	☐	☐	☐	
Columns, pilasters, corbels	☐	☐	☐	
Diaphragms, horizontal bracing	☐	☐	☐	
Walls, vertical bracing	☐	☐	☐	
Precast connections	☐	☐	☐	
Other _____	☐	☐	☐	
Nonstructural hazards:				
Parapets, ornamentation	☐	☐	☐	
Cladding, glazing	☐	☐	☐	
Ceilings, light fixtures	☐	☐	☐	
Interior walls, partitions	☐	☐	☐	
Elevators	☐	☐	☐	
Stairs, exits	☐	☐	☐	
Electric, gas	☐	☐	☐	
Other _____	☐	☐	☐	
Geotechnical hazards:				
Slope failure, debris	☐	☐	☐	
Ground movement, fissures	☐	☐	☐	
Other _____	☐	☐	☐	

General Comments: No damage

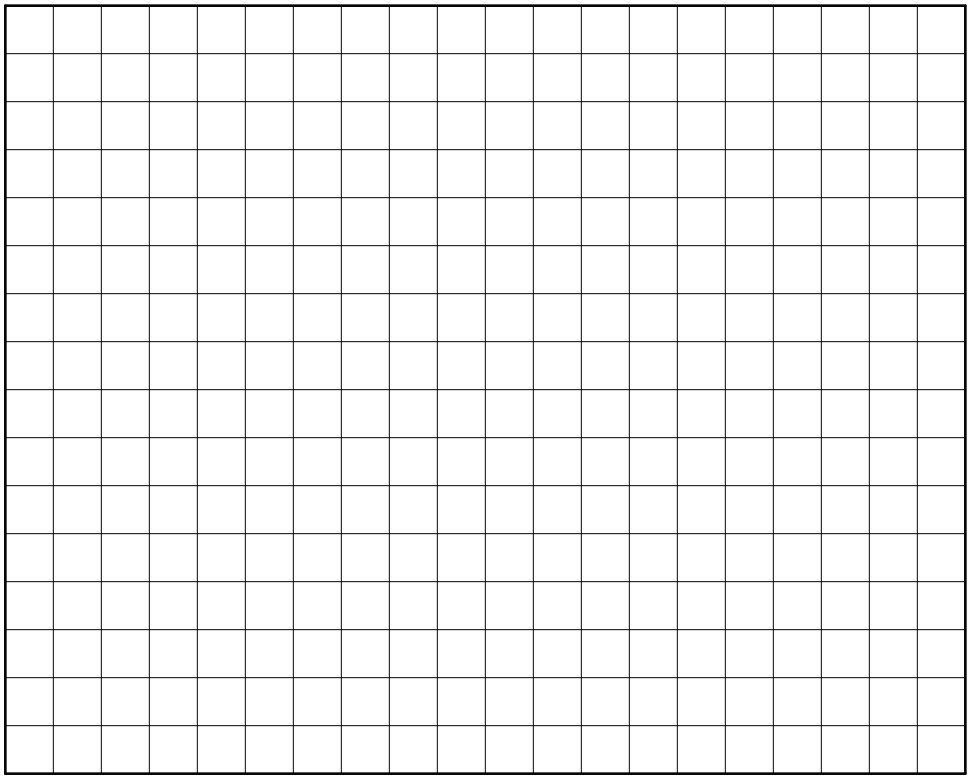
Continue on page 2

ATC-20 Detailed Evaluation Safety Assessment Form — Page 2

Building name: Day School Inspector ID: Chad Malone

Sketch (optional)

Provide a sketch of the building or damaged portions. Indicate damage points.



Estimated Building Damage

If requested by the jurisdiction, estimate building damage (repair cost ÷ replacement cost, excluding contents).

- ☑ None
- ☐ 0–1%
- ☐ 1–10%
- ☐ 10–30%
- ☐ 30–60%
- ☐ 60–100%
- ☐ 100%

Posting

If there is an existing posting from a previous evaluation, check the appropriate box.

Previous posting: ☐ INSPECTED ☐ RESTRICTED USE ☐ UNSAFE Inspector ID: _____ Date: _____

If necessary, revise the posting based on the new evaluation and team judgment. *Severe* conditions endangering the overall building are grounds for an Unsafe posting. Local *Severe* and overall *Moderate* conditions may allow a Restricted Use posting. Indicate the current posting below and at the top of page one.

☑ **INSPECTED** (Green placard) ☐ **RESTRICTED USE** (Yellow placard) ☐ **UNSAFE** (Red placard)

Record any use and entry restrictions exactly as written on placard: _____

Further Actions

Check the boxes below only if further actions are needed.

☐ Barricades needed in the following areas: _____

☐ Engineering Evaluation recommended: ☐ Structural ☐ Geotechnical ☐ Other: _____

☐ Other recommendations: _____

Comments: _____

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ATC-20 Detailed Evaluation Safety Assessment Form

Inspection

Inspector ID: Charles Kenley

Affiliation: PND Engineers

Inspection date and time: 5 Dec 2018 ☐ AM ☐ PM

Final Posting
from page 2

- ☑ Inspected
- ☐ Restricted Use
- ☐ Unsafe

Building Description

Building name: Denaina

Address: 7068 Knik Knack Mud Shack Rd, Wasilla, AK 99654

Building contact/phone: _____

Number of stories above ground: 2 below ground: _____

Approx. "Footprint area" (square feet): _____

Number of residential units: _____

Number of residential units not habitable: _____

Type of Construction

- ☐ Wood frame
- ☑ Steel frame
- ☐ Tilt-up concrete
- ☐ Concrete frame
- ☐ Concrete shear wall
- ☐ Unreinforced masonry
- ☐ Reinforced masonry
- ☐ Other: _____

Primary Occupancy

- ☐ Dwelling
- ☐ Other residential
- ☐ Public assembly
- ☐ Emergency services
- ☐ Commercial
- ☐ Offices
- ☐ Industrial
- ☐ Other: _____
- ☐ Government
- ☐ Historic
- ☑ School

Evaluation

Investigate the building for the conditions below and check the appropriate column. There is room on the second page for a sketch.

	Minor/None	Moderate	Severe	Comments
Overall hazards:				
Collapse or partial collapse	☐	☐	☐	
Building or story leaning	☐	☐	☐	
Other _____	☐	☐	☐	
Structural hazards:				
Foundations	☐	☐	☐	
Roofs, floors (vertical loads)	☐	☐	☐	
Columns, pilasters, corbels	☐	☐	☐	
Diaphragms, horizontal bracing	☐	☐	☐	
Walls, vertical bracing	☐	☐	☐	
Precast connections	☐	☐	☐	
Other _____	☐	☐	☐	
Nonstructural hazards:				
Parapets, ornamentation	☐	☐	☐	
Cladding, glazing	☐	☐	☐	
Ceilings, light fixtures	☐	☐	☐	
Interior walls, partitions	☑	☐	☐	Minor Drywall Cracking
Elevators	☐	☐	☐	
Stairs, exits	☐	☐	☐	
Electric, gas	☐	☐	☐	
Other _____	☐	☐	☐	
Geotechnical hazards:				
Slope failure, debris	☐	☐	☐	
Ground movement, fissures	☐	☐	☐	
Other _____	☐	☐	☐	

General Comments: _____

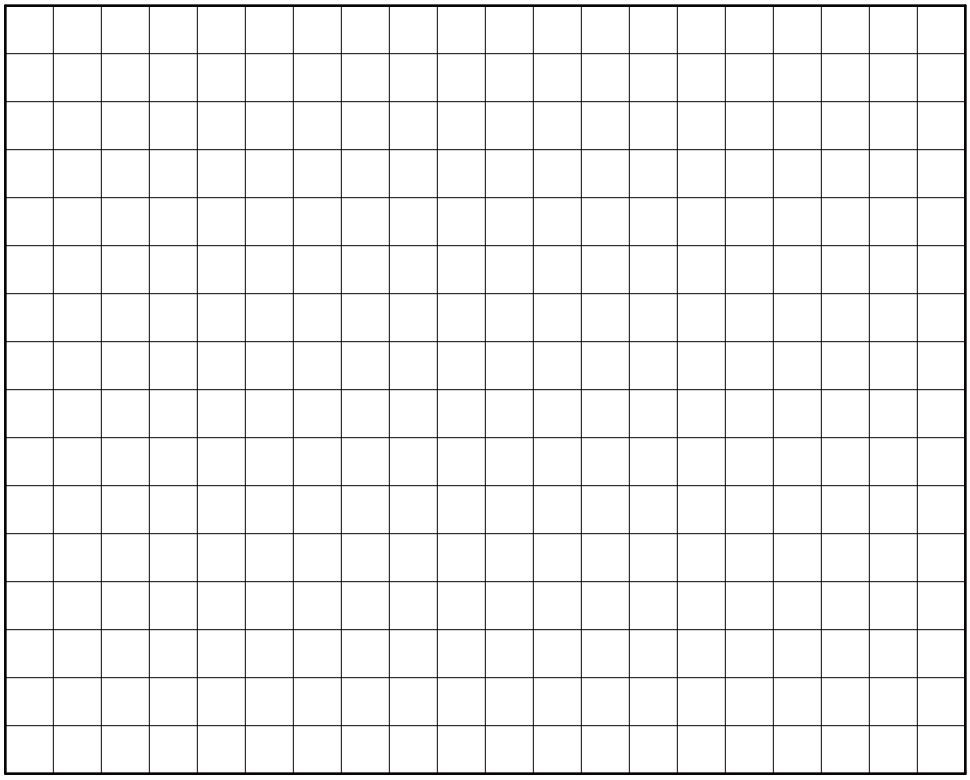
Continue on page 2

ATC-20 Detailed Evaluation Safety Assessment Form — Page 2

Building name: Denaina Inspector ID: Charles Kenley

Sketch (optional)

Provide a sketch of the building or damaged portions. Indicate damage points.



Estimated Building Damage

If requested by the jurisdiction, estimate building damage (repair cost ÷ replacement cost, excluding contents).

- ☑ None
- ☐ 0–1%
- ☐ 1–10%
- ☐ 10–30%
- ☐ 30–60%
- ☐ 60–100%
- ☐ 100%

Posting

If there is an existing posting from a previous evaluation, check the appropriate box.

Previous posting: ☐ INSPECTED ☐ RESTRICTED USE ☐ UNSAFE Inspector ID: _____ Date: _____

If necessary, revise the posting based on the new evaluation and team judgment. *Severe* conditions endangering the overall building are grounds for an Unsafe posting. Local *Severe* and overall *Moderate* conditions may allow a Restricted Use posting. Indicate the current posting below and at the top of page one.

☑ **INSPECTED** (Green placard) ☐ **RESTRICTED USE** (Yellow placard) ☐ **UNSAFE** (Red placard)

Record any use and entry restrictions exactly as written on placard: _____

Further Actions

Check the boxes below only if further actions are needed.

☐ Barricades needed in the following areas: _____

☐ Engineering Evaluation recommended: ☐ Structural ☐ Geotechnical ☐ Other: _____

☐ Other recommendations: _____

Comments: _____

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ATC-20 Detailed Evaluation Safety Assessment Form

Inspection

Inspector ID: Chad Malone/ Charles Kenley

Affiliation: PND Engineers

Inspection date and time: 4 Dec 2018 ☑ AM ☐ PM

Final Posting
from page 2

☑ Inspected
☐ Restricted Use
☐ Unsafe

Building Description

Building name: Finger Lake Elementary

Address: 5981 E Eek St. , Wasilla, AK 99654

Building contact/phone:

Number of stories above ground: 2 below ground: 0

Approx. "Footprint area" (square feet): 45,500

Number of residential units:

Number of residential units not habitable:

Type of Construction

☐ Wood frame
☐ Steel frame
☐ Tilt-up concrete
☐ Concrete frame
☐ Concrete shear wall
☐ Unreinforced masonry
☑ Reinforced masonry
☐ Other:

Primary Occupancy

☐ Dwelling
☐ Other residential
☐ Public assembly
☐ Emergency services
☐ Commercial
☐ Offices
☐ Industrial
☐ Other:
☐ Government
☐ Historic
☑ School

Evaluation

Investigate the building for the conditions below and check the appropriate column. There is room on the second page for a sketch.

	Minor/None	Moderate	Severe	Comments
Overall hazards:				
Collapse or partial collapse	☐	☐	☐	
Building or story leaning	☐	☐	☐	
Other	☐	☐	☐	
Structural hazards:				
Foundations	☐	☐	☐	
Roofs, floors (vertical loads)	☐	☐	☐	
Columns, pilasters, corbels	☐	☐	☐	
Diaphragms, horizontal bracing	☐	☐	☐	
Walls, vertical bracing	☑	☐	☐	Minor cracking in CMU walls
Precast connections	☐	☐	☐	
Other	☐	☐	☐	
Nonstructural hazards:				
Parapets, ornamentation	☐	☐	☐	
Cladding, glazing	☐	☐	☐	
Ceilings, light fixtures	☐	☑	☐	Moderate damage to ceiling and light fixtures
Interior walls, partitions	☐	☐	☐	
Elevators	☐	☐	☐	
Stairs, exits	☐	☐	☐	
Electric, gas	☐	☐	☐	
Other Mechanica	☑	☐	☐	minor damage to air ducts
Geotechnical hazards:				
Slope failure, debris	☐	☐	☐	
Ground movement, fissures	☐	☐	☐	
Other	☐	☐	☐	

General Comments:

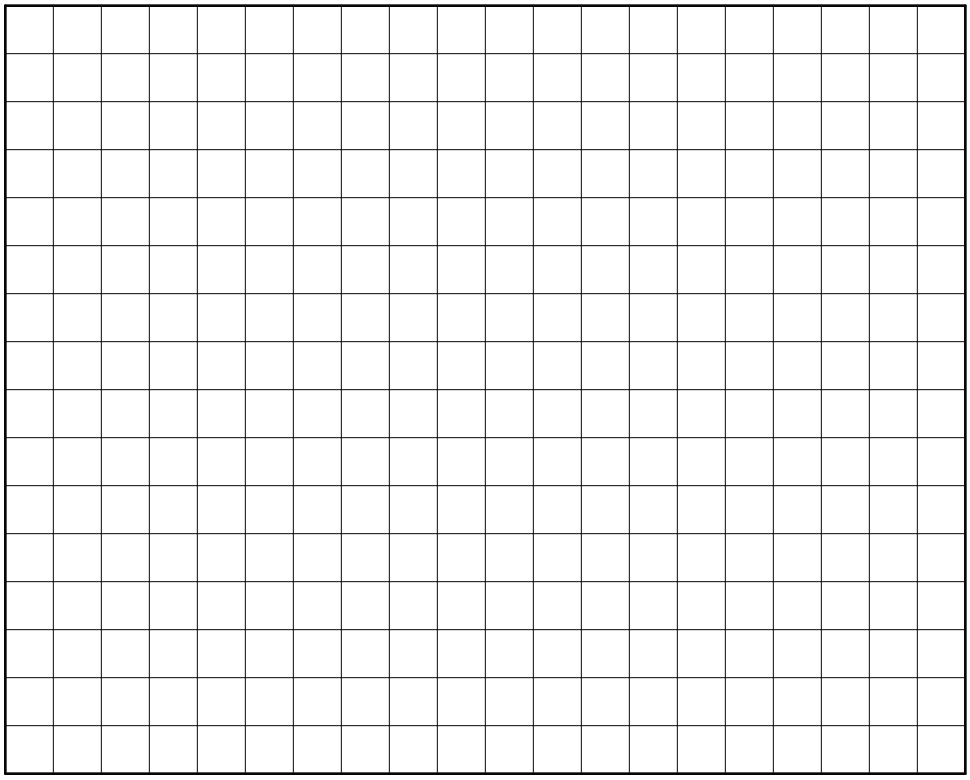
Continue on page 2

ATC-20 Detailed Evaluation Safety Assessment Form — Page 2

Building name: Finger Lake Elementary Inspector ID: Chad Malone/ Charles Kenley

Sketch (optional)

Provide a sketch of the building or damaged portions. Indicate damage points.



Estimated Building Damage

If requested by the jurisdiction, estimate building damage (repair cost ÷ replacement cost, excluding contents).

- ☐ None
- ☑ 0–1%
- ☐ 1–10%
- ☐ 10–30%
- ☐ 30–60%
- ☐ 60–100%
- ☐ 100%

Posting

If there is an existing posting from a previous evaluation, check the appropriate box.

Previous posting: ☐ INSPECTED ☐ RESTRICTED USE ☐ UNSAFE Inspector ID: _____ Date: _____

If necessary, revise the posting based on the new evaluation and team judgment. *Severe* conditions endangering the overall building are grounds for an Unsafe posting. Local *Severe* and overall *Moderate* conditions may allow a Restricted Use posting. Indicate the current posting below and at the top of page one.

☑ **INSPECTED** (Green placard) ☐ **RESTRICTED USE** (Yellow placard) ☐ **UNSAFE** (Red placard)

Record any use and entry restrictions exactly as written on placard: _____

Further Actions

Check the boxes below only if further actions are needed.

☐ Barricades needed in the following areas: _____

☐ Engineering Evaluation recommended: ☐ Structural ☐ Geotechnical ☐ Other: _____

☑ Other recommendations: Review ceilings for updated code requirements

Comments: _____

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ATC-20 Detailed Evaluation Safety Assessment Form

Inspection

Inspector ID: Chad Malone

Affiliation: PND Engineers

Inspection date and time: 5 Dec 2018 ☐ AM ☐ PM

Final Posting
from page 2

- ☑ Inspected
- ☐ Restricted Use
- ☐ Unsafe

Building Description

Building name: Fronteras Spanish Immersion Charter School

Address: 2315 N Seward Meridian Pkwy, Wasilla, AK 99654

Building contact/phone: _____

Number of stories above ground: 1 below ground: _____

Approx. "Footprint area" (square feet): _____

Number of residential units: _____

Number of residential units not habitable: _____

Type of Construction

- ☑ Wood frame
- ☐ Steel frame
- ☐ Tilt-up concrete
- ☐ Concrete frame
- ☐ Concrete shear wall
- ☐ Unreinforced masonry
- ☐ Reinforced masonry
- ☐ Other: _____

Primary Occupancy

- ☐ Dwelling
- ☐ Other residential
- ☐ Public assembly
- ☐ Emergency services
- ☐ Commercial
- ☐ Offices
- ☐ Industrial
- ☐ Other: _____
- ☐ Government
- ☐ Historic
- ☑ School

Evaluation

Investigate the building for the conditions below and check the appropriate column. There is room on the second page for a sketch.

	Minor/None	Moderate	Severe	Comments
Overall hazards:				
Collapse or partial collapse	☐	☐	☐	
Building or story leaning	☐	☐	☐	
Other _____	☐	☐	☐	
Structural hazards:				
Foundations	☐	☐	☐	
Roofs, floors (vertical loads)	☐	☐	☐	
Columns, pilasters, corbels	☐	☐	☐	
Diaphragms, horizontal bracing	☐	☐	☐	
Walls, vertical bracing	☐	☐	☐	
Precast connections	☐	☐	☐	
Other _____	☐	☐	☐	
Nonstructural hazards:				
Parapets, ornamentation	☐	☐	☐	
Cladding, glazing	☐	☐	☐	
Ceilings, light fixtures	☐	☐	☐	
Interior walls, partitions	☐	☐	☐	
Elevators	☐	☐	☐	
Stairs, exits	☐	☐	☐	
Electric, gas	☐	☐	☐	
Other _____	☐	☐	☐	
Geotechnical hazards:				
Slope failure, debris	☐	☐	☐	
Ground movement, fissures	☐	☐	☐	
Other _____	☐	☐	☐	

General Comments: No damage

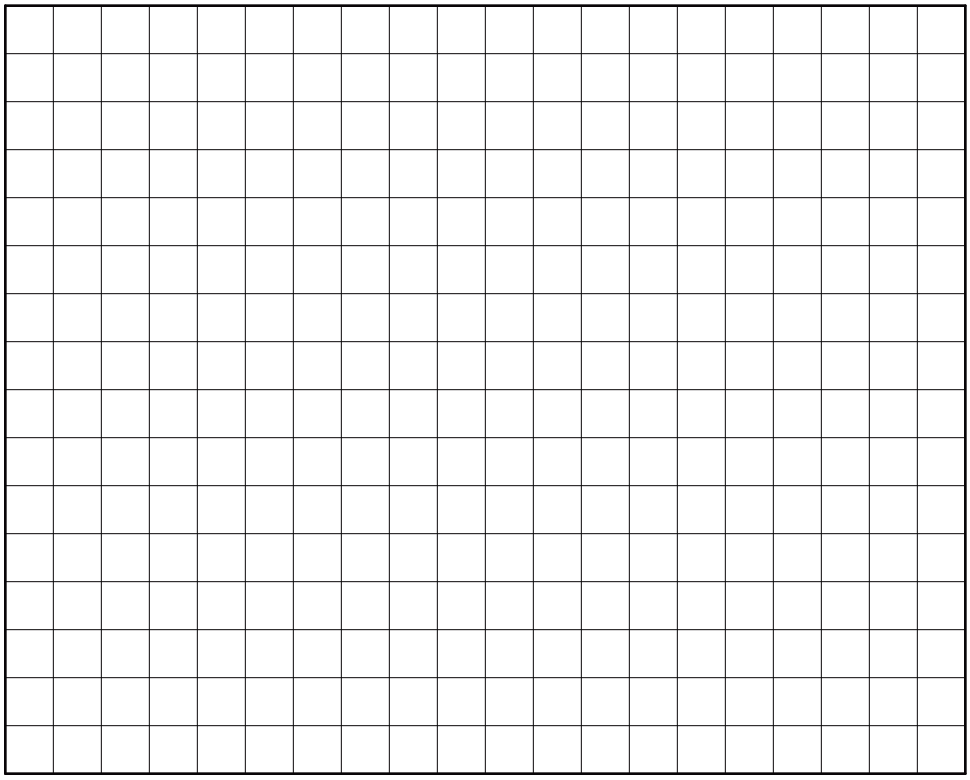
Continue on page 2

ATC-20 Detailed Evaluation Safety Assessment Form — Page 2

Building name: Fronteras Spanish Immersion Charter School Inspector ID: Chad Malone

Sketch (optional)

Provide a sketch of the building or damaged portions. Indicate damage points.



Estimated Building Damage

If requested by the jurisdiction, estimate building damage (repair cost ÷ replacement cost, excluding contents).

- ☑ None
- ☐ 0–1%
- ☐ 1–10%
- ☐ 10–30%
- ☐ 30–60%
- ☐ 60–100%
- ☐ 100%

Posting

If there is an existing posting from a previous evaluation, check the appropriate box.

Previous posting: ☐ INSPECTED ☐ RESTRICTED USE ☐ UNSAFE Inspector ID: _____ Date: _____

If necessary, revise the posting based on the new evaluation and team judgment. *Severe* conditions endangering the overall building are grounds for an Unsafe posting. Local *Severe* and overall *Moderate* conditions may allow a Restricted Use posting. Indicate the current posting below and at the top of page one.

☑ **INSPECTED** (Green placard) ☐ **RESTRICTED USE** (Yellow placard) ☐ **UNSAFE** (Red placard)

Record any use and entry restrictions exactly as written on placard: _____

Further Actions

Check the boxes below only if further actions are needed.

☐ Barricades needed in the following areas: _____

☐ Engineering Evaluation recommended: ☐ Structural ☐ Geotechnical ☐ Other: _____

☐ Other recommendations: _____

Comments: _____

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ATC-20 Detailed Evaluation Safety Assessment Form

Inspection

Inspector ID: Charles Kenley

Affiliation: PND Engineers

Inspection date and time: 5 Dec 2018 ☐ AM ☐ PM

Final Posting
from page 2

- ☑ Inspected
- ☐ Restricted Use
- ☐ Unsafe

Building Description

Building name: Goose Bay Elementary

Address: 6400 W Hollywood Rd, Wasilla, AK 99654

Building contact/phone: _____

Number of stories above ground: 1 below ground: _____

Approx. "Footprint area" (square feet): _____

Number of residential units: _____

Number of residential units not habitable: _____

Type of Construction

- ☑ Wood frame
- ☐ Steel frame
- ☐ Tilt-up concrete
- ☐ Concrete frame
- ☐ Concrete shear wall
- ☐ Unreinforced masonry
- ☑ Reinforced masonry
- ☐ Other: _____

Primary Occupancy

- ☐ Dwelling
- ☐ Other residential
- ☐ Public assembly
- ☐ Emergency services
- ☐ Commercial
- ☐ Offices
- ☐ Industrial
- ☐ Other: _____
- ☐ Government
- ☐ Historic
- ☑ School

Evaluation

Investigate the building for the conditions below and check the appropriate column. There is room on the second page for a sketch.

	Minor/None	Moderate	Severe	Comments
Overall hazards:				
Collapse or partial collapse	☐	☐	☐	
Building or story leaning	☐	☐	☐	
Other _____	☐	☐	☐	
Structural hazards:				
Foundations	☐	☐	☐	
Roofs, floors (vertical loads)	☐	☐	☐	
Columns, pilasters, corbels	☐	☐	☐	
Diaphragms, horizontal bracing	☐	☐	☐	
Walls, vertical bracing	☐	☐	☐	
Precast connections	☐	☐	☐	
Other _____	☐	☐	☐	
Nonstructural hazards:				
Parapets, ornamentation	☐	☐	☐	
Cladding, glazing	☐	☐	☐	
Ceilings, light fixtures	☐	☐	☐	
Interior walls, partitions	☑	☐	☐	Mortar Joint Cracking in CMY near Backboards. Small CMY cracks
Elevators	☐	☐	☐	
Stairs, exits	☐	☐	☐	
Electric, gas	☐	☐	☐	
Other _____	☐	☐	☐	
Geotechnical hazards:				
Slope failure, debris	☐	☐	☐	
Ground movement, fissures	☐	☐	☐	
Other _____	☐	☐	☐	

General Comments: _____

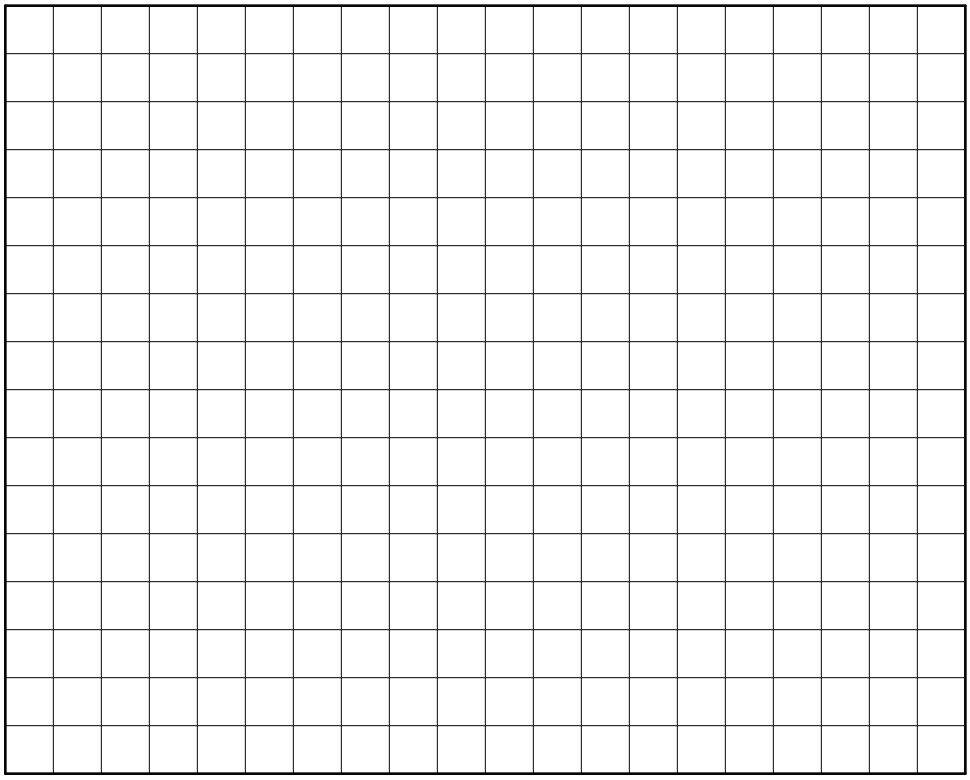
Continue on page 2

ATC-20 Detailed Evaluation Safety Assessment Form — Page 2

Building name: Goose Bay Inspector ID: Charles Kenley

Sketch (optional)

Provide a sketch of the building or damaged portions. Indicate damage points.



Estimated Building Damage

If requested by the jurisdiction, estimate building damage (repair cost ÷ replacement cost, excluding contents).

- ☑ None
- ☐ 0–1%
- ☐ 1–10%
- ☐ 10–30%
- ☐ 30–60%
- ☐ 60–100%
- ☐ 100%

Posting

If there is an existing posting from a previous evaluation, check the appropriate box.

Previous posting: ☐ INSPECTED ☐ RESTRICTED USE ☐ UNSAFE Inspector ID: _____ Date: _____

If necessary, revise the posting based on the new evaluation and team judgment. *Severe* conditions endangering the overall building are grounds for an Unsafe posting. Local *Severe* and overall *Moderate* conditions may allow a Restricted Use posting. Indicate the current posting below and at the top of page one.

☑ **INSPECTED** (Green placard) ☐ **RESTRICTED USE** (Yellow placard) ☐ **UNSAFE** (Red placard)

Record any use and entry restrictions exactly as written on placard: _____

Further Actions

Check the boxes below only if further actions are needed.

☐ Barricades needed in the following areas: _____

☐ Engineering Evaluation recommended: ☐ Structural ☐ Geotechnical ☐ Other: _____

☐ Other recommendations: _____

Comments: _____

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ATC-20 Detailed Evaluation Safety Assessment Form

Inspection

Inspector ID: Charles Kenley

Affiliation: PND Engineers

Inspection date and time: 30 Nov 2018 ☐ AM ☐ PM

Final Posting
from page 2

- ☑ Inspected
- ☐ Restricted Use
- ☐ Unsafe

Building Description

Building name: Houston High School

Address: 12501 Hawk Ln, Wasilla, AK 99623

Building contact/phone: _____

Number of stories above ground: 2 below ground: _____

Approx. "Footprint area" (square feet): _____

Number of residential units: _____

Number of residential units not habitable: _____

Type of Construction

- ☐ Wood frame
- ☑ Steel frame
- ☐ Tilt-up concrete
- ☐ Concrete frame
- ☐ Concrete shear wall
- ☐ Unreinforced masonry
- ☐ Reinforced masonry
- ☐ Other: _____

Primary Occupancy

- ☐ Dwelling
- ☐ Other residential
- ☐ Public assembly
- ☐ Emergency services
- ☐ Commercial
- ☐ Offices
- ☐ Industrial
- ☐ Other: _____
- ☐ Government
- ☐ Historic
- ☑ School

Evaluation

Investigate the building for the conditions below and check the appropriate column. There is room on the second page for a sketch.

	Minor/None	Moderate	Severe	Comments
Overall hazards:				
Collapse or partial collapse	☐	☐	☐	
Building or story leaning	☐	☐	☐	
Other _____	☐	☐	☐	
Structural hazards:				
Foundations	☐	☐	☐	
Roofs, floors (vertical loads)	☐	☐	☐	
Columns, pilasters, corbels	☐	☐	☐	
Diaphragms, horizontal bracing	☐	☐	☐	
Walls, vertical bracing	☐	☐	☐	
Precast connections	☐	☐	☐	
Other _____	☐	☐	☐	
Nonstructural hazards:				
Parapets, ornamentation	☐	☐	☐	
Cladding, glazing	☐	☐	☐	
Ceilings, light fixtures	☐	☐	☐	
Interior walls, partitions	☐	☐	☐	
Elevators	☐	☐	☐	
Stairs, exits	☐	☐	☐	
Electric, gas	☐	☐	☐	
Other _____	☐	☐	☐	
Geotechnical hazards:				
Slope failure, debris	☐	☐	☐	
Ground movement, fissures	☐	☐	☐	
Other _____	☐	☐	☐	

General Comments: No damge

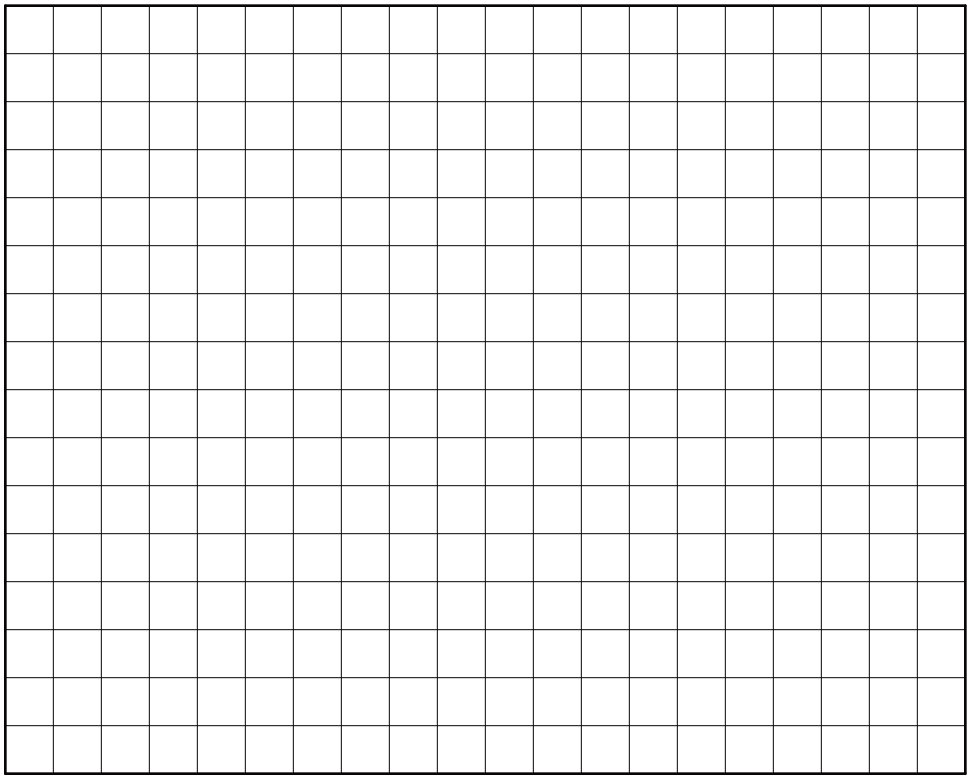
Continue on page 2

ATC-20 Detailed Evaluation Safety Assessment Form — Page 2

Building name: Houston High School Inspector ID: Charles Kenley

Sketch (optional)

Provide a sketch of the building or damaged portions. Indicate damage points.



Estimated Building Damage

If requested by the jurisdiction, estimate building damage (repair cost ÷ replacement cost, excluding contents).

- ☑ None
- ☐ 0–1%
- ☐ 1–10%
- ☐ 10–30%
- ☐ 30–60%
- ☐ 60–100%
- ☐ 100%

Posting

If there is an existing posting from a previous evaluation, check the appropriate box.

Previous posting: ☐ INSPECTED ☐ RESTRICTED USE ☐ UNSAFE Inspector ID: _____ Date: _____

If necessary, revise the posting based on the new evaluation and team judgment. *Severe* conditions endangering the overall building are grounds for an Unsafe posting. Local *Severe* and overall *Moderate* conditions may allow a Restricted Use posting. Indicate the current posting below and at the top of page one.

☑ **INSPECTED** (Green placard) ☐ **RESTRICTED USE** (Yellow placard) ☐ **UNSAFE** (Red placard)

Record any use and entry restrictions exactly as written on placard: _____

Further Actions

Check the boxes below only if further actions are needed.

☐ Barricades needed in the following areas: _____

☐ Engineering Evaluation recommended: ☐ Structural ☐ Geotechnical ☐ Other: _____

☐ Other recommendations: _____

Comments: _____

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ATC-20 Detailed Evaluation Safety Assessment Form

Inspection

Inspector ID: David Bentti

Affiliation: PND Engineers

Inspection date and time: 4 Dec 2018 ☑ AM ☐ PM

Final Posting
from page 2

☑ Inspected
☐ Restricted Use
☐ Unsafe

Building Description

Building name: Iditarod Elementary School

Address: 455 East Carpenter Cir, Wasilla, AK 99654

Building contact/phone: _____

Number of stories above ground: 2 below ground: _____

Approx. "Footprint area" (square feet): _____

Number of residential units: _____

Number of residential units not habitable: _____

Type of Construction

☐ Wood frame
☑ Steel frame
☐ Tilt-up concrete
☐ Concrete frame
☐ Concrete shear wall
☐ Unreinforced masonry
☐ Reinforced masonry
☐ Other: _____

Primary Occupancy

☐ Dwelling
☐ Other residential
☐ Public assembly
☐ Emergency services
☐ Commercial
☐ Offices
☐ Industrial
☐ Other: _____
☐ Government
☐ Historic
☑ School

Evaluation

Investigate the building for the conditions below and check the appropriate column. There is room on the second page for a sketch.

	Minor/None	Moderate	Severe	Comments
Overall hazards:				
Collapse or partial collapse	☐	☐	☐	
Building or story leaning	☐	☐	☐	
Other _____	☐	☐	☐	
Structural hazards:				
Foundations	☐	☐	☐	
Roofs, floors (vertical loads)	☐	☐	☐	
Columns, pilasters, corbels	☐	☐	☐	
Diaphragms, horizontal bracing	☐	☐	☐	
Walls, vertical bracing	☐	☐	☐	
Precast connections	☐	☐	☐	
Other _____	☐	☐	☐	
Nonstructural hazards:				
Parapets, ornamentation	☐	☐	☐	
Cladding, glazing	☐	☐	☐	
Ceilings, light fixtures	☐	☐	☐	
Interior walls, partitions	☐	☐	☐	
Elevators	☐	☐	☐	
Stairs, exits	☐	☐	☐	
Electric, gas	☐	☐	☐	
Other _____	☐	☐	☐	
Geotechnical hazards:				
Slope failure, debris	☐	☐	☐	
Ground movement, fissures	☐	☐	☐	
Other _____	☐	☐	☐	

General Comments: No Damage

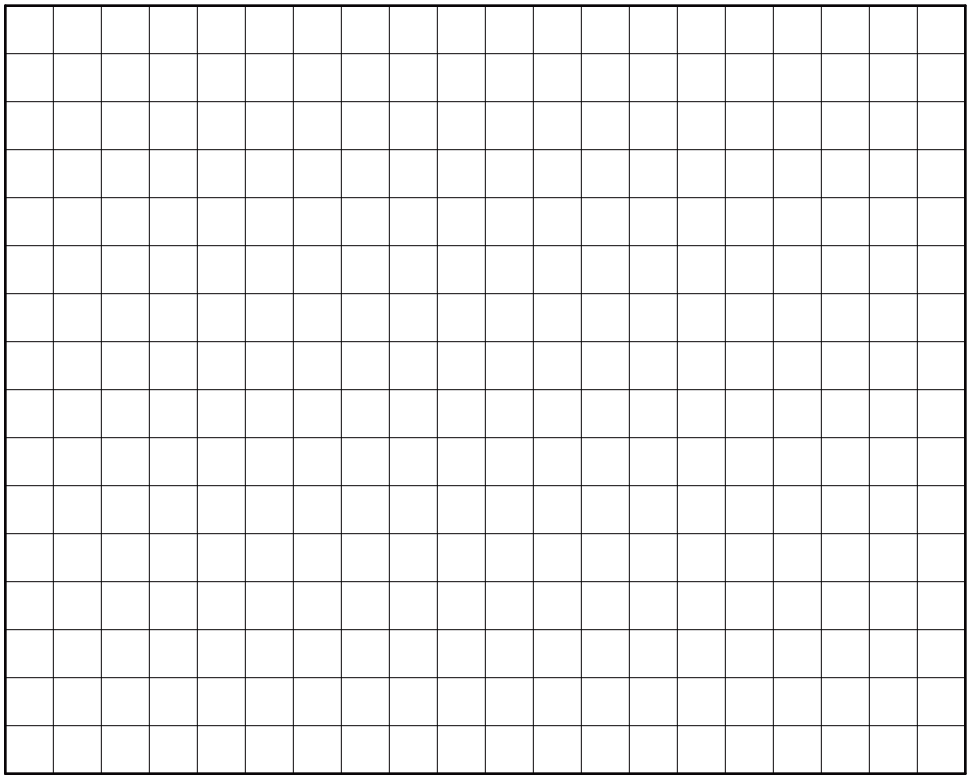
Continue on page 2

ATC-20 Detailed Evaluation Safety Assessment Form — Page 2

Building name: Iditarod Elementary School Inspector ID: David Bentti

Sketch (optional)

Provide a sketch of the building or damaged portions. Indicate damage points.



Estimated Building Damage

If requested by the jurisdiction, estimate building damage (repair cost ÷ replacement cost, excluding contents).

- ☑ None
- ☐ 0–1%
- ☐ 1–10%
- ☐ 10–30%
- ☐ 30–60%
- ☐ 60–100%
- ☐ 100%

Posting

If there is an existing posting from a previous evaluation, check the appropriate box.

Previous posting: ☐ INSPECTED ☐ RESTRICTED USE ☐ UNSAFE Inspector ID: _____ Date: _____

If necessary, revise the posting based on the new evaluation and team judgment. *Severe* conditions endangering the overall building are grounds for an Unsafe posting. Local *Severe* and overall *Moderate* conditions may allow a Restricted Use posting. Indicate the current posting below and at the top of page one.

☑ **INSPECTED** (Green placard) ☐ **RESTRICTED USE** (Yellow placard) ☐ **UNSAFE** (Red placard)

Record any use and entry restrictions exactly as written on placard: _____

Further Actions

Check the boxes below only if further actions are needed.

☐ Barricades needed in the following areas: _____

☐ Engineering Evaluation recommended: ☐ Structural ☐ Geotechnical ☐ Other: _____

☐ Other recommendations: _____

Comments: _____

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ATC-20 Detailed Evaluation Safety Assessment Form

Inspection

Inspector ID: Charles Kenley

Affiliation: PND Engineers

Inspection date and time: 1 Dec 2018 ☑ AM ☐ PM

Final Posting
from page 2

☑ Inspected
☐ Restricted Use
☐ Unsafe

Building Description

Building name: Knik Elementary

Address: 6350 Hollywood Road, W Hollywood Rd, Wasilla, AK 99654

Building contact/phone: _____

Number of stories above ground: 2 below ground: _____

Approx. "Footprint area" (square feet): _____

Number of residential units: _____

Number of residential units not habitable: _____

Type of Construction

☐ Wood frame
☑ Steel frame
☐ Tilt-up concrete
☐ Concrete frame
☐ Concrete shear wall
☐ Unreinforced masonry
☐ Reinforced masonry
☐ Other: _____

Primary Occupancy

☐ Dwelling
☐ Other residential
☐ Public assembly
☐ Emergency services
☐ Commercial
☐ Offices
☐ Industrial
☐ Other: _____
☐ Government
☐ Historic
☑ School

Evaluation

Investigate the building for the conditions below and check the appropriate column. There is room on the second page for a sketch.

	Minor/None	Moderate	Severe	Comments
Overall hazards:				
Collapse or partial collapse	☐	☐	☐	
Building or story leaning	☐	☐	☐	
Other _____	☐	☐	☐	
Structural hazards:				
Foundations	☐	☐	☐	
Roofs, floors (vertical loads)	☐	☐	☐	
Columns, pilasters, corbels	☐	☐	☐	
Diaphragms, horizontal bracing	☐	☐	☐	
Walls, vertical bracing	☐	☐	☐	
Precast connections	☐	☐	☐	
Other _____	☐	☐	☐	
Nonstructural hazards:				
Parapets, ornamentation	☐	☐	☐	
Cladding, glazing	☐	☐	☐	
Ceilings, light fixtures	☑	☐	☐	Gym Ceiling Damage
Interior walls, partitions	☐	☐	☐	
Elevators	☐	☐	☐	
Stairs, exits	☐	☐	☐	
Electric, gas	☐	☐	☐	
Other _____	☐	☐	☐	
Geotechnical hazards:				
Slope failure, debris	☐	☐	☐	
Ground movement, fissures	☐	☐	☐	
Other _____	☐	☐	☐	

General Comments: _____

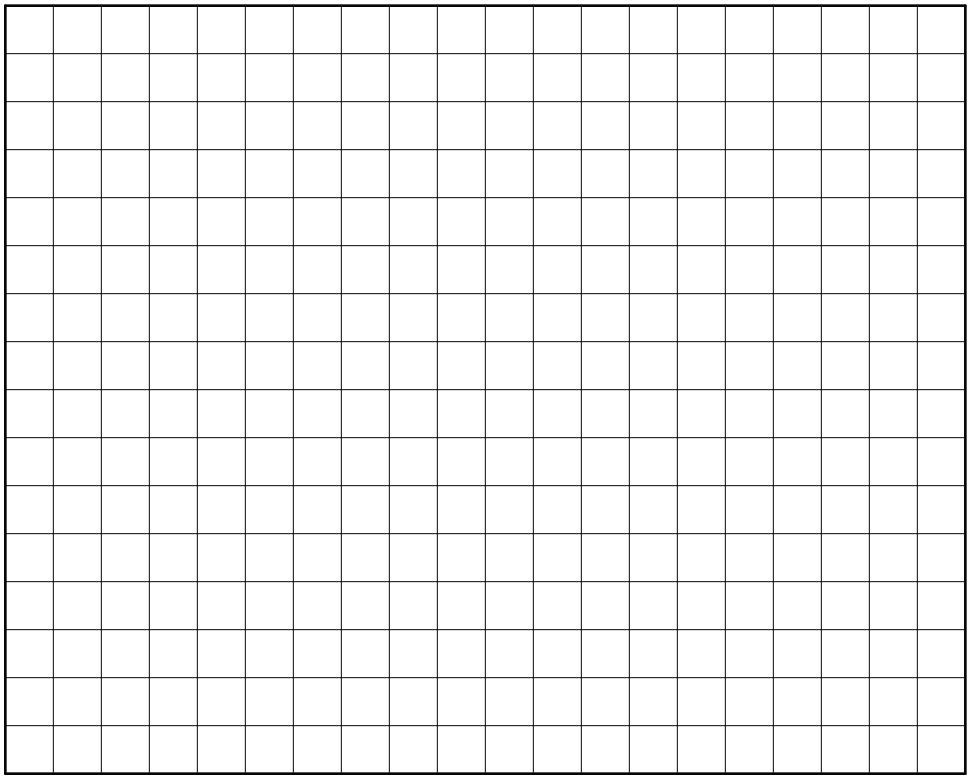
Continue on page 2

ATC-20 Detailed Evaluation Safety Assessment Form — Page 2

Building name: Knik Elementary Inspector ID: Charles Kenley

Sketch (optional)

Provide a sketch of the building or damaged portions. Indicate damage points.



Estimated Building Damage

If requested by the jurisdiction, estimate building damage (repair cost ÷ replacement cost, excluding contents).

- ☑ None
- ☐ 0–1%
- ☐ 1–10%
- ☐ 10–30%
- ☐ 30–60%
- ☐ 60–100%
- ☐ 100%

Posting

If there is an existing posting from a previous evaluation, check the appropriate box.

Previous posting: ☐ INSPECTED ☐ RESTRICTED USE ☐ UNSAFE Inspector ID: _____ Date: _____

If necessary, revise the posting based on the new evaluation and team judgment. *Severe* conditions endangering the overall building are grounds for an Unsafe posting. Local *Severe* and overall *Moderate* conditions may allow a Restricted Use posting. Indicate the current posting below and at the top of page one.

☑ **INSPECTED** (Green placard) ☐ **RESTRICTED USE** (Yellow placard) ☐ **UNSAFE** (Red placard)

Record any use and entry restrictions exactly as written on placard: _____

Further Actions

Check the boxes below only if further actions are needed.

☐ Barricades needed in the following areas: _____

☐ Engineering Evaluation recommended: ☐ Structural ☐ Geotechnical ☐ Other: _____

☐ Other recommendations: _____

Comments: _____

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ATC-20 Detailed Evaluation Safety Assessment Form

Inspection

Inspector ID: Charles Kenley

Affiliation: PND Engineers

Inspection date and time: 5 Dec 2018 ☐ AM ☐ PM

Final Posting
from page 2

- ☑ Inspected
- ☐ Restricted Use
- ☐ Unsafe

Building Description

Building name: Larson Elementary

Address: 2722 E Seldon Rd, Wasilla, AK 99654

Building contact/phone: _____

Number of stories above ground: 2 below ground: _____

Approx. "Footprint area" (square feet): _____

Number of residential units: _____

Number of residential units not habitable: _____

Type of Construction

- ☐ Wood frame
- ☑ Steel frame
- ☐ Tilt-up concrete
- ☐ Concrete frame
- ☐ Concrete shear wall
- ☐ Unreinforced masonry
- ☑ Reinforced masonry
- ☐ Other: _____

Primary Occupancy

- ☐ Dwelling
- ☐ Other residential
- ☐ Public assembly
- ☐ Emergency services
- ☐ Commercial
- ☐ Offices
- ☐ Industrial
- ☐ Other: _____
- ☐ Government
- ☐ Historic
- ☑ School

Evaluation

Investigate the building for the conditions below and check the appropriate column. There is room on the second page for a sketch.

	Minor/None	Moderate	Severe	Comments
Overall hazards:				
Collapse or partial collapse	☐	☐	☐	
Building or story leaning	☐	☐	☐	
Other _____	☐	☐	☐	
Structural hazards:				
Foundations	☐	☐	☐	
Roofs, floors (vertical loads)	☐	☐	☐	
Columns, pilasters, corbels	☐	☐	☐	
Diaphragms, horizontal bracing	☐	☐	☐	
Walls, vertical bracing	☐	☐	☐	
Precast connections	☐	☐	☐	
Other _____	☐	☐	☐	
Nonstructural hazards:				
Parapets, ornamentation	☐	☐	☐	
Cladding, glazing	☐	☐	☐	
Ceilings, light fixtures	☐	☐	☐	
Interior walls, partitions	☐	☐	☐	
Elevators	☐	☐	☐	
Stairs, exits	☐	☐	☐	
Electric, gas	☐	☐	☐	
Other _____	☐	☐	☐	
Geotechnical hazards:				
Slope failure, debris	☐	☐	☐	
Ground movement, fissures	☐	☐	☐	
Other _____	☐	☐	☐	

General Comments: No Damage

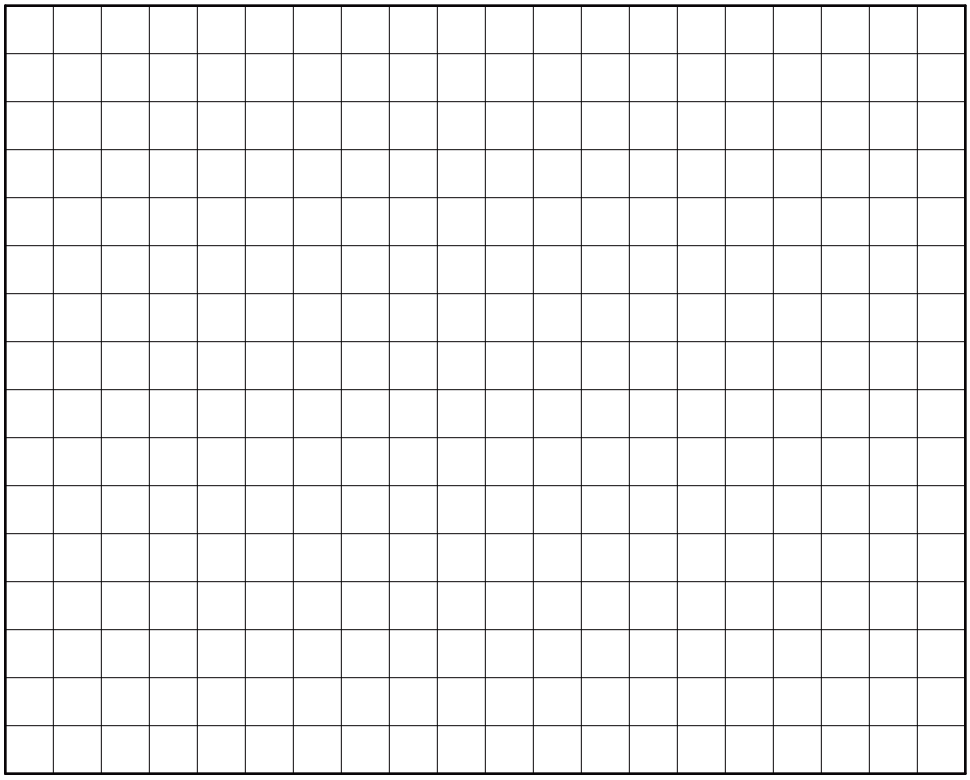
Continue on page 2

ATC-20 Detailed Evaluation Safety Assessment Form — Page 2

Building name: Larson Elementary Inspector ID: Charles Kenley

Sketch (optional)

Provide a sketch of the building or damaged portions. Indicate damage points.



Estimated Building Damage

If requested by the jurisdiction, estimate building damage (repair cost ÷ replacement cost, excluding contents).

- ☑ None
- ☐ 0–1%
- ☐ 1–10%
- ☐ 10–30%
- ☐ 30–60%
- ☐ 60–100%
- ☐ 100%

Posting

If there is an existing posting from a previous evaluation, check the appropriate box.

Previous posting: ☐ INSPECTED ☐ RESTRICTED USE ☐ UNSAFE Inspector ID: _____ Date: _____

If necessary, revise the posting based on the new evaluation and team judgment. *Severe* conditions endangering the overall building are grounds for an Unsafe posting. Local *Severe* and overall *Moderate* conditions may allow a Restricted Use posting. Indicate the current posting below and at the top of page one.

☑ **INSPECTED** (Green placard) ☐ **RESTRICTED USE** (Yellow placard) ☐ **UNSAFE** (Red placard)

Record any use and entry restrictions exactly as written on placard: _____

Further Actions

Check the boxes below only if further actions are needed.

☐ Barricades needed in the following areas: _____

☐ Engineering Evaluation recommended: ☐ Structural ☐ Geotechnical ☐ Other: _____

☐ Other recommendations: _____

Comments: _____

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ATC-20 Detailed Evaluation Safety Assessment Form

Inspection

Inspector ID: Chad Malone

Affiliation: PND Engineers

Inspection date and time: 5 Dec 2018 ☐ AM ☐ PM

Final Posting
from page 2

- ☑ Inspected
- ☐ Restricted Use
- ☐ Unsafe

Building Description

Building name: Machetanz Elementary

Address: 4961 E Nelson Rd, Wasilla, AK 99654

Building contact/phone: _____

Number of stories above ground: 2 below ground: _____

Approx. "Footprint area" (square feet): _____

Number of residential units: _____

Number of residential units not habitable: _____

Type of Construction

- ☐ Wood frame
- ☑ Steel frame
- ☐ Tilt-up concrete
- ☐ Concrete frame
- ☐ Concrete shear wall
- ☐ Unreinforced masonry
- ☐ Reinforced masonry
- ☐ Other: _____

Primary Occupancy

- ☐ Dwelling
- ☐ Other residential
- ☐ Public assembly
- ☐ Emergency services
- ☐ Commercial
- ☐ Offices
- ☐ Industrial
- ☐ Other: _____
- ☐ Government
- ☐ Historic
- ☑ School

Evaluation

Investigate the building for the conditions below and check the appropriate column. There is room on the second page for a sketch.

	Minor/None	Moderate	Severe	Comments
Overall hazards:				
Collapse or partial collapse	☐	☐	☐	
Building or story leaning	☐	☐	☐	
Other _____	☐	☐	☐	
Structural hazards:				
Foundations	☐	☐	☐	
Roofs, floors (vertical loads)	☐	☐	☐	
Columns, pilasters, corbels	☐	☐	☐	
Diaphragms, horizontal bracing	☐	☐	☐	
Walls, vertical bracing	☐	☐	☐	
Precast connections	☐	☐	☐	
Other _____	☐	☐	☐	
Nonstructural hazards:				
Parapets, ornamentation	☐	☐	☐	
Cladding, glazing	☐	☐	☐	
Ceilings, light fixtures	☑	☐	☐	Loose Ceiling Tiles
Interior walls, partitions	☑	☐	☐	Cracked Drywall
Elevators	☐	☐	☐	
Stairs, exits	☐	☐	☐	
Electric, gas	☐	☐	☐	
Other _____	☐	☐	☐	
Geotechnical hazards:				
Slope failure, debris	☐	☐	☐	
Ground movement, fissures	☐	☐	☐	
Other _____	☐	☐	☐	

General Comments: _____

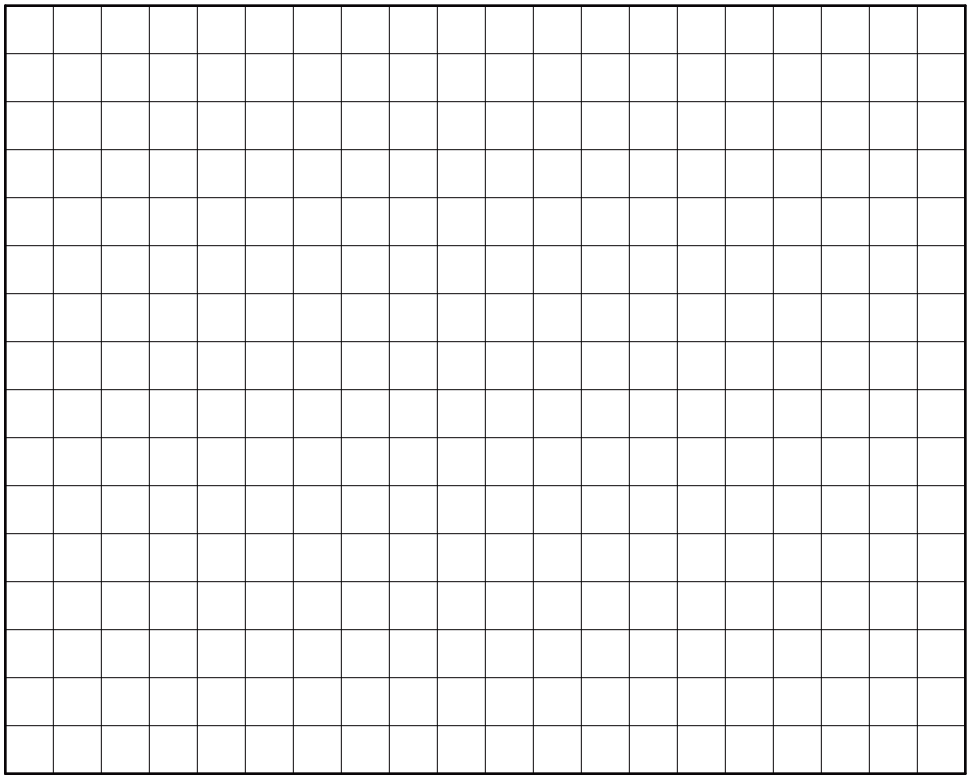
Continue on page 2

ATC-20 Detailed Evaluation Safety Assessment Form — Page 2

Building name: Machetanz Elementary Inspector ID: Chad Malone

Sketch (optional)

Provide a sketch of the building or damaged portions. Indicate damage points.



Estimated Building Damage

If requested by the jurisdiction, estimate building damage (repair cost ÷ replacement cost, excluding contents).

- ☑ None
- ☐ 0–1%
- ☐ 1–10%
- ☐ 10–30%
- ☐ 30–60%
- ☐ 60–100%
- ☐ 100%

Posting

If there is an existing posting from a previous evaluation, check the appropriate box.

Previous posting: ☐ INSPECTED ☐ RESTRICTED USE ☐ UNSAFE Inspector ID: _____ Date: _____

If necessary, revise the posting based on the new evaluation and team judgment. *Severe* conditions endangering the overall building are grounds for an Unsafe posting. Local *Severe* and overall *Moderate* conditions may allow a Restricted Use posting. Indicate the current posting below and at the top of page one.

☑ **INSPECTED** (Green placard) ☐ **RESTRICTED USE** (Yellow placard) ☐ **UNSAFE** (Red placard)

Record any use and entry restrictions exactly as written on placard: _____

Further Actions

Check the boxes below only if further actions are needed.

☐ Barricades needed in the following areas: _____

☐ Engineering Evaluation recommended: ☐ Structural ☐ Geotechnical ☐ Other: _____

☐ Other recommendations: _____

Comments: _____

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ATC-20 Detailed Evaluation Safety Assessment Form

Inspection

Inspector ID: Charles Kenley

Affiliation: PND Engineers

Inspection date and time: 4 Dec 2018 ☐ AM ☐ PM

Final Posting
from page 2

- ☑ Inspected
- ☐ Restricted Use
- ☐ Unsafe

Building Description

Building name: Meadow Lakes Elementary

Address: 1741 Pittman Rd, Wasilla, AK 99623

Building contact/phone: _____

Number of stories above ground: 2 below ground: _____

Approx. "Footprint area" (square feet): _____

Number of residential units: _____

Number of residential units not habitable: _____

Type of Construction

- ☑ Wood frame
- ☐ Steel frame
- ☐ Tilt-up concrete
- ☐ Concrete frame
- ☐ Concrete shear wall
- ☐ Unreinforced masonry
- ☑ Reinforced masonry
- ☐ Other: _____

Primary Occupancy

- ☐ Dwelling
- ☐ Other residential
- ☐ Public assembly
- ☐ Emergency services
- ☐ Commercial
- ☐ Offices
- ☐ Industrial
- ☐ Other: _____
- ☐ Government
- ☐ Historic
- ☑ School

Evaluation

Investigate the building for the conditions below and check the appropriate column. There is room on the second page for a sketch.

	Minor/None	Moderate	Severe	Comments
Overall hazards:				
Collapse or partial collapse	☑	☐	☐	
Building or story leaning	☑	☐	☐	
Other _____	☑	☐	☐	
Structural hazards:				
Foundations	☑	☐	☐	
Roofs, floors (vertical loads)	☑	☐	☐	
Columns, pilasters, corbels	☑	☐	☐	
Diaphragms, horizontal bracing	☑	☐	☐	
Walls, vertical bracing	☑	☐	☐	
Precast connections	☑	☐	☐	
Other _____	☑	☐	☐	
Nonstructural hazards:				
Parapets, ornamentation	☑	☐	☐	
Cladding, glazing	☑	☐	☐	
Ceilings, light fixtures	☑	☐	☐	
Interior walls, partitions	☑	☐	☐	Small amount of at vertical joins at or near corners
Elevators	☑	☐	☐	
Stairs, exits	☑	☐	☐	
Electric, gas	☑	☐	☐	
Other _____	☑	☐	☐	
Geotechnical hazards:				
Slope failure, debris	☑	☐	☐	
Ground movement, fissures	☑	☐	☐	
Other _____	☑	☐	☐	

General Comments: _____

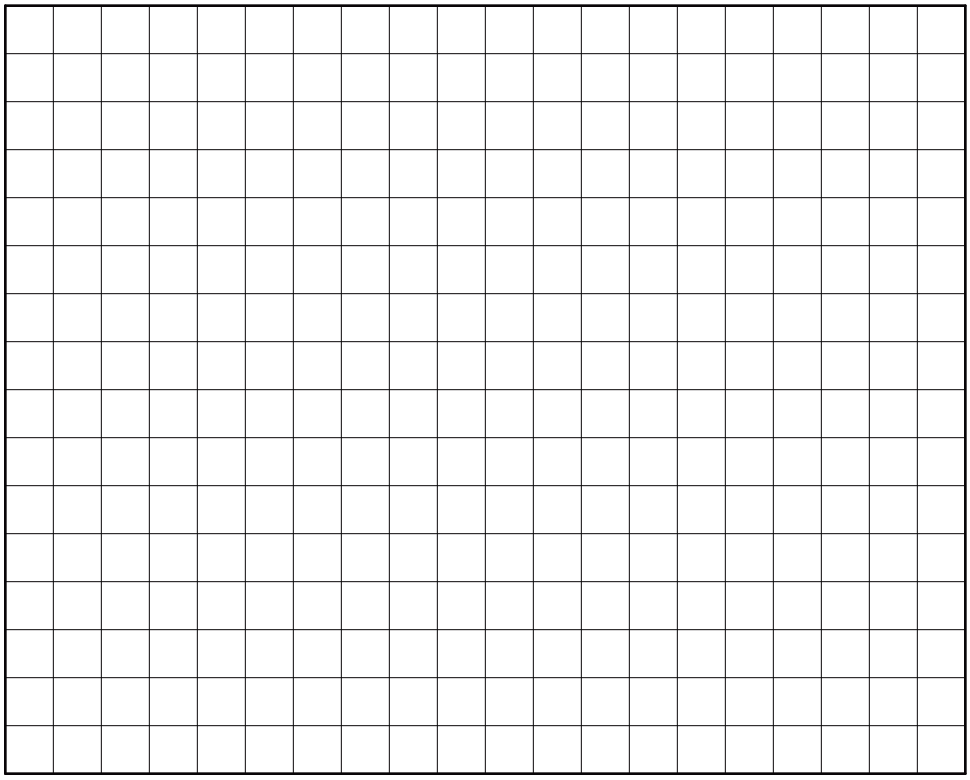
Continue on page 2

ATC-20 Detailed Evaluation Safety Assessment Form — Page 2

Building name: Larson Elementary Inspector ID: Charles Kenley

Sketch (optional)

Provide a sketch of the building or damaged portions. Indicate damage points.



Estimated Building Damage

If requested by the jurisdiction, estimate building damage (repair cost ÷ replacement cost, excluding contents).

- ☑ None
- ☐ 0–1%
- ☐ 1–10%
- ☐ 10–30%
- ☐ 30–60%
- ☐ 60–100%
- ☐ 100%

Posting

If there is an existing posting from a previous evaluation, check the appropriate box.

Previous posting: ☐ INSPECTED ☐ RESTRICTED USE ☐ UNSAFE Inspector ID: _____ Date: _____

If necessary, revise the posting based on the new evaluation and team judgment. *Severe* conditions endangering the overall building are grounds for an Unsafe posting. Local *Severe* and overall *Moderate* conditions may allow a Restricted Use posting. Indicate the current posting below and at the top of page one.

☑ **INSPECTED** (Green placard) ☐ **RESTRICTED USE** (Yellow placard) ☐ **UNSAFE** (Red placard)

Record any use and entry restrictions exactly as written on placard: _____

Further Actions

Check the boxes below only if further actions are needed.

☐ Barricades needed in the following areas: _____

☐ Engineering Evaluation recommended: ☐ Structural ☐ Geotechnical ☐ Other: _____

☐ Other recommendations: _____

Comments: _____

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ATC-20 Detailed Evaluation Safety Assessment Form

Inspection

Inspector ID: Charles Kenley

Affiliation: PND Engineers

Inspection date and time: _____ ☑ AM ☐ PM

Final Posting
from page 2

☑ Inspected
☐ Restricted Use
☐ Unsafe

Building Description

Building name: Nutrition Services

Address: 690 E Cope Industrial Way, Palmer, AK 99645

Building contact/phone: _____

Number of stories above ground: 1 below ground: 0

Approx. "Footprint area" (square feet): 40,000

Number of residential units: _____

Number of residential units not habitable: _____

Type of Construction

☐ Wood frame
☑ Steel frame
☐ Tilt-up concrete
☐ Concrete frame
☐ Concrete shear wall
☐ Unreinforced masonry
☐ Reinforced masonry
☐ Other: _____

Primary Occupancy

☐ Dwelling
☐ Other residential
☐ Public assembly
☐ Emergency services
☐ Commercial
☐ Offices
☐ Industrial
☐ Government
☐ Historic
☐ School
☑ Other: Central Kitchen

Evaluation

Investigate the building for the conditions below and check the appropriate column. There is room on the second page for a sketch.

	Minor/None	Moderate	Severe	Comments
Overall hazards:				
Collapse or partial collapse	☐	☐	☐	
Building or story leaning	☐	☐	☐	
Other _____	☐	☐	☐	
Structural hazards:				
Foundations	☐	☐	☐	
Roofs, floors (vertical loads)	☐	☐	☐	
Columns, pilasters, corbels	☐	☐	☐	
Diaphragms, horizontal bracing	☐	☐	☐	
Walls, vertical bracing	☐	☐	☐	
Precast connections	☐	☐	☐	
Other _____	☐	☐	☐	
Nonstructural hazards:				
Parapets, ornamentation	☐	☐	☐	
Cladding, glazing	☐	☐	☐	
Ceilings, light fixtures	☐	☐	☐	
Interior walls, partitions	☐	☐	☐	
Elevators	☐	☐	☐	
Stairs, exits	☐	☐	☐	
Electric, gas	☐	☐	☐	
Other _____	☐	☐	☐	
Geotechnical hazards:				
Slope failure, debris	☐	☐	☐	
Ground movement, fissures	☐	☐	☐	
Other _____	☐	☐	☐	

General Comments: No damage

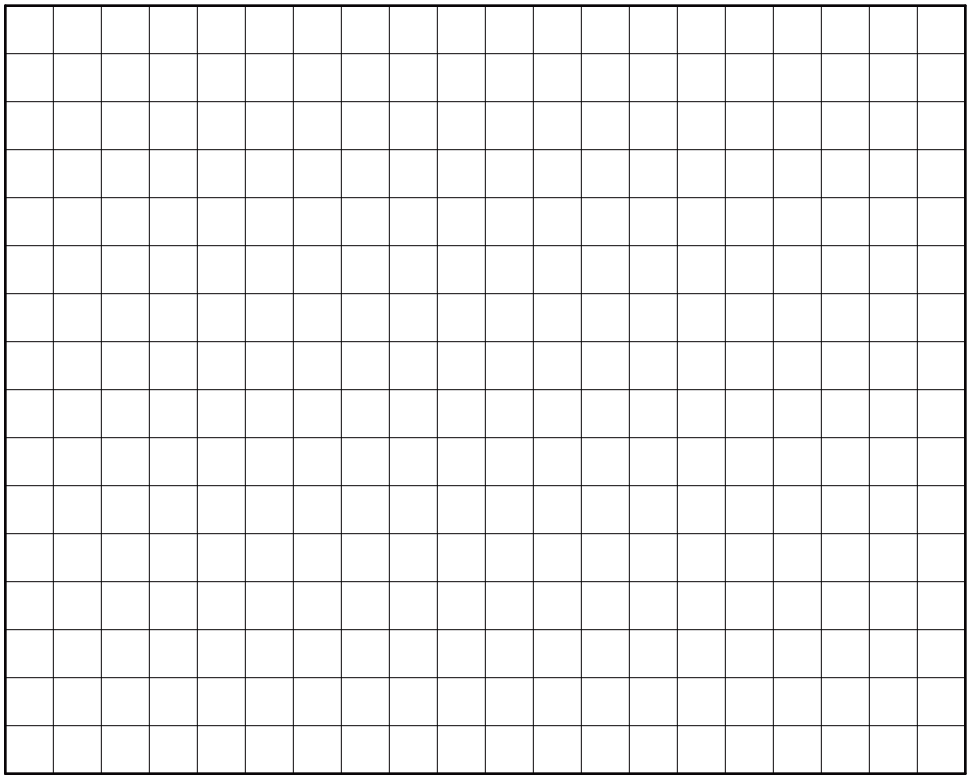
Continue on page 2

ATC-20 Detailed Evaluation Safety Assessment Form — Page 2

Building name: Nutrition Services Inspector ID: Charles Kenley

Sketch (optional)

Provide a sketch of the building or damaged portions. Indicate damage points.



Estimated Building Damage

If requested by the jurisdiction, estimate building damage (repair cost ÷ replacement cost, excluding contents).

- ☑ None
- ☐ 0–1%
- ☐ 1–10%
- ☐ 10–30%
- ☐ 30–60%
- ☐ 60–100%
- ☐ 100%

Posting

If there is an existing posting from a previous evaluation, check the appropriate box.

Previous posting: ☐ INSPECTED ☐ RESTRICTED USE ☐ UNSAFE Inspector ID: _____ Date: _____

If necessary, revise the posting based on the new evaluation and team judgment. *Severe* conditions endangering the overall building are grounds for an Unsafe posting. Local *Severe* and overall *Moderate* conditions may allow a Restricted Use posting. Indicate the current posting below and at the top of page one.

☑ **INSPECTED** (Green placard) ☐ **RESTRICTED USE** (Yellow placard) ☐ **UNSAFE** (Red placard)

Record any use and entry restrictions exactly as written on placard: _____

Further Actions

Check the boxes below only if further actions are needed.

☐ Barricades needed in the following areas: _____

☐ Engineering Evaluation recommended: ☐ Structural ☐ Geotechnical ☐ Other: _____

☐ Other recommendations: _____

Comments: _____

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ATC-20 Detailed Evaluation Safety Assessment Form

Inspection

Inspector ID: Charles Kenley

Affiliation: PND Engineers

Inspection date and time: Sept 30, 2018, 11:00 ☑ AM ☐ PM

Final Posting
from page 2

- ☑ Inspected
- ☐ Restricted Use
- ☐ Unsafe

Building Description

Building name: Palmer High School

Address: 1170 E Palmer Moose Dr, Palmer, AK 99645

Building contact/phone: _____

Number of stories above ground: 2 below ground: 0

Approx. "Footprint area" (square feet): Unknown

Number of residential units: _____

Number of residential units not habitable: _____

Type of Construction

- ☐ Wood frame
- ☑ Steel frame
- ☐ Tilt-up concrete
- ☐ Concrete frame
- ☐ Concrete shear wall
- ☐ Unreinforced masonry
- ☑ Reinforced masonry
- ☐ Other: _____

Primary Occupancy

- ☐ Dwelling
- ☐ Other residential
- ☐ Public assembly
- ☐ Emergency services
- ☐ Commercial
- ☐ Offices
- ☐ Industrial
- ☐ Other: _____
- ☐ Government
- ☐ Historic
- ☑ School

Evaluation

Investigate the building for the conditions below and check the appropriate column. There is room on the second page for a sketch.

	Minor/None	Moderate	Severe	Comments
Overall hazards:				
Collapse or partial collapse	☐	☐	☐	
Building or story leaning	☐	☐	☐	
Other _____	☑	☐	☐	Uneven cracks in concrete slabs-on-grade in Cafeteria and Hallways
Structural hazards:				
Foundations	☐	☐	☐	
Roofs, floors (vertical loads)	☐	☐	☐	
Columns, pilasters, corbels	☐	☐	☐	
Diaphragms, horizontal bracing	☐	☐	☐	
Walls, vertical bracing	☐	☐	☐	
Precast connections	☐	☐	☐	
Other _____	☐	☐	☐	
Nonstructural hazards:				
Parapets, ornamentation	☐	☐	☐	
Cladding, glazing	☐	☐	☐	
Ceilings, light fixtures	☑	☐	☐	Minor ceiling and light fixture damage
Interior walls, partitions	☐	☐	☐	
Elevators	☐	☐	☐	
Stairs, exits	☐	☐	☐	
Electric, gas	☐	☐	☐	
Other _____	☐	☐	☐	
Geotechnical hazards:				
Slope failure, debris	☐	☐	☐	
Ground movement, fissures	☐	☐	☐	
Other _____	☐	☐	☐	

General Comments: _____

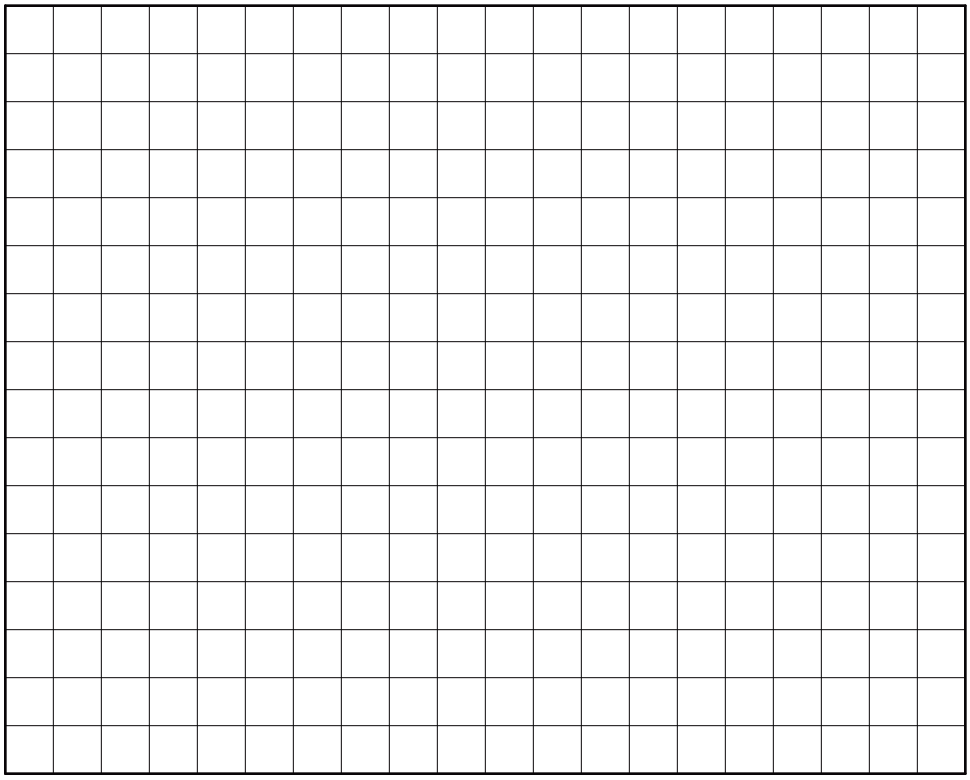
Continue on page 2

ATC-20 Detailed Evaluation Safety Assessment Form — Page 2

Building name: Palmer High School Inspector ID: Charles Kenley

Sketch (optional)

Provide a sketch of the building or damaged portions. Indicate damage points.



Estimated Building Damage

If requested by the jurisdiction, estimate building damage (repair cost ÷ replacement cost, excluding contents).

- ☑ None
- ☐ 0–1%
- ☐ 1–10%
- ☐ 10–30%
- ☐ 30–60%
- ☐ 60–100%
- ☐ 100%

Posting

If there is an existing posting from a previous evaluation, check the appropriate box.

Previous posting: ☐ INSPECTED ☐ RESTRICTED USE ☐ UNSAFE Inspector ID: _____ Date: _____

If necessary, revise the posting based on the new evaluation and team judgment. *Severe* conditions endangering the overall building are grounds for an Unsafe posting. Local *Severe* and overall *Moderate* conditions may allow a Restricted Use posting. Indicate the current posting below and at the top of page one.

☑ **INSPECTED** (Green placard) ☐ **RESTRICTED USE** (Yellow placard) ☐ **UNSAFE** (Red placard)

Record any use and entry restrictions exactly as written on placard: _____

Further Actions

Check the boxes below only if further actions are needed.

☐ Barricades needed in the following areas: _____

☐ Engineering Evaluation recommended: ☐ Structural ☐ Geotechnical ☐ Other: _____

☐ Other recommendations: _____

Comments: _____

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ATC-20 Detailed Evaluation Safety Assessment Form

Inspection

Inspector ID: Charles Kenley

Affiliation: PND Engineers

Inspection date and time: Sept 30, 2018, 10:00 ☑ AM ☐ PM

Final Posting
from page 2

- ☑ Inspected
- ☐ Restricted Use
- ☐ Unsafe

Building Description

Building name: Palmer Middle School

Address: 1159 S Chugach St, Palmer, AK 99645

Building contact/phone: _____

Number of stories above ground: 2 below ground: 0

Approx. "Footprint area" (square feet): Unknown

Number of residential units: _____

Number of residential units not habitable: _____

Type of Construction

- ☐ Wood frame
- ☐ Steel frame
- ☐ Tilt-up concrete
- ☐ Concrete frame
- ☐ Concrete shear wall
- ☐ Unreinforced masonry
- ☑ Reinforced masonry
- ☐ Other: _____

Primary Occupancy

- ☐ Dwelling
- ☐ Other residential
- ☐ Public assembly
- ☐ Emergency services
- ☐ Commercial
- ☐ Offices
- ☐ Industrial
- ☐ Other: _____
- ☐ Government
- ☐ Historic
- ☑ School

Evaluation

Investigate the building for the conditions below and check the appropriate column. There is room on the second page for a sketch.

	Minor/None	Moderate	Severe	Comments
Overall hazards:				
Collapse or partial collapse	☐	☐	☐	
Building or story leaning	☐	☐	☐	
Other _____	☐	☐	☐	
Structural hazards:				
Foundations	☐	☐	☐	
Roofs, floors (vertical loads)	☐	☐	☐	
Columns, pilasters, corbels	☐	☐	☐	
Diaphragms, horizontal bracing	☐	☐	☐	
Walls, vertical bracing	☐	☐	☐	
Precast connections	☐	☐	☐	
Other _____	☐	☐	☐	
Nonstructural hazards:				
Parapets, ornamentation	☐	☐	☐	
Cladding, glazing	☐	☐	☐	
Ceilings, light fixtures	☐	☑	☐	Moderate damage to ceilings in cafeteria, and Rms 206, 207, 208
Interior walls, partitions	☑	☐	☐	Minor CMU wall cracks in gym and Rm 128
Elevators	☐	☐	☐	
Stairs, exits	☐	☐	☐	
Electric, gas	☐	☐	☐	
Other _____	☐	☐	☐	
Geotechnical hazards:				
Slope failure, debris	☐	☐	☐	
Ground movement, fissures	☐	☐	☐	
Other _____	☐	☐	☐	

General Comments: _____

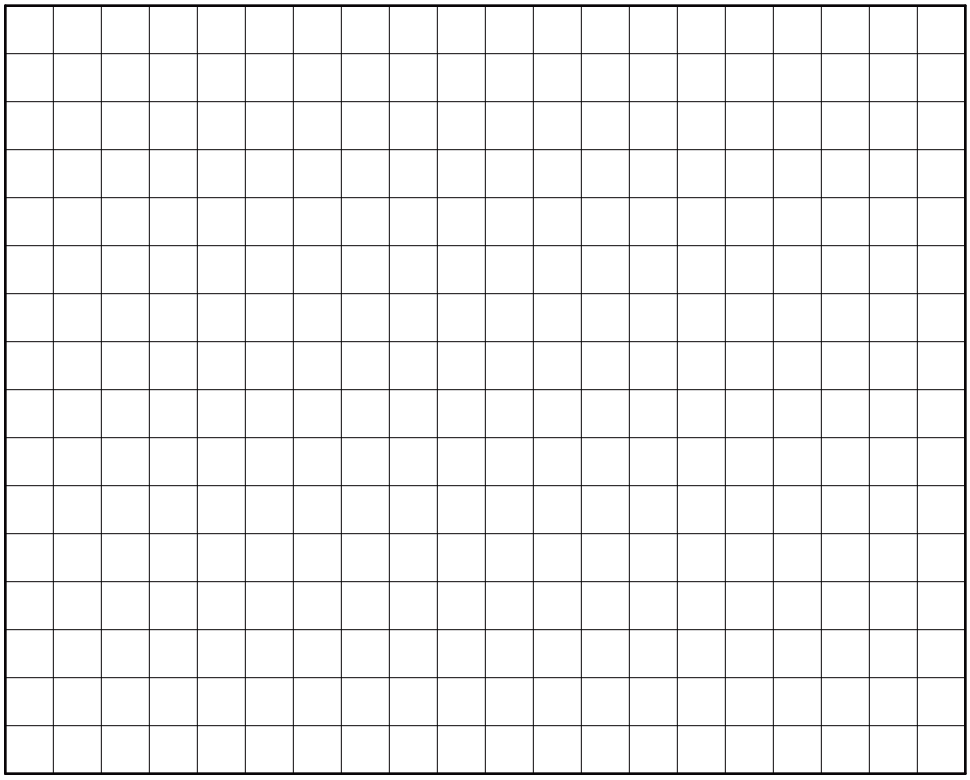
Continue on page 2

ATC-20 Detailed Evaluation Safety Assessment Form — Page 2

Building name: Palmer Middle School Inspector ID: Charles Kenley

Sketch (optional)

Provide a sketch of the building or damaged portions. Indicate damage points.



Estimated Building Damage

If requested by the jurisdiction, estimate building damage (repair cost ÷ replacement cost, excluding contents).

- ☐ None
- ☑ 0–1%
- ☐ 1–10%
- ☐ 10–30%
- ☐ 30–60%
- ☐ 60–100%
- ☐ 100%

Posting

If there is an existing posting from a previous evaluation, check the appropriate box.

Previous posting: ☐ INSPECTED ☐ RESTRICTED USE ☐ UNSAFE Inspector ID: _____ Date: _____

If necessary, revise the posting based on the new evaluation and team judgment. *Severe* conditions endangering the overall building are grounds for an Unsafe posting. Local *Severe* and overall *Moderate* conditions may allow a Restricted Use posting. Indicate the current posting below and at the top of page one.

☑ **INSPECTED** (Green placard) ☐ **RESTRICTED USE** (Yellow placard) ☐ **UNSAFE** (Red placard)

Record any use and entry restrictions exactly as written on placard: _____

Further Actions

Check the boxes below only if further actions are needed.

☐ Barricades needed in the following areas: _____

☐ Engineering Evaluation recommended: ☐ Structural ☐ Geotechnical ☐ Other: _____

☐ Other recommendations: _____

Comments: _____

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ATC-20 Detailed Evaluation Safety Assessment Form

Inspection

Inspector ID: Chad Malone

Affiliation: PND Engineers

Inspection date and time: 4 Dec 2018 ☐ AM ☐ PM

Final Posting
from page 2

- ☑ Inspected
- ☐ Restricted Use
- ☐ Unsafe

Building Description

Building name: Pioneer Peek Elemenary

Address: 1959 N Trunk Rd, Palmer, AK 99645

Building contact/phone: _____

Number of stories above ground: 2 below ground: _____

Approx. "Footprint area" (square feet): _____

Number of residential units: _____

Number of residential units not habitable: _____

Type of Construction

- ☑ Wood frame
- ☐ Steel frame
- ☐ Tilt-up concrete
- ☐ Concrete frame
- ☐ Concrete shear wall
- ☐ Unreinforced masonry
- ☐ Reinforced masonry
- ☐ Other: _____

Primary Occupancy

- ☐ Dwelling
- ☐ Other residential
- ☐ Public assembly
- ☐ Emergency services
- ☐ Commercial
- ☐ Offices
- ☐ Industrial
- ☐ Other: _____
- ☐ Government
- ☐ Historic
- ☑ School

Evaluation

Investigate the building for the conditions below and check the appropriate column. There is room on the second page for a sketch.

	Minor/None	Moderate	Severe	Comments
Overall hazards:				
Collapse or partial collapse	☐	☐	☐	
Building or story leaning	☐	☐	☐	
Other _____	☐	☐	☐	
Structural hazards:				
Foundations	☐	☐	☐	
Roofs, floors (vertical loads)	☐	☐	☐	
Columns, pilasters, corbels	☐	☐	☐	
Diaphragms, horizontal bracing	☐	☐	☐	
Walls, vertical bracing	☐	☐	☐	
Precast connections	☐	☐	☐	
Other _____	☐	☐	☐	
Nonstructural hazards:				
Parapets, ornamentation	☐	☐	☐	
Cladding, glazing	☐	☐	☐	
Ceilings, light fixtures	☐	☐	☐	
Interior walls, partitions	☑	☐	☐	Minor Gypsum wall board cracking
Elevators	☐	☐	☐	
Stairs, exits	☐	☐	☐	
Electric, gas	☐	☐	☐	
Other _____	☐	☐	☐	
Geotechnical hazards:				
Slope failure, debris	☐	☐	☐	
Ground movement, fissures	☐	☐	☐	
Other _____	☐	☐	☐	

General Comments: _____

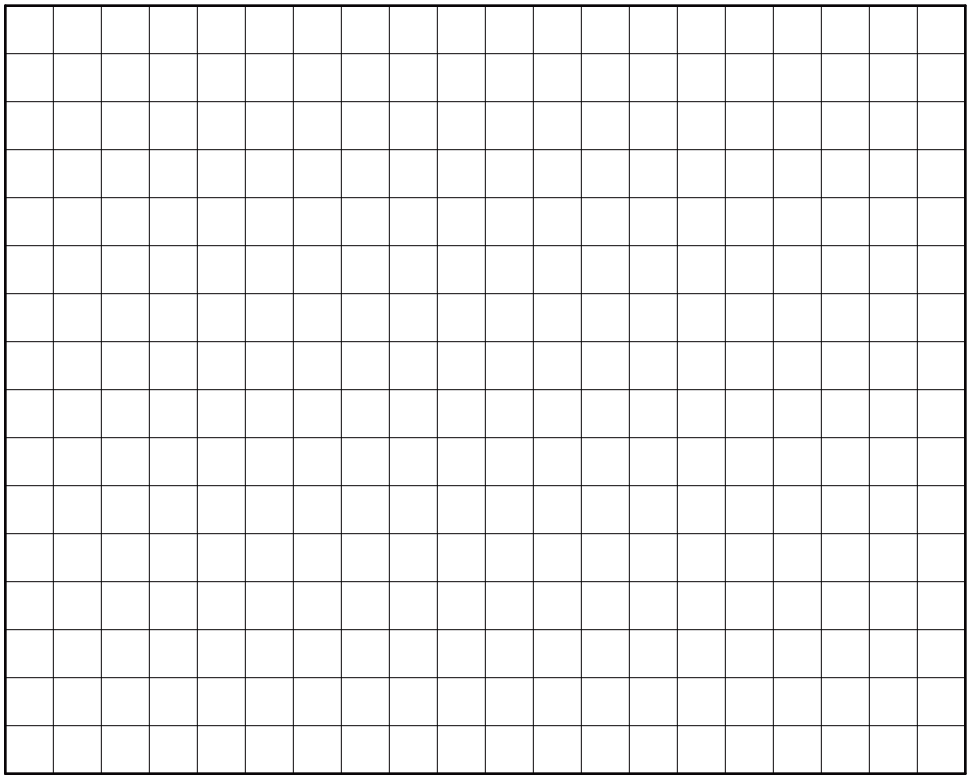
Continue on page 2

ATC-20 Detailed Evaluation Safety Assessment Form — Page 2

Building name: _____ Inspector ID: Chad Malone

Sketch (optional)

Provide a sketch of the building or damaged portions. Indicate damage points.



Estimated Building Damage

If requested by the jurisdiction, estimate building damage (repair cost ÷ replacement cost, excluding contents).

- ☑ None
- ☐ 0–1%
- ☐ 1–10%
- ☐ 10–30%
- ☐ 30–60%
- ☐ 60–100%
- ☐ 100%

Posting

If there is an existing posting from a previous evaluation, check the appropriate box.

Previous posting: ☐ INSPECTED ☐ RESTRICTED USE ☐ UNSAFE Inspector ID: _____ Date: _____

If necessary, revise the posting based on the new evaluation and team judgment. *Severe* conditions endangering the overall building are grounds for an Unsafe posting. Local *Severe* and overall *Moderate* conditions may allow a Restricted Use posting. Indicate the current posting below and at the top of page one.

☑ **INSPECTED** (Green placard) ☐ **RESTRICTED USE** (Yellow placard) ☐ **UNSAFE** (Red placard)

Record any use and entry restrictions exactly as written on placard: _____

Further Actions

Check the boxes below only if further actions are needed.

☐ Barricades needed in the following areas: _____

☐ Engineering Evaluation recommended: ☐ Structural ☐ Geotechnical ☐ Other: _____

☐ Other recommendations: _____

Comments: _____

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ATC-20 Detailed Evaluation Safety Assessment Form

Inspection

Inspector ID: Charles Kenley

Affiliation: PND Engineering

Inspection date and time: 5 Dec 2018 ☐ AM ☐ PM

Final Posting
from page 2

- ☑ Inspected
- ☐ Restricted Use
- ☐ Unsafe

Building Description

Building name: Redington Jr. Sr. Highschool

Address: _____

_____

Building contact/phone: _____

Number of stories above ground: 2 below ground: _____

Approx. "Footprint area" (square feet): _____

Number of residential units: _____

Number of residential units not habitable: _____

Type of Construction

- ☐ Wood frame
- ☑ Steel frame
- ☐ Tilt-up concrete
- ☐ Concrete frame
- ☐ Concrete shear wall
- ☐ Unreinforced masonry
- ☐ Reinforced masonry
- ☐ Other: _____

Primary Occupancy

- ☐ Dwelling
- ☐ Other residential
- ☐ Public assembly
- ☐ Emergency services
- ☐ Commercial
- ☐ Offices
- ☐ Industrial
- ☐ Other: _____
- ☐ Government
- ☐ Historic
- ☑ School

Evaluation

Investigate the building for the conditions below and check the appropriate column. There is room on the second page for a sketch.

	Minor/None	Moderate	Severe	Comments
Overall hazards:				
Collapse or partial collapse	☐	☐	☐	
Building or story leaning	☐	☐	☐	
Other _____	☐	☐	☐	
Structural hazards:				
Foundations	☐	☐	☐	
Roofs, floors (vertical loads)	☐	☐	☐	
Columns, pilasters, corbels	☐	☐	☐	
Diaphragms, horizontal bracing	☐	☐	☐	
Walls, vertical bracing	☐	☐	☐	
Precast connections	☐	☐	☐	
Other _____	☐	☐	☐	
Nonstructural hazards:				
Parapets, ornamentation	☐	☐	☐	
Cladding, glazing	☐	☐	☐	
Ceilings, light fixtures	☐	☐	☐	
Interior walls, partitions	☑	☐	☐	Slight gyp. board cracking
Elevators	☐	☐	☐	
Stairs, exits	☐	☐	☐	
Electric, gas	☐	☐	☐	
Other _____	☐	☐	☐	
Geotechnical hazards:				
Slope failure, debris	☐	☐	☐	
Ground movement, fissures	☐	☐	☐	
Other _____	☐	☐	☐	

General Comments: _____

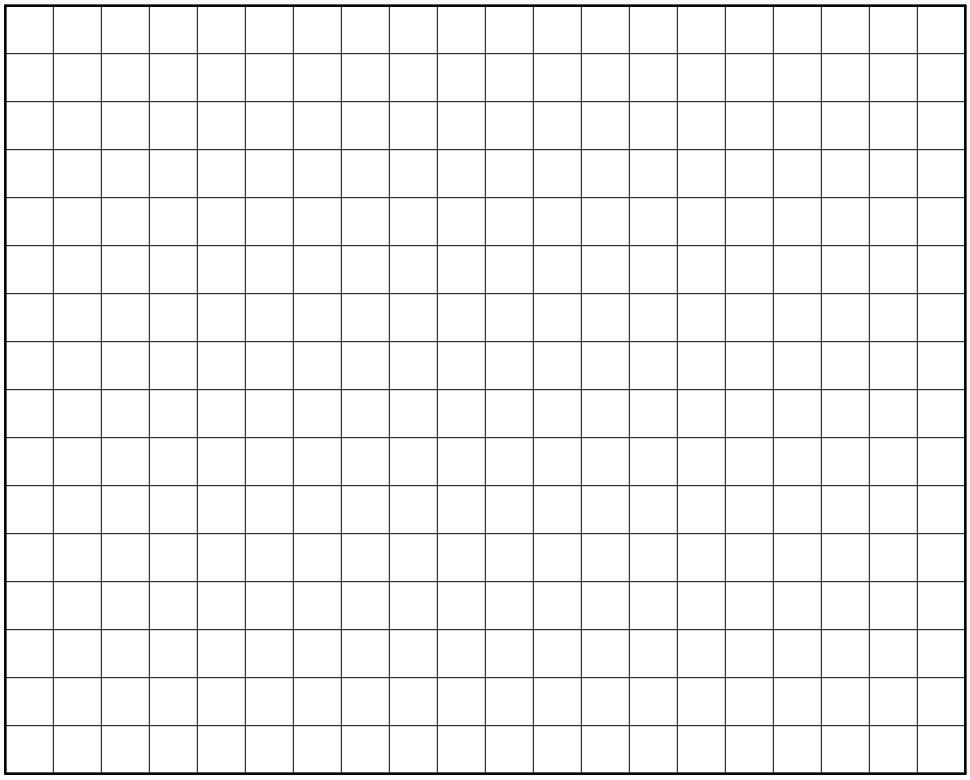
Continue on page 2

ATC-20 Detailed Evaluation Safety Assessment Form — Page 2

Building name: Redington Jr. Sr. Highschool Inspector ID: Charles Kenley

Sketch (optional)

Provide a sketch of the building or damaged portions. Indicate damage points.



Estimated Building Damage

If requested by the jurisdiction, estimate building damage (repair cost ÷ replacement cost, excluding contents).

- ☑ None
- ☐ 0–1%
- ☐ 1–10%
- ☐ 10–30%
- ☐ 30–60%
- ☐ 60–100%
- ☐ 100%

Posting

If there is an existing posting from a previous evaluation, check the appropriate box.

Previous posting: ☐ INSPECTED ☐ RESTRICTED USE ☐ UNSAFE Inspector ID: _____ Date: _____

If necessary, revise the posting based on the new evaluation and team judgment. *Severe* conditions endangering the overall building are grounds for an Unsafe posting. Local *Severe* and overall *Moderate* conditions may allow a Restricted Use posting. Indicate the current posting below and at the top of page one.

☑ **INSPECTED** (Green placard) ☐ **RESTRICTED USE** (Yellow placard) ☐ **UNSAFE** (Red placard)

Record any use and entry restrictions exactly as written on placard: _____

Further Actions

Check the boxes below only if further actions are needed.

☐ Barricades needed in the following areas: _____

☐ Engineering Evaluation recommended: ☐ Structural ☐ Geotechnical ☐ Other: _____

☐ Other recommendations: _____

Comments: _____

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ATC-20 Detailed Evaluation Safety Assessment Form

Inspection

Inspector ID: Chad Malone

Affiliation: PND Engineers

Inspection date and time: 5 Dec 2018 ☐ AM ☐ PM

Final Posting
from page 2

- ☑ Inspected
- ☐ Restricted Use
- ☐ Unsafe

Building Description

Building name: Shaw Elementary

Address: 3750 Paradise Ln, Wasilla, AK 99654

Building contact/phone: _____

Number of stories above ground: 2 below ground: _____

Approx. "Footprint area" (square feet): _____

Number of residential units: _____

Number of residential units not habitable: _____

Type of Construction

- ☑ Wood frame
- ☐ Steel frame
- ☐ Tilt-up concrete
- ☐ Concrete frame
- ☐ Concrete shear wall
- ☐ Unreinforced masonry
- ☑ Reinforced masonry
- ☐ Other: _____

Primary Occupancy

- ☐ Dwelling
- ☐ Other residential
- ☐ Public assembly
- ☐ Emergency services
- ☐ Commercial
- ☐ Offices
- ☐ Industrial
- ☐ Other: _____
- ☐ Government
- ☐ Historic
- ☑ School

Evaluation

Investigate the building for the conditions below and check the appropriate column. There is room on the second page for a sketch.

	Minor/None	Moderate	Severe	Comments
Overall hazards:				
Collapse or partial collapse	☐	☐	☐	
Building or story leaning	☐	☐	☐	
Other _____	☐	☐	☐	
Structural hazards:				
Foundations	☐	☐	☐	
Roofs, floors (vertical loads)	☐	☐	☐	
Columns, pilasters, corbels	☐	☐	☐	
Diaphragms, horizontal bracing	☐	☐	☐	
Walls, vertical bracing	☐	☐	☐	
Precast connections	☐	☐	☐	
Other _____	☐	☐	☐	
Nonstructural hazards:				
Parapets, ornamentation	☐	☐	☐	
Cladding, glazing	☐	☐	☐	
Ceilings, light fixtures	☐	☐	☐	
Interior walls, partitions	☑	☐	☐	Small cracks at CMU Lintel
Elevators	☐	☐	☐	
Stairs, exits	☐	☐	☐	
Electric, gas	☐	☐	☐	
Other _____	☐	☐	☐	
Geotechnical hazards:				
Slope failure, debris	☐	☐	☐	
Ground movement, fissures	☐	☐	☐	
Other _____	☐	☐	☐	

General Comments: _____

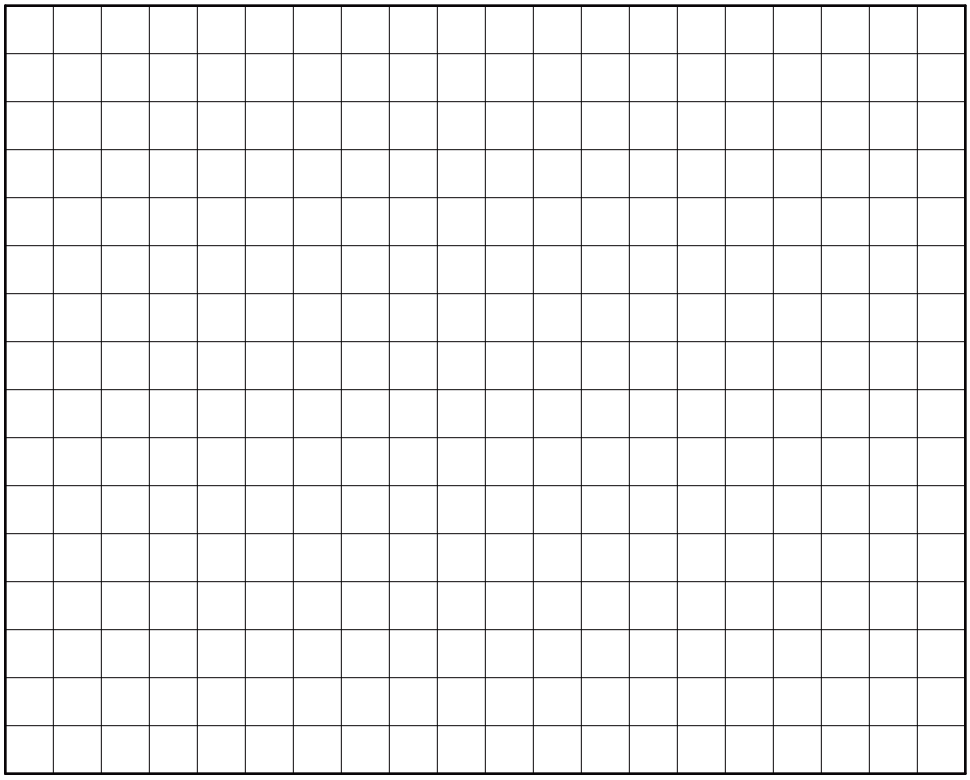
Continue on page 2

ATC-20 Detailed Evaluation Safety Assessment Form — Page 2

Building name: Shaw Elementary Inspector ID: Chad Malone

Sketch (optional)

Provide a sketch of the building or damaged portions. Indicate damage points.



Estimated Building Damage

If requested by the jurisdiction, estimate building damage (repair cost ÷ replacement cost, excluding contents).

- ☑ None
- ☐ 0–1%
- ☐ 1–10%
- ☐ 10–30%
- ☐ 30–60%
- ☐ 60–100%
- ☐ 100%

Posting

If there is an existing posting from a previous evaluation, check the appropriate box.

Previous posting: ☐ INSPECTED ☐ RESTRICTED USE ☐ UNSAFE Inspector ID: _____ Date: _____

If necessary, revise the posting based on the new evaluation and team judgment. *Severe* conditions endangering the overall building are grounds for an Unsafe posting. Local *Severe* and overall *Moderate* conditions may allow a Restricted Use posting. Indicate the current posting below and at the top of page one.

☑ **INSPECTED** (Green placard) ☐ **RESTRICTED USE** (Yellow placard) ☐ **UNSAFE** (Red placard)

Record any use and entry restrictions exactly as written on placard: _____

Further Actions

Check the boxes below only if further actions are needed.

☐ Barricades needed in the following areas: _____

☐ Engineering Evaluation recommended: ☐ Structural ☐ Geotechnical ☐ Other: _____

☐ Other recommendations: _____

Comments: _____

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ATC-20 Detailed Evaluation Safety Assessment Form

Inspection

Inspector ID: David Bentti

Affiliation: PND Engineers

Inspection date and time: 30 Nov 2018 ☐ AM ☐ PM

Final Posting
from page 2

- ☑ Inspected
- ☐ Restricted Use
- ☐ Unsafe

Building Description

Building name: Sherrod Elementary

Address: _____

_____

Building contact/phone: _____

Number of stories above ground: 2 below ground: _____

Approx. "Footprint area" (square feet): _____

Number of residential units: _____

Number of residential units not habitable: _____

Type of Construction

- ☐ Wood frame
- ☑ Steel frame
- ☐ Tilt-up concrete
- ☐ Concrete frame
- ☐ Concrete shear wall
- ☐ Unreinforced masonry
- ☐ Reinforced masonry
- ☐ Other: _____

Primary Occupancy

- ☐ Dwelling
- ☐ Other residential
- ☐ Public assembly
- ☐ Emergency services
- ☐ Commercial
- ☐ Offices
- ☐ Industrial
- ☐ Other: _____
- ☐ Government
- ☐ Historic
- ☐ School

Evaluation

Investigate the building for the conditions below and check the appropriate column. There is room on the second page for a sketch.

	Minor/None	Moderate	Severe	Comments
Overall hazards:				
Collapse or partial collapse	☐	☐	☐	
Building or story leaning	☐	☐	☐	
Other _____	☐	☐	☐	
Structural hazards:				
Foundations	☐	☐	☐	
Roofs, floors (vertical loads)	☐	☐	☐	
Columns, pilasters, corbels	☐	☐	☐	
Diaphragms, horizontal bracing	☐	☐	☐	
Walls, vertical bracing	☐	☐	☐	
Precast connections	☐	☐	☐	
Other _____	☐	☐	☐	
Nonstructural hazards:				
Parapets, ornamentation	☐	☐	☐	
Cladding, glazing	☐	☐	☐	
Ceilings, light fixtures	☐	☐	☐	
Interior walls, partitions	☐	☐	☐	
Elevators	☐	☐	☐	
Stairs, exits	☐	☐	☐	
Electric, gas	☐	☐	☐	
Other _____	☐	☐	☐	
Geotechnical hazards:				
Slope failure, debris	☐	☐	☐	
Ground movement, fissures	☐	☐	☐	
Other _____	☐	☐	☐	

General Comments: No Damage

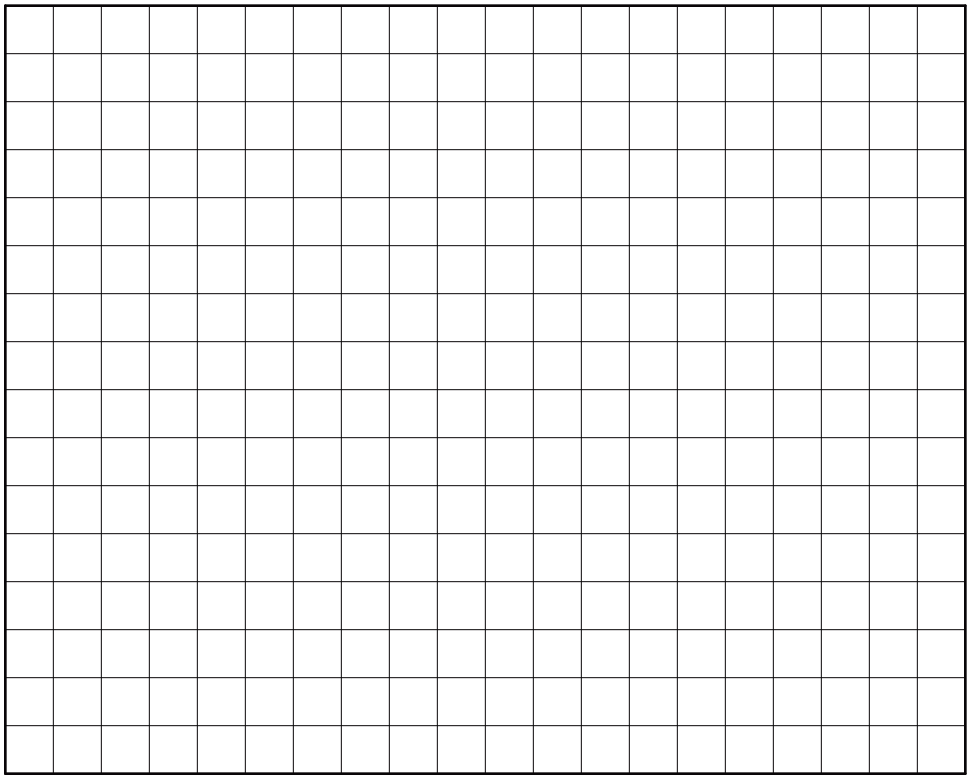
Continue on page 2

ATC-20 Detailed Evaluation Safety Assessment Form — Page 2

Building name: Sherrod Elementary Inspector ID: David Bentti

Sketch (optional)

Provide a sketch of the building or damaged portions. Indicate damage points.



Estimated Building Damage

If requested by the jurisdiction, estimate building damage (repair cost ÷ replacement cost, excluding contents).

- ☑ None
- ☐ 0–1%
- ☐ 1–10%
- ☐ 10–30%
- ☐ 30–60%
- ☐ 60–100%
- ☐ 100%

Posting

If there is an existing posting from a previous evaluation, check the appropriate box.

Previous posting: ☐ INSPECTED ☐ RESTRICTED USE ☐ UNSAFE Inspector ID: _____ Date: _____

If necessary, revise the posting based on the new evaluation and team judgment. *Severe* conditions endangering the overall building are grounds for an Unsafe posting. Local *Severe* and overall *Moderate* conditions may allow a Restricted Use posting. Indicate the current posting below and at the top of page one.

☑ **INSPECTED** (Green placard) ☐ **RESTRICTED USE** (Yellow placard) ☐ **UNSAFE** (Red placard)

Record any use and entry restrictions exactly as written on placard: _____

Further Actions

Check the boxes below only if further actions are needed.

☐ Barricades needed in the following areas: _____

☐ Engineering Evaluation recommended: ☐ Structural ☐ Geotechnical ☐ Other: _____

☐ Other recommendations: _____

Comments: _____

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ATC-20 Detailed Evaluation Safety Assessment Form

Inspection

Inspector ID: Chad Malone

Affiliation: PND Engineers

Inspection date and time: 5 Dec 2018 ☐ AM ☐ PM

Final Posting
from page 2

- ☑ Inspected
- ☐ Restricted Use
- ☐ Unsafe

Building Description

Building name: Sutton Elementary

Address: 11672 Wright Way, Sutton, AK 99674

Building contact/phone: _____

Number of stories above ground: 1 below ground: _____

Approx. "Footprint area" (square feet): _____

Number of residential units: _____

Number of residential units not habitable: _____

Type of Construction

- ☑ Wood frame
- ☐ Steel frame
- ☐ Tilt-up concrete
- ☐ Concrete frame
- ☐ Concrete shear wall
- ☐ Unreinforced masonry
- ☑ Reinforced masonry
- ☐ Other: _____

Primary Occupancy

- ☐ Dwelling
- ☐ Other residential
- ☐ Public assembly
- ☐ Emergency services
- ☐ Commercial
- ☐ Offices
- ☐ Industrial
- ☐ Other: _____
- ☐ Government
- ☐ Historic
- ☑ School

Evaluation

Investigate the building for the conditions below and check the appropriate column. There is room on the second page for a sketch.

	Minor/None	Moderate	Severe	Comments
Overall hazards:				
Collapse or partial collapse	☐	☐	☐	
Building or story leaning	☐	☐	☐	
Other _____	☐	☐	☐	
Structural hazards:				
Foundations	☐	☐	☐	
Roofs, floors (vertical loads)	☐	☐	☐	
Columns, pilasters, corbels	☐	☐	☐	
Diaphragms, horizontal bracing	☐	☐	☐	
Walls, vertical bracing	☐	☐	☐	
Precast connections	☐	☐	☐	
Other _____	☐	☐	☐	
Nonstructural hazards:				
Parapets, ornamentation	☐	☐	☐	
Cladding, glazing	☐	☐	☐	
Ceilings, light fixtures	☑	☐	☐	Cracked roof perlins at baskeball backboards
Interior walls, partitions	☐	☐	☐	
Elevators	☐	☐	☐	
Stairs, exits	☐	☐	☐	
Electric, gas	☐	☐	☐	
Other _____	☐	☐	☐	
Geotechnical hazards:				
Slope failure, debris	☐	☐	☐	
Ground movement, fissures	☐	☐	☐	
Other _____	☐	☐	☐	

General Comments: _____

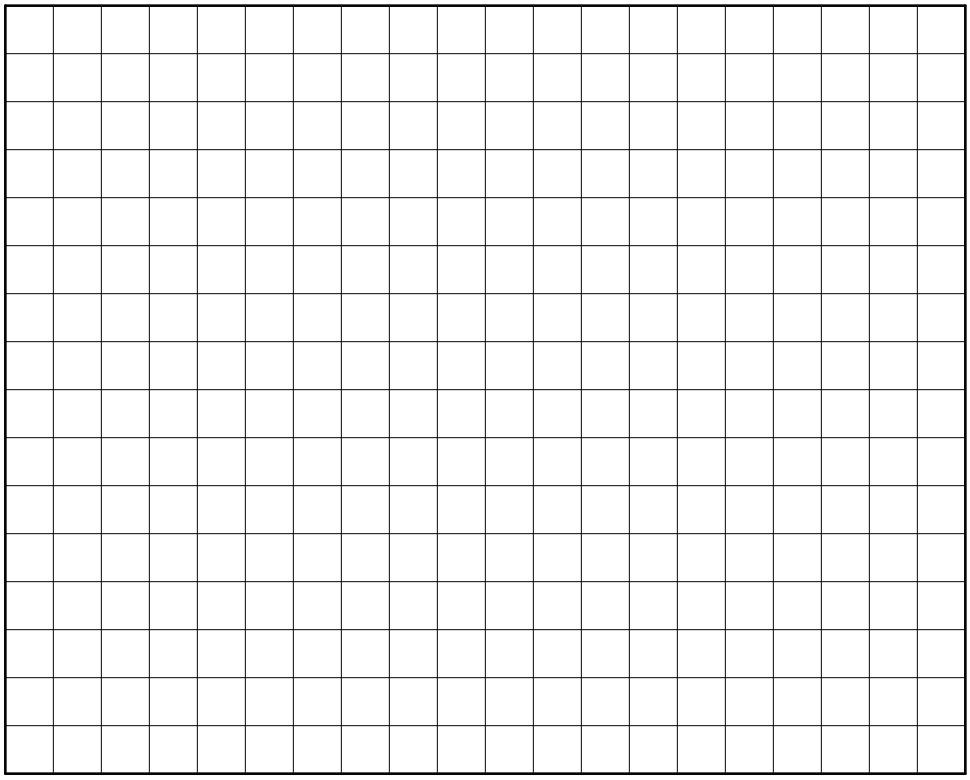
Continue on page 2

ATC-20 Detailed Evaluation Safety Assessment Form — Page 2

Building name: Sutton Elementary Inspector ID: Chad Malone

Sketch (optional)

Provide a sketch of the building or damaged portions. Indicate damage points.



Estimated Building Damage

If requested by the jurisdiction, estimate building damage (repair cost ÷ replacement cost, excluding contents).

- ☐ None
- ☑ 0–1%
- ☐ 1–10%
- ☐ 10–30%
- ☐ 30–60%
- ☐ 60–100%
- ☐ 100%

Posting

If there is an existing posting from a previous evaluation, check the appropriate box.

Previous posting: ☐ INSPECTED ☐ RESTRICTED USE ☐ UNSAFE Inspector ID: _____ Date: _____

If necessary, revise the posting based on the new evaluation and team judgment. *Severe* conditions endangering the overall building are grounds for an Unsafe posting. Local *Severe* and overall *Moderate* conditions may allow a Restricted Use posting. Indicate the current posting below and at the top of page one.

☑ **INSPECTED** (Green placard) ☐ **RESTRICTED USE** (Yellow placard) ☐ **UNSAFE** (Red placard)

Record any use and entry restrictions exactly as written on placard: _____

Further Actions

Check the boxes below only if further actions are needed.

☐ Barricades needed in the following areas: _____

☐ Engineering Evaluation recommended: ☐ Structural ☐ Geotechnical ☐ Other: _____

☐ Other recommendations: _____

Comments: _____

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ATC-20 Detailed Evaluation Safety Assessment Form

Inspection

Inspector ID: David Bentti

Affiliation: PND Engineers

Inspection date and time: 30 Nov 2018 ☐ AM ☐ PM

Final Posting
from page 2

- ☑ Inspected
- ☐ Restricted Use
- ☐ Unsafe

Building Description

Building name: Swanson Elementary

Address: 09 N Gulkana St, Palmer, AK 99645

Building contact/phone: _____

Number of stories above ground: 2 below ground: _____

Approx. "Footprint area" (square feet): _____

Number of residential units: _____

Number of residential units not habitable: _____

Type of Construction

- ☐ Wood frame
- ☑ Steel frame
- ☐ Tilt-up concrete
- ☐ Concrete frame
- ☐ Concrete shear wall
- ☐ Unreinforced masonry
- ☐ Reinforced masonry
- ☐ Other: _____

Primary Occupancy

- ☐ Dwelling
- ☐ Other residential
- ☐ Public assembly
- ☐ Emergency services
- ☐ Commercial
- ☐ Offices
- ☐ Industrial
- ☐ Other: _____
- ☐ Government
- ☐ Historic
- ☑ School

Evaluation

Investigate the building for the conditions below and check the appropriate column. There is room on the second page for a sketch.

	Minor/None	Moderate	Severe	Comments
Overall hazards:				
Collapse or partial collapse	☐	☐	☐	
Building or story leaning	☐	☐	☐	
Other _____	☐	☐	☐	
Structural hazards:				
Foundations	☐	☐	☐	
Roofs, floors (vertical loads)	☐	☐	☐	
Columns, pilasters, corbels	☐	☐	☐	
Diaphragms, horizontal bracing	☐	☐	☐	
Walls, vertical bracing	☐	☐	☐	
Precast connections	☐	☐	☐	
Other _____	☐	☐	☐	
Nonstructural hazards:				
Parapets, ornamentation	☐	☐	☐	
Cladding, glazing	☐	☐	☐	
Ceilings, light fixtures	☐	☐	☐	
Interior walls, partitions	☐	☐	☐	
Elevators	☐	☐	☐	
Stairs, exits	☐	☐	☐	
Electric, gas	☐	☐	☐	
Other _____	☐	☐	☐	
Geotechnical hazards:				
Slope failure, debris	☐	☐	☐	
Ground movement, fissures	☐	☐	☐	
Other _____	☐	☐	☐	

General Comments: No Damage

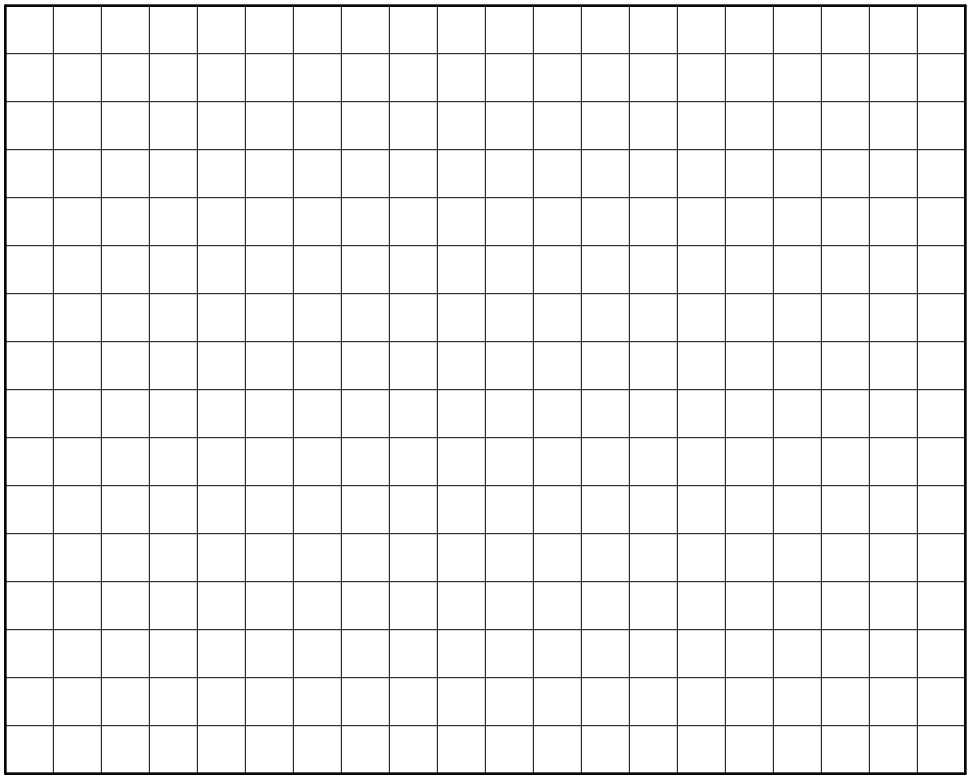
Continue on page 2

ATC-20 Detailed Evaluation Safety Assessment Form — Page 2

Building name: Swanson Elementary Inspector ID: David Bentti

Sketch (optional)

Provide a sketch of the building or damaged portions. Indicate damage points.



Estimated Building Damage

If requested by the jurisdiction, estimate building damage (repair cost ÷ replacement cost, excluding contents).

- ☑ None
- ☐ 0–1%
- ☐ 1–10%
- ☐ 10–30%
- ☐ 30–60%
- ☐ 60–100%
- ☐ 100%

Posting

If there is an existing posting from a previous evaluation, check the appropriate box.

Previous posting: ☐ INSPECTED ☐ RESTRICTED USE ☐ UNSAFE Inspector ID: _____ Date: _____

If necessary, revise the posting based on the new evaluation and team judgment. *Severe* conditions endangering the overall building are grounds for an Unsafe posting. Local *Severe* and overall *Moderate* conditions may allow a Restricted Use posting. Indicate the current posting below and at the top of page one.

☑ **INSPECTED** (Green placard) ☐ **RESTRICTED USE** (Yellow placard) ☐ **UNSAFE** (Red placard)

Record any use and entry restrictions exactly as written on placard: _____

Further Actions

Check the boxes below only if further actions are needed.

☐ Barricades needed in the following areas: _____

☐ Engineering Evaluation recommended: ☐ Structural ☐ Geotechnical ☐ Other: _____

☐ Other recommendations: _____

Comments: _____

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ATC-20 Detailed Evaluation Safety Assessment Form

Inspection

Inspector ID: Charles Kenley

Affiliation: PND Engineers

Inspection date and time: 4 Dec 2018 ☐ AM ☐ PM

Final Posting
from page 2

- ☑ Inspected
- ☐ Restricted Use
- ☐ Unsafe

Building Description

Building name: Tanaina Elementary

Address: 2550 Lucille St, Wasilla, AK 99654

Building contact/phone: _____

Number of stories above ground: _____ below ground: _____

Approx. "Footprint area" (square feet): _____

Number of residential units: _____

Number of residential units not habitable: _____

Type of Construction

- ☑ Wood frame
- ☐ Steel frame
- ☐ Tilt-up concrete
- ☐ Concrete frame
- ☐ Concrete shear wall
- ☐ Unreinforced masonry
- ☑ Reinforced masonry
- ☐ Other: _____

Primary Occupancy

- ☐ Dwelling
- ☐ Other residential
- ☐ Public assembly
- ☐ Emergency services
- ☐ Commercial
- ☐ Offices
- ☐ Industrial
- ☐ Other: _____
- ☐ Government
- ☐ Historic
- ☑ School

Evaluation

Investigate the building for the conditions below and check the appropriate column. There is room on the second page for a sketch.

	Minor/None	Moderate	Severe	Comments
Overall hazards:				
Collapse or partial collapse	☐	☐	☐	
Building or story leaning	☐	☐	☐	
Other _____	☐	☐	☐	
Structural hazards:				
Foundations	☐	☐	☐	
Roofs, floors (vertical loads)	☐	☐	☐	
Columns, pilasters, corbels	☐	☐	☐	
Diaphragms, horizontal bracing	☐	☐	☐	
Walls, vertical bracing	☐	☐	☐	
Precast connections	☐	☐	☐	
Other _____	☐	☐	☐	
Nonstructural hazards:				
Parapets, ornamentation	☐	☐	☐	
Cladding, glazing	☐	☐	☐	
Ceilings, light fixtures	☐	☐	☐	
Interior walls, partitions	☐	☐	☐	
Elevators	☐	☐	☐	
Stairs, exits	☐	☐	☐	
Electric, gas	☐	☐	☐	
Other _____	☐	☐	☐	
Geotechnical hazards:				
Slope failure, debris	☐	☐	☐	
Ground movement, fissures	☐	☐	☐	
Other _____	☐	☐	☐	

General Comments: No damage

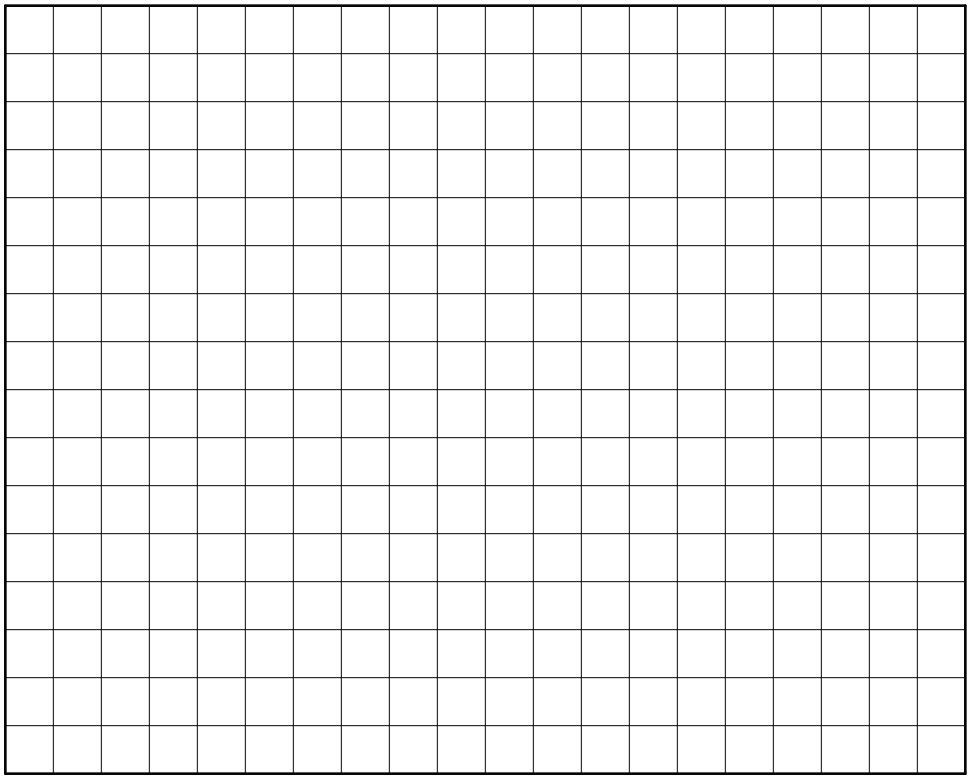
Continue on page 2

ATC-20 Detailed Evaluation Safety Assessment Form — Page 2

Building name: Tanaina Elementary Inspector ID: Charles Kenley

Sketch (optional)

Provide a sketch of the building or damaged portions. Indicate damage points.



Estimated Building Damage

If requested by the jurisdiction, estimate building damage (repair cost ÷ replacement cost, excluding contents).

- ☑ None
- ☐ 0–1%
- ☐ 1–10%
- ☐ 10–30%
- ☐ 30–60%
- ☐ 60–100%
- ☐ 100%

Posting

If there is an existing posting from a previous evaluation, check the appropriate box.

Previous posting: ☐ INSPECTED ☐ RESTRICTED USE ☐ UNSAFE Inspector ID: _____ Date: _____

If necessary, revise the posting based on the new evaluation and team judgment. *Severe* conditions endangering the overall building are grounds for an Unsafe posting. Local *Severe* and overall *Moderate* conditions may allow a Restricted Use posting. Indicate the current posting below and at the top of page one.

☑ **INSPECTED** (Green placard) ☐ **RESTRICTED USE** (Yellow placard) ☐ **UNSAFE** (Red placard)

Record any use and entry restrictions exactly as written on placard: _____

Further Actions

Check the boxes below only if further actions are needed.

☐ Barricades needed in the following areas: _____

☐ Engineering Evaluation recommended: ☐ Structural ☐ Geotechnical ☐ Other: _____

☐ Other recommendations: _____

Comments: _____

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ATC-20 Detailed Evaluation Safety Assessment Form

Inspection

Inspector ID: Chad Malone

Affiliation: PND Engineers

Inspection date and time: 4 Dec 2018 ☐ AM ☐ PM

Final Posting
from page 2

- ☑ Inspected
- ☐ Restricted Use
- ☐ Unsafe

Building Description

Building name: Teeland Middle

Address: 2788 N Seward Meridian Pkwy, Wasilla, AK 99654

Building contact/phone: _____

Number of stories above ground: 2 below ground: _____

Approx. "Footprint area" (square feet): _____

Number of residential units: _____

Number of residential units not habitable: _____

Type of Construction

- ☐ Wood frame
- ☑ Steel frame
- ☐ Tilt-up concrete
- ☐ Concrete frame
- ☑ Concrete shear wall
- ☐ Unreinforced masonry
- ☐ Reinforced masonry
- ☐ Other: _____

Primary Occupancy

- ☐ Dwelling
- ☐ Other residential
- ☐ Public assembly
- ☐ Emergency services
- ☐ Commercial
- ☐ Offices
- ☐ Industrial
- ☐ Other: _____
- ☐ Government
- ☐ Historic
- ☐ School

Evaluation

Investigate the building for the conditions below and check the appropriate column. There is room on the second page for a sketch.

	Minor/None	Moderate	Severe	Comments
Overall hazards:				
Collapse or partial collapse	☐	☐	☐	
Building or story leaning	☐	☐	☐	
Other _____	☐	☐	☐	
Structural hazards:				
Foundations	☐	☐	☐	
Roofs, floors (vertical loads)	☐	☐	☐	
Columns, pilasters, corbels	☐	☐	☐	
Diaphragms, horizontal bracing	☐	☐	☐	
Walls, vertical bracing	☑	☐	☐	Hairline cracks in precast wall panels
Precast connections	☐	☐	☐	
Other _____	☐	☐	☐	
Nonstructural hazards:				
Parapets, ornamentation	☐	☐	☐	
Cladding, glazing	☐	☐	☐	
Ceilings, light fixtures	☐	☐	☐	
Interior walls, partitions	☐	☐	☐	
Elevators	☐	☐	☐	
Stairs, exits	☐	☐	☐	
Electric, gas	☐	☐	☐	
Other _____	☐	☐	☐	
Geotechnical hazards:				
Slope failure, debris	☐	☐	☐	
Ground movement, fissures	☐	☐	☐	
Other _____	☐	☐	☐	

General Comments: _____

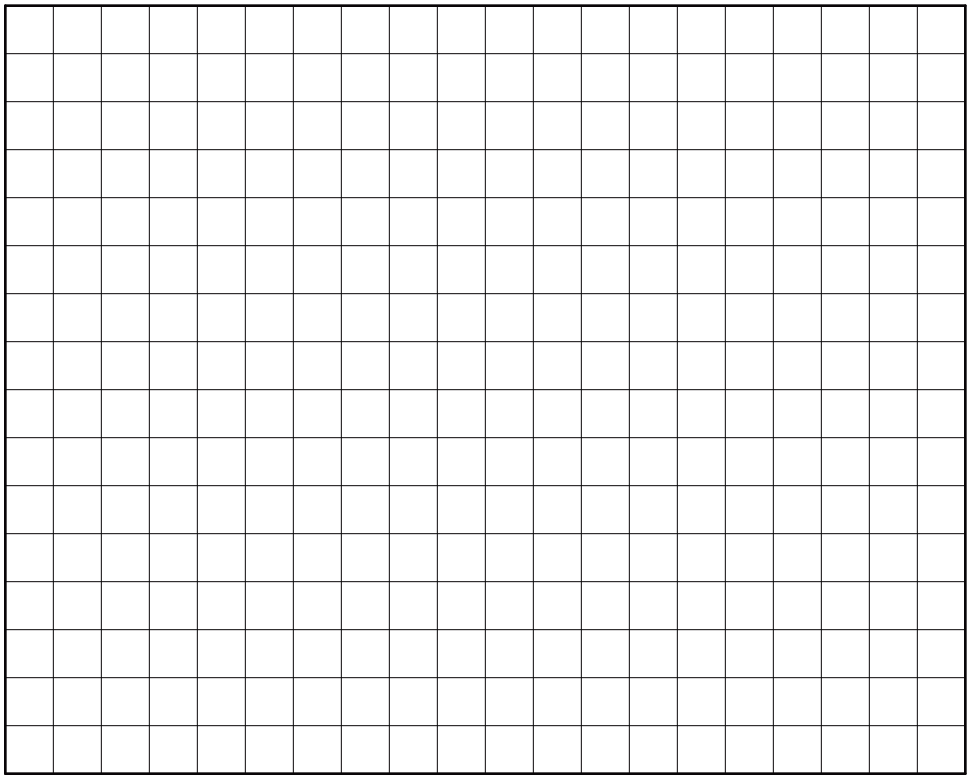
Continue on page 2

ATC-20 Detailed Evaluation Safety Assessment Form — Page 2

Building name: Teeland Middle Inspector ID: Chad Malone

Sketch (optional)

Provide a sketch of the building or damaged portions. Indicate damage points.



Estimated Building Damage

If requested by the jurisdiction, estimate building damage (repair cost ÷ replacement cost, excluding contents).

- ☑ None
- ☐ 0–1%
- ☐ 1–10%
- ☐ 10–30%
- ☐ 30–60%
- ☐ 60–100%
- ☐ 100%

Posting

If there is an existing posting from a previous evaluation, check the appropriate box.

Previous posting: ☐ INSPECTED ☐ RESTRICTED USE ☐ UNSAFE Inspector ID: _____ Date: _____

If necessary, revise the posting based on the new evaluation and team judgment. *Severe* conditions endangering the overall building are grounds for an Unsafe posting. Local *Severe* and overall *Moderate* conditions may allow a Restricted Use posting. Indicate the current posting below and at the top of page one.

☑ **INSPECTED** (Green placard) ☐ **RESTRICTED USE** (Yellow placard) ☐ **UNSAFE** (Red placard)

Record any use and entry restrictions exactly as written on placard: _____

Further Actions

Check the boxes below only if further actions are needed.

☐ Barricades needed in the following areas: _____

☐ Engineering Evaluation recommended: ☐ Structural ☐ Geotechnical ☐ Other: _____

☐ Other recommendations: _____

Comments: _____

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ATC-20 Detailed Evaluation Safety Assessment Form

Inspection

Inspector ID: David Bentti

Affiliation: PND Engineers

Inspection date and time: 4 Dec 2018 ☐ AM ☐ PM

Final Posting
from page 2

- ☑ Inspected
- ☐ Restricted Use
- ☐ Unsafe

Building Description

Building name: Valley Pathways

Address: 1150 France Rd, Palmer, AK 99645

Building contact/phone: _____

Number of stories above ground: 2 below ground: _____

Approx. "Footprint area" (square feet): _____

Number of residential units: _____

Number of residential units not habitable: _____

Type of Construction

- ☐ Wood frame
- ☑ Steel frame
- ☐ Tilt-up concrete
- ☐ Concrete frame
- ☐ Concrete shear wall
- ☐ Unreinforced masonry
- ☐ Reinforced masonry
- ☐ Other: _____

Primary Occupancy

- ☐ Dwelling
- ☐ Other residential
- ☐ Public assembly
- ☐ Emergency services
- ☐ Commercial
- ☐ Offices
- ☐ Industrial
- ☐ Other: _____
- ☐ Government
- ☐ Historic
- ☑ School

Evaluation

Investigate the building for the conditions below and check the appropriate column. There is room on the second page for a sketch.

	Minor/None	Moderate	Severe	Comments
Overall hazards:				
Collapse or partial collapse	☐	☐	☐	
Building or story leaning	☐	☐	☐	
Other _____	☐	☐	☐	
Structural hazards:				
Foundations	☐	☐	☐	
Roofs, floors (vertical loads)	☐	☐	☐	
Columns, pilasters, corbels	☐	☐	☐	
Diaphragms, horizontal bracing	☐	☐	☐	
Walls, vertical bracing	☐	☐	☐	
Precast connections	☐	☐	☐	
Other _____	☐	☐	☐	
Nonstructural hazards:				
Parapets, ornamentation	☐	☐	☐	
Cladding, glazing	☐	☐	☐	
Ceilings, light fixtures	☐	☐	☐	
Interior walls, partitions	☐	☐	☐	
Elevators	☐	☐	☐	
Stairs, exits	☐	☐	☐	
Electric, gas	☐	☐	☐	
Other _____	☐	☐	☐	
Geotechnical hazards:				
Slope failure, debris	☐	☐	☐	
Ground movement, fissures	☐	☐	☐	
Other _____	☐	☐	☐	

General Comments: No Damage

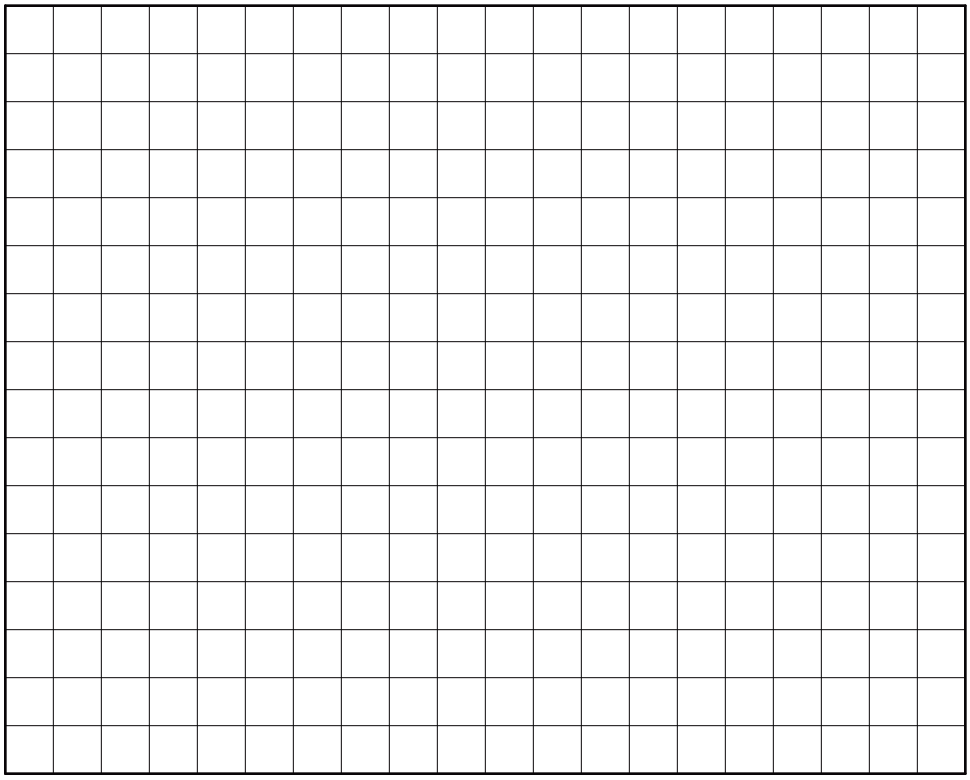
Continue on page 2

ATC-20 Detailed Evaluation Safety Assessment Form — Page 2

Building name: Valley Pathways Inspector ID: David Bentti

Sketch (optional)

Provide a sketch of the building or damaged portions. Indicate damage points.



Estimated Building Damage

If requested by the jurisdiction, estimate building damage (repair cost ÷ replacement cost, excluding contents).

- ☑ None
- ☐ 0–1%
- ☐ 1–10%
- ☐ 10–30%
- ☐ 30–60%
- ☐ 60–100%
- ☐ 100%

Posting

If there is an existing posting from a previous evaluation, check the appropriate box.

Previous posting: ☐ INSPECTED ☐ RESTRICTED USE ☐ UNSAFE Inspector ID: _____ Date: _____

If necessary, revise the posting based on the new evaluation and team judgment. *Severe* conditions endangering the overall building are grounds for an Unsafe posting. Local *Severe* and overall *Moderate* conditions may allow a Restricted Use posting. Indicate the current posting below and at the top of page one.

☑ **INSPECTED** (Green placard) ☐ **RESTRICTED USE** (Yellow placard) ☐ **UNSAFE** (Red placard)

Record any use and entry restrictions exactly as written on placard: _____

Further Actions

Check the boxes below only if further actions are needed.

☐ Barricades needed in the following areas: _____

☐ Engineering Evaluation recommended: ☐ Structural ☐ Geotechnical ☐ Other: _____

☐ Other recommendations: _____

Comments: _____

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ATC-20 Detailed Evaluation Safety Assessment Form

Inspection

Inspector ID: Charles Kenley

Affiliation: PND Engineers

Inspection date and time: 3 Dec 2018 ☐ AM ☐ PM

Final Posting
from page 2

- ☑ Inspected
- ☐ Restricted Use
- ☐ Unsafe

Building Description

Building name: Wasilla High School

Address: 701 E Bogard Rd, Wasilla, AK 99654

Building contact/phone: _____

Number of stories above ground: 2 below ground: _____

Approx. "Footprint area" (square feet): _____

Number of residential units: _____

Number of residential units not habitable: _____

Type of Construction

- ☐ Wood frame
- ☑ Steel frame
- ☐ Tilt-up concrete
- ☐ Concrete frame
- ☐ Concrete shear wall
- ☐ Unreinforced masonry
- ☑ Reinforced masonry
- ☐ Other: _____

Primary Occupancy

- ☐ Dwelling
- ☐ Other residential
- ☐ Public assembly
- ☐ Emergency services
- ☐ Commercial
- ☐ Offices
- ☐ Industrial
- ☐ Other: _____
- ☐ Government
- ☐ Historic
- ☑ School

Evaluation

Investigate the building for the conditions below and check the appropriate column. There is room on the second page for a sketch.

	Minor/None	Moderate	Severe	Comments
Overall hazards:				
Collapse or partial collapse	☐	☐	☐	
Building or story leaning	☐	☐	☐	
Other _____	☐	☐	☐	
Structural hazards:				
Foundations	☐	☐	☐	
Roofs, floors (vertical loads)	☐	☐	☐	
Columns, pilasters, corbels	☐	☐	☐	
Diaphragms, horizontal bracing	☐	☐	☐	
Walls, vertical bracing	☐	☐	☐	
Precast connections	☐	☐	☐	
Other _____	☐	☐	☐	
Nonstructural hazards:				
Parapets, ornamentation	☐	☐	☐	
Cladding, glazing	☐	☐	☐	
Ceilings, light fixtures	☐	☐	☐	
Interior walls, partitions	☑	☐	☐	Hairline cracks in around windows in second story classrooms
Elevators	☐	☐	☐	Hairline cracks in stucco in weight room
Stairs, exits	☐	☐	☐	
Electric, gas	☐	☐	☐	
Other _____	☐	☐	☐	
Geotechnical hazards:				
Slope failure, debris	☐	☐	☐	
Ground movement, fissures	☐	☐	☐	
Other _____	☐	☐	☐	

General Comments: _____

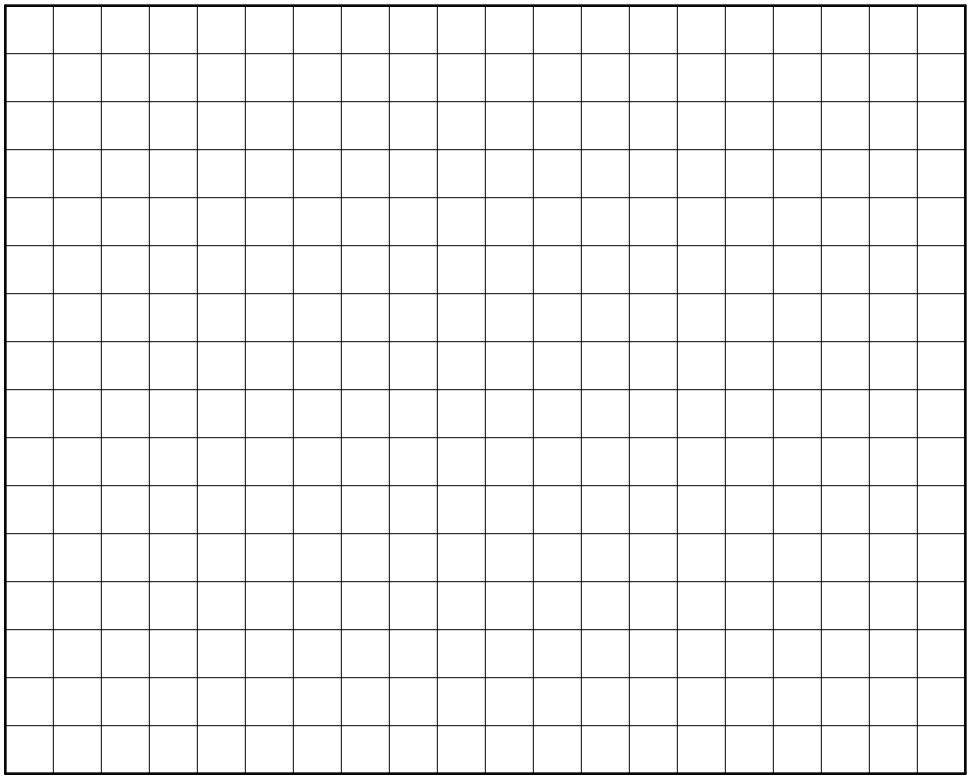
Continue on page 2

ATC-20 Detailed Evaluation Safety Assessment Form — Page 2

Building name: Wasilla High School Inspector ID: Charles Kenley

Sketch (optional)

Provide a sketch of the building or damaged portions. Indicate damage points.



Estimated Building Damage

If requested by the jurisdiction, estimate building damage (repair cost ÷ replacement cost, excluding contents).

- ☑ None
- ☐ 0–1%
- ☐ 1–10%
- ☐ 10–30%
- ☐ 30–60%
- ☐ 60–100%
- ☐ 100%

Posting

If there is an existing posting from a previous evaluation, check the appropriate box.

Previous posting: ☐ INSPECTED ☐ RESTRICTED USE ☐ UNSAFE Inspector ID: _____ Date: _____

If necessary, revise the posting based on the new evaluation and team judgment. *Severe* conditions endangering the overall building are grounds for an Unsafe posting. Local *Severe* and overall *Moderate* conditions may allow a Restricted Use posting. Indicate the current posting below and at the top of page one.

☑ **INSPECTED** (Green placard) ☐ **RESTRICTED USE** (Yellow placard) ☐ **UNSAFE** (Red placard)

Record any use and entry restrictions exactly as written on placard: _____

Further Actions

Check the boxes below only if further actions are needed.

☐ Barricades needed in the following areas: _____

☐ Engineering Evaluation recommended: ☐ Structural ☐ Geotechnical ☐ Other: _____

☐ Other recommendations: _____

Comments: _____

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ATC-20 Detailed Evaluation Safety Assessment Form

Inspection

Inspector ID: Charles Kenley and David Bentti

Affiliation: PND Engineers

Inspection date and time: 3 Dec 2018 ☐ AM ☐ PM

Final Posting
from page 2

- ☑ Inspected
- ☐ Restricted Use
- ☐ Unsafe

Building Description

Building name: Wasilla Middle School

Address: 650 E Bogard Rd, Wasilla, AK 99654

Building contact/phone: _____

Number of stories above ground: 2 below ground: _____

Approx. "Footprint area" (square feet): _____

Number of residential units: _____

Number of residential units not habitable: _____

Type of Construction

- ☐ Wood frame
- ☑ Steel frame
- ☐ Tilt-up concrete
- ☐ Concrete frame
- ☐ Concrete shear wall
- ☐ Unreinforced masonry
- ☑ Reinforced masonry
- ☐ Other: _____

Primary Occupancy

- ☐ Dwelling
- ☐ Other residential
- ☐ Public assembly
- ☐ Emergency services
- ☐ Commercial
- ☐ Offices
- ☐ Industrial
- ☐ Other: _____
- ☐ Government
- ☐ Historic
- ☐ School

Evaluation

Investigate the building for the conditions below and check the appropriate column. There is room on the second page for a sketch.

	Minor/None	Moderate	Severe	Comments
Overall hazards:				
Collapse or partial collapse	☐	☐	☐	
Building or story leaning	☐	☐	☐	
Other _____	☐	☐	☐	
Structural hazards:				
Foundations	☐	☐	☐	
Roofs, floors (vertical loads)	☐	☐	☐	
Columns, pilasters, corbels	☐	☐	☐	
Diaphragms, horizontal bracing	☐	☐	☐	
Walls, vertical bracing	☐	☐	☐	
Precast connections	☐	☐	☐	
Other _____	☐	☐	☐	
Nonstructural hazards:				
Parapets, ornamentation	☐	☐	☐	
Cladding, glazing	☐	☐	☐	
Ceilings, light fixtures	☐	☐	☐	
Interior walls, partitions	☐	☑	☐	Crack in CMU wall
Elevators	☐	☐	☐	
Stairs, exits	☐	☐	☐	
Electric, gas	☐	☐	☐	
Other Architectural CMU Piers	☐	☐	☐	Not structurally tied to CMU wall
Geotechnical hazards:				
Slope failure, debris	☐	☐	☐	
Ground movement, fissures	☐	☐	☐	
Other _____	☐	☐	☐	

General Comments: _____

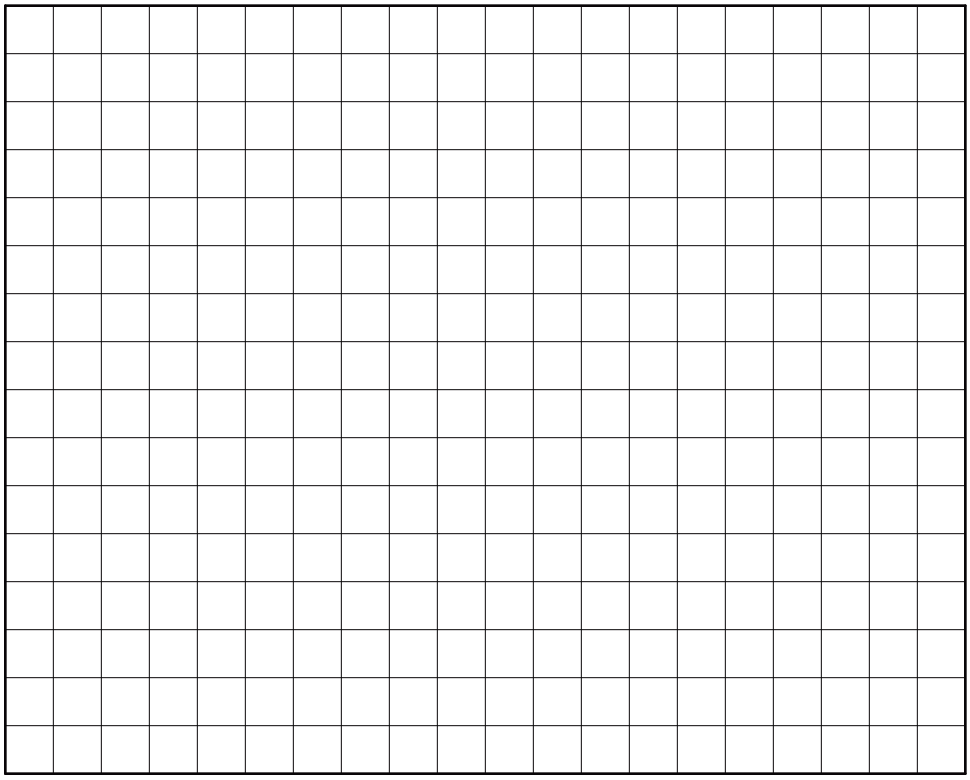
Continue on page 2

ATC-20 Detailed Evaluation Safety Assessment Form — Page 2

Building name: Wasilla Middle School Inspector ID: Charles Kenley and David Bentti

Sketch (optional)

Provide a sketch of the building or damaged portions. Indicate damage points.



Estimated Building Damage

If requested by the jurisdiction, estimate building damage (repair cost ÷ replacement cost, excluding contents).

- ☐ None
- ☑ 0–1%
- ☐ 1–10%
- ☐ 10–30%
- ☐ 30–60%
- ☐ 60–100%
- ☐ 100%

Posting

If there is an existing posting from a previous evaluation, check the appropriate box.

Previous posting: ☐ INSPECTED ☐ RESTRICTED USE ☐ UNSAFE Inspector ID: _____ Date: _____

If necessary, revise the posting based on the new evaluation and team judgment. *Severe* conditions endangering the overall building are grounds for an Unsafe posting. Local *Severe* and overall *Moderate* conditions may allow a Restricted Use posting. Indicate the current posting below and at the top of page one.

☑ **INSPECTED** (Green placard) ☐ **RESTRICTED USE** (Yellow placard) ☐ **UNSAFE** (Red placard)

Record any use and entry restrictions exactly as written on placard: _____

Further Actions

Check the boxes below only if further actions are needed.

☐ Barricades needed in the following areas: _____

☐ Engineering Evaluation recommended: ☐ Structural ☐ Geotechnical ☐ Other: _____

☐ Other recommendations: _____

Comments: _____

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ATC-20 Detailed Evaluation Safety Assessment Form

Inspection

Inspector ID: Charles Kenley S.E.

Affiliation: PND Engineers

Inspection date and time: 30 Nov 2018 ☑ AM ☐ PM

Final Posting
from page 2

- ☐ Inspected
- ☑ Restricted Use
- ☐ Unsafe

Building Description

Building name: Colony High School

Address: 9550 E Bogard Rd, Palmer, AK 99645

Building contact/phone:

Number of stories above ground: 2 below ground:

Approx. "Footprint area" (square feet): 180,000

Number of residential units:

Number of residential units not habitable:

Type of Construction

- ☐ Wood frame
- ☑ Steel frame
- ☐ Tilt-up concrete
- ☐ Concrete frame
- ☐ Concrete shear wall
- ☐ Unreinforced masonry
- ☑ Reinforced masonry
- ☐ Other:

Primary Occupancy

- ☐ Dwelling
- ☐ Other residential
- ☐ Public assembly
- ☐ Emergency services
- ☐ Commercial
- ☐ Offices
- ☐ Industrial
- ☐ Other:
- ☐ Government
- ☐ Historic
- ☑ School

Evaluation

Investigate the building for the conditions below and check the appropriate column. There is room on the second page for a sketch.

	Minor/None	Moderate	Severe	Comments
Overall hazards:				
Collapse or partial collapse	☐	☐	☐	
Building or story leaning	☐	☐	☐	
Other	☐	☐	☐	
Structural hazards:				
Foundations	☐	☐	☐	
Roofs, floors (vertical loads)	☐	☐	☐	
Columns, pilasters, corbels	☐	☐	☐	
Diaphragms, horizontal bracing	☐	☐	☐	
Walls, vertical bracing	☑	☐	☐	Minor CMU cracking in structural walls. Stack bond masonry.
Precast connections	☐	☐	☐	
Other	☐	☐	☐	
Nonstructural hazards:				
Parapets, ornamentation	☐	☐	☐	
Cladding, glazing	☐	☐	☐	
Ceilings, light fixtures	☐	☐	☐	
Interior walls, partitions	☐	☐	☑	Non-Bearing CMU wall damage, see written report.
Elevators	☐	☐	☐	
Stairs, exits	☐	☐	☑	Non-Bearing CMU wall damage, see written report.
Electric, gas	☐	☐	☐	
Other	☐	☐	☐	
Geotechnical hazards:				
Slope failure, debris	☐	☐	☐	
Ground movement, fissures	☐	☐	☐	
Other	☐	☐	☐	

General Comments: See written report with photos and sketches.

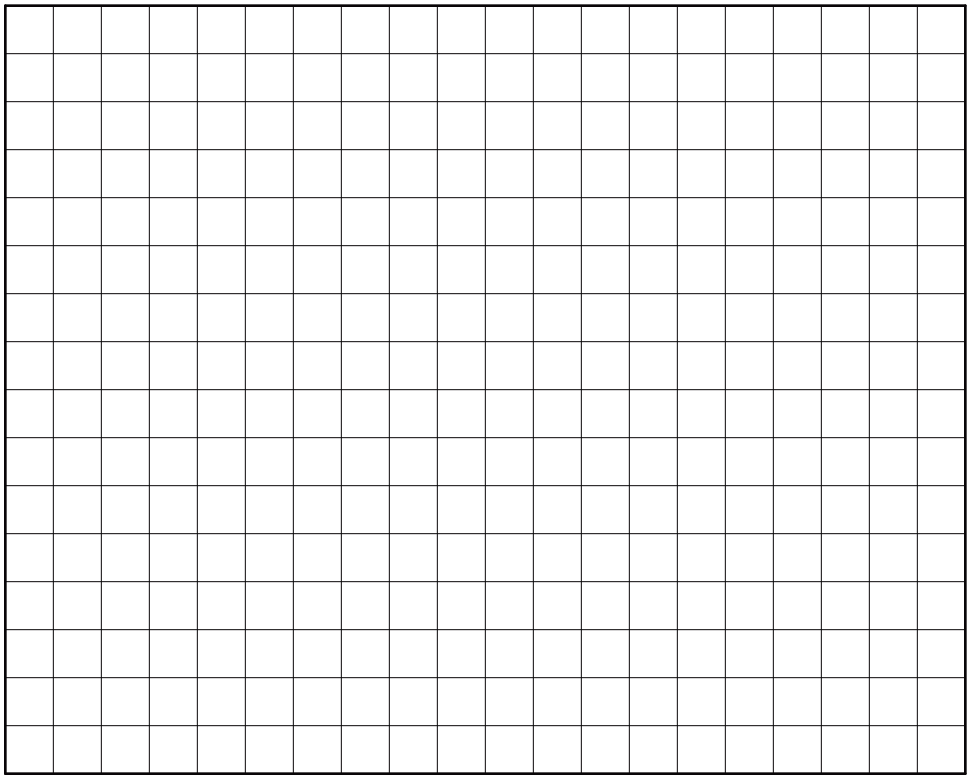
Continue on page 2

ATC-20 Detailed Evaluation Safety Assessment Form — Page 2

Building name: Colony High School Inspector ID: Charles Kenley S.E.

Sketch (optional)

Provide a sketch of the building or damaged portions. Indicate damage points.



Estimated Building Damage

If requested by the jurisdiction, estimate building damage (repair cost ÷ replacement cost, excluding contents).

- ☐ None
- ☑ 0–1%
- ☐ 1–10%
- ☐ 10–30%
- ☐ 30–60%
- ☐ 60–100%
- ☐ 100%

Posting

If there is an existing posting from a previous evaluation, check the appropriate box.

Previous posting: ☐ INSPECTED ☐ RESTRICTED USE ☐ UNSAFE Inspector ID: _____ Date: _____

If necessary, revise the posting based on the new evaluation and team judgment. *Severe* conditions endangering the overall building are grounds for an Unsafe posting. Local *Severe* and overall *Moderate* conditions may allow a Restricted Use posting. Indicate the current posting below and at the top of page one.

☐ **INSPECTED** (Green placard) ☑ **RESTRICTED USE** (Yellow placard) ☐ **UNSAFE** (Red placard)

Record any use and entry restrictions exactly as written on placard: _____

Further Actions

Check the boxes below only if further actions are needed.

☑ Barricades needed in the following areas: Gynasium and North-East Stair

☐ Engineering Evaluation recommended: ☐ Structural ☐ Geotechnical ☐ Other: _____

☑ Other recommendations: Architect to be retained for repairs on non-bearing CMU Walls.

Comments: See written report

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Appendix C

Colony High Report

P | N | D
ENGINEERS, INC.

December 18, 2018 181194

Antonio Weese
Facilities Capital Planning & Construction Manager
Matanuska-Susitna Borough School District
3901 E Bogard Rd, Wasilla AK 99654

Subject: Post-Earthquake Structural Evaluation of Colony High School

Mr. Weese:

Over the course of the week after the November 30 earthquake, PND has made several inspections of the earthquake damage at the Colony High School. This evaluation report will quantify the known damage and give guidance on recommended repairs and occupancy of the building. The discovered damage was limited mainly to architectural finishes, mechanical ducts, and non-bearing concrete masonry unit (CMU) walls in the gymnasium area. The attached original plan sheets (Fig. 1) of the gymnasium show affected CMU walls highlighted in yellow. The damage can generally be categorized as follows:

1. Damage to the north interior face of the exterior wall of the gym at the running track level. This damage consists of spalling of the interior face shell of the 6" CMU particularly at vertical steel column locations next to windows. These CMU walls are partial-height up to the top of the windows. The walls are non-bearing and do not participate in the lateral load resisting system of the building. The primary purpose of the masonry was to provide a hard interior wall surface at the running track. The walls are stack bond masonry with vertical bars at a spacing of 48" oc.
2. Falling block from a non-bearing CMU partition wall in the Stair "A" (north east corner of gym). This wall is 30-ft tall and only a short length of wall extends to the foundation. The wall is a non-bearing partition which encloses a duct space east of the stair. The top of the wall is not connected to the roof structure and has no restraint perpendicular to the wall. There are two steel braces at the floor level that provide some lateral restraint for the wall (see section). CMU that were placed at the top of the wall between steel roof beams had no grout and no reinforcing and were dislodged during the shaking. Some of these blocks fell onto the stairs. Sheet S6.1/detail 12 of the original drawings showed a restraint connection to be used for the top of the all non-bearing walls. This connection was not installed at this wall. Also attached is a sketch of the wall in relation to the stair (See Fig. 2).

The attached photographs document the damage to the CMU partition walls.

Occupancy
The unsupported east wall of Stair A constitutes a hazardous situation. PND recommends mitigating efforts to make the stair safe before occupancy is allowed. PND also recommends repairs to the damaged running track wall. Until such time as those repairs are complete, the School District should restrict access to the gymnasium, Stair "A", and the small archery room below the stair to construction personnel only. These areas should be closed to students and school staff.

Recommendations
PND recommends the following mitigation measure be taken at Colony High.

Stair "A" East Wall
The unsupported east wall of Stair "A" constitutes a hazardous situation and should be mitigated. The wall is a non-bearing partition made of 8" CMU and 30-ft in height. The weight of CMU wall makes it very difficult to restrain the wall under lateral out-of-plane seismic forces. CMU was used only for the durability of its hard surface. The wall should be removed and replaced with an 8" steel stud wall with drywall finish. An architect should be consulted for details of the replacement.

North Running track CMU wall
The north running track wall on the second level should be removed or repaired. The wall is a non-bearing interior wall surface made of 6" CMU. It could not be determined if the wall is adequately connected and laterally restrained at the top to a steel girt. Wall damage and displacements indicate it was not. CMU was used only for the durability of its hard surface. The wall should be remove and replaced with a 6" steel stud wall with drywall finish. An architect should be consulted for details of the replacement.

PND has met with Mat-Su Borough Project Manager Jeff Walden and will continue to support his efforts in making the necessary repairs.

If there are any questions regarding this report, please do not hesitate to contact us.

Sincerely,
PND Engineers, Inc. | Anchorage Office



F. Charles Kenley, P.E., S. E.
Vice President
PND Engineers, Inc

PHOTOS



Photo 1 – Gymnasium Stairwell



Photo 2 – Running Track Wall

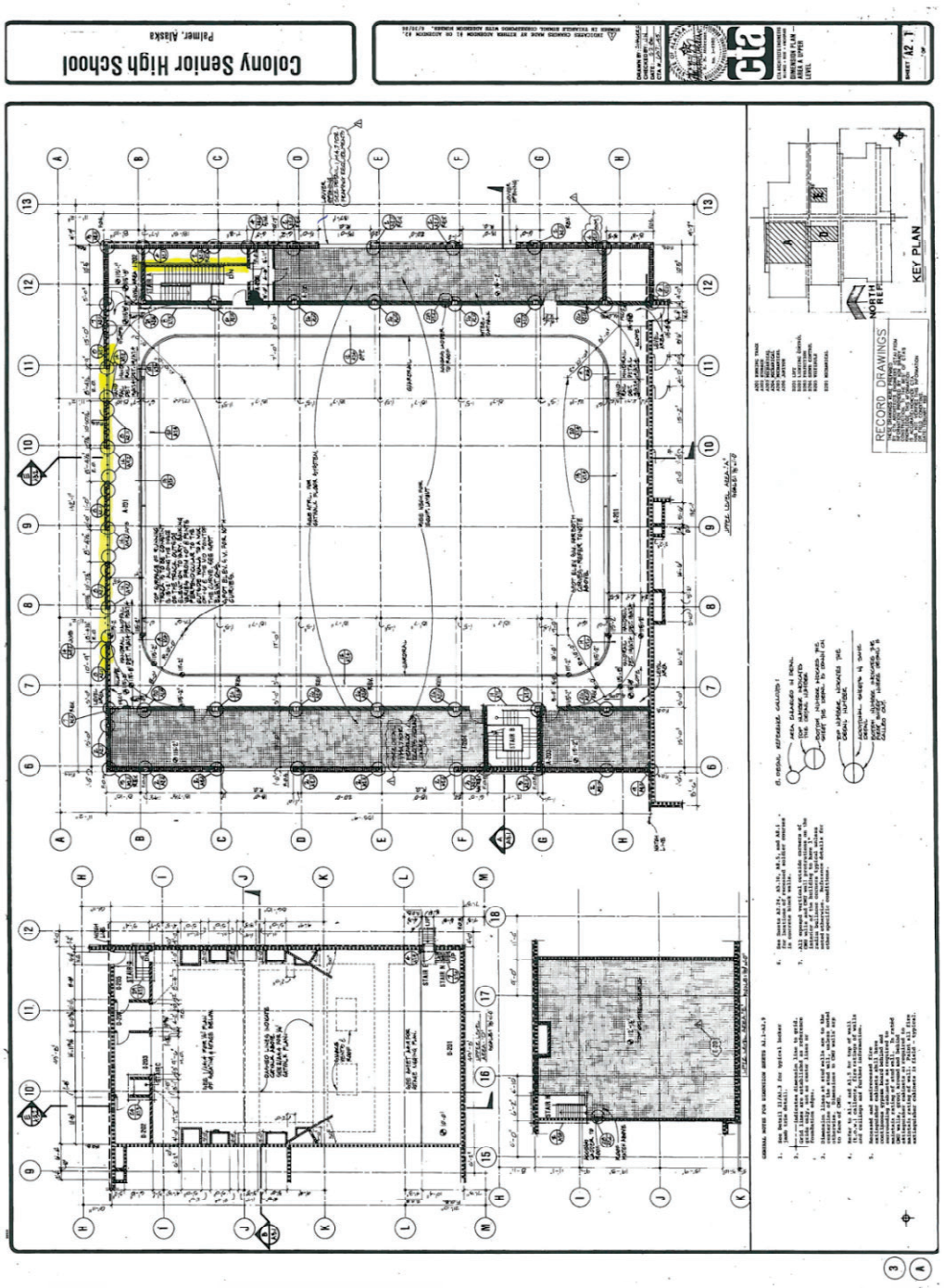


Fig. 1 - Gymnasium Plan Highlighting Damaged CMU Walls

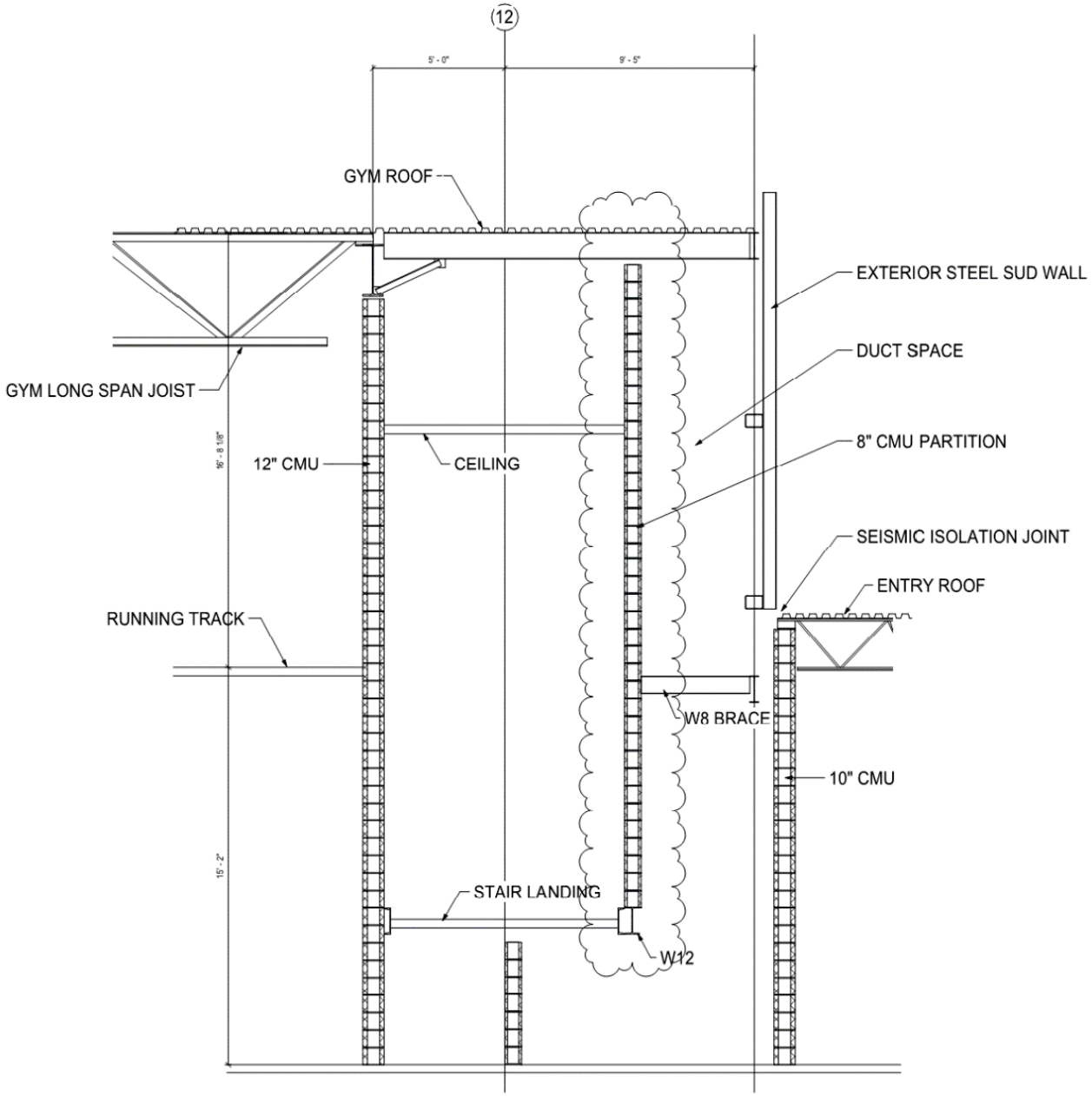


Fig. 2 – Section at Stairwell Showing Unsupported CMU Wall

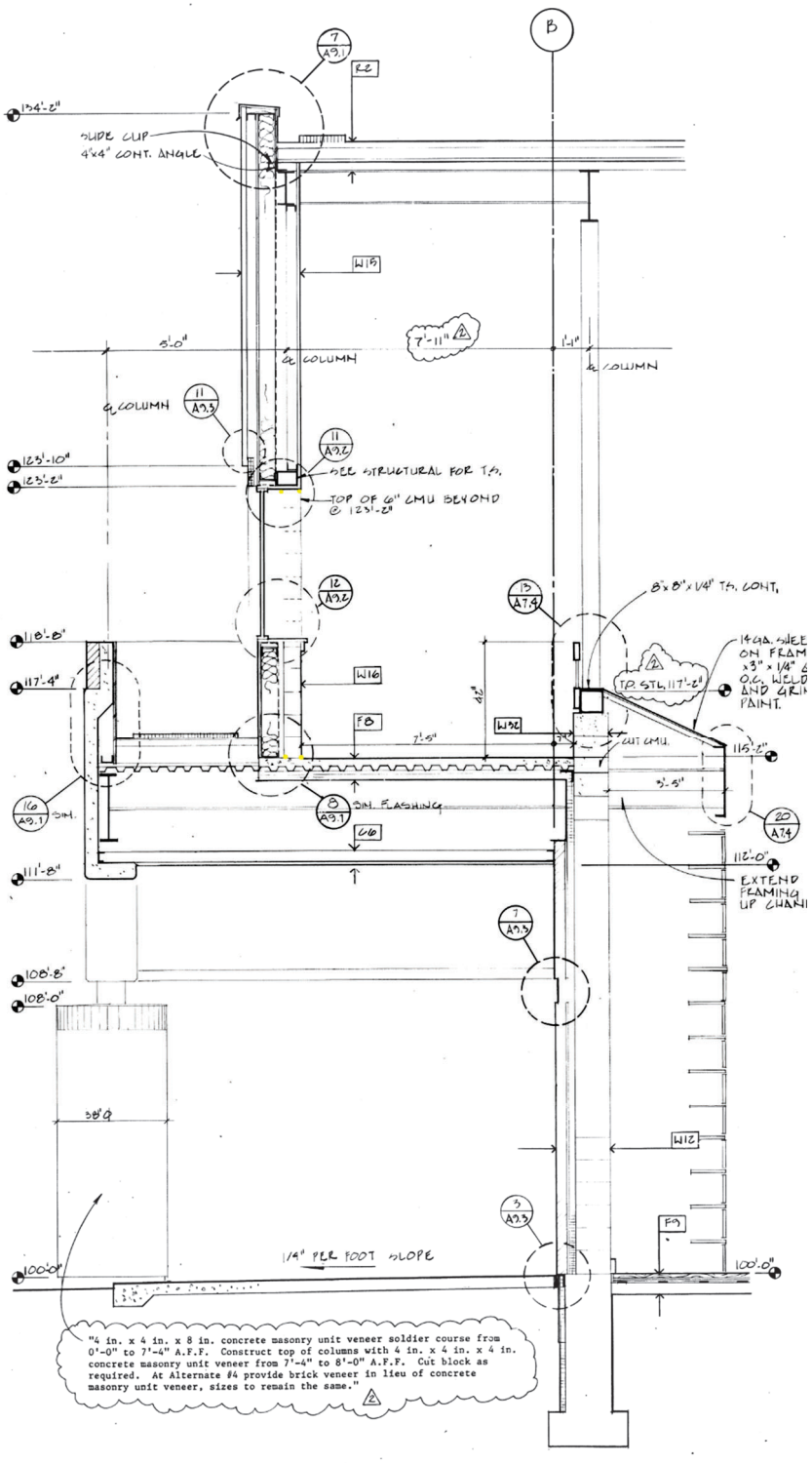


Fig. 3 – Section at Running Track Wall

Appendix D

Huston Middle School Report

December 18, 2018 181194

Antonio Weese
Facilities Capital Planning & Construction Manager
Matanuska-Susitna Borough School District
3901 E Bogard Rd, Wasilla AK 99654

Subject: Post-Earthquake Structural Evaluation of Huston Middle School

Mr. Weese:

Over the course of the week after the November 30 earthquake, PND has made several inspections of the earthquake damage at the Huston Middle School. This evaluation report will quantify the known damage and give guidance on further work to recommended repairs and occupancy of the building. The discovered damage was wide spread but especially acute in the second story of the classroom wing. Concrete masonry unit (CMU) walls exhibited the most damage.

The damage can be classified into the following categories.

- Damage to Concrete Masonry Unit (CMU) non-structural walls.
- Damage to CMU structural walls and connections due to lack of sufficient grouting and reinforcing.
- Damage to CMU structural walls and connections due to out-of-plane movement of the wall.
- Damage to connections between the wood roof diaphragm and CMU shear walls.

The damage can be attributed to both poor design and construction errors and deficiencies.

The school is divided into three distinct structures isolated by seismic joints. To the north is a single story Gymnasium with a mezzanine for the wresting area. To the south is a two-story classroom wing. Between and connection these two structures is the single story cafeteria, shop and administration.
It is important to note that most of the damage occurred in the upper level of the two-story classroom wing where CMU walls are tallest and lateral support to the walls is provided by a flexible wood diaphragm.

Description of Structural Damage
Gymnasium:
The gymnasium structure is a complete steel frame carrying vertical loads from the roof. Exterior CMU walls serve as shear walls to resist lateral loads. Interior CMU walls act as load bearing walls to support a mezzanine above the locker area. Damage in the gymnasium is concentrated in the tall CMU wall that separates the gym from the

wrestling area. The wall performs as a load bearing wall for the mezzanine, but functions as a non-bearing partition from the mezzanine to the roof. Damage to the wall occurs at the interface between the steel roof structure and the top of the wall. It is evident that the steel structure was erected first, and that the masonry was laid up under the steel framing. This construction phasing between different trades is problematic. Placing CMU beneath steel framing makes is almost impossible to reinforce and grout cells as this must be done from above. Photos of this areas show ungrouted and unreinforced CMU place around steel members that were cracked and dislodged during the shaking. These loose block constitute a hazard to occupants of the building.
Some vertical cracking is observed on the exterior CMU walls of the gymnasium due to the vertical mortar joints in the stack bond pattern.
There was at least on steel bolt failure in the steel roof structure. The roof relies on diagonal steel bracing rather than the wood roof diaphragm. At least one bolt failed in the connection at the end of a brace.

Administration/Cafeteria/Shop:
The single story structure which houses the administrative offices, cafeteria and industrial shops sustained similar types of damage to the gymnasium. This structure is a mixture of both sloping wood framed roof with 2x12 rafters and a central area consisting of flat steel roof deck supported on open-web-steel joists. The roof is supported primarily by steel beams bearing on CMU bearing walls and steel tube columns. This is an odd mixture due to the combination of both flat and sloping roofs.

CMU walls also serve as shear walls to resist lateral loads. Damage in the cafeteria and shop areas is concentrated in the tops of tall CMU walls. Damage to theses bearing and non-bearing walls occurs at the interface between the steel roof structure and the top of the wall. Again, it is evident that the steel structure was erected first, and that the masonry was laid up under the steel framing. Placing CMU beneath steel framing makes is impossible to reinforce and grout cells as this must be done from above. Photos of this areas show ungrouted and unreinforced CMU place around steel members that were cracked and dislodged during the shaking. These loose block constitute a hazard to occupants of the building.

Some vertical cracking is observed on the exterior CMU walls of the shop due to the vertical mortar joints in the stack bond pattern. Mortar joint cracking is evident in the cafeteria.

Classroom Wing:
The two story structure which houses the classrooms sustained the most damage. The structure type is primarily a CMU bearing wall with steel framed floors supporting concrete slab on steel deck. The roof is of wood constructions with sloping 2x12 rafters and plywood sheathing. Steel beams are used in the roof above the classrooms to a support the rafters between the outside walls and the corridor walls. In most cases, these beams bear directly on the CMU walls in beam pockets. Due to the pitched roof the corridor CMU walls are up to 20-ft tall.

Damage to non-structural CMU Walls: The photos document a substantial amount of damage to non-structural CMU partitions at the door alcoves. These alcoves extend only to the suspended ceiling and are penetrated by two door openings. The damage to these alcoves is almost universal throughout the second floor. Many of these walls will have to be completely demolished and replaced.

Damage to CMU structural walls due to lack of sufficient grouting and reinforcing:
Mortar joints in structural walls are cracked. This occurs in the lower level tall wall opposite the central stair and in a restroom wall. The primary cause is the wide spacing of reinforcing and grouted cells in the CMU walls. The spacing is indicated at 48" oc for both horizontal and vertical bars. This spacing is twice what would normally be used in modern designs. There is horizontal wire web reinforcing indicated at 16" oc in the mortar joints. This web reinforcing is no longer used and does little more than hold a block in place between the vertical grouted cells.

Damage to CMU structural walls and connections due to out-of-plane movement of the wall.
Out-of-plane movement of the tall CMU corridor walls could be seen when drywall was removed from the celling along the top of the wall. Scrap marks on the bottom of the roof rafters indicate the wall moved side to side about ¾" each way in relation to the wood roof. An examination of the construction details showed this connection was made up of nails only. The nailed connection could not have survived this kind of movement and should be assumed to be totally ineffective post-earthquake.

Beam pockets in the interior corridor walls for large W27 roof beams were heavily damaged as a result of differential lateral movement between the roof structure and the walls. Beam pockets consisted of two shear studs welded to the bearing plate and embedded in a grouted cell of the CMU. At least five of eight of these connections were destroyed and the remainder should be considered inadequate. Ungrouted CMU around these pockets also were damaged.

Damage to connections between the wood roof diaphragm and CMU shear walls.
The tops of transverse shear walls in the second story classrooms were also examined. Considerable construction errors were noted which resulted in the destruction of the connection to the wood roof diaphragm. No bond beam existed at the top of the wall and consequently Anchor bolts were not embedded into grout. Damage to non-grouted and non-reinforced CMU at the top of the wall was seen in two walls. the connection to the roof diaphragm for all transverse walls should be considered inadequate due to the construction errors.

The exterior pillars clad with CMU need farther investigation with a manlift to ensure that the structural portion of the pillar column and roof support beam connection has not been compromised. This investigation will also aid in determining how best to reattach the CMU veneer around the columns.

This report constitutes a preliminary evaluation damage to the Huston Middle School. Further investigation should be undertaken to determine all of the damage and the viability of structural repairs to the school.

See attached photos with notes for items observed during the November 30,2018 structural investigation.

PND has met with Mat-Su Borough Project Manager Jeff Walden and will continue to support his efforts in making the necessary repairs.

If there are any questions regarding this report, please do not hesitate to contact us.

Sincerely,
PND Engineers, Inc. | Palmer Office



F. Charles Kenley, P.E., S. E.
Vice President
PND Engineers, Inc

Inspection Photos

Hallway outside the music room

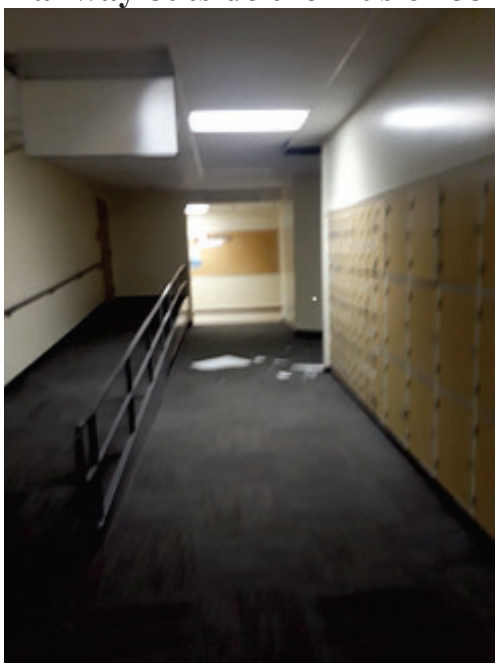


Photo 1
Unreinforced CMU Blocks fell off wall above in the mechanical room mezzanine



Photo 2
Unreinforced CMU Blocks fell off wall above in the mechanical room mezzanine

Mechanical mezzanine above hall adjacent to the music room

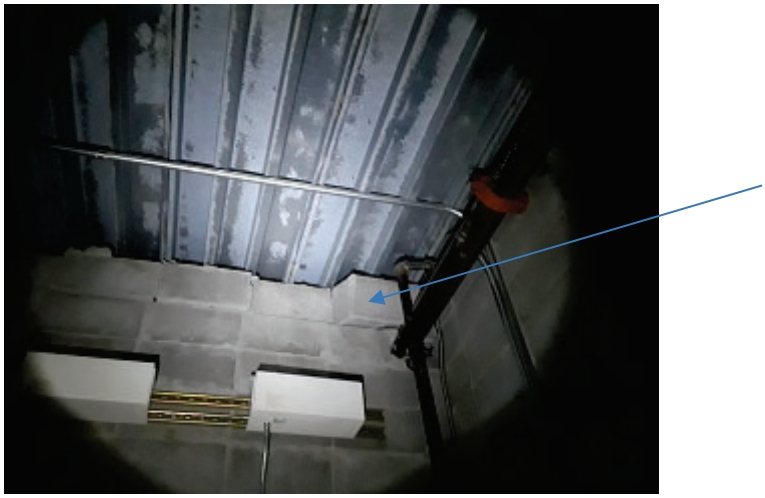


Photo 3
There are unreinforced CMU blocks that are not connected to the top of the CMU wall or braced by the roof decking. Several of the blocks have fallen off and down thru the ceiling tiles below



Photo 4
There were unreinforced CMU blocks at the corner of the wall that fell out and down through the ceiling below



Photo 5
There are unreinforced CMU blocks around the top of the brace that have fallen off and down through the ceiling tiles



Photo 6
There are unreinforced CMU blocks around the top of the brace that have fallen off and down through the ceiling tiles

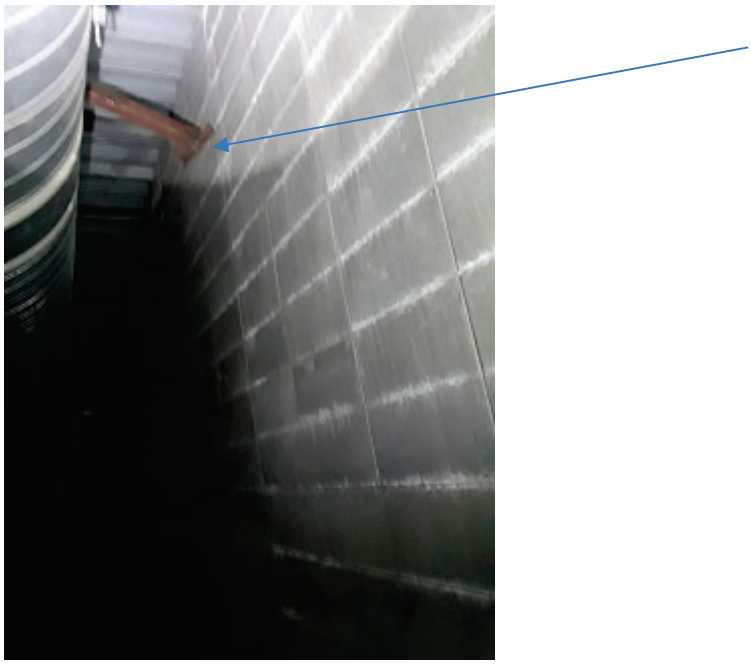


Photo 7
The ducting seismic bracing was never connected to the CMU Wall

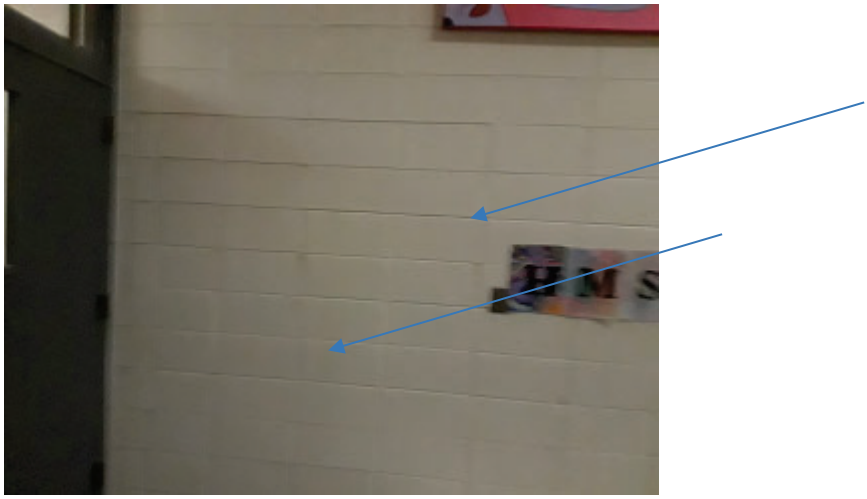


Photo 8
Hard to see in the photos, however there are many CMU walls in the structure that have been stressed high enough that the paint has fallen of the CMU joint mortar and or the blocks have shifted and joint mortar has broken out.

Damage in the GYM

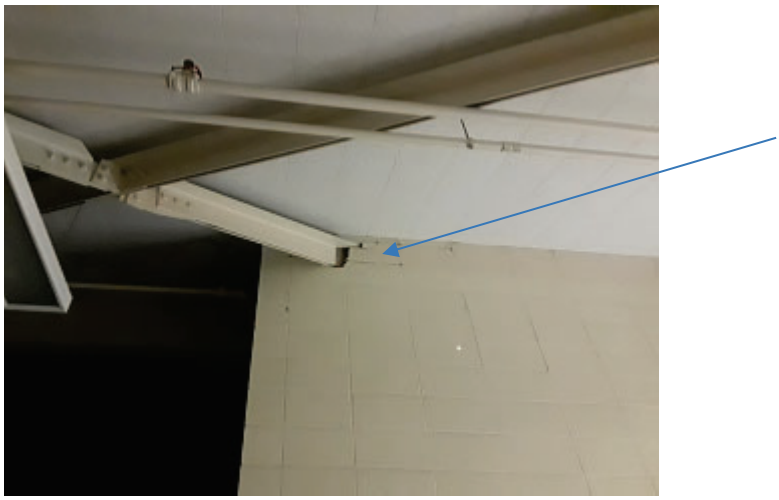


Photo 9
Unreinforced CMU around the roof bracing is loose or fallen out.



Photo 10
Unreinforced CMU around the roof bracing is loose or fallen out.

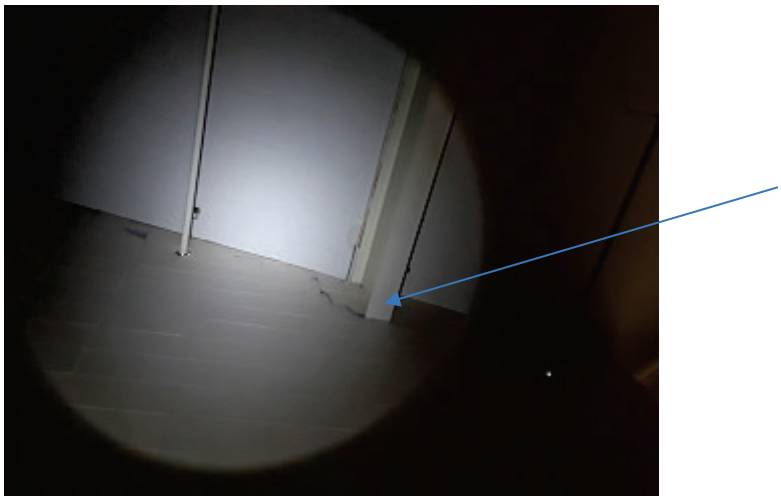


Photo 11
CMU around the roof beams has cracked

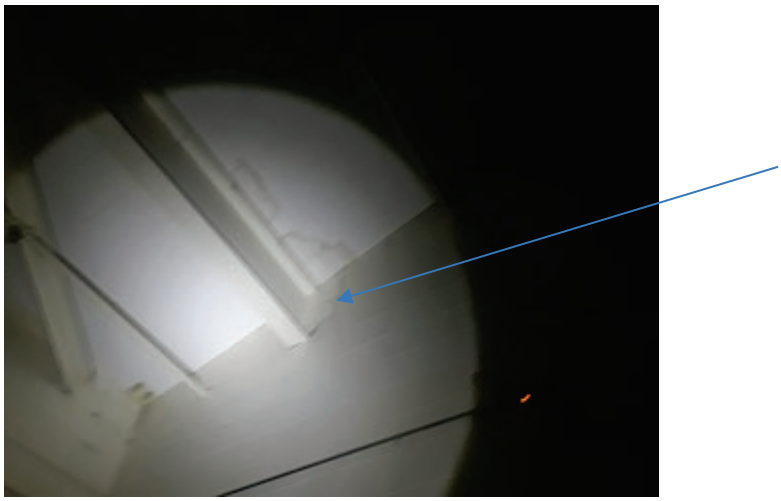


Photo 12
CMU around the roof beams has cracked.
Ceiling tiles have fallen off.

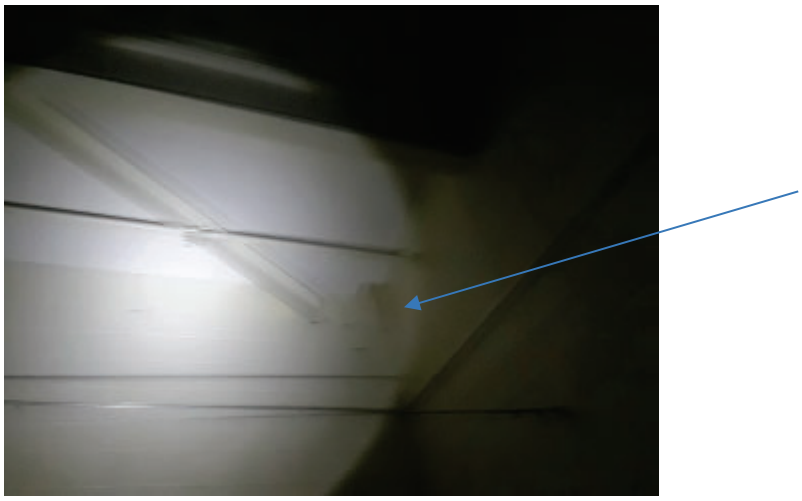


Photo 13
Unreinforced CMU around the roof bracing is loose or fallen out.

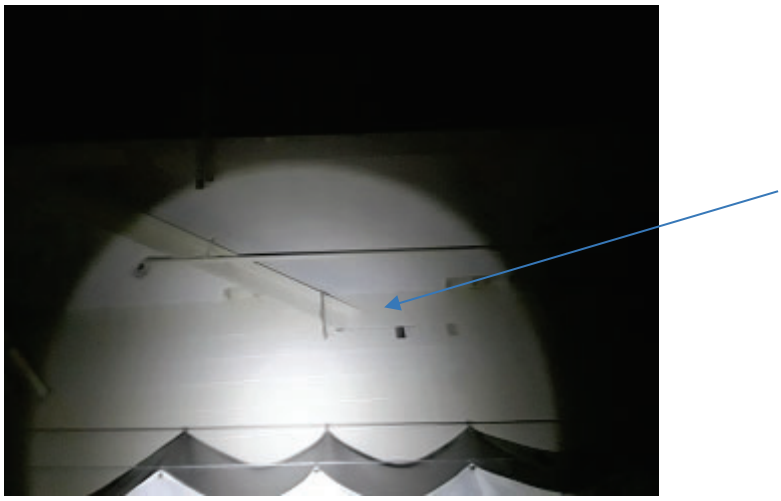


Photo 14
Unreinforced CMU around the roof bracing is loose or fallen out.



Photo 15
Sound system are loose and dangling. Several speakers have fallen to the floor.

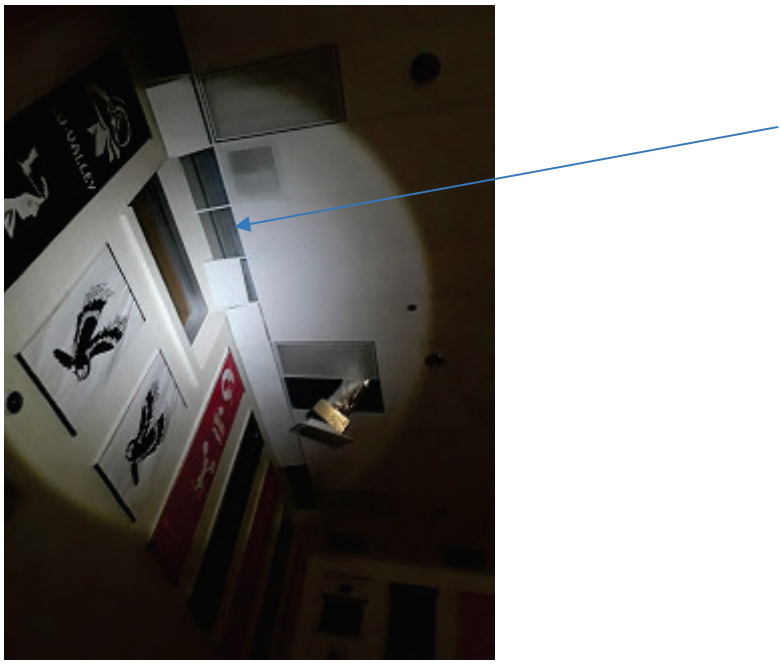


Photo 16
Lunch room ceiling tiles and ducting are damaged and or fallen to the floor.



Photo 17
Hard to see in the photos, however there are many CMU walls in the structure that have been stressed high enough that the paint has fallen of the CMU joint mortar and or the blocks have shifted and joint mortar has broken out.



Photo 18
Hard to see in the photos, however there are many CMU walls in the structure that have been stressed high enough that the paint has fallen of the CMU joint mortar and or the blocks have shifted and joint mortar has broken out.

Second Floor Class Room and Hallways

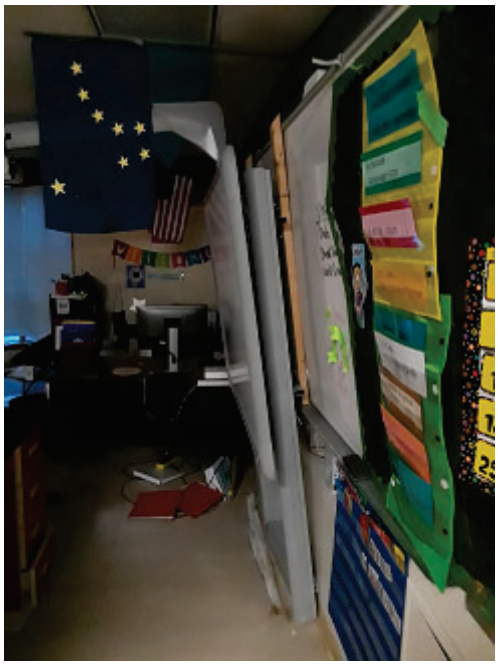


Photo 19
Promethean board top connection to wall have pulled out and is hanging from the power cord.

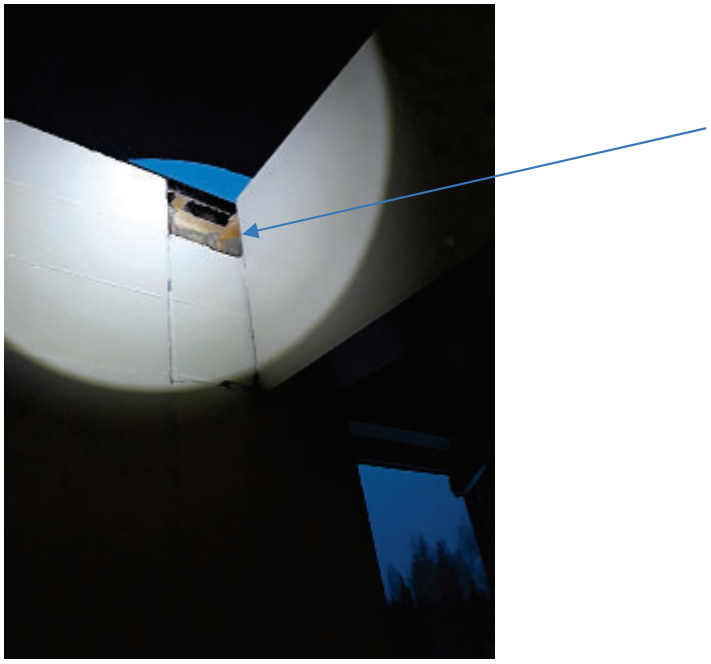


Photo 20
At each end of the hall there is beam spanning over the bench near the top of the stairs. The connection of the beam to the exterior walls are damaged.

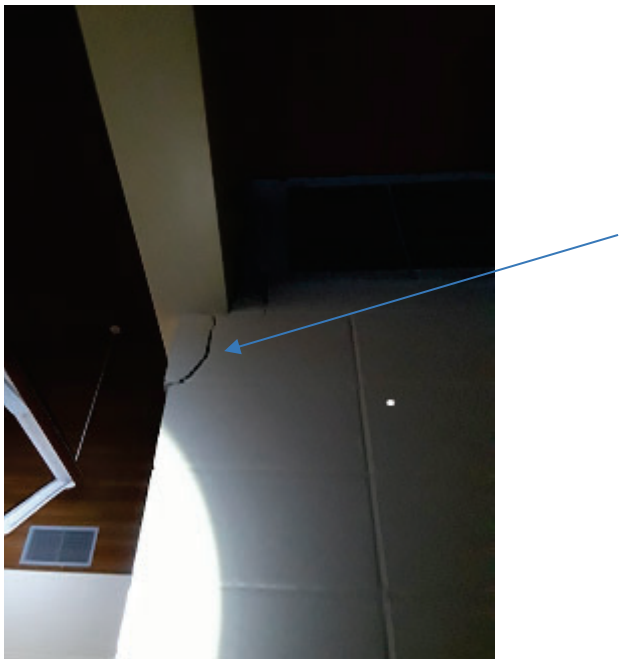


Photo 21
At each end of the hall there is beam spanning over the bench near the top of the stairs. The connection of the beam to the interior walls are damaged.

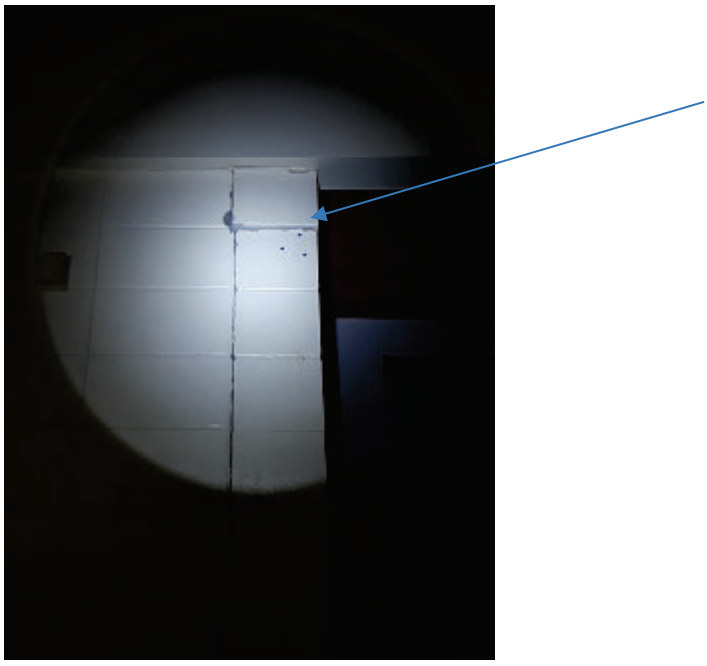


Photo 22
At each end of the hall there is beam spanning over the bench near the top of the stairs. The connection of the beam to the interior walls are damaged.

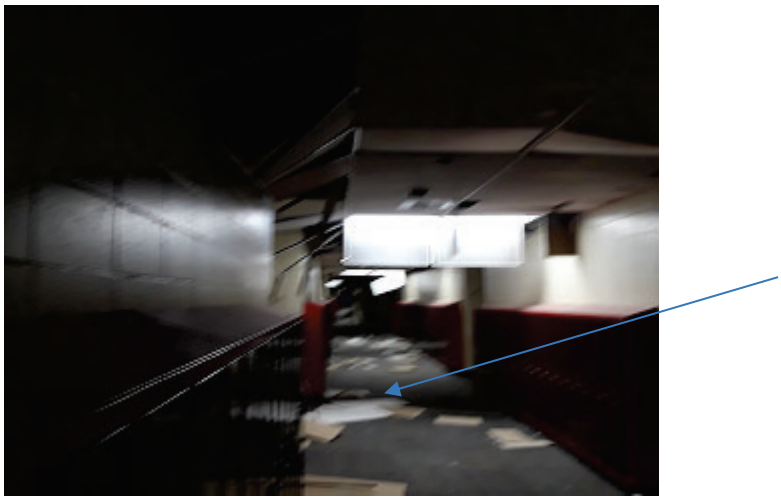


Photo 23
Ceiling tiles on second floor have fallen due to the movement of the structure.

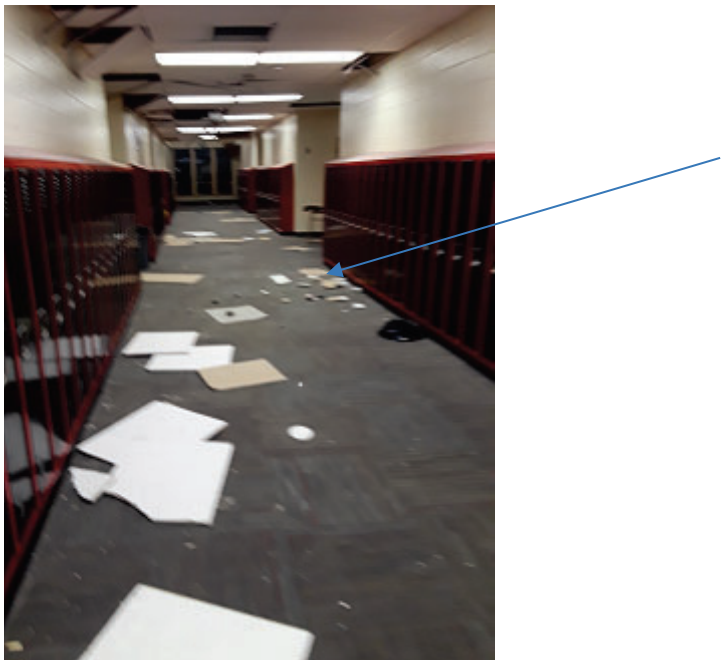


Photo 24
At every one of the roof support beam connection to the CMU wall, the beam connections have failed and or knocked the infill CMU blocks off. The sections of the loose blocks fell down and through the ceiling tiles.



Photo 25
At every one of the roof support beam connection to the CMU wall, the beam connections have failed and or knocked the infill CMU blocks off. The sections of the loose blocks fell down and through the ceiling tiles.

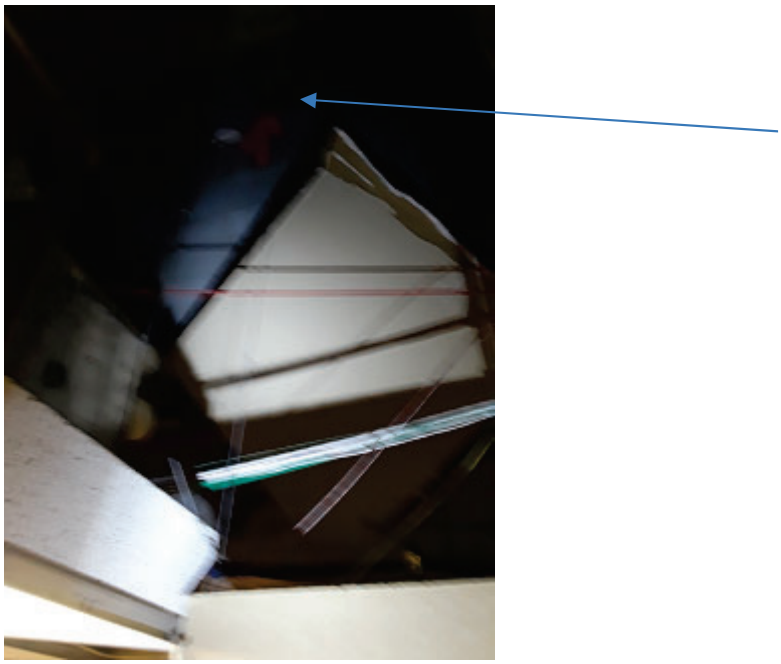


Photo 26
At every one of the roof support beam connection to the CMU wall, the beam connections have failed and or knocked the infill CMU blocks off. The sections of the loose blocks fell down and through the ceiling tiles.

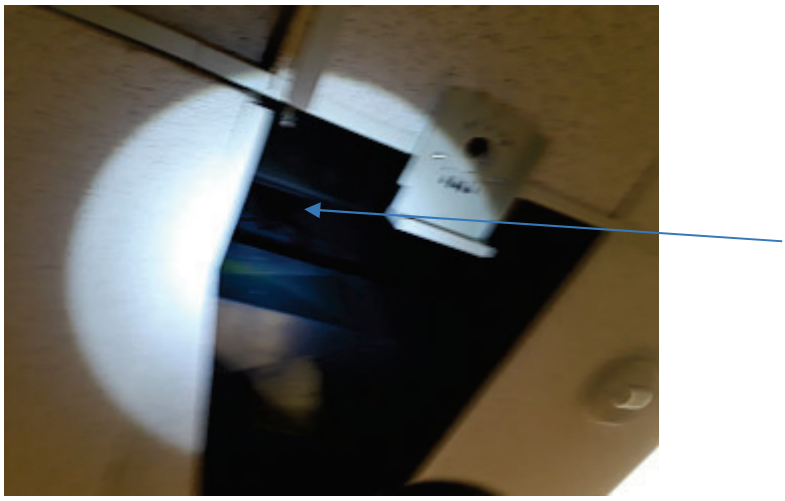


Photo 27
At every one of the roof support beam connection to the CMU wall, the beam connections have failed and or knocked the infill CMU blocks off. The sections of the loose blocks fell down and through the ceiling tiles.

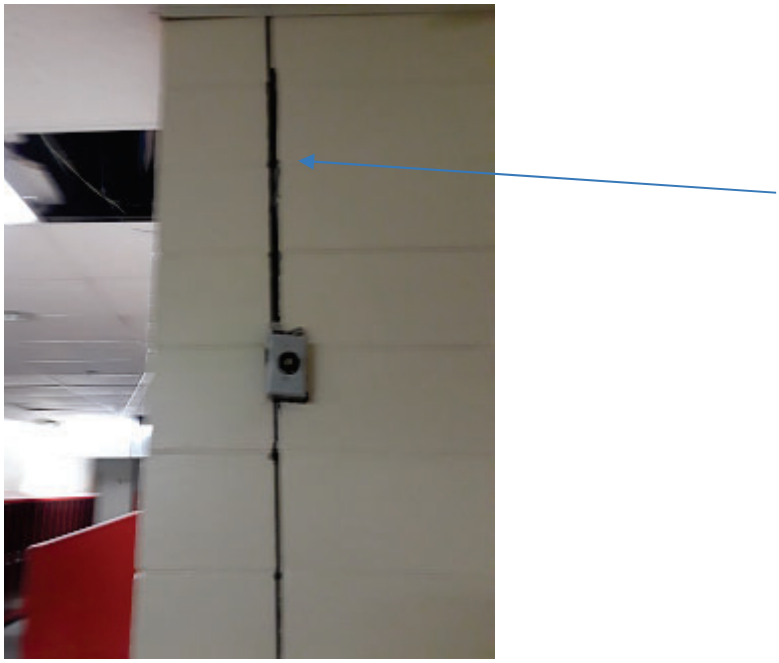


Photo 28
Hallway walls are about twice the height of the CMU entryway into the classrooms. The tall hallway walls have flexed and damaged the shorter entryway cove walls. This is typical for all classroom entryway coves.

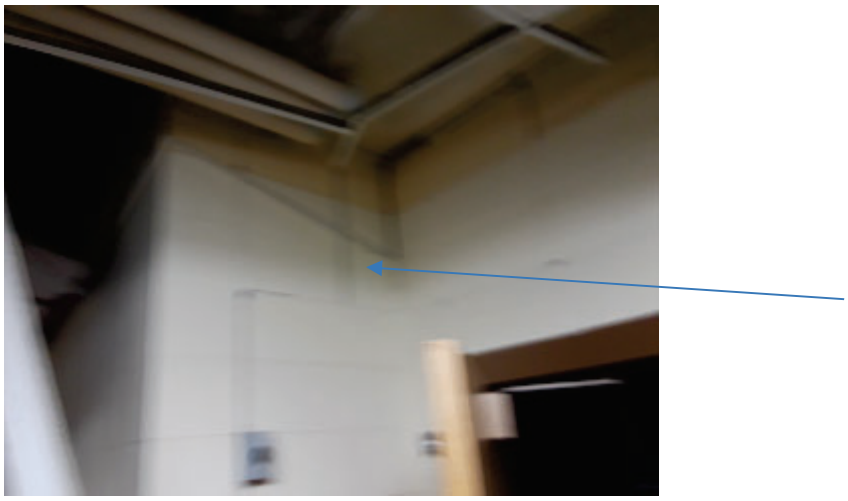


Photo 29
Hallway walls are about twice the height of the CMU entryway into the classrooms. The tall hallway walls have flexed and damaged the shorter entryway cove walls. This is typical for all classroom entryway coves.

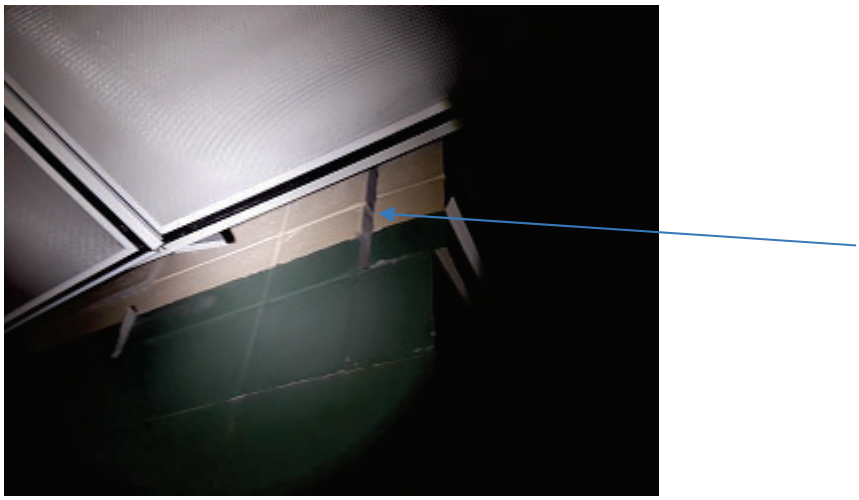


Photo 30
Hallway walls are about twice the height of the CMU entryway into the classrooms. The tall hallway walls have flexed and damaged the shorter entryway cove walls. This is typical for all classroom entryway coves.



Photo 31
Hallway walls are about twice the height of the CMU entryway into the classrooms. The tall hallway walls have flexed and damaged the shorter entryway cove walls. This is typical for all classroom entryway coves.

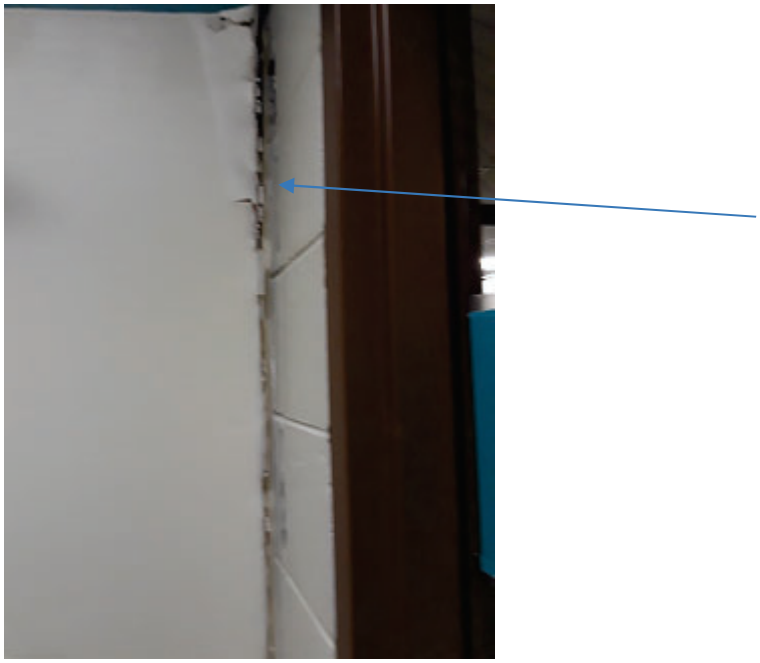


Photo 32
The joints between the interior walls and the hallway walls have separated.



Photo 33
Many of the class rooms have fallen or damaged ceiling tiles, lighting and ducting.

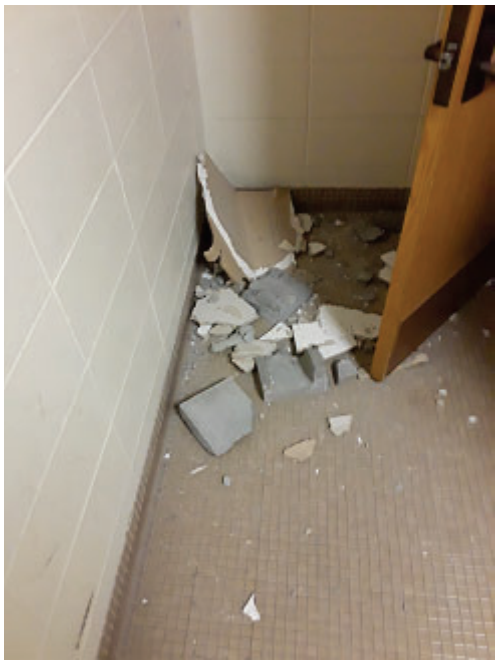


Photo 34
In the one of the second-floor restrooms the interior wall appeared to be unreinforced and several layers of the corner blocks fell free when the hallway wall hit it.
See photo 35



Photo 35
In the one of the second-floor restrooms the interior wall appeared to be unreinforced and several layers of the corner blocks fell free when the hallway wall hit it.
See photo 34

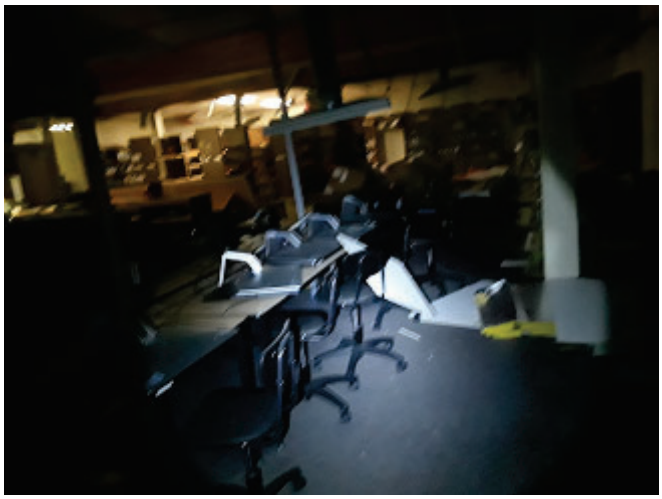


Photo 36
Library shelving, ceiling tiles and ducting connection failures



Photo 37
Library shelving failures



Photo 38
The fire sprinklers have plowed through the wood ceiling and is now above the wood ceiling.
At this point it is unknow if the tong and grove ceiling has pulled free from the roof framing or why the sprinklers are now above the wood.

Appendix C: Summary Data Sheet

BUILDING DATA

Building Name: Colony High School Date:

Building Address: 9550 East Bogard Road Palmer, AK 99645

Latitude: 61.6084 N Longitude: 149.2123 W By: CS

Year Built: 1985 Year(s) Remodeled: Original Design Code: UBC 1985

Area (sf): 180,000 Length (ft): 405 Width (ft): 480

No. of Stories: 2 Story Height: 15ft Total Height: 34ft

USE ☐ Industrial ☐ Office ☐ Warehouse ☐ Hospital ☐ Residential ☑ Educational ☐ Other: _____

CONSTRUCTION DATA

Gravity Load Structural System: Masonry, Steel Framing

Exterior Transverse Walls: Masonry Openings? yes

Exterior Longitudinal Walls: Masonry Openings? yes

Roof Materials/Framing: Steel

Intermediate Floors/Framing: Steel

Ground Floor: Slab on grade

Columns: Steel TS and W shapes Foundation: Concrete Stem wall

General Condition of Structure:

Levels Below Grade? No, but lower floor down slope

Special Features and Comments:

LATERAL-FORCE-RESISTING SYSTEM

	Longitudinal	Transverse
System:	Masonry Shear wall and braced frames	same
Vertical Elements:	Masonry wall and steel columns	same
Diaphragms:	steel deck on framing	same
Connections:		same

EVALUATION DATA

BSE-1N Spectral Response Accelerations: S_{Ds}= _____ S_{D1}= _____

Soil Factors: Class= D F_a= 1.163 F_v= 1.704

BSE-1E Spectral Response Accelerations: S_{XS}= 0.979 S_{X1}= 0.593

Level of Seismicity: High Performance Level: Life Safety

Building Period: T= _____

Spectral Acceleration: S_a= 0.979

Modification Factor: $C_mC_1C_2$= _____ Building Weight: W= 1500 to 2000 kips

Pseudo Lateral Force: V= $C_mC_1C_2S_aW$= 1500 to 2000 kips per area (A, B, D etc.)

BUILDING CLASSIFICATION: RM1, S2

REQUIRED TIER 1 CHECKLISTS

	Yes	No
Basic Configuration Checklist	☑	☐
Building Type ___ Structural Checklist	☑	☐
Nonstructural Component Checklist	☐	☑

FURTHER EVALUATION REQUIREMENT: _____

Project Name Colony High Tier I
Project Number 181152

ASCE 41-13 Tier 1 Checklists

FIRM:	PND Engineers
PROJECT NAME:	Colony High Tier I
SEISMICITY LEVEL:	High
PROJECT NUMBER:	181152
COMPLETED BY:	CS
DATE COMPLETED:	
REVIEWED BY:	
REVIEW DATE:	

Legend: C = Compliant, NC = Noncompliant, N/A = Not Applicable, U = Unknown

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Project Name Colony High Tier I
Project Number 181152

16.1 Basic Checklist

Very Low Seismicity

Structural Components

RATING				DESCRIPTION	COMMENTS
C	NC	N/A	U		
☒	☐	☐	☐	LOAD PATH: The structure shall contain a complete, well-defined load path, including structural elements and connections, that serves to transfer the inertial forces associated with the mass of all elements of the building to the foundation. (Commentary: Sec. A.2.1.1. Tier 2: Sec. 5.4.1.1)	
C	NC	N/A	U		
☒	☐	☐	☐	WALL ANCHORAGE: Exterior concrete or masonry walls that are dependent on the diaphragm for lateral support are anchored for out-of-plane forces at each diaphragm level with steel anchors, reinforcing dowels, or straps that are developed into the diaphragm. Connections shall have adequate strength to resist the connection force calculated in the Quick Check procedure of Section 4.5.3.7. (Commentary: Sec. A.5.1.1. Tier 2: Sec. 5.7.1.1)	

Legend: C = Compliant, NC = Noncompliant, N/A = Not Applicable, U = Unknown

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Project Name Colony High Tier I
Project Number 181152

16.1.2LS Life Safety Basic Configuration Checklist

Low Seismicity

Building System

General

RATING				DESCRIPTION	COMMENTS
C	NC	N/A	U		
☒	☐	☐	☐	LOAD PATH: The structure shall contain a complete, well-defined load path, including structural elements and connections, that serves to transfer the inertial forces associated with the mass of all elements of the building to the foundation. (Commentary: Sec. A.2.1.1. Tier 2: Sec. 5.4.1.1)	
C	NC	N/A	U		
☒	☐	☐	☐	ADJACENT BUILDINGS: The clear distance between the building being evaluated and any adjacent building is greater than 4% of the height of the shorter building. This statement need not apply for the following building types: W1, W1A, and W2. (Commentary: Sec. A.2.1.2. Tier 2: Sec. 5.4.1.2)	
C	NC	N/A	U		
☒	☐	☐	☐	MEZZANINES: Interior mezzanine levels are braced independently from the main structure or are anchored to the seismic-force-resisting elements of the main structure. (Commentary: Sec. A.2.1.3. Tier 2: Sec. 5.4.1.3)	anchored to main system

Legend: C = Compliant, NC = Noncompliant, N/A = Not Applicable, U = Unknown

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Project Name Colony High Tier I
Project Number 181152

Building Configuration

RATING				DESCRIPTION	COMMENTS
C ☐	NC ☐	N/A ☒	U ☐	WEAK STORY: The sum of the shear strengths of the seismic-force-resisting system in any story in each direction is not less than 80% of the strength in the adjacent story above. (Commentary: Sec. A2.2.2. Tier 2: Sec. 5.4.2.1)	1-2 stories
C ☒	NC ☐	N/A ☐	U ☐	SOFT STORY: The stiffness of the seismic-force-resisting system in any story is not less than 70% of the seismic-force-resisting system stiffness in an adjacent story above or less than 80% of the average seismic-force-resisting system stiffness of the three stories above. (Commentary: Sec. A.2.2.3. Tier 2: Sec. 5.4.2.2)	
C ☒	NC ☐	N/A ☐	U ☐	VERTICAL IRREGULARITIES: All vertical elements in the seismic-force-resisting system are continuous to the foundation. (Commentary: Sec. A.2.2.4. Tier 2: Sec. 5.4.2.3)	
C ☒	NC ☐	N/A ☐	U ☐	GEOMETRY: There are no changes in the net horizontal dimension of the seismic-force-resisting system of more than 30% in a story relative to adjacent stories, excluding one-story penthouses and mezzanines. (Commentary: Sec. A.2.2.5. Tier 2: Sec. 5.4.2.4)	

Legend: C = Compliant, NC = Noncompliant, N/A = Not Applicable, U = Unknown

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Project Name Colony High Tier I
Project Number 181152

C	NC	N/A	U		
☒	☐	☐	☐	MASS: There is no change in effective mass more than 50% from one story to the next. Light roofs, penthouses, and mezzanines need not be considered. (Commentary: Sec. A.2.2.6. Tier 2: Sec. 5.4.2.5)	
☒	☐	☐	☐	TORSION: The estimated distance between the story center of mass and the story center of rigidity is less than 20% of the building width in either plan dimension. (Commentary: Sec. A.2.2.7. Tier 2: Sec. 5.4.2.6)	

Moderate Seismicity

Geologic Site Hazards

RATING				DESCRIPTION	COMMENTS
C	NC	N/A	U		
☐	☐	☐	☒	LIQUEFACTION: Liquefaction-susceptible, saturated, loose granular soils that could jeopardize the building's seismic performance shall not exist in the foundation soils at depths within 50 ft under the building. (Commentary: Sec. A.6.1.1. Tier 2: 5.4.3.1)	
☒	☐	☐	☐	SLOPE FAILURE: The building site is sufficiently remote from potential earthquake-induced slope failures or rockfalls to be unaffected by such failures or is capable of accommodating any predicted movements without failure. (Commentary: Sec. A.6.1.2. Tier 2: 5.4.3.1)	

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Project Name Colony High Tier I
Project Number 181152

C	NC	N/A	U		
☒	☐	☐	☐	SURFACE FAULT RUPTURE: Surface fault rupture and surface displacement at the building site are not anticipated. (Commentary: Sec. A.6.1.3. Tier 2: 5.4.3.1)	1.5 miles from undifferentiated Quaternary fault

High Seismicity

Foundation Configuration

RATING				DESCRIPTION	COMMENTS
C	NC	N/A	U		
☒	☐	☐	☐	OVERTURNING: The ratio of the least horizontal dimension of the seismic-force-resisting system at the foundation level to the building height (base/height) is greater than $0.6S_a$. (Commentary: Sec. A.6.2.1. Tier 2: Sec. 5.4.3.3)	
C	NC	N/A	U		
☒	☐	☐	☐	TIES BETWEEN FOUNDATION ELEMENTS: The foundation has ties adequate to resist seismic forces where footings, piles, and piers are not restrained by beams, slabs, or soils classified as Site Class A, B, or C. (Commentary: Sec. A.6.2.2. Tier 2: Sec. 5.4.3.4)	slab on grade

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Project Name Colony High Tier I
Project Number 181152

ASCE 41-13 Tier 1 Checklists

FIRM:	PND Engineers
PROJECT NAME:	Colony High Tier I
SEISMICITY LEVEL:	High
PROJECT NUMBER:	181152
COMPLETED BY:	CS
DATE COMPLETED:	5-27-2020
REVIEWED BY:	
REVIEW DATE:	

Legend: C = Compliant, NC = Noncompliant, N/A = Not Applicable, U = Unknown

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Project Name Colony High Tier I
Project Number 181152

16.15LS Life Safety Structural Checklist for Building Types RM1: Reinforced Masonry Bearing Walls with Flexible Diaphragms and RM2: Reinforced Masonry Bearing Walls with Stiff Diaphragms

Low and Moderate Seismicity

Seismic-Force-Resisting System

RATING				DESCRIPTION	COMMENTS
C	NC	N/A	U		
☒	☐	☐	☐	REDUNDANCY: The number of lines of shear walls in each principal direction is greater than or equal to 2. (Commentary: Sec. A.3.2.1.1. Tier 2: Sec. 5.5.1.1)	
C	NC	N/A	U		
☒	☐	☐	☐	SHEAR STRESS CHECK: The shear stress in the reinforced masonry shear walls, calculated using the Quick Check procedure of Section 4.5.3.3, is less than 70 lb/in.^{2}. (Commentary: Sec. A.3.2.4.1. Tier 2: Sec. 5.5.3.1.1)	
C	NC	N/A	U		
☒	☐	☐	☐	REINFORCING STEEL: The total vertical and horizontal reinforcing steel ratio in reinforced masonry walls is greater than 0.002 of the wall with the minimum of 0.0007 in either of the two directions; the spacing of reinforcing steel is less than 48 in., and all vertical bars extend to the top of the walls. (Commentary: Sec. A.3.2.4.2. Tier 2: Sec. 5.5.3.1.3)	

Legend: C = Compliant, NC = Noncompliant, N/A = Not Applicable, U = Unknown

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Project Name Colony High Tier I
Project Number 181152

Stiff Diaphragms

RATING				DESCRIPTION	COMMENTS
C	NC	N/A	U		
☒	☐	☐	☐	TOPPING SLAB: Precast concrete diaphragm elements are interconnected by a continuous reinforced concrete topping slab. (Commentary: Sec. A.4.5.1. Tier 2: Sec. 5.6.4)	

Connections

RATING				DESCRIPTION	COMMENTS
C	NC	N/A	U		
☒	☐	☐	☐	WALL ANCHORAGE: Exterior concrete or masonry walls that are dependent on the diaphragm for lateral support are anchored for out-of-plane forces at each diaphragm level with steel anchors, reinforcing dowels, or straps that are developed into the diaphragm. Connections shall have adequate strength to resist the connection force calculated in the Quick Check procedure of Section 4.5.3.7. (Commentary: Sec. A.5.1.1. Tier 2: Sec. 5.7.1.1)	
C	NC	N/A	U		
☒	☐	☐	☐	WOOD LEDGERS: The connection between the wall panels and the diaphragm does not induce cross-grain bending or tension in the wood ledgers. (Commentary: Sec. A.5.1.2. Tier 2: Sec. 5.7.1.3)	
C	NC	N/A	U		
☒	☐	☐	☐	TRANSFER TO SHEAR WALLS: Diaphragms are connected for transfer of seismic forces to the shear walls. (Commentary: Sec. A.5.2.1. Tier 2: Sec. 5.7.2)	

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Project Name Colony High Tier I
Project Number 181152

C	NC	N/A	U		
☒	☐	☐	☐	TOPPING SLAB TO WALLS OR FRAMES: Reinforced concrete topping slabs that interconnect the precast concrete diaphragm elements are doweled for transfer of forces into the shear wall or frame elements. (Commentary: Sec. A.5.2.3. Tier 2: Sec. 5.7.2)	
C	NC	N/A	U		
☒	☐	☐	☐	FOUNDATION DOWELS: Wall reinforcement is doweled into the foundation. (Commentary: Sec. A.5.3.5. Tier 2: Sec. 5.7.3.4)	
C	NC	N/A	U		
☒	☐	☐	☐	GIRDER–COLUMN CONNECTION: There is a positive connection using plates, connection hardware, or straps between the girder and the column support. (Commentary: Sec. A.5.4.1. Tier 2: Sec. 5.7.4.1)	

High Seismicity

Stiff Diaphragms

RATING				DESCRIPTION	COMMENTS
C	NC	N/A	U		
☒	☐	☐	☐	OPENINGS AT SHEAR WALLS: Diaphragm openings immediately adjacent to the shear walls are less than 25% of the wall length. (Commentary: Sec. A.4.1.4. Tier 2: Sec. 5.6.1.3)	

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Project Name Colony High Tier I
Project Number 181152

C	NC	N/A	U		
☒	☐	☐	☐	OPENINGS AT EXTERIOR MASONRY SHEAR WALLS: Diaphragm openings immediately adjacent to exterior masonry shear walls are not greater than 8 ft long. (Commentary: Sec. A.4.1.6. Tier 2: Sec. 5.6.1.3)	

Flexible Diaphragms

RATING				DESCRIPTION	COMMENTS
C	NC	N/A	U		
☒	☐	☐	☐	CROSS TIES: There are continuous cross ties between diaphragm chords. (Commentary: Sec. A.4.1.2. Tier 2: Sec. 5.6.1.2)	
C	NC	N/A	U		
☒	☐	☐	☐	OPENINGS AT SHEAR WALLS: Diaphragm openings immediately adjacent to the shear walls are less than 25% of the wall length. (Commentary: Sec. A.4.1.4. Tier 2: Sec. 5.6.1.3)	
C	NC	N/A	U		
☒	☐	☐	☐	OPENINGS AT EXTERIOR MASONRY SHEAR WALLS: Diaphragm openings immediately adjacent to exterior masonry shear walls are not greater than 8 ft long. (Commentary: Sec. A.4.1.6. Tier 2: Sec. 5.6.1.3)	

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Project Name Colony High Tier I
Project Number 181152

C	NC	N/A	U		
☒	☐	☐	☐	STRAIGHT SHEATHING: All straight sheathed diaphragms have aspect ratios less than 2-to-1 in the direction being considered. (Commentary: Sec. A.4.2.1. Tier 2: Sec. 5.6.2)	
☒	☐	☐	☐	SPANS: All wood diaphragms with spans greater than 24 ft consist of wood structural panels or diagonal sheathing. (Commentary: Sec. A.4.2.2. Tier 2: Sec. 5.6.2)	
☒	☐	☐	☐	DIAGONALLY SHEATHED AND UNBLOCKED DIAPHRAGMS: All diagonally sheathed or unblocked wood structural panel diaphragms have horizontal spans less than 40 ft and aspect ratios less than or equal to 4-to-1. (Commentary: Sec. A.4.2.3. Tier 2: Sec. 5.6.2)	
☒	☐	☐	☐	OTHER DIAPHRAGMS: The diaphragm shall not consist of a system other than wood, metal deck, concrete, or horizontal bracing. (Commentary: Sec. A.4.7.1. Tier 2: Sec. 5.6.5)	

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Project Name Colony High Tier I
Project Number 181152

Connections

RATING				DESCRIPTION	COMMENTS
C	NC	N/A	U		
☒	☐	☐	☐	STIFFNESS OF WALL ANCHORS: Anchors of concrete or masonry walls to wood structural elements are installed taut and are stiff enough to limit the relative movement between the wall and the diaphragm to no greater than 1/8 in. before engagement of the anchors. (Commentary: Sec. A.5.1.4. Tier 2: Sec. 5.7.1.2)	

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Project Name Colony High Tier I
Project Number 181152

ASCE 41-13 Tier 1 Checklists

FIRM:	PND Engineers
PROJECT NAME:	Colony High Tier I
SEISMICITY LEVEL:	High
PROJECT NUMBER:	181152
COMPLETED BY:	CS
DATE COMPLETED:	5-27-2020
REVIEWED BY:	
REVIEW DATE:	

Legend: C = Compliant, NC = Noncompliant, N/A = Not Applicable, U = Unknown

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Project Name Colony High Tier I
Project Number 181152

16.5LS Life Safety Structural Checklist for Building Types S2: Steel Braced Frames with Stiff Diaphragms and S2A: Steel Braced Frames with Flexible Diaphragms

Low Seismicity

Seismic-Force-Resisting System

RATING				DESCRIPTION	COMMENTS
C	NC	N/A	U		
☐	☒	☐	☐	COLUMN AXIAL STRESS CHECK: The axial stress caused by gravity loads in columns subjected to overturning forces is less than 0.10F_y. Alternatively, the axial stress caused by overturning forces alone, calculated using the Quick Check procedure of Section 4.5.3.6, is less than 0.30F_y. (Commentary: Sec. A.3.1.3.2. Tier 2: Sec. 5.5.2.1.3)	Gym exceeds 0.3Fy
C	NC	N/A	U		
☐	☒	☐	☐	BRACE AXIAL STRESS CHECK: The axial stress in the diagonals, calculated using the Quick Check procedure of Section 4.5.3.4, is less than 0.50F_y. (Commentary: Sec. A.3.3.1.2. Tier 2: Sec. 5.5.4.1)	Gym exceeds 0.3Fy

Connections

RATING				DESCRIPTION	COMMENTS
C	NC	N/A	U		
☐	☒	☐	☐	TRANSFER TO STEEL FRAMES: Diaphragms are connected for transfer of seismic forces to the steel frames. (Commentary: Sec. A.5.2.2. Tier 2: Sec. 5.7.2)	Gym exceeds 0.3Fy

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Project Name Colony High Tier I
Project Number 181152

C	NC	N/A	U		
☐	☒	☐	☐	STEEL COLUMNS: The columns in seismic-force-resisting frames are anchored to the building foundation. (Commentary: Sec. A.5.3.1. Tier 2: Sec. 5.7.3.1)	Gym exceeds 0.3Fy

Moderate Seismicity

Seismic-Force-Resisting System

RATING				DESCRIPTION	COMMENTS
C	NC	N/A	U		
☐	☒	☐	☐	REDUNDANCY: The number of lines of braced frames in each principal direction is greater than or equal to 2. The number of braced bays in each line is greater than 2. (Commentary: Sec. A.3.3.1.1. Tier 2: Sec. 5.5.1.1)	Gym exceeds 0.3Fy
C	NC	N/A	U		
☐	☒	☐	☐	CONNECTION STRENGTH: All the brace connections develop the buckling capacity of the diagonals. (Commentary: Sec. A.3.3.1.5. Tier 2: Sec. 5.5.4.4)	Gym exceeds 0.3Fy
C	NC	N/A	U		
☐	☒	☐	☐	COMPACT MEMBERS: All brace elements meet compact section requirements set forth by AISC 360, Table B4.1. (Commentary: Sec. A.3.3.1.7. Tier 2: Sec. 5.5.4)	Gym exceeds 0.3Fy

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Project Name Colony High Tier I
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C	NC	N/A	U		
☐	☒	☐	☐	K-BRACING: The bracing system does not include K-braced bays. (Commentary: Sec. A.3.3.2.1. Tier 2: Sec. 5.5.4.6)	Gym exceeds 0.3Fy

High Seismicity

Seismic-Force-Resisting System

RATING				DESCRIPTION	COMMENTS
C	NC	N/A	U		
☐	☒	☐	☐	COLUMN SPLICES: All column splice details located in braced frames develop 50% of the tensile strength of the column. (Commentary: Sec. A.3.3.1.3. Tier 2: Sec. 5.5.4.2)	Gym exceeds 0.3Fy
C	NC	N/A	U		
☐	☒	☐	☐	SLENDERNESS OF DIAGONALS: All diagonal elements required to carry compression have *Kl/r* ratios less than 200. (Commentary: Sec. A.3.3.1.4. Tier 2: Sec. 5.5.4.3)	Gym exceeds 0.3Fy
C	NC	N/A	U		
☐	☒	☐	☐	CONNECTION STRENGTH: All the brace connections develop the yield capacity of the diagonals. (Commentary: Sec. A.3.3.1.5. Tier 2: Sec. 5.5.4.4)	Gym exceeds 0.3Fy

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Project Name Colony High Tier I
Project Number 181152

C	NC	N/A	U		
☐	☒	☐	☐	COMPACT MEMBERS: All brace elements meet section requirements set forth by AISC 341, Table D1.1, for moderately ductile members. (Commentary: Sec. A.3.3.1.7. Tier 2: Sec. 5.5.4)	Gym exceeds 0.3Fy
☐	☒	☐	☐	CHEVRON BRACING: Beams in chevron, or V-braced, bays are capable of resisting the vertical load resulting from the simultaneous yielding and buckling of the brace pairs. (Commentary: Sec. A.3.3.2.3. Tier 2: Sec. 5.5.4.6)	Gym exceeds 0.3Fy
☐	☒	☐	☐	CONCENTRICALLY BRACED FRAME JOINTS: All the diagonal braces shall frame into the beam–column joints concentrically. (Commentary: Sec. A.3.3.2.4. Tier 2: Sec. 5.5.4.8)	Gym exceeds 0.3Fy

Diaphragms (Flexible or Stiff)

RATING				DESCRIPTION	COMMENTS
C	NC	N/A	U		
☐	☒	☐	☐	OPENINGS AT FRAMES: Diaphragm openings immediately adjacent to the braced frames extend less than 25% of the frame length. (Commentary: Sec. A.4.1.5. Tier 2: Sec. 5.6.1.3)	Gym exceeds 0.3Fy

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Project Name Colony High Tier I
Project Number 181152

Flexible Diaphragms

RATING				DESCRIPTION	COMMENTS
C ☐	NC ☒	N/A ☐	U ☐	CROSS TIES: There are continuous cross ties between diaphragm chords. (Commentary: Sec. A.4.1.2. Tier 2: Sec. 5.6.1.2)	Gym exceeds 0.3Fy
C ☐	NC ☒	N/A ☐	U ☐	STRAIGHT SHEATHING: All straight sheathed diaphragms have aspect ratios less than 2-to-1 in the direction being considered. (Commentary: Sec. A.4.2.1. Tier 2: Sec. 5.6.2)	Gym exceeds 0.3Fy
C ☐	NC ☒	N/A ☐	U ☐	SPANS: All wood diaphragms with spans greater than 24 ft consist of wood structural panels or diagonal sheathing. (Commentary: Sec. A.4.2.2. Tier 2: Sec. 5.6.2)	Gym exceeds 0.3Fy
C ☐	NC ☒	N/A ☐	U ☐	DIAGONALLY SHEATHED AND UNBLOCKED DIAPHRAGMS: All diagonally sheathed or unblocked wood structural panel diaphragms have horizontal spans less than 40 ft and aspect ratios less than or equal to 4-to-1. (Commentary: Sec. A.4.2.3. Tier 2: Sec. 5.6.2)	Gym exceeds 0.3Fy

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Project Name Colony High Tier I
Project Number 181152

C	NC	N/A	U		
☐	☒	☐	☐	OTHER DIAPHRAGMS: The diaphragm does not consist of a system other than wood, metal deck, concrete, or horizontal bracing. (Commentary: Sec. A.4.7.1. Tier 2: Sec. 5.6.5)	Gym exceeds 0.3Fy

Legend: C = Compliant, NC = Noncompliant, N/A = Not Applicable, U = Unknown

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Colony High Quick Check Calculations

ASCE 41-13

Psuedo Seismic Force and Story Shear

§4.5.2

Seismic Mass

A

	psf	sf	kip
	Dead	**Area**	**W**
Masonry Wall	110	5,000	550
Snow	12	10,800	130
Low Roof	12	10,800	130
		Σ	809

	Dead	Area	W
Masonry Wall	125	6,000	750
Snow	12	16,700	200
Gym Roof	12	16,700	200
		Σ	1151

kip	ft						kip
W	**hn**	**C**	**Sx1**	**Sxs**	**T**	**Sa**	**V**
1960	26	1	0.593	0.979	0.23	0.979	1919

T =0.02*[@hn]^0.75
Sa =MIN([@Sx1]/[@T],[@Sxs])
V =[@C]*[@Sa]*[@W]

B

	Dead	Area	W
Masonry Wall	110	10,000	1100
Snow	12	21,000	252
Roof	12	21,000	252
		Σ	1604

kip	ft						kip
W	**hn**	**C**	**Sx1**	**Sxs**	**T**	**Sa**	**V**
1604	23	1	0.593	0.979	0.21	0.979	1570

D

	Dead	Area	W
Masonry Wall	110	10,000	1100
Snow	12	17,800	214
Roof	12	17,800	214
		Σ	1527

kip	ft						kip
W	**hn**	**C**	**Sx1**	**Sxs**	**T**	**Sa**	**V**
1527	29	1	0.593	0.979	0.25	0.979	1495

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Colony High Quick Check Calculations

E		psf Dead	sf Area	kip W
	Masonry	115	10,000	1150
	Snow	12	24,700	296
	Roof	12	24,700	296
			Σ	1743

kip W	ft hn	C	Sx1	Sxs	T	Sa	kip V
1743	23	1	0.593	0.979	0.21	0.979	1706

F		Dead	Area	W
	Wall	12	4,800	58
	Roof	12	25,000	300
	2nd Floor	60	14,000	840
	Snow	12	25,000	300
	Masonry	110	2,000	220
			Σ	1718

kip W	ft hn	C	Sx1	Sxs	T	Sa	kip V
1718	8	1	0.593	0.979	0.095	0.979	1682

G		Dead	Area	W
	Wall	12	7,000	84
	2nd Floor	60	18,000	1080
	Roof	12	30,000	360
	Snow	12	30,000	360
	Masonry	110	1,100	121
			Σ	2005

kip W	ft hn	C	Sx1	Sxs	T	Sa	kip V
2005	14	1	0.593	0.979	0.145	0.979	1963

Overturning

	Grid	b	h	Sa	b/h	0.6Sa
A	7	116	33	0.979	3.52	0.587
B	24	54	23	0.979	2.35	0.587
D	3	20	29	0.979	0.69	0.587
E	23	55	23	0.979	2.39	0.587
F	3	78	32	0.979	2.44	0.587
G	23	30	32	0.979	0.94	0.587

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Flexible Diaphragm Connection Force

§4.5.3.7

		Demand								Capacity								
										Weld					Stud, bolt, or bar			
		psf	*ft*	*ft*	*sf*			*kip*		*ksi*	*in*	*in*	*in²*	*kip*	*in*	*in²*	*ksi*	*kip*
	Grid	**wp**	**wt**	**ht**	**Ap**	**ψ**	**Sxs**	**Tc**	**Ratio**	**Fexx**	**a**	**l**	**Aw**	**ϕR**	**Ø**	**Asa**	**Fu**	**ϕQnv**
A	1	110	1.333	8	10.67	1.5	0.979	1.72	0.13	70	5/8	6	2.65	83.5	5/8	0.31	65	13.0
A	B	110	3	8	24	1.5	0.979	3.88	0.30	70	5/8	3	1.33	41.8	5/8	0.31	65	13.0
B	E	120	3	11.5	34.5	1.5	0.979	6.08	0.47	70	5/8	3	1.33	41.8	5/8	0.31	65	13.0
B	24	120	1.333	11.5	15.33	1.5	0.979	2.70	0.21	70	5/8	6	2.65	83.5	5/8	0.31	65	13.0
E	24	120	1.333	11.5	15.33	1.5	0.979	2.70	0.21	70	5/8	6	2.65	83.5	5/8	0.31	65	13.0
F	3	120	2	8	16	1.5	0.979	2.82	0.15						3/4	0.44	65	18.7
G	24	120	2	8	16	1.5	0.979	2.82	0.15						3/4	0.44	65	18.7

Ap =[@wt]*[@ht]
ψ average of LS (1.2) and IO(1.8)
Tc =[@ψ]*[@Sxs]*[@wp]*[@Ap]/1000

ϕR =0.45*[@Fexx]*[@Aw]
ϕQnv =0.65*[@Fu]*[@Asa]

Shear Stress

§4.5.3.3

	kip	*sf*	*ksf*	*psi*
	Ms	**Vj**	**Aw**	**Vjavg**	
A NS	3	1919	260	2.5	17.1
A EW	3	1919	460	1.4	9.7
B NS	3	1570	195	2.7	18.6
B EW	3	1570	340	1.5	10.7
D NS	3	1495	260	1.9	13.3
D EW	3	1495	225	2.2	15.4
E NS	3	1706	270	2.1	14.6
E EW	3	1706	455	1.2	8.7
F NS	3	1682	175	3.2	22.2
F EW	3	1682	60	9.3	64.9
G NS	3	1963	116	5.6	39.2

L	w	Aw
0	0.833	40
60	0.667	

Ms average of LS (4) and IO(2)
Vj from respective story shear above
Vjavg =[@Vj]/[@Aw]/[@Ms]

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Colony High Quick Check Calculations

Masonry Reinforcing

in	#	#	in	#	#	in	in²	in²				#	Ø
Width	**Vn**	**Vbar**	**Vocs**	**Hn**	**Hbar**	**Hocs**	**Va**	**Ha**	**Vr**	**Hr**	**r**	3	0.11
12	2	6	48	2	6	48	0.88	0.88	0.0015	0.0015	0.0031	4	0.2
10	2	5	48	1	7	48	0.62	0.6	0.0013	0.0013	0.0025	5	0.31
8	1	6	48	1	6	48	0.44	0.44	0.0011	0.0011	0.0023	6	0.44
6	1	5	48	1	5	48	0.31	0.31	0.0011	0.0011	0.0022	7	0.6

Column Axial Stress Check

§4.5.3.6

		#	*kip*	*ft*	*ft*		*in²*	*ksi*	*ksi*	
	Fy	**nf**	**V**	**hn**	**L**	**Ms**	**A**	**Pot**	**0.3Fy**	
Gym	36	2	1127	33	62	1.65	7.6	16.0	10.8	6x6x3/8
G	36	6	787	16	30	1.65	6.4	4.4	10.8	6x6x5/16

Ms average of LS(2.0) and IO(1.3)
Pot =2*[@V]*[@hn]/[@Ms]/3/[@L]/[@nf]/[@A]

Brace Axial Stress Check

§4.5.3.4

ksi	*kip*	*ft*		*ft*	#	*in²*	*ksi*	*ksi*
Fy	**Vj**	**Lbr**	**Ms**	**s**	**Nbr**	**Abr**	**fj**	**0.5Fy**
F EW	36	1682	28.8	2.25	24.7	11	4.72	16.8	18
G EW	36	1682	32.9	2.25	29.5	12	5.2	13.4	18

Brace Connection Check

TS Square, K=1

	Yield			Buckle					Weld					
	in²	ksi	kip	ft	in	ksi	ksi	kip	*ksi*	*in*	*in*	*in²*	*kip*	
	Ag	**Fy**	**ϕP**	**Lb**	**r**	**Fe**	**Fcr**	**ϕPn**	**Fexx**	**a**	**l**	**Aw**	**ϕR**	**KL/r**
6x5/16	6.43	36	208	25.2	2.31	16.7	14.6	85	70	3/8	80	21.21	668	131
5x1/4	4.3	36	139	21.00	1.93	16.8	14.7	57	70	3/16	24	3.18	100	131
7x3/8	8.97	36	291	34.80	2.69	11.9	10.4	84	70	1/4	56	9.90	312	155

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Colony High Quick Check Calculations

Compact Members

		ksi		
	b/t	**Fy**	**λ**	**λmd**
6x5/16	17.6	36	39.74	18.16
5x1/4	18.5	36	39.74	18.16
7x3/8	17.1	36	39.74	18.16

Chevron Bracing

	kip	°	*kip*	*ft*	*kip/ft*	*k ft*	*k ft*	*k ft*	*in³*	*k ft*	
WF	**Yield**	**θ**	**P+**	**span**	**wd**	**Mp+**	**Mwd**	**Mu**	**Zx**	**ϕMn**	**Ratio**
24x76	208	39.4	132.2	39	0.27	1289	51.3	1351	200.0	540	2.50

APPENDIX 11:
SUSPENSION AND DEBARMENT CERTIFICATION

CERTIFICATION REGARDING DEBARMENT, SUSPENSION, INELIGIBILITY AND VOLUNTARY EXCLUSION -- LOWER TIER COVERED TRANSACTIONS

NOTE: This certificate must be completed for all new and renewal contract years when the contract exceeds $25,000.

1. This contract is a covered transaction for purposes of 2 C.F.R. pt. 180 and 2 C.F.R. pt. 3000. As such the contractor is required to verify that none of the contractor, its principals (defined at 2 C.F.R. § 180.995), or its affiliates (defined at 2 C.F.R. § 180.905) are excluded (defined at 2 C.F.R. § 180.940) or disqualified (defined at 2 C.F.R. § 180.935).

2. The contractor must comply with 2 C.F.R. pt. 180, subpart C and 2 C.F.R. pt. 3000, subpart C and must include a requirement to comply with these regulations in any lower tier covered transaction it enters into.

3. This certification is a material representation of fact relied upon by the Matanuska-Susitna Borough School District (MSBSD). If it is later determined that the contractor did not comply with 2 C.F.R. pt. 180, subpart C and 2 C.F.R. pt. 3000, subpart C, in addition to remedies available to the State of Alaska and the MSBSD, the Federal Government may pursue available remedies, including but not limited to suspension and/or debarment.

4. The bidder or proposer agrees to comply with the requirements of 2 C.F.R. pt. 180, subpart C and 2 C.F.R. pt. 3000, subpart C while this offer is valid and throughout the period of any contract that may arise from this offer. The bidder or proposer further agrees to include a provision requiring such compliance in its lower tier covered transactions.

A. The prospective lower tier participant certifies, by submission of this proposal, that neither it nor its principals is presently debarred, suspended, proposed for debarment, declared ineligible, or voluntarily excluded from participation in this transaction by any Federal department or agency.

B. Where the prospective lower tier participant is unable to certify to any of the statements in this certification, such prospective participant shall attach an explanation to this proposal.

Organization Name

Names(s) and Title(s) of Authorized Representative(s)

Signature(s) Date

APPENDIX 12:
CLEAN AIR AND WATER CERTIFICATION:

CLEAN AIR ACT AND THE FEDERAL WATER POLLUTION CONTROL ACT

Contracts of amounts in excess of $150,000 must contain a provision that requires the contractor to agree to comply with all applicable standards, orders, or regulations issued pursuant to the Clean Air Act (42 U.S.C. §§ 7401-7671q) and the Federal Water Pollution Control Act as amended (33 U.S.C. §§ 1251-1387). Violations must be reported to the Federal Awarding Agency and the Regional Office of the Environmental Protection Agency. See 2 C.F.R. Part 200, Appendix II, ¶ G.

1. Clean Air Act

   A. The contractor agrees to comply with all applicable standards, orders or regulations issued pursuant to the Clean Air Act, as amended, 42 U.S.C. § 7401 et seq.

   B. The contractor agrees to report each violation to the State of Alaska and understands and agrees that the State of Alaska will, in turn, report each violation as required to assure notification to the Matanuska-Susitna Borough School District (MSBSD), Federal Awarding Agency, and the appropriate Environmental Protection Agency Regional Office.

   C. The contractor agrees to include these requirements in each subcontract exceeding $150,000 financed in whole or in part with Federal assistance provided by the Federal Awarding Agency.

2. Federal Water Pollution Control Act

   A. The contractor agrees to comply with all applicable standards, orders or regulations issued pursuant to the Federal Water Pollution Control Act, as amended, 33 U.S.C. 1251 et seq.

   B. The contractor agrees to report each violation to the State of Alaska and understands and agrees that the State of Alaska will, in turn, report each violation as required to assure notification to the Matanuska-Susitna Borough School District (MSBSD), Federal Awarding Agency, and the appropriate Environmental Protection Agency Regional Office.

   C. The contractor agrees to include these requirements in each subcontract exceeding $150,000 financed in whole or in part with Federal assistance provided by the Federal Awarding Agency.

Organization Name

Names(s) and Title(s) of Authorized Representative(s)

Signature(s) Date

APPENDIX 13:
CERTIFICATION REGARDING LOBBYING/DISCLOSURE OF LOBBYING ACTIVITIES

BYRD ANTI-LOBBYING AMENDMENT, 31 U.S.C. § 1352 (as amended)

Contractors who apply or bid for an award of $100,000 or more shall file the required certification. Each tier certifies to the tier above that it will not and has not used Federal appropriated funds to pay any person or organization for influencing or attempting to influence an officer or employee of any agency, a member of Congress, officer or employee of Congress, or an employee of a member of Congress in connection with obtaining any Federal contract, grant, or any other award covered by 31 U.S.C. § 1352. Each tier shall also disclose any lobbying with non-Federal funds that takes place in connection with obtaining any Federal award. Such disclosures are forwarded from tier to tier up to the recipient."

APPENDIX A, 44 C.F.R. PART 18 – CERTIFICATION REGARDING LOBBYING

Certification for Contracts, Grants, Loans, and Cooperative Agreements

To be submitted with each bid or offer exceeding $100,000.

The undersigned Contractor certifies, to the best of his or her knowledge, that:

1. No Federal appropriated funds have been paid or will be paid, by or on behalf of the undersigned, to any person for influencing or attempting to influence an officer or employee of an agency, a Member of Congress, an officer or employee of Congress, or an employee of a Member of Congress in connection with the awarding of any Federal contract, the making of any Federal grant, the making of any Federal loan, the entering into of any cooperative agreement, and the extension, continuation, renewal, amendment, or modification of any Federal contract, grant, loan, or cooperative agreement.

2. If any funds other than Federal appropriated funds have been paid or will be paid to any person for influencing or attempting to influence an officer or employee of any agency, a Member of Congress, an officer or employee of Congress, or an employee of a Member of Congress in connection with this Federal contract, grant, loan, or cooperative agreement, the undersigned shall complete and submit Standard Form-LLL, "Disclosure Form to Report Lobbying," in accordance with its instructions.

3. The undersigned shall require that the language of this certification be included in the award documents for all subawards at all tiers (including subcontracts, subgrants, and contracts under grants, loans, and cooperative agreements) and that all subrecipients shall certify and disclose accordingly.

This certification is a material representation of fact upon which reliance was placed when this transaction was made or entered into. Submission of this certification is a prerequisite for making or entering into this transaction imposed by 31, U.S.C. § 1352 (as amended by the Lobbying Disclosure Act of 1995). Any person who fails to file the required certification shall be subject to a civil penalty of not less than $10,000 and not more than $100,000 for each such failure.

The Contractor certifies or affirms the truthfulness and accuracy of each statement of its certification and disclosure, if any. In addition, the Contractor understands and agrees that the provisions of 31 U.S.C. § 3801 et seq., apply to this certification and disclosure, if any.

Organization Name

Names(s) and Title(s) of Authorized Representative(s)

Signature(s) Date

Matanuska-Susitna Borough School District
Secondary School Calendar - 2025-2026

S M T W T F S

JULY

		1	2	3	H	5
6	7	8	9	10	11	12
13	14	15	16	17	18	19
20	21	22	23	24	25	26
27	28	29	30	31		

AUGUST

					1	2
3	4	5	6	7	WD	9
10	PL	PL	PL	SO	15	16
17	18	19	20	KG	22	23
24	25	26	27	28	29	30
31						

SEPTEMBER

	H	2	3	4	5	6
7	8	9	10	11	12	13
14	15	16	17	18	19	20
21	22	23	24	25	26	27
28	29	30				

OCTOBER

			1	2	3	4
5	6	7	8	9	10	11
12	13	14	15	16	Q1	18
19	20	21	22	23	24	25
26	27	28	29	30	31	

NOVEMBER

						1
2	PC	4	5	6	7	8
9	PL	V	12	13	14	15
16	17	18	19	20	21	22
23	24	25	26	H	H	29
30						

DECEMBER

	1	2	3	4	5	6
7	8	9	10	11	12	13
14	15	16	17	Q2	WD	20
21	V	V	V	H	V	27
28	V	V	V			

August

8	Work Day for Teachers (WD)*
11-13	Professional Learning Day (PL)*
14	School Opens for 1-12 (SO)
21	First Day for Kindergarten and PK (KG)

September

1	Labor Day Holiday (H)*

October

17	Quarter 1 Ends (46 Days)

November

3	**Parent Conference Day (PC)***
10	Professional Learning Day (PL)*
11	**Veterans Day (V)***
27-28	Thanksgiving Holiday (H)*

December

18	Quarter 2 Ends (39 Days)
19	Work Day for Teachers (WD)*
25	Christmas Holiday (H)*
22-31	**Winter Vacation (V)***

January

1	New Years Day (H)*
2	**Winter Vacation (V)***
19	Martin Luther King Jr. Day (H)*

February

16	**Parent Conference Day (PC)***

March

5	Quarter 3 Ends (42 Days)
6	Work Day for Teachers (WD)*
9-13	**Spring Vacation (V)***

May

20	School Closes/Quarter 4 Ends (48 Days)
21	Work Day for Teachers (WD)*
22	**Snow Day Makeup if needed (SN)**

*Indicates no school for students

S M T W T F S

JANUARY

				H	V	3
4	5	6	7	8	9	10
11	12	13	14	15	16	17
18	H	20	21	22	23	24
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FEBRUARY

1	2	3	4	5	6	7
8	9	10	11	12	13	14
15	PC	17	18	19	20	21
22	23	24	25	26	27	28

MARCH

1	2	3	4	Q3	WD	7
8	V	V	V	V	V	14
15	16	17	18	19	20	21
22	23	24	25	26	27	28
29	30	31				

APRIL

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5	6	7	8	9	10	11
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26	27	28	29	30		

MAY

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10	11	12	13	14	15	16
17	18	19	SC	WD	SN	23
24	H	26	27	28	29	30
31						

JUNE

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14	15	16	17	18	19	20
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Matanuska-Susitna Borough School District
Secondary School Calendar
2026-2027

S	M	T	W	T	F	S

JULY

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2	3	4	5	6	WD	8
9	PL	PL	PL	SO	14	15
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30	31					

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11	12	13	14	15	Q1	17
18	19	20	21	22	23	24
25	26	27	28	29	30	31

NOVEMBER

1	PC	PL	4	5	6	7
8	9	10	V	12	13	14
15	16	17	18	19	20	21
22	23	24	25	H	H	28
29	30					

DECEMBER

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6	7	8	9	10	11	12
13	14	15	16	Q2	WD	19
20	V	V	V	V	H	26
27	V	V	V	V		

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JANUARY

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3	4	5	6	7	8	9
10	11	12	13	14	15	16
17	H	19	20	21	22	23
24	25	26	27	28	29	30
31						

FEBRUARY

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7	8	9	10	11	12	13
14	PC	16	17	18	19	20
21	22	23	24	25	26	27
28						

MARCH

	1	2	3	Q3	WD	6
7	V	V	V	V	V	13
14	15	16	17	18	19	20
21	22	23	24	25	26	27
28	29	30	31			

APRIL

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18	19	20	21	22	23	24
25	26	27	28	29	30	

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9	10	11	12	13	14	15
16	17	18	SC	WD	SN	22
23	24	25	26	27	28	29
30	H					

JUNE

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27	28	29	30			