Anchorage School District

KLATT ELEMENTARY SCHOOL
LOADING DOCK AWNING

ITB 2026-801
ASD PROJECT No. 245011

DATE ISSUED: September 10, 2025

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INVITATION TO BID (ITB) NUMBER: 2026 - 801
Klatt Elementary School Loading Dock Awning

Sealed bids will be received in accordance with the time schedule shown below by the Anchorage School District, Purchasing Department, located at 4919 Van Buren Street Anchorage, Alaska 99517 for Klatt Elementary School Loading Dock Awning per the attached Instructions to Bidders, General Conditions, Technical Specifications, Drawings and Bid Form.

ESTIMATED CONSTRUCTION COST: Between $1,000,000 - $5,000,000

On-Site Visit:	September 17, 2025 at 3:00 p.m. Local Time
Pre-Bid Conference:	September 18, 2025 at 11:00 a.m. Local Time
Bid Opening:	October 2, 2025 at 2:00 p.m. Local Time

At the above indicated time, the bids will be opened publicly and read. Bids received by the Purchasing Department after the time fixed for opening of the bids will not be considered. Time of receipt will be as determined by the time stamp at the Purchasing Department.

DOCUMENTS:

Prospective bidders may obtain copies of bidding documents at the Anchorage School District website http://www.asdk12.org/depts/purchasing/PurchasingBids.aspx Only electronic versions of this ITB are issued.

A copy of the current plan holder's list can be viewed at:
http://apps.asdk12.org/depts/purchasing/meeting/Plan_Holders/2026/801.xlsx

NOTICE TO BIDDERS:

A bid bond in the amount of five (5%) percent of the total amount of the base bid will be required **(cash, personal or business checks are unacceptable).** The successful Contractor shall be required to furnish 100 percent performance and payment bonds.

The Anchorage School District reserves the right to reject any and all bids, and to waive any informalities or irregularities in bidding procedures.

STUDENT COMMUNITY WORKFORCE AGREEMENT

This project is subject to the Student Community Workforce Agreement per ASD Board Policy 3311.2. The awarded Contractor must review, understand and agree to Attachment A, Community Workforce Agreement, which will be incorporated into the contract.

ON-SITE VISIT AND PRE-BID CONFERENCE:

An On-Site Visit will be held on September 17, 2025, at 3:00 p.m., Local Time at Klatt Elementary School**,** 11900 Puma Street, Anchorage, Alaska 99515. Please meet at the Front Office.

A Pre-Bid Conference will be held September 18, 2025, at 11:00 a.m., Local Time at Anchorage School District, Purchasing Department, located at 4919 Van Buren Street Anchorage, Alaska 99517. Prospective Bidders who wish to participate by teleconference may participate by calling (907) 742-6750. The line will be available approximately 5 minutes prior to the conference start time.

All Bidders are encouraged to attend the On-site Visit and Pre-Bid Conference. Major sub-bidders are also encouraged to attend.

The Anchorage School District is committed to providing reasonable accommodations, according to applicable state and federal laws, to all individuals with a qualifying disability. If you require a reasonable accommodation in order to participate in this or any other district process, please contact the Anchorage School District's Compliance/Equal Employment Opportunity Office at (907) 742-4132.

END OF SECTION

INSTRUCTIONS TO BIDDERS

PART 1. GENERAL INFORMATION

1.01 Refer to the Invitation to Bid for information relating to time, date and place for receipt of bids and other pertinent bidding information.

1.02 Anchorage School Board Policy 3515.5 prohibits a contractor whose employees or agents may have direct or incidental contact with Anchorage School District (the District) students from sending any employee or agent to district property who has been convicted of a sex offense under federal law or the law of any state and who is required to register as a sex offender under Alaska law or by court order, or who has been convicted of child kidnapping under federal law or the law of any state and who is required under Alaska law or court order to register on the Alaska Department of Public Safety Sex Offender/Child Kidnapper Central Registry. Board Policy 3515.5 requires contractors to certify in writing the contractor's knowledge of and compliance with Board Policy 3515.5. ***Prior to executing a contract*** for this project, the selected Contractor shall verify that no employee or agent who will be on district property is registered as a sex offender or child kidnapper in Alaska [Alaska Department of Public Safety "Sex Offender/Child Kidnapper Registry"] or in any other state. In addition, the contractor shall certify that, to its knowledge, no employee or agent is a convicted sex offender or child kidnapper. The required forms of certification are included in the bid documents.

1.03 LICENSE REQUIREMENTS

A. The bidder shall include on the bid Form his current Business License number and expiration date from the State of Alaska authorizing him to engage in business to operate as a Business, Specialty or General Contractor, as well as his Federal Tax Identification number.

B. The bidder shall provide a copy of his current State of Alaska Business License and Specialty or General Contractor license when requested in writing by the Purchasing Department.

1.04 BIDS

A. The bidder shall review all of the proposed contract documents to ascertain all of the requirements of the work.

1.05 EXAMINATION OF PLANS, SPECIFICATIONS, SPECIAL PROVISIONS AND SITE WORK

A. The bidder shall examine carefully the site of the proposed work, the proposal, plans, specifications and contract forms before submitting a proposal. The submission of a bid shall be an admission that the bidder has made such examination and is satisfied as to the conditions to be encountered in performing the work and as to the requirement and accuracy of the plans, specifications, special provisions and terms of the contract.

B. All documents furnished to any person, under any condition, remain the property of the Anchorage School District and shall be returned immediately upon request.

C. Documents may be obtained upon the conditions set forth in the Invitation to Bid.

1.06 METHOD FOR CLARIFICATION

A. Any bidder in doubt as to the meaning of any part of the plans, specifications or other documents may submit a written request for an interpretation. The bidder submitting the

request will be responsible for its prompt delivery not less than seven (7) working days prior to the date set for opening of bids. Questions can be delivered as follows:

1. Fax: (907) 243-6293
2. Email: purchasing@asdk12.org
3. Mail: Purchasing Department
   4919 Van Buren Street
   Anchorage, Alaska 99517
4. Hours: 7:30 a.m. – 4:00 p.m.

B. A written request for an interpretation, which in the opinion of the Purchasing Department requires a reply, will be answered by issuing an addendum to all plan holders prior to the bid opening. The Owner will not be responsible for any other explanation or interpretation of the plans, specifications or other documents made or given prior to the bid opening.

1.07 PREPARATION OF BIDS

A. Preparation and Submission:
Bids must be submitted on the forms furnished or copies thereof, and must be manually signed. In order to secure consideration, the bid must be submitted and sealed in an envelope on which contract identification is plainly marked on the outside. The bid form is included in the bidding documents. The envelope shall be addressed as indicated in the Invitation to Bid.

B. Form:
The bid may provide for a quotation of a price, or prices, for one or more items which may be lump sum bids, alternate prices, scheduled items resulting in a bid on a unit of construction, or a combination thereof. Where required on the bid form, bidders must quote on all items and they are warned that failure to do so shall disqualify the bid.

If erasures or other changes appear on the forms, each such erasure or change must be initialed by the person signing the bid.

C. Alternate Bids and Qualified Bids:
Bids may be rejected if they show any omissions, alteration of the forms, additions not called for, conditional or alternate bids not called for or irregularities of any kind.

1.08 BID GUARANTEE

A. Each bid shall be accompanied by a bid bond with good and sufficient surety or sureties acceptable to the Owner. The Anchorage School District will require five percent (5%) of the total amount of the base bid as a guarantee **(cash, personal, or business checks are not acceptable)**. Bid guarantees for the three (3) low bidders will be held until the contract is executed.

B. All other bid guarantees will be returned within seven (7) days of the bid opening. Power of Attorney for the official signing of the bond for the surety company must be submitted with the bond.

1.09 ALTERNATES

A. The bidder shall include in the spaces provided on the “Bid Form” a bid for each alternate, if applicable.

B. The Owner may accept alternates in any order or number and include them in the contract award price.

1.10 UNIT PRICES

A. The bidder shall include in the spaces provided on the “Bid Form” a bid for each unit price, if applicable.

B. The Owner may accept any or all of these unit prices and include them in the contract award price.

C. In the case of discrepancy in the extended price calculation(s), the unit price(s) will prevail.

1.11 BIDDER QUALIFICATIONS (TO BE INCLUDED IF THERE IS NO 2-STEP QUALIFICATION PROCESS)

A. Before the bid is considered for award, the Owner reserves the right to request the bidder to complete within seventy-two (72) hours a bidder qualification form and/or a current financial statement prepared by a Certified Public Accountant. Bidder qualifications to be listed upon the qualification form will include, as a minimum, a listing of bidder’s previous contracts of a nature similar to that being bid upon; a listing of bidder’s staff, to include managerial, technical and laboring positions; summary of bidder’s plan and equipment available for use in the execution of the contract; and a listing of the projects to which the bidder is obligated in the near future. The Owner reserves the right to reject the bid of any bidder who fails to furnish promptly and properly all the information required in this paragraph.

B. A bidder will be deemed to be unqualified to perform the contract if, after review and verification of the representations included on the qualification form submitted by the bidder, the following conditions appear:

1. Bidder does not have sufficient prior experience (or an acceptable substitute thereof, as described below) with projects of a similar nature in technical, managerial and financial requirements to that in the present contract being bid.

a. Experience does not necessarily mean that the bidder is an established Contractor in the exact technical area for which the bid is submitted. In addition to such established contractors, newly established contractors will be considered qualified if they have shown on the bid qualification sheet form that they are staffed with sufficient technical, managerial and financial personnel with prior experience in the nature of construction for which the bids are invited, that bidder may adequately foresee and appreciate problems of such construction.

2. Bidder does not have sufficient capability to undertake the obligations of the contract. A determination in this respect will be made when the Owner, upon review of the probable cash flow needs of the Contractor for this particular contract (to include payroll, cost of material and supplies, equipment rental costs and any other direct or incidental costs of the contract), determines that the Contractor does not have sufficient financial resources to enable him to satisfy his financial obligations under the contract. The Owner will consider all other pertinent financial data required by this clause and submitted by the Contractor. A determination that the bidder is unqualified will not be made under this paragraph unless the Owner

has determined that the bidder cannot meet his financial obligations under the contract after having considered all sources of income available to the bidder.

3. The bidder does not have sufficient staff, equipment or plant available to perform the contract. The Owner's determination in this matter will be based upon that represented by the bidder in his completion of the Bidder Qualification documents discussed above.
4. The bidder has a consistent history of unsatisfactory performance of contracts of this or similar nature, regardless of whether such contracts existed between the Owner and the Contractor, or other parties and the Contractor.

    a. A determination of this nature will not be made unless the Owner, after review and verification of the contractor's previous work experience, determines that the contractor's consistent, unsatisfactory performance has resulted from the contractor's failure rather than a failure to perform by the other party. The Owner will give the Contractor an opportunity to explain such nonperformance(s) before any final determination is reached. Contract disputes which are pending resolution before any duly authorized judicial or administrative body will not be considered in reaching this determination.
    b. A determination of a "consistent failure to perform" will not be made unless the Owner is satisfied after review of the bidder's prior experience that the Contractor has repeatedly failed to satisfy his obligations under past contracts. For purposes of this clause, "consistent" will not be construed to mean in every contract, nor will it be construed to include "isolated instances" of failure to perform.
    c. In reaching any determination of this nature, the Owner may consider statements of other parties to the prior unperformed contracts, as well as the representations of the Contractor on his "Bidder Qualification" form. However, in each instance, the Owner will advise the Contractor of such other statements considered before a determination that the bidder is not qualified, as made by the Owner.

C. The bidder's representations concerning his qualifications will be construed as a covenant under the contract. Should it appear that the bidder has made a material misrepresentation on his "Bidder Qualification" form, the Owner shall have the right to terminate the contract for the Contractor's breach, and the Owner may then pursue such remedies as exist elsewhere under this contract, or as otherwise are provided at law or equity.

D. A determination that a bidder is unqualified will be made by the Owner. Such determination will be made in writing and include a thorough discussion of why the bidder is deemed unqualified. A letter will be sent to the bidder deemed unqualified, stating the reasons for such determination, and the bidder's right to request a review of this determination by appeal to the Anchorage School District Board.

E. Any bidder who is deemed to be unqualified may, as provided under existing Anchorage School District policy, appeal such determination to the Anchorage School District Board prior to contract award to another bidder.

1.12 RECEIPT AND OPENING OF BIDS

A. Time of Opening:
Bids shall be submitted prior to the time specified in the Invitation to Bid, and the exact date and time of receipt of bids will be recorded. Late bids will not be considered, but will be held unopened until the time of award and then returned to the bidder, unless other disposition is requested or agreed to by the bidder. Time of bid receipt will be determined

by the time stamp at the Purchasing Department, 4919 Van Buren Street, Anchorage, Alaska 99517.

B. FAX/Telegraph/Telephonic/E-Mail Bids:
FAX/telegraphic/telephonic/e-mail bids will not be considered. Modification by FAX or telegraph of bids already submitted will be considered if received prior to the time fixed in the Invitation to Bid. FAX/telegraphic modifications shall not reveal the amount of the original or revised bid.

C. Officer's Responsibility:
No responsibility will attach to any officer or agent of the Owner for the premature opening of, or the failure to open a bid not properly addressed and identified.

1.13 WITHDRAWAL OF BIDS

A. Bids may be withdrawn on written request received from the bidders prior to the time specified for opening.

B. No bid shall be withdrawn for a period of ninety (90) days subsequent to the bid opening without the written consent of the Owner.

1.14 BIDDERS INTERESTED IN MORE THAN ONE BID

A. If more than one bid is offered by any party, by or in the name of his clerk, partner, or other person, all such bids will be rejected. A party who has quoted prices to a bidder is not thereby disqualified from quoting prices to other bidders, or from submitting a bid directly for the work.

1.15 BIDDERS PRESENT

A. At the time and place specified for the opening of bids, contents of the bids will be made public for the information of bidders and other parties.

1.16 REJECTION OF BIDS

A. The Owner reserves the right to reject any or all bids, and to waive any informalities or irregularities in bidding or award of the contract.

1.17 AWARD OF CONTRACT

A. Acceptance of Bid:
Following the opening and evaluation of bids, the Owner will determine the apparent low responsive bidder and, subject to its right under Paragraph 1.16 to reject all bids, decide whether to accept the apparent low responsive bid. The Owner's acceptance of the apparent low responsive bid will be through a written notice from a duly authorized representative of the Owner, and no other act of the Owner or its representative will constitute an acceptance of a bid. The notice shall be titled "Notice of Intent to Award Contract," and shall set forth pre-award procedures and requirements, if any, including procedures for approval and award of contract by the School Board.

B. Basis of Award

1. It is the Owner's intention to award a contract to the lowest responsive and responsible bidder, including alternates, base bid, and quantified unit prices accepted by the Owner at the time of award, if applicable.
2. Unit prices which are not quantified will not be included in the determination of the award.
3. The Owner reserves the right to award the alternates in any combination with the base bid and include them in the total award.
4. The District reserves the right to request the lowest bidder(s) whose bids are determined to be reasonably susceptible to award to review their previous bids with consideration of any additions, clarifications or modifications, submit revised bids for Best and Final Offers (bids). If Best and Final Offers are requested, selected offerors must submit revised bids on the forms provided by the District to be considered for evaluation and award. Bidders who do not submit a Best and Final Offers (revised bids), when requested, will not be considered for evaluation and award and their bids will be rejected and considered non-responsive.

    a. For purposes of this ITB, bids that are "reasonably susceptible to award" means the three (3) lowest responsive and responsible bidders, unless, in the sole discretion of the District's Purchasing Senior Director, one or more of the three lowest responsive and responsible bidder(s) was not within the competitive range and to remain under consideration for award when evaluated with other bids or the District received one or more additional bids that are within the competitive range of the three lowest responsive and responsible bids such that the additional bid(s) may remain under consideration when evaluated with the other bids. This is a strict mathematical evaluation and may not be challenged on that basis except in the case of obvious arithmetic errors.

C. Notification of Award to Bidders:
Following opening of bids and determination of the apparent low responsive bidder, the Administration will make public in the Purchasing Contracting Office each Notice of Intent to Award ten (10) calendar days prior to the scheduled award by the Board, except for purchases under $100,000 which is three (3) business days. Bidders may, upon request to the Purchasing Office and/or Purchasing Contracting Office, review the bid tabulation summary prior to the scheduled Board award date.

D. Amount of Contract
The amount of the contract shall be understood to be the lump sum as given in the bid form. Where prices are given on alternative items, only the amounts of the alternates accepted by the Owner will be included in the total.

E. Execution of Contract:
By the Contractor: The bidder whose bid is accepted shall execute the contract and furnish the required bonding and insurance within five (5) days after presentation of the contract for signature. The contract shall be deemed to be executed by the successful bidder when two (2) originals of the contract, signed by an authorized officer of the corporation or company, and with each separately signed the bonds and insurances required herein, are received by the Owner. Failure or neglect to execute the contract, within the time specified or such extended period, if any, that the Owner may, in its sole discretion, authorize, shall constitute a breach of the agreement affecting the acceptance of the bid. The damages to the Owner for such a breach shall include loss from interference with the general Capital Improvements Program of the Owner, and other items whose accurate amount would be difficult or impossible to compute.

The amount of the bid guarantee of the successful bidder who fails or neglects to execute

the contract after proper notification of the acceptance of the bid shall be retained by the Owner as liquidated damages for such breach.

By the Owner: Upon receipt of the above-referenced two (2) Contracts executed by the Contractor, including all required bonds and insurance certificates, the properly authorized Owner representatives will execute the documents within ten (10) days. The contract shall be deemed to be completely executed when two (2) copies thereof, accompanied by the required bond, liability and other necessary insurance and signed by the Contractor, are executed by the Owner. All awards shall comply with the Anchorage School District Purchasing and Contracting Policy 3311. Awards of $500,000 or more shall be presented to the School Board for their approval.

1.18 PERFORMANCE BOND AND PAYMENT BOND

A. The successful bidder will furnish a Performance Bond and a Payment Bond in accordance with Section 00700, Paragraph 7.5.

1.19 INSURANCE

A. The successful bidder will furnish complete Certificates of Insurance, as required by the General Conditions and Supplementary Conditions, in a form acceptable to the Owner.

1.20 NOTICE TO PROCEED

A. The Owner will issue a Notice to Proceed with the work within ten (10) days following the Owner's execution of the contract. The date of commencement of the work shall be the date established in the Notice to Proceed. The Owner will not be responsible for any costs incurred by the Contractor prior to the Notice to Proceed.

1.21 AGGRIEVED BIDDERS

A. Protest:

1. An interested party may protest a solicitation or a proposed award of a contract.

a. A protest as to the specifications and/or terms and conditions of a solicitation must be received by the Purchasing Senior Director at least five (5) calendar days prior to the due date of the bid or proposal; failure to protest as provided herein constitutes a waiver of any objection to the solicitation.
b. For construction projects and architectural/engineering design services, the protest of a proposed award of a contract must be received by the Purchasing Senior Director within ten (10) calendar days after issuance of the notice of intent to award, except that for purchases under $100,000, the protest must be received within three (3) business days.
c. For goods or services, the protest of a proposed award of a contract must be received by the Purchasing Senior Director within seven (7) calendar days after issuance of the notice of intent to award, except that for purchases under $100,000, the protest must be received within three (3) business days.
d. The protest must include the name of the person submitting the protest, the name of the bidder/proposer represented by that person, the specific action or bid/request for proposal contract award which is being protested, a detailed explanation of the reasons for the protest, and the relief requested.

e. The aggrieved person must serve all other interested parties with its protest.

2. The Purchasing Senior Director shall stay the intended award of a contract unless the Purchasing Senior Director determines the award of the contract without further delay is necessary to protect the District's best interest.
3. The Purchasing Senior Director may, in his/her sole discretion, hold a hearing.
4. The rights and remedies granted by this section are not available for informal small purchases with an actual or potential value of less than twenty-five thousand dollars ($25,000).
5. Failure to protest as provided herein constitutes a waiver of any objection to the solicitation and contract award.

B. Appeal:

1. A decision by the Purchasing Senior Director may be appealed to the Anchorage School Board.
2. Any appeal shall be filed with the_Superintendent within five (5) days after the decision is received by the protester and must include the name of the person submitting the appeal, the name of the bidder/proposer represented by that person, and a detailed explanation of the basis for the appeal.
3. The aggrieved bidder/proposer must serve all other interested parties with its appeal.
4. The Superintendent may obtain an independent review of the appeal issues if the Superintendent determines such review will assist consideration of the appeal.
5. The independent review shall be conducted by a not directly involved District employee or an experienced but disinterested third party from outside the District.
6. Failure to appeal to the Anchorage School Board as provided herein constitutes a waiver of any objections to the solicitation and the contract award.

C. Consideration of Appeal:

1. The decision being appealed and the findings from the independent review, if any, will be reported to the Board.
2. Upon consideration of the appeal and allowing interested parties an opportunity to address the issues on appeal, the Board may:

a. Award the contract as recommended, if applicable, indicating its reasons for rejecting the appeal;
b. Grant the appeal, indicating its reasons for granting the appeal, and determine an appropriate remedy consistent with AR3311.1(c).1 of Board Policy. The Board may award the contract at that meeting to some other bidder/proposer if it finds that a delay in making the award would adversely affect the District;
c. Stay any award of the contract to permit further consideration of the appeal, with action to be scheduled as soon as practicable, but in no event more than twenty (20) days after the stay as initiated;
d. Reject all bids/proposals.
e. Take such other action as appears appropriate and in the best interest of the District under the circumstances.

D. Frivolous Protests:

1. Signature on Protest Constitutes Certificate

The signature of an attorney or party on a request for review, protest, motion, or other document constitutes a certificate by the signer that the signer has read the document, to the best of his/her knowledge, information, and belief formed after reasonable inquiry it is well grounded in fact and is warranted by existing law or a good faith argument for the extension, modification, or reversal of existing law, and that it is not interposed for an improper purpose, such as to harass, limit competition, or to cause unnecessary delay or needless increase in the cost of the procurement or of the litigation.

2. Sanctions for Violation
If a request for review, protest, pleading, motion, or other document is filed with the Purchasing Senior Director is signed in violation of Board Policy AR3311.1(c).1, the Board, may impose upon the person who signed it, a represented party, or both, an appropriate sanction, that may include an order to pay to the other party or parties the amount of the reasonable expenses incurred because of the filing of the protest, pleading, motion, or other paper, including a reasonable attorney's fee.

1.22 GUARANTEE SECTION

A. Whether or not there appears here or elsewhere herein specific reference to guarantees of all items of material, equipment or workmanship, they nevertheless shall be so guaranteed against defects for which the Contractor is responsible that may develop or become evident within a period of one (1) year from and after final acceptance of the work by the Owner. This guarantee shall be understood to imply prompt attention to any remedy of such defects as those mentioned above if and as they occur after the Contractor shall have written notice of their existence. If the defect, in the opinion of the Owner, is of such nature as to demand immediate repair, the Owner shall have the right to make them and the cost thereof shall be borne by the Contractor.

1.23 SUBCONTRACTORS

A. All subcontractors proposed for the work must be acceptable to the Owner.

B. The Owner reserves the right to request the proposed subcontractors to complete qualification forms and/or current financial statements prepared by a Certified Public Accountant.

1.24 MINIMUM WAGE RATES

A. Labor required for the construction of this project is subject to the minimum wage rates as provided in the General Requirements.

1.25 NON DISCRIMINATION

A. No bidder/offeror on any District contract may illegally discriminate on the basis of sex, race, color, religion, gender identity, sexual orientation, national origin, ancestry, age, marital status, changes in marital status, pregnancy, parenthood, physical or mental disability, Vietnam era veteran status, genetic information, or good faith reporting to the board on a matter of public concern in employment, provision of services, or otherwise.

B. Any bidder/offeror submitting a bid or proposal of one hundred thousand ($100,000) or more must certify that if awarded a contract on the basis of that bid or proposal, he/she as the contractor will not illegally discriminate against any member or applicant for employment because of sex, race, color, religion, gender identity, sexual orientation, national origin, ancestry, age, marital status, changes in marital status, pregnancy,

parenthood, physical or mental disability, Vietnam era veteran status, genetic information, or good faith reporting to the board on a matter of public concern in employment, provision of services, or otherwise.

1. Notice of Compliance

   a. All successful bidders/offerors shall insure such non-discrimination.
   b. All successful bidders/offerors must agree to post in conspicuous places, available to employees and applicants for employment, notice setting forth the provisions of this non-discrimination section and this section shall be deemed to be a part of every contract entered into by the District under these policies.

2. Minority Business Enterprises

   a. The District requires adherence to the Anchorage Municipal Code, relating to Minority Business Enterprises and will monitor and implement these policies through the District's Equal Employment Opportunity Director (EEO).
   b. It is the policy of the District that socially and economically disadvantaged minority businesses located within the Municipality of Anchorage be afforded an equitable opportunity to participate in District contracts.
   c. Any appeal from a decision of the Equal Employment Opportunity Director shall be to the Superintendent and, if not satisfied, to the Board.

1.26 ASBESTOS FREE MATERIALS

A. The bidder, by submitting a bid on this project, thereby certifies and guarantees to the Anchorage School District that any products or materials sold, used or installed under the terms of this contract will not contain any asbestos. In the event the product sold does not conform to the above standards, the buyer may return the product for correction or replacement at the seller's option and at the seller's expense. Services performed by the seller which do not conform to the above standards must be corrected by the seller at the seller's expense or make the appropriate correction within a reasonable time.

1.27 CONFLICT OF INTEREST

A. The Contractor agrees to certify that Anchorage School District employees, School Board members, or a member of their household are not in conflict of interest with the contract and Board Policy as follows (AR3311.1(e).1 Disclosure and Waiver of Conflict of Interest):

1. No Board member, employee, or a member of their household, shall acquire, directly or indirectly, an economic interest in a District or Municipal contract, or engage in business with the District or the municipality, unless the contract is competitively solicited and other requirements of Section 3311 of Board Policy and section 1.15 of the Anchorage Municipal Code are met.
2. The following acts and circumstances shall not be deemed to be in conflict with the performance of official duties if, at the earliest opportunity after having acquired such knowledge, the Board member or employee files a disclosure pursuant to AR3311.1(e).1 or requests and obtains a waiver pursuant to Board Policy AR3311.1(e).2:

   a. Such person owns a sole proprietorship, or is a partner in a partnership, or is an officer, director, major shareholder (five percent (5%) or more of the outstanding shares) or has management control in a corporation that

submits a bid, proposal or quotation to the District or attempts to enter or enters into a contract with the District;

b. Such person has any significant (five percent (5%) or more) financial interest in any sale, lease or rental to the District of any service or property and such person has knowledge that the District intends to purchase, lease or rent the property or service;

c. Such person wishes to sell or receive royalties on books or materials sold to the District for use in the school system for which the employee is the author;

d. Such person is an employee who has been providing private services to a child who transfers to a new school or class or advances to a higher grade and the child becomes a student in the class being taught/aided by his/her provider.

B. Board Members, District employees, and their household and/or immediate family members are required to comply with Board Policies and the Municipal Ethics Code by disclosing conflicts of interest.

1. When a board member, employee, or their household and/or immediate family member intends to do business with the District, the appropriate District and Municipal forms must be filed by the Board Member or District employee with the Municipal Clerk's Office and the Purchasing Department.

> Note: *Notice of Intent To Respond To Public Solicitation* shall be filed with the Municipal Clerk's office in advance to allow a minimum of **7 calendar days to elapse between electronic publication by the clerk and the final date** for submitting a response to the solicitation. The form may be obtained from the Municipality of Anchorage website, www.muni.org.
>
> District *Disclosure* and *Request for Waiver* forms and instructions may be obtained from the Purchasing Bid Information link under Quick Links on the ASD website, www.asdk12.org.

2. The responsibility for complete and timely filing rests solely with the Board Member or District employee.

C. Copies of all conflict of interest and ethics code documents should be submitted with your quote.

1.28 CONTRACT INDUCEMENTS

A. No payment, gratuity or offer of employment shall be made in connection with any contract, by or on behalf of the subcontractor to the prime contractor or higher tier subcontractor or any person associated therewith, as an inducement for the award of a subcontract or order.

1.29 GOVERNANCE

A. This solicitation is an Invitation to Bid ("ITB") governed by applicable Anchorage School Board Policies, including Section 3311 of such Policies. Anchorage School Board Policies are available at https://www.boardpolicyonline.com/?b=anchorage

Offerors should read this ITB carefully and review all instructions contained herein. Incomplete or incorrect bids may be rejected as not conforming to the essential

requirements of the ITB. Bids submitted on other than the prescribed forms contained in this ITB will be rejected. Bidders may copy the forms contained in the ITB for use in their bids, but substitute forms or formats are unacceptable. Electronic copies of the forms which bidders must submit as part of any bid, if any—if not provided with this ITB—may be obtained by contacting the Anchorage School District Purchasing Department. Forms shall not be altered except to supply requested bidder information.

1.30 APPRENTICESHIP UTILIZATION COMPLIANCE

A. In order to be deemed a responsive bid/offer, bidders/offerors shall provide a signed notarized Apprenticeship Utilization Affidavit ("AUA") with their bid. ASD reserves the right to request the signed notarized AUA to be submitted within three (3) working days after bid submission. By doing this, bidders/offerors are confirming that they understand and agree that in all trades/crafts categories in which there is an Alaskan Federally Registered Apprenticeship Program, they will ensure that 15% of the aggregate hours in those trades' categories will be worked by apprentices, as mandated by Anchorage School Board Policy 3311.1.2. This applies to both prime contractor labor hours and subcontractor labor hours. By signing the AUA, bidders/offerors are confirming their understanding and agreement that ASD will request documentation to factually demonstrate compliance with the 15% Apprenticeship Utilization Policy ("AUP"), and conduct audits. Audits for projects will be conducted every 30 days. In addition to providing documentation to ASD to confirm that 15% of the labor hours worked in trades/crafts categories that have Alaskan Federally Registered Apprenticeship Program has been done by certified apprentices enrolled in such programs, the prime contractor will provide documentation to confirm that the apprentices listed on the documentation submitted are currently in good standing in their Alaskan Federally Registered Apprenticeship Program. Attached to the solicitation will be the current version of the Federally Registered Alaskan Apprenticeship Programs, which was provided to ASD by the Federal Department of Labor.

B. Forms used to demonstrate compliance during the contract administration period are found in Section 00630 Construction Forms.

1. List of Federally Registered Alaskan Apprenticeship Programs

a. This list from the Federal Department of Labor will provide contractors with a list of Alaskan apprenticeship programs and crafts/trades categories that are subject to ASD's AUP.

2. Apprenticeship Utilization Form

a. The Prime Contractor will list the crafts/trades categories required to complete the project that have Alaskan Federally Registered Apprenticeship Programs. This list will include all crafts/trades categories for both the prime and subcontractors.

3. Apprenticeship Utilization Program Calculation Form

a. This form will be submitted by the prime contractors to demonstrate compliance with the apprenticeship utilization percentage for both prime and subcontractors on the project.
b. Audits will be performed when the hours submitted by the prime's and/or subcontractor's certified payroll exceed 500 hours. Audits will continue as per the schedule unless the prime's and the subcontractor's certified

payroll does not meet the minimum threshold of 500 hours. Prime and Subcontractors will be required to submit certified payrolls during periods where very little work is being performed. This will continue until the minimum threshold of 500 hours is met and warrants an audit. Audits will be conducted from Site Available to Contractors through Final Completion on all projects awarded by the District in excess of $100,000 at the time of bid.

4. Penalty Table

   a. This table lists the penalties for non-compliance with the AUP.

C. Prime Contractors are required to meet with Purchasing to discuss forms and processes of Apprentice Utilization Program prior to start of work.

END OF SECTION

PROJECT SCHEDULE MILESTONE DATES

On-Site Visit ..... September 17, 2025

Pre-bid Conference ..... September 18, 2025

Bid Opening ..... October 2, 2025

Board Meeting (anticipated) ..... October 21, 2025, Non-Action, November 4, 2025, Action

Notice to Proceed (anticipated) ..... November 20, 2025

Site Available to Contractor ..... May 21, 2026

Substantial Completion – Building ..... July 31, 2026

Substantial Completion - Site ..... August 7, 2026

Final Completion ..... December 31, 2026

Dates of Interest:

Indigenous Peoples Day ..... October 13, 2025
Parent Teacher Conferences ..... October 22 – 23, 2025
Thanksgiving Holiday ..... November 27 – 28, 2025
Winter Vacation ..... December 22, 2025 – January 2, 2026
Martin Luther King Holiday ..... January 19, 2026
Presidents Day Holiday ..... February 16, 2026
Spring Break Week ..... March 9 – 13, 2026
School Ends for Students ..... May 20, 2026
Teachers Last Day ..... May 21, 2026
Memorial Day Holiday ..... May 25, 2026
Juneteenth Holiday ..... June 19, 2026
Independence Day ..... July 4, 2026

The Contractor shall be required to plan, schedule, execute and complete all work under the contract in accordance with the Project Schedule Milestone Dates set forth under this Section 00200. The above listed Project Schedule Milestone Dates for Substantial Completion and Final Completion may not be altered by the Contractor, either to schedule or to achieve early completion of the project, without the express written consent of the Owner.

The bidder's attention is drawn to the requirements of Division 1, Section 01311 of the General Requirements entitled Project Schedule and to the Phasing Drawings for associated phasing information.

END OF SECTION

Project Title: Klatt ES Loading Dock Awning | Invitation to Bid Number: 2026 – 801

TO: Anchorage School District
4919 Van Buren Street
Anchorage, Alaska 99517

FROM: _____BIDDER

_____ADDRESS

_____CITY/STATE

_____PHONE/FAX

_____EMAIL

Operating as (strike out conditions that do not apply) an individual, a company, a corporation, organized and existing under the laws of the State of _____, or a proprietorship, a partnership, or joint venture consisting of _____

_____.

1. BASE BID:

Having become completely familiar with the local conditions affecting the cost of the work at the place where work is to be executed, and having carefully examined the site and building conditions as they currently exist, and having carefully examined the proposed contract documents, together with any addenda to such contract documents as listed hereinafter, the undersigned hereby proposes and agrees to provide all labor, materials, equipment, transportation, supervision and other facilities as necessary and/or required to execute all of the work described by the aforesaid contract documents for the lump sum consideration of:

$ _____ (In Numbers)

Said amount being hereinafter referred to as the base bid, base bid proposed, or lump sum.

2. ALTERNATES:

The undersigned proposes to perform alternates for the stated resulting additions or deductions from the base bid. Additions and deductions shall include any modifications of work or additional work that the undersigned may deem to be required to perform by reason of the acceptance or rejection of any alternate, including allowances for overhead and profit, and in accordance with the Project Schedule Milestone Dates set forth under Section 00200 hereof. The Owner reserves the right to award the alternates in any order or number and include them in the contract award price.

A. Alternate Number One: Remove and replace Automatic Transfer Switch (ATS) and related electrical conduits and system disconnections/reconnections. Verifying the system reconnection requirements after the CEA, MOA and ASD Maintenance & Operations inspections.

Adjust Base Bid by ADDING: $_____ (In Numbers)

3. UNIT PRICES:

The following unit prices will be used at the discretion of the Owner for the addition or deletion of work not reasonably implied or not included in the Contract Documents. Unit prices must include all labor, material, overhead, and profit for each unit of work. All unit price work will be processed by Request for Proposal followed by a Change Order to the Contract when quantities are verified and agreed upon.

A. None

4. ALLOWANCES / ASSIGNMENTS:

A. None

5. ADDENDA ACKNOWLEDGMENT:

The undersigned acknowledges receipt of the following addenda: (List by number and date appearing on addenda.)

_____

_____

_____

6. TIME OF COMPLETION:

The undersigned agrees to complete all work under this contract in accordance with the Project Schedule Milestone Dates set forth under Section 00200 hereof.

7. BID SECURITY:

A bid bond in the amount of five percent (5%) of the total amount of the base bid is attached in the sum of:

$ _____ (In Numbers)

which is to become the property of the Owner in the event the Performance Bond and Payment Bond are not executed within the time set forth in paragraph 10 of this section, as liquidated damages for the delay and additional work caused the Owner.

8. The undersigned agrees that upon receipt of the notice of acceptance of his bid, he will execute the formal contract, and will deliver all proper bonds and proof of insurance coverage as may be required by the contract documents.

9. The undersigned agrees to accept the Assignment of the Bid Allowance as set forth in Section 01031, Bid Allowances.

10. The undersigned further agrees to execute the formal contract within ten (10) days from the date of the notice of acceptance of this bid, and in case the undersigned fails or neglects to appear within the specified time to execute the contract, the undersigned will be considered as having abandoned the contract, and the bid bond accompanying this bid will be forfeited to the Owner by

reason of such failure on the part of the undersigned.

11. The undersigned further agrees to commence with the work under the contract in accordance with the date of commencement of the Work established in the Notice to Proceed.

12. The undersigned further agrees that the bid security may be retained by the Owner and that said bid guarantee shall remain with the Owner until the contract has been executed by the Owner.

13. The undersigned has checked all of the above figures, and understands that the Owner will not be responsible for any errors or omissions on the part of the undersigned in preparing this bid.

14. In submitting this bid, it is understood that the right is reserved by the Owner to reject any or all bids and waive any informalities and irregularities in connection therewith. It is agreed that this bid may not be withdrawn for a period of forty-five (45) days from the date and time of opening.

15. The undersigned declares that the person or persons signing this Bid Form is/are fully authorized to sign on behalf of the firm listed and to fully bind the firm listed to all the conditions and provisions thereof.

16. It is agreed that no person or persons or company other than the firm listed below or as otherwise indicated has any interest whatsoever in this bid or the contract that may be entered into as a result of the bid and that in all respects the proposal is legal and firm, submitted in good faith without collusion for fraud.

17. It is agreed that the undersigned has complied or will comply with all requirements of local, state and national laws, and that no legal requirement has been or will be violated in making or accepting this bid in awarding the contract to him and/or in the prosecution of the work required.

18. CONFLICT OF INTEREST:

I certify no member of the School Board or District employee, or spouse or other member of his/her household shall have any undisclosed interest as noted in paragraph entitled Conflict Of Interest (Section 00100). By and for the bidder:

Signature: _____

19. APPRENTICESHIP UTILIZATION AFFIDAVIT (FOR BIDS OVER $100,000)

Pursuant to School Board Policy 3311.1.2, Use of Apprentices, I _____

the undersigned Principal for _____

on Solicitation _____ certify:

A. I understand that Anchorage School District (“ASD”) School Board Policy 3311.1.2 states, “For capital maintenance and construction projects with an estimated total cost of more than $100,000, the Anchorage School District shall require that no less than fifteen percent (15%) of the total hours worked on the project shall be performed by apprentices enrolled in a federally registered or State of Alaska-approved apprenticeship program. This requirement shall only apply to crafts for which an Alaskan federally registered apprenticeship program exists.”

B. I will ensure that apprentices employed by the prime and sub-contractors, in the eligible trades categories, will provide no less than fifteen percent (15%) of the aggregate labor hours of those eligible trades categories.

C. I understand that if awarded a contract in excess of $100,000, ASD will audit the prime contractor at 30-day intervals. ASD reserves the right to audit at random intervals as needed.

D. I understand ASD will conduct random site inspections to determine that employed apprentices are working at the project site.

E. I understand that if I am awarded a contract ASD will require the following specific reporting requirements during the contract performance period to ensure that the 15% apprenticeship utilization requirement is met:
   a. List of the apprentices the prime contractor intends to use to meet the utilization goal, and the Alaskan federally registered apprenticeship programs to which they belong (Apprenticeship Utilization Form);
   b. List of the subcontractors that the prime contractor will use on this project;
   c. List of the apprentices the subcontractor intends to use to meet the utilization goal required by the prime contractor, and the apprenticeship programs they belong to (Apprenticeship Utilization Form);
   d. Submission of Apprenticeship Utilization Program Calculations Form, to be submitted by the prime contractor, at 30-day intervals for contracts exceeding $100,000, consisting of a compliance spreadsheet, with supporting documents demonstrating compliance by both the prime contractor and all subcontractors, identifying the trades categories that are subject to the utilization requirement, apprentice employees used to meet the goals, and apprentice hours calculation showing compliance with the required 15% utilization when compared to total hours worked in the eligible trades categories.

F. I understand a non-compliance penalty for projects exceeding $100,000 will be assessed at each 30-day audit per the Penalty Table, if I am found to be non-compliant during the contract period.
   a. Failure to comply at 1st 30-day audit will result in a penalty per the Penalty Table, which will be deducted from the prime contractor's invoice.
   b. Failure to comply in a consecutive 2nd 30-day audit will result in a penalty per the Penalty Table, which will be deducted from the prime contractor's invoice.
   c. Failure to comply in a consecutive 3rd 30-day audit will result in a penalty per the Penalty Table, which will be deducted from the prime contractor's invoice.
   d. Failure to comply in a consecutive 4th 30-day audit will result in a penalty per the Penalty Table, which will be deducted from the prime contractor's invoice, and may result in a finding of non-responsibility on future bidding. (This penalty will repeat for any future non-compliance.)

G. <u>Application of the Penalty Table:</u>
   a. Advancement of penalties in the Penalty Table will only be assessed for consecutive non-compliance. If the contractor gets back into compliance, any future non-compliance will be assessed at the beginning step of the Penalty Table, per the applicable contract threshold category.

H. <u>Lack of Apprentice(s) availability:</u>
   a. If a contractor is awarded a contract but cannot meet the apprenticeship utilization requirement, and fail an audit, the contractor will have the opportunity to request a waiver from the apprenticeship utilization requirement. A waiver will only be granted if the contractor can factually demonstrate that the cause was from a lack of available apprentices in eligible trades categories.

I. ASD will provide the List of Alaskan Federal Registered Apprenticeship Programs, which contains the crafts/trades categories within those federally registered programs. Once per year, ASD will receive the updated List of Alaskan Federal Registered Apprenticeship

Programs from the Federal Department of Labor to capture any new Alaskan Federally Registered Apprenticeship Programs that have been added, or to capture any that have been dissolved or discontinued. The List of Alaskan Federal Registered Apprenticeship Programs provided to ASD by the Federal Department of Labor will be posted on ASD's website, as contained in the solicitation, so contractors have access to it.

J. Definitions:

a. **Alaskan Federally Registered Apprenticeship Programs** are programs approved by the Federal Department of Labor, US DOL Office of Apprenticeship.
b. **Eligible Trades Categories** are the crafts/trades categories that fall under an Alaskan Federally Registered Apprenticeship Program. Eligible Trades Categories will be the categories measured for aggregate project hours and apprentice hours to establish the apprenticeship utilization percentage.
c. **The List of Alaskan Federal Registered Apprenticeship Programs** is a current list provided by ASD to contractors that shows the Alaskan Federally Registered Apprenticeship Programs and the eligible trades categories under those programs. That current list will be the list in effect and in force during the issuance of the solicitation. Any changes to the list will affect future solicitations and will not be retroactive to prior solicitations.
d. **Random Site Inspections** are defined as non-scheduled site inspections, in which ASD's representative will visit the project site to establish if apprentices are physically on-site. ASD will provide a minimum of 24 hours' notice to contractors prior to the site inspections.
e. **Consecutive Non-Compliance** is when a contractor consecutively fails to meet the required apprenticeship utilization percentage. If a contractor fails an audit, but then passes the next audit, any future non-compliance will be addressed at the first step of the Penalty Table per the contract values in the table.
f. **The Measurement of Aggregate Apprenticeship Utilization Hours** is defined by the following. Compliance will be audited at 30-day intervals for projects exceeding $100,000. Each 30 day audit period will be measured independently for aggregate apprenticeship utilization hours. If a contractor does not meet the 15% apprenticeship utilization requirement in an audit period, a penalty will be assessed, per the penalty table. However, the deficiency in percentage of apprenticeship utilization hours, will not be carried forward from one audit period to the next. Contractors will only be required to meet the 15% apprenticeship utilization requirement in each audit period, which will be measured independently. In addition, if the aggregate hours for all audit periods for the entire project are 15% or greater, any previously assessed penalties for non-compliance in an audit period will be rescinded.
g. **Finding of non-responsibility:** If ASD determines a contractor to be non-responsible, they will not be permitted to bid on ASD projects.

IN WITNESS WHEREOF, the signature of the undersigned Contractor has been hereunto set this

_____ day of _____, 20____, at _____, Alaska.

Signature: _____

Printed Name: _____

I, _____, being first duly sworn, say that I am the agent for and executed the foregoing under authority of said company to do so; that I have read the same, know the contents thereof, and the matter set forth therein are as I truly believe.

Signature: _____

Subscribed and sworn to before me this _____ day of _____, 20___, at _____, Alaska.

Notary Public in and for: _____

My Commission Expires: _____.

20. LICENSE NUMBER(S):

Alaska Business License Number: _____

Alaska General or Specialty Contracting License Number: _____

Respectfully Submitted, this _____ day of _____, 20__.

Firm Name:_____

Federal Tax ID: _____

Address: _____

_____

Signature:_____

Name (Typed):_____

Title: _____

CORPORATE SEAL (if applicable)

ENCLOSURES:

1. Bid Guarantee (in the form and amount specified or required, include Power of Attorney For Surety)

END OF SECTION

OWNER – CONTRACTOR AGREEMENT FORM

REFERENCE:

1. The form of agreement between the Owner and the Contractor shall be the form bound herein.

2. The Agreement shall be executed in duplicate.

CONTRACT NO. XXCXXXX
SCHOOL PROJECT TITLE
ITB 202X-8XX
ASD PROJECT NO.

Board Memo No.: N/A or Number
Date of Contract: Date of Contract

Company
Address
City, State, Zip

(_) Sole Proprietorship
(_) Partnership
(_) Incorporated in the State of Alaska

OWNER: ANCHORAGE SCHOOL DISTRICT, ANCHORAGE ALASKA

CONTRACT FOR: ITB SCHOOL PROJECT TITLE

Amount of Contract: Amount of Contract in words Dollars and No Cents

Base Bid:	$xxx,xxx.xx
Additive Alternate 1:	$xxx,xxx.xx
Siemens Allowance:	$xxx,xxx.xx
Total:	$xxx,xxx.xx

Statement of Work: The Contractor shall furnish all labor, equipment and materials and perform the work above described for the amount stated in strict accordance with Contract Documents, all of which are made a part of this Contract and designated as follows:

CONTRACT DOCUMENTS

I. This Contract, consisting of two (2) pages.
II. Section 00620 Performance Bond and Payment Bond, consisting of nine (9) pages, dated (date of contract) and attached Power of Attorney for Surety.
III. Contractor signed Bid Form, Section 00300 and signed Addendum/a consisting of four (4) or five (5) pages.
IV. Alaska Sex Offender/Child Kidnapper Registry Contractor Certification consisting of one (1) page.
V. Certificates of Insurance.
VI. Invitation to Bid (number) Project Manual dated (date) and all Drawings are hereby incorporated by reference as if in full text.

In the event of a conflict between any of the Contract Documents and the provisions of any purchase order of materials or service request issued in connection with this Contract, the provisions of the Contract Documents shall prevail.

Work shall be started in accordance with the Notice to Proceed. Time being of the essence, work shall be completed in accordance with the Project Schedule Milestone Dates set forth under Section 00200 thereof.

The ASD Project Manager for this Contract is: Insert Name of Project Manager Cell (907) XXX-XXXX, Office (907) XXX-XXXX and insert email address.

The attached performance and payment bond is in due form according to law, and is hereby approved.

SAMPLE

Date: _____

Anchorage School District Attorney

IN WITNESS WHEREOF, the parties hereto have executed this Contract as of this date entered on the first page hereof.

ANCHORAGE SCHOOL DISTRICT

David Whiting, Date
Senior Director of Purchasing/Warehouse

CONTRACTOR BUSINESS NAME

Contractor Signature Date

Contractor Print Name and Title

Corporate Seal

Account Code(s):

SAMPLE

BID BOND FORM

REFERENCE:

1. If the Bid Guarantee is submitted on Bond Form, the Bid Bond shall be the form as bound herein.

BID BOND

KNOW ALL MEN BY THESE PRESENT that we, _____ as
Contractor

PRINCIPAL, and _____,a corporation duly organized under the laws
Surety

of the State of _____, as SURETY/OBLIGOR authorized to transact surety business in the state of Alaska, are held and firmly bound unto the ANCHORAGE SCHOOL DISTRICT, as OBLIGEE, in the amount of 5% of the Base Bid Amount for payment whereof PRINCIPAL and SURETY bind ourselves, our heirs, executors, administrators, successors and assigns, jointly and severally, firmly by these present.

WHEREAS, the PRINCIPAL is herewith submitting its proposal for _____

_____

The condition of this obligation is such that if the PRINCIPAL will, within the time required, enter into a formal contract, and give a good and sufficient bond to secure the performance of the terms and conditions of the contract, then this Obligation to be void; otherwise, the PRINCIPAL and SURETY will pay unto the OBLIGEE the amount stated above.

OWNER

Anchorage School District
4919 Van Buren Street
Anchorage, Alaska 99517

CONSTRUCTION PROJECT

Solicitation No.: _____

Location: _____

_____

CONTRACTOR

Name: _____

Address: _____

City/State:_____

SURETY

Name: _____

Address: _____

City/State: _____

IN TESTIMONY WHEREOF, the parties hereunto have caused the execution of this bond on the _____ day of _____, 20____.

PRINCIPAL	**SURETY**
_____	_____
Contractor Name	Corporate Surety Name (Seal)
By: _____	By: _____
Signature	Signature
_____	_____
Typed Name and Title	Typed Name, Attorney-in-fact
_____	
WITNESS AS TO PRINCIPAL	

Note: Attach Power of Attorney for Surety Signator.

END OF SECTION

PERFORMANCE BOND AND PAYMENT BOND

REFERENCE:

1. The Performance Bond and Payment Bond shall be the forms as bound herein.

CONSTRUCTION PERFORMANCE BOND

KNOW ALL MEN BY THESE PRESENT that we, _____ as
Contractor

PRINCIPAL, and _____, a corporation duly organized under the laws
Surety

of the State of _____, as SURETY/OBLIGOR authorized to transact surety business in the state of Alaska, are held and firmly bound unto the ANCHORAGE SCHOOL DISTRICT, as OBLIGEE, in the amount

of _____

_____ Dollars

($_____), for payment whereof PRINCIPAL and SURETY bind ourselves, our heirs, executors, administrators, successors and assigns, jointly and severally, firmly by these present.

This Construction Performance Bond ("Bond") is entered into by and between the undersigned parties to ensure the faithful performance of the Construction Contract listed below.

OWNER

Anchorage School District

4919 Van Buren Street

Anchorage, Alaska 99517

CONSTRUCTION PROJECT

Solicitation No.: _____

Location: _____

BOND

Number: _____

Date: _____

Amount: _____

CONSTRUCTION CONTRACT

Number: _____

Date: _____

Amount: _____

CONTRACTOR

Name:_____

Address:_____

City/State: _____

SURETY

Name: _____

Address: _____

City/State: _____

IN TESTIMONY WHEREOF, the parties hereunto have caused the execution hereof of two (2) original counterparts as the _____ day of _____, 20____.

PRINCIPAL	**SURETY**
_____	_____
Contractor Name	Corporate Surety Name (Seal)
_____	_____
Signature	Signature
_____	_____
Typed Name and Title	Typed Name, Attorney-in-fact

_____
WITNESS AS TO PRINCIPAL

Note: Attach Power of Attorney for Surety Signator.

CONSTRUCTION PERFORMANCE BOND TERMS AND CONDITIONS

1. The CONTRACTOR and the SURETY, jointly and severally, bind themselves, their heirs, executors, administrators, successors and assigns to the OWNER for the complete and proper performance of the Construction Contract, which is incorporated herein by reference.

2. If the CONTRACTOR completely and properly performs all of its obligations under the Construction Contract, the SURETY and the CONTRACTOR shall have no obligation under this Bond.

3. If there is no OWNER Default, the SURETY's obligation under this Bond shall arise after:

   a. OWNER has declared a CONTRACTOR Default under the Construction Contract pursuant to the terms of the Construction Contract; and

   b. The OWNER has agreed to pay the Balance of the Contract Sum to:

      i. The SURETY in accordance with the terms of this Bond and the Construction Contract; or

      ii. A contractor selected to perform the Construction Contract in accordance with the terms of this Bond and the Construction Contract.

4. When the OWNER has satisfied the conditions of Paragraph 3, the SURETY shall promptly (within thirty (30) days) and at the SURETY's expense elect to take one of the following actions:

   a. Arrange for the CONTRACTOR, with consent of the OWNER, to perform and complete the Construction Contract (but OWNER may withhold consent, in which case the SURETY must election option 4b, 4c or 4d, below); or

   b. Undertake to perform and complete the Construction Contract itself, through its agents or through independent contractors; or

   c. Obtain bids from qualified contractors acceptable to OWNER for a contract for performance and completion of the Construction Contract, and, upon determination by OWNER of the lowest responsive and responsible bidder, arrange for a contract to be prepared for execution by OWNER and the contractor selected with OWNER's concurrence, to be secured with performance and payment bonds executed by a qualified SURETY equivalent to the bonds issued on the Construction Contract; and, if the SURETY's obligations defined in Paragraph 6 exceed the Balance of the Contract Sum, then the SURETY shall pay to OWNER the amount of such excess; or

   d. Waive its right to perform and complete, arrange for completion, or obtain a new contractor and, with reasonable promptness under the circumstances and after investigation and consultation with OWNER, determine in good faith the amount for which it may then be liable to OWNER under Paragraph 6 for the performance and completion of the Construction Contract and, as soon as practicable after the amount is determined, tender payment therefore to OWNER with full explanation of the payment's calculation. If OWNER accepts the SURETY's tender under this paragraph 4.d, OWNER may still hold SURETY liable for future damages then unknown or unliquidated resulting from the CONTRACTOR Default. If OWNER disputes the amount of the SURETY's tender under this paragraph 4.d, OWNER may exercise all remedies available to it at law to enforce the SURETY's liability under paragraph 6.

5. If the SURETY does not proceed as provided in Paragraph 4, then the SURETY shall be deemed to be in default on this Bond ten (10) days after receipt of an additional written notice from OWNER to the SURETY demanding that the SURETY perform its obligations under this Bond. At all times OWNER shall be entitled to enforce any remedy available to OWNER at law or under the Construction Contract including, without limitation, and by way of example only, rights to perform work, protect work, mitigate damages, or coordinate work with other consultants or contractors.

6. The SURETY's monetary obligation under this Bond is limited by the amount of this Bond. Subject to these limits, the SURETY's obligations under this Bond are commensurate with the obligations of the CONTRACTOR under the Construction Contract. The SURETY's obligations shall include but are not limited to:

   a. The responsibilities of the CONTRACTOR under the Construction Contract for completion of the Construction Contract and correction of defective work;

   b. The responsibilities of the CONTRACTOR under the Construction Contract to pay liquidated damages, and for damages for which no liquidated damages are specified in the Construction Contract, actual damages caused by non-performance of the Construction Contract, including but not limited to, all valid and proper back charges, offsets, payments, indemnities or other damages;

   c. Additional legal, design professional and delay costs resulting from the CONTRACTOR Default or resulting from the actions or failure to act of the SURETY under Paragraph 4.

7. No right of action shall accrue on this Bond to any person or entity other than OWNER or its heirs, executors, administrators, or successors.

8. The SURETY hereby waives notice of any change, alteration or addition to the Construction Contract or to related subcontracts, purchase orders and other obligations, including changes of time. The SURETY consents to all terms of the Construction Contract, including provisions on changes to the Contract. No extension of time, change, alteration, modification, deletion, or addition to the Contract Documents, or of the work required thereunder, shall release or exonerate SURETY on this Bond or in any way affect the obligations of SURETY on this Bond.

9. Any proceeding, legal or equitable, under the Bond shall be instituted in the Superior Court for the State of Alaska, Third Judicial District.

10. Notice to the SURETY, OWNER or the CONTRACTOR shall be mailed or delivered to the address shown on the front page.

11. Any provision in this Bond conflicting with any statutory or regulatory requirement shall be deemed deleted herefrom and provisions conforming to such statutory requirement shall be deemed incorporated herein.

12. Definitions.

   a. Balance of the Contract Sum: The total amount payable by OWNER to the CONTRACTOR pursuant to the terms of the Construction Contract after all proper adjustments have been made under the Construction Contract, for example, deductions for progress payments made, and increases/decreases for approved modifications to the Construction Contract.

   b. Construction Contract: The agreement between OWNER and the CONTRACTOR identified on the signature page, including all Contract Documents and changes thereto.

c. CONTRACTOR Default: Material failure of the CONTRACTOR which has neither been remedied nor waived, to perform or otherwise to comply with the terms of the Construction Contract, including but not limited to, the provisions of Article 14 of the General Conditions of the Construction Contract.

d. OWNER Default: Material failure of OWNER, which has neither been remedied nor waived, to pay the CONTRACTOR progress payments due under the Construction Contract or to perform other material terms of the Construction Contract, if such failure is the cause of the asserted CONTRACTOR Default and is sufficient to justify CONTRACTOR termination of the Construction Contract.

PAYMENT BOND

KNOW ALL MEN BY THESE PRESENT that we, _____ as
Contractor

PRINCIPAL, and _____ a corporation duly organized under the laws
Surety

of the State of _____, as SURETY/OBLIGOR authorized to transact surety business in the state of Alaska, are held and firmly bound unto the ANCHORAGE SCHOOL DISTRICT, as OBLIGEE, in the amount

of _____ Dollars

($_____), for payment whereof PRINCIPAL and SURETY bind ourselves, our heirs, executors, administrators, successors and assigns, jointly and severally, firmly by these present.
This Payment Bond ("Bond") is entered into by and between the undersigned parties to ensure the faithful performance of the Construction Contract listed below.

OWNER

Anchorage School District

4919 Van Buren Street

Anchorage, Alaska 99517

CONSTRUCTION PROJECT

Solicitation No.: _____

Location: _____

BOND

Number:_____

Date:_____

Amount: _____

CONSTRUCTION CONTRACT

Number: _____

Date: _____

Amount: _____

CONTRACTOR

Name:_____

Address: _____

City/State:_____

SURETY

Name: _____

Address: _____

City/State: _____

IN TESTIMONY WHEREOF, the parties hereunto have caused the execution hereof of two (2) original counterparts as the _____ day of_____, 20_____.

PRINCIPAL	**SURETY**
_____	_____
Contractor Name	Corporate Surety Name (Seal)
_____	_____
Signature	Signature
_____	_____
Typed Name and Title	Typed Name, Attorney-in-fact

_____
WITNESS AS TO PRINCIPAL

Note: Attach Power of Attorney for Surety Signator.

PAYMENT BOND TERMS AND CONDITIONS

The condition of this obligation is such that if the PRINCIPAL shall promptly make payment to all Claimants who furnish labor or materials in the prosecution of the Work provided for in the Construction Contract, then this obligation shall be void; otherwise, it shall remain in full force and effect.

This Bond has been furnished to comply with Alaska Statute 36.25.010, and to allow enforcement rights pursuant to Alaska Statute 36.25.020. Any provisions in this Bond conflicting with said statutory requirements shall be deemed deleted herefrom and provisions conforming to such statutory requirements shall be deemed incorporated herein.

The SURETY hereby waives notice of any change, alteration or addition to the Construction Contract or to related subcontracts, purchase orders and other obligations, including changes of time. The SURETY consents to all terms of the Construction Contract, including provisions on changes to the Contract. No extension of time, change, alteration, modification, deletion, or addition to the Contract Documents, or of the work required thereunder, shall release of exonerate SURETY on this Bond or in any way affect the obligations of SURETY on this Bond.

END OF SECTION

SAMPLE FORMS AND CERTIFICATES

A. GENERAL

A.01 RELATED WORK SPECIFIED ELSEWHERE

A. Comply with the contract conditions requirements and specified administrative procedures in closing-out work.

A.02 RELATED REQUIREMENTS SPECIFIED ELSEWHERE

A. Section 01700: Project Close-out

B. General and Supplementary General Conditions

A.03 APPLICATION AND CERTIFICATE FOR PAYMENT

A. Use Anchorage School District Form 100, 100A, 100B, and 100C attached herein.

A.04 CERTIFICATION OF SUBSTANTIAL COMPLETION

A. Use Anchorage School District Form 101 attached herein.

A.05 CONTRACTOR'S AFFIDAVIT OF PAYMENT OF DEBTS AND CLAIMS

A. Use Anchorage School District Form 102 attached herein.

A.06 RELEASE ON CONTRACTS

A. Use Anchorage School District Form 103 attached herein.

A.07 CONSENT OF SURETY COMPANY TO FINAL PAYMENT

A. Use Anchorage School District Form 104 attached herein.

A.08 CONSENT OF SURETY TO REDUCTION IN OR PARTIAL RELEASE OF RETAINAGE

A. Use Anchorage School District Form 105 attached herein.

A.09 CERTIFICATES OF INSURANCE

A. The contractor’s Certificate of Insurance shall be on an industry standard form with, as a minimum, the categories and clauses on the Accord form with contractual clauses for contract number and description, subrogation waiver, additional insured and cancellation notification.

A.10 REQUEST FOR INFORMATION

A. Contractor’s requests for information shall be on Anchorage School District request for information forms.

A.11 PRIME CONTRACT POTENTIAL CHANGE ORDER (PCO)

A. Proposals will be executed on Anchorage School District PCO forms.

A.12 CERTIFICATE OF COMPLIANCE

A. The Contractor shall submit a notarized Certificate of Compliance, contained in this section, with his application for Final Payment.

A.13 WARRANTY OF WORK

A. The Contractor shall furnish to the Owner a notarized Warranty of Work after Final Payment, contained in this section, with his application for Final Payment.

A.14 AHERA EXCLUSION DOCUMENT

A. The Contractor shall furnish to the Owner a signed AHERA Exclusion Document, contained in this section, with his application for Final Payment.

A.15 PRIME CONTRACT CHANGE ORDER (PCCO)

A. Change Orders/Contract Modifications will be executed on Anchorage School District PCCO forms.

A.16 CONTRACTOR'S QUALITY CONTROL REPORT (CQC)

A. The Contractor shall complete the CQC Report in accordance with Section 01400.

A.17 DEPARTMENT OF LABOR NOTICE OF WORK

A. The Contractor shall furnish to the Department of Labor a Notice of Work prior to start of construction.

A.18 DEPARTMENT OF REVENUE TAX CLEARANCE REQUEST FORM

A. For projects funded through the Department of Education (debt reimbursement or DEED grants), the Contractor shall furnish to the Owner a Tax Clearance Request Form approved by the Department of Revenue, contained in this section, with his application for Final Payment.

A.19 DEPARTMENT OF LABOR TAX CLEARANCE REQUEST FORM

A. For projects funded through the Department of Education (debt reimbursement or DEED grants), the Contractor shall furnish to the Owner a Tax Clearance Request Form approved by the Department of Labor, contained in this section, with his application for Final Payment.

A.20 SUBMITTAL CONTROL FORM

A. Submittals will be executed on Anchorage School District Submittal Control Forms.

A.21 STATE OF ALASKA SEX OFFENDER/CHILD KIDNAPPER REGISTRY CONTRACTOR CERTIFICATION

A. Contractor certifies contractor is familiar with and is in compliance with Anchorage School Board Policy 3515.5, that no employee or agent of contractor who will be on district property is registered as a sex offender or child kidnapper in Alaska [Alaska Department of Public Safety "Sex Offender/Child Kidnapper Registry"] or in any other state in which the

employee or agent previously lived or worked, and that, to contractors knowledge, no employee or agent is a convicted sex offender or child kidnapper.

A.22 STATE OF ALASKA SEX OFFENDER/CHILD KIDNAPPER REGISTRY SUBCONTRACTOR CERTIFICATION

A. Subcontractor certifies subcontractor is familiar with and is in compliance with Anchorage School Board Policy 3515.5, that no employee or agent of subcontractor who will be on district property is registered as a sex offender or child kidnapper in Alaska [Alaska Department of Public Safety “Sex Offender/Child Kidnapper Registry”] or in any other state in which the employee or agent previously lived or worked, and that, to subcontractors knowledge, no employee or agent is a convicted sex offender or child kidnapper.

A.23 STATE OF ALASKA SEX OFFENDER/CHILD KIDNAPPER REGISTRY SUB-SUBCONTRACTOR CERTIFICATION

A. Sub-subcontractor certifies sub-subcontractor is familiar with and is in compliance with Anchorage School Board Policy 3515.5, that no employee or agent of sub-subcontractor who will be on district property is registered as a sex offender or child kidnapper in Alaska [Alaska Department of Public Safety “Sex Offender/Child Kidnapper Registry”] or in any other state in which the employee or agent previously lived or worked, and that, to sub-subcontractors knowledge, no employee or agent is a convicted sex offender or child kidnapper.

A.24 LIST OF FEDERALLY REGISTERED ALASKAN APPRENTICESHIP PROGRAMS

A. This list from the Federal Department of Labor will provide contractors with the list Alaskan apprenticeship programs and crafts/trades categories that are subject to ASD’s AUP.

A.25 APPRENTICESHIP UTILIZATION FORM

A. The Prime Contractor will list the crafts/trades categories required to complete the project that have Alaskan Federally Registered Apprenticeship Programs. This list will include all crafts/trades categories for both the prime and subcontractors.

A.26 APPRENTICESHIP UTILIZATION PROGRAM CALCULATION FROM

A. This form will be submitted by the prime contractors to demonstrate compliance with the apprenticeship utilization percentage for both prime and subcontractors on the project.

A.27 PENALTY TABLE

A. This table lists the penalties for non-compliance with the AUP.

ANCHORAGE SCHOOL DISTRICT
APPLICATION FOR PAYMENT

Project Name: Contract #:
ITB/RFP No.: Application #:
Name of Contractor: Application date:
Address: Period to:

COMPUTATION OF PAYMENT DUE

(a) Original contract amount (ASD 100A)	$	-
(b) Net Change by Change Orders (ASD 100B)		$0.00
(c) Adjusted contract amount to date (a+b)	$	-
(d) Work Completed to Date (ASD 100B)	$	-
(e) Materials Stored (ASD 100B)	$	-
(f) Total Completed and Stored To Date (d+e)	$	-
(g) Less: amount retained in accordance with contract terms	$	-
(h) Net amount earned on contract work to date (f-g)	$	-
(i) Less: amount of previous payments (ASD 100B)		$0.00
(j) CURRENT PAYMENT DUE (h-I)	$	-
(k) Balance to Finish (c-h)	$	-

CERTIFICATION OF CONTRACTOR

According to the best of my knowledge and belief, I certify that all items and amounts shown on the face of this Application for Payment are correct; that all work has been performed and/or material supplied in full accordance with the requirements of the referenced Contract, and/or duly authorized deviations, substitutions, alterations, and/or additions; that payment has been made for all materials received and work performed for which previous pay applications were approved; that no part of the "Balance Due This Payment" has been received and that it is currently due.

_____ By _____
(Contractor) (Signature of Authorized Representative)

_____ Title: _____
Date

CERTIFICATION OF ARCHITECT

According to the best of my knowledge and belief, and based on on-site observations , I certify that the work completed as shown on ASD 100B has progressed as indicated, the quality of work is in accordance with the Contract Documents, and the Contractor is entitled to payment of the Current Payment Due shown above.

_____ _____
Date (Signature of Architect)

APPROVED FOR PAYMENT

_____ _____
Date (ASD Project Manager)

ASD 100 (1/15)

ANCHORAGE SCHOOL DISTRICT
APPLICATION FOR PAYMENT
Summary of Original Contract, Change Orders, and Payments

Project Name:
ITB/RFP No.:
Name of Contractor:

Contract #::
Application #:
Application date:
Period to:

			Original Contract				
						Contract	
Date	No.	Description	Change Orders	Payments	Balance		Comments

ANCHORAGE SCHOOL DISTRICT
APPLICATION FOR PAYMENT
Detail of Schedule of Values and Work Completed

Project Name:
ITB/RFP No.:
Name of Contractor:

Contract #:
Application #:
Application date:
Period to:

A	B	C	D	E	F	G	H
Item	Description of Work	Scheduled Value	WORK COMPLETED		Materials Presently Stored (Not in D or E)	TOTAL Completed and Stored to Date (D+E+F)	% (G ÷ C)	Balance to Finish (C + G)
			From Prior Application (D+E)	This Period				
		$ -	$ -	$ -	$ -	$ -	#DIV/0!	$ -
		$ -	$ -	$ -	$ -	$ -	#DIV/0!	$ -
		$ -	$ -	$ -	$ -	$ -	#DIV/0!	$ -
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		$ -	$ -	$ -	$ -	$ -	#DIV/0!	$ -

ASD# 100B (1/15) Continuation
Sch. of Values/
Work Completed

Page 1
of Detail Schedule

ANCHORAGE SCHOOL DISTRICT
APPLICATION FOR PAYMENT
Detail of Schedule of Values and Work Completed

Project Name:
ITB/RFP No.:
Name of Contractor:

Contract #:
Application #:
Application date:
Period to:

A	B	C	D	E	F	G	H
Item	Description of Work	Scheduled Value	WORK COMPLETED		Materials Presently Stored (Not in D or E)	TOTAL Completed and Stored to Date (D+E+F)	% (G ÷ C)	Balance to Finish (C + G)
			From Prior Application (D+E)	This Period				
		$ -	$ -	$ -	$ -	$ -	#DIV/0!	$ -
						$ -	#DIV/0!	$ -
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						$ -	#DIV/0!	$ -
						$ -	#DIV/0!	$ -
	TOTAL CONTRACT	$ -	$ -	$ -	$ -	$ -		$ -

ASD# 100B (1/15) Continuation
Sch. of Values/
Work Completed

Page 2
of Detail Schedule

ANCHORAGE SCHOOL DISTRICT
APPLICATION FOR PAYMENT
Schedule of Stored Materials

Project Name:
ITB/RFP No.:
Name of Contractor:

Contract #:
Application #:
Application date:
Period to:

INVOICE #	VENDOR	DESCRIPTION	AMOUNT STORED AT END OF THIS PERIOD
		TOTAL STORED MATERIALS	$ -

ASD 100C (1/15) Continuation
Stored Material

Page # 1

CERTIFICATE OF SUBSTANTIAL COMPLETION

Project:_____ Contract Number: _____

Contractor: _____ Contract Date: _____

Architect: _____ Date of Issuance: _____

Owner: ANCHORAGE SCHOOL DISTRICT
1301 Labar Street
Anchorage, Alaska 99515

Project Description:
The work performed under this contract has been reviewed and found to be substantially complete. The date of Substantial Completion is hereby established as: _____

Definition of Date of Substantial Completion:
The date of substantial completion of the project is the date certified by the Owner when the work is substantially complete in accordance with, and defined in the Contract Documents.

A list of items to be completed or corrected, prepared by the Owner and verified and amended by the Architect is appended hereto. The failure to include any items or such list does not alter the responsibility of the Contractor to complete the project in accordance with the Contract Documents.

The Contractor will complete or correct the work on the list of items appended hereto within 30 days from the date of substantial completion.

The responsibilities of the Owner and the Contractor for maintenance, heat, utilities, and insurance shall be as follows: _____

_____

In reliance upon the certification of the Contractor and the Architect, the Owner hereby accepts the project as substantially complete. In accordance with the Contract Documents, the Owner hereby elects to assume occupancy of _____

_____ at_____ a.m./p.m. on
_____ .

Owner: **ANCHORAGE SCHOOL DISTRICT**

By: _____ Title: _____ Date: _____

Architect: _____

By: _____ Title: _____ Date: _____

Contractor: _____

By: _____ Title: _____ Date: _____

ASD 101 (01/03)

CONTRACTOR'S AFFIDAVIT OF PAYMENT OF DEBTS AND CLAIMS
ANCHORAGE SCHOOL DISTRICT

WHEREAS, by the terms of a contract dated entered into by the Anchorage School District, and for the construction of

The undersigned, pursuant to the General Conditions of the Contract for the construction, , hereby certifies that, except as listed below, he has paid in full or has otherwise satisied all obligations for all materials and equipment furnished, for all work, labor, and services performed, and for all known indebtness and claims against the Contractor for damages arising in any manner in connection with the performance of the Contract referenced above for which the District or his property might in any way be held responsible.

EXCEPTIONS:

IN WITNESS WHEREOF, the seal of the undersigned Contractor have been hereunto set this

day of

, at .

By

being first duly sworn, say that I am the agent for and executed the foregoing under authority of said company to do so; that I have read the same, know the contents thereof, and the matters set forth therein are as I truly believe.

By

Subscribed and sworn to before me this day of

, , at .

Notary Public in and for

My Commission Expires

ASDF Form 102

RELEASE ON CONTRACT
ANCHORAGE SCHOOL DISTRICT

WHEREAS, by the terms of a contract dated _____entered into by the Anchorage School District, and _____for the construction of

_____,

it is provided that:
"Neither the final payment nor the remaining retained percentage shall become due until the Contractor shall provide the Owner (1) with a waiver and release of liens, on the forms provided by the Owner, executed by the Contractor..."

NOW THEREFORE, in consideration of the premises and the payment by the Anchorage School District to the undersigned Contractor of the amounts due under the contract and any changes or modifications thereto, to wit, the sum

of $ _____ _____ Dollars,
(Numbers) (In Words)

the undersigned Contractor hereby releases and forever discharges the Anchorage School District including its property, particularly that real property known as the

_____

of the Anchorage School District, of and from all manner of debts, dues and sum or sums of money, accounts, claims, and demands whatsoever, in Law and in equity, under or by virtue of said contract, and warrants good title to all material, supplies and equipment installed or incorporated in the project and all work delivered to the premises, together with all improvements and appurtenances constructed thereon by:

_____ to the Anchorage School District free of any claims, liens or encumbrances. Neither the undersigned nor any person, firm or corporation furnishing material or labor for any work covered by this Contract has any right to a lien upon the premises nor improvement thereon, except:

_

IN WITNESS WHEREOF, the signature of the undersigned Contractor has been hereunto set this

_____day of _____, 20___, at _____, Alaska.

Signature: _____

Printed Name: _____

I, _____, being first duly sworn, say that I am the agent for and executed the foregoing under authority of said company to do so; that I have read the same, know the contents thereof, and the matters set forth therein are as I truly believe.

Signature: _____

Subscribed and sworn to before me this ___day of _____, 20___, at _____, Alaska.

Notary Public in and for _____

My Commission Expires: _____.

ASD Form 103

CONSENT OF SURETY COMPANY TO FINAL PAYMENT

PROJECT: _____ PROJECT NUMBER: _____

CONTRACTOR: _____ CONTRACT DATE: _____

TO: Anchorage School District

In accordance with the provisions of the Contract between the Owner and the Contractor as indicated above:

_____(Surety Company)

on bond of

_____(Contractor)

hereby approves of the final payment to the Contractor, and agrees that final payment to the Contractor shall not relieve the Surety Company of any of its obligations to Anchorage School District, Owner as set forth in said Surety Company's bond. Surety expressly agrees that any and all valid claims of sub-Contractors and all persons supplying labor or materials to the project will be satisfied by Contractor or Surety in a timely manner

IN WITNESS WHEREOF, the Surety Company has hereunto set its hand this

_____ day of _____, 20___.

_____
Name of Surety Company

Attest _____
Signature of Authorized Representative

_____
Title

ASD 104

CONSENT OF SURETY TO REDUCTION IN OR PARTIAL RELEASE OF RETAINAGE
ANCHORAGE SCHOOL DISTRICT

PROJECT: **PROJECT NUMBER:**

TO: Anchorage School District **CONTRACT DATE:**

CONTRACTOR:

In accordance with the provisions of the Contract between the Owner and the Contractor as indicated above, the:

_____ (Surety Company)

on bond of

_____ (Contractor)

HEREBY APPROVES OF THE REDUCTION IN OR PARTIAL RELEASE OF RETAINAGE to the Contractor as follows:

The surety agrees that such reduction in or partial release of retainage to the Contractor shall not relieve the Surety of any of its obligations to **ANCHORAGE SCHOOL DISTRICT, OWNER**

IN WITNESS WHEREOF, the Surety Company has hereunto set its hand this

day of .

_____
Name of Surety Company

Attest

_____
Signature of Authorized Representative

_____
Title

ASDF Form 105

ACORD®

CERTIFICATE OF LIABILITY INSURANCE

DATE (MM/DD/YYYY)

PRODUCER	THIS CERTIFICATE IS ISSUED AS A MATTER OF INFORMATION ONLY AND CONFERS NO RIGHTS UPON THE CERTIFICATE HOLDER. THIS CERTIFICATE DOES NOT AMEND, EXTEND OR ALTER THE COVERAGE AFFORDED BY THE POLICIES BELOW.	
	INSURERS AFFORDING COVERAGE	**NAIC #**
INSURED	INSURER A:	
	INSURER B:	
	INSURER C:	
	INSURER D:	
	INSURER E:	

COVERAGES

THE POLICIES OF INSURANCE LISTED BELOW HAVE BEEN ISSUED TO THE INSURED NAMED ABOVE FOR THE POLICY PERIOD INDICATED. NOTWITHSTANDING ANY REQUIREMENT, TERM OR CONDITION OF ANY CONTRACT OR OTHER DOCUMENT WITH RESPECT TO WHICH THIS CERTIFICATE MAY BE ISSUED OR MAY PERTAIN, THE INSURANCE AFFORDED BY THE POLICIES DESCRIBED HEREIN IS SUBJECT TO ALL THE TERMS, EXCLUSIONS AND CONDITIONS OF SUCH POLICIES. AGGREGATE LIMITS SHOWN MAY HAVE BEEN REDUCED BY PAID CLAIMS.

INSR LTR	ADD'L INSRD	TYPE OF INSURANCE	POLICY NUMBER	POLICY EFFECTIVE DATE (MM/DD/YYYY)	POLICY EXPIRATION DATE (MM/DD/YYYY)	LIMITS	
		GENERAL LIABILITY				EACH OCCURRENCE	$
		COMMERCIAL GENERAL LIABILITY				DAMAGE TO RENTED PREMISES (Ea occurrence)	$
		CLAIMS MADE ☐ OCCUR ☐				MED EXP (Any one person)	$
						PERSONAL & ADV INJURY	$
		GEN'L AGGREGATE LIMIT APPLIES PER:				GENERAL AGGREGATE	$
		POLICY ☐ PRO-JECT ☐ LOC ☐				PRODUCTS - COMP/OP AGG	$
		AUTOMOBILE LIABILITY				COMBINED SINGLE LIMIT (Ea accident)	$
		ANY AUTO					
		ALL OWNED AUTOS				BODILY INJURY (Per person)	$
		SCHEDULED AUTOS					
		HIRED AUTOS				BODILY INJURY (Per accident)	$
		NON-OWNED AUTOS					
						PROPERTY DAMAGE (Per accident)	$
		GARAGE LIABILITY				AUTO ONLY - EA ACCIDENT	$
		ANY AUTO				OTHER THAN AUTO ONLY: EA ACC	$
						AGG	$
		EXCESS / UMBRELLA LIABILITY				EACH OCCURRENCE	$
		OCCUR ☐ CLAIMS MADE ☐				AGGREGATE	$
							$
		DEDUCTIBLE					$
		RETENTION $					$
		WORKERS COMPENSATION AND EMPLOYERS' LIABILITY				WC STATU-TORY LIMITS / OTH-ER	
		ANY PROPRIETOR/PARTNER/EXECUTIVE OFFICER/MEMBER EXCLUDED? Y/N ☐				E.L. EACH ACCIDENT	$
		(Mandatory in NH)				E.L. DISEASE - EA EMPLOYEE	$
		If yes, describe under SPECIAL PROVISIONS below				E.L. DISEASE - POLICY LIMIT	$
		OTHER					

DESCRIPTION OF OPERATIONS / LOCATIONS / VEHICLES / EXCLUSIONS ADDED BY ENDORSEMENT / SPECIAL PROVISIONS

CERTIFICATE HOLDER	CANCELLATION
	SHOULD ANY OF THE ABOVE DESCRIBED POLICIES BE CANCELLED BEFORE THE EXPIRATION DATE THEREOF, THE ISSUING INSURER WILL ENDEAVOR TO MAIL _____ DAYS WRITTEN NOTICE TO THE CERTIFICATE HOLDER NAMED TO THE LEFT, BUT FAILURE TO DO SO SHALL IMPOSE NO OBLIGATION OR LIABILITY OF ANY KIND UPON THE INSURER, ITS AGENTS OR REPRESENTATIVES.
	AUTHORIZED REPRESENTATIVE

ACORD 25 (2009/01)

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SAMPLE

IMPORTANT

If the certificate holder is an ADDITIONAL INSURED, the policy(ies) must be endorsed. A statement on this certificate does not confer rights to the certificate holder in lieu of such endorsement(s).

If SUBROGATION IS WAIVED, subject to the terms and conditions of the policy, certain policies may require an endorsement. A statement on this certificate does not confer rights to the certificate holder in lieu of such endorsement(s).

DISCLAIMER

This Certificate of Insurance does not constitute a contract between the issuing insurer(s), authorized representative or producer, and the certificate holder, nor does it affirmatively or negatively amend, extend or alter the coverage afforded by the policies listed thereon.

SAMPLE

ACORD 25 (2009/01)

Anchorage School District
Facilities Maintenance
1301 Labar Street
Anchorage, Alaska 99515
Phone: (907) 348-5215
Fax: (907) 348-5227

REQUEST FOR INFORMATION
No.

TITLE:

DATE:

PROJECT:

Project No.:

TO:

REQUEST:

ANSWER:

Answered By: _____
Printed Name

_____ _____
Signature Date

This is not an authorization to proceed with any work involving additional cost and / or time.
Notification must be given in accordance with Contract Documents if any clarification, variation or Architects/Engineers responses cause any change to the Contract Documents.

ANCHORAGE SCHOOL DISTRICT USE ONLY:
Reviewed By:

Is this Request for Information associated with an Request for Proposal?
Yes ____ No _____

Signed: _____ **Date:** _____ **Request for Proposal #**
Project Manager

PCO #XXX

Capital Planning & Construction
1301 Labar St
Anchorage, Alaska 99515
Phone: (907) 348-5284
Fax: (907) 348-5227

Project:

Prime Contract Potential Change Order #XXX: Name

TO:	**FROM:**
PCO NUMBER/REVISION:	**CONTRACT:**
REQUEST RECEIVED FROM:	**CREATED BY:**
STATUS:	**CREATED DATE:**
REFERENCE:	**PRIME CONTRACT CHANGE ORDER:**
FIELD CHANGE:	**CHANGE ORDER REQUEST:**
LOCATION:	**ACCOUNTING METHOD:**
SCHEDULE IMPACT:	**PAID IN FULL:**
CHANGE REASON:	**TOTAL AMOUNT:**

Within seven (7) days, submit an itemized proposal.

Provide labor, material, equipment, and supervision necessary to complete changes to project as represented by the documentation indicated below. The quoted price shall include all direct and indirect costs (additive and deductive) associated with and resulting from this work, per the General Conditions of the Contract. Provide lump sum proposal properly itemized and supported by sustaining data to permit evaluation. The quoted price shall be considered full compensation and include all delay, impact, and actual cost associated with the resulting changes from this extra work.

POTENTIAL CHANGE ORDER DESCRIPTION: *(The Contract Is Changed As Follows)*

ATTACHMENTS:

APPROVAL

By:		By:	
Project Manager	Date	Contractor	Date
By:		By:	
Construction Supervisor		Senior Director of CP&C	
Date:		Date:	
Required if amount exceeds $10,000		Required if amount exceeds $50,000	

Capital Planning & Construction page 1 of 1

CERTIFICATE OF COMPLIANCE

No final payment shall be made until the Contractor shall file with the Owner, prior to acceptance of the work, a notarized Certification of Compliance in the following form:

The Contractor does hereby certify that all work has been performed and materials supplied in accordance with the Drawings, Specifications and Contract Documents for the above work, and that:

No less than the prevailing rates of wages as ascertained by the governing body of the Contracting Agency has been paid to laborers, workmen and mechanics employed on this work;

There have been no unauthorized substitutions of Subcontractors; nor have any subcontracts been entered into without prior notice having been submitted to the Owner prior to the start of such subcontracted work;

No subcontract was assigned or transferred or performed by any Subcontractor other than the original Subcontractor, without prior notice having been submitted to the Owner together with the names of all Subcontractors;

All claims for material and labor and other paid service performed in connection with these specifications have been paid;

All monies due the State Industrial Accident Fund, the State Unemployment Compensation Trust Fund, the State Tax Commission, Hospital Associations and/or others have been paid.

In WITNESS WHEREOF, the undersigned has signed and sealed this instrument this

_____ day of _____, 20__.

_____
(Firm Name)

_____
(Signature)

_____
(Title)

(Attest)

(SEAL IF BIDDER IS A CORPORATION)

As determined necessary, evidence of compliance may be required to be submitted with and made a part of this Certificate of Compliance.

WARRANTY OF WORK

Prior to Final Payment, the Contractor shall furnish to the Owner a Warranty of Work in the following form:

The Contractor does hereby warrant all work and materials to be in full and complete accordance with the Contract Documents and Agreement between Owner and Contractor, and requirements appertaining thereto; that all work and materials are free from any and all defects and imperfections, and fully suitable for the use and purposes for which each and every part is intended. The Contractor also agrees that, should any defect develop or appear which the Project Manager or Owner's Representative finds was Not caused by improper use, the Contractor shall promptly, upon demand, fully correct, substitute and make good any such defective material without any cost to the Owner and will save the Owner harmless against any claim, demand, loss or damage by reason of any breach of this warranty.

The period of this warranty shall commence on the date of Substantial Completion.

The warranty shall continue to be in full force and effect for the period of one (1) year, except for those items for which a longer period of warranty is specifically stated in the Warranties for work in Technical Sections of the Specifications.

Warranties for work stated in Technical Section shall continue in full force and effect for the respective periods expressly stated.

In WITNESS WHERE, the undersigned has signed and sealed this instrument this

_____ day of _____, 20__.

_____
(Firm Name)

_____
(Signature)

_____
(Title)

(Attest)

(SEAL IF BIDDER IS A CORPORATION)

AHERA Exclusion Document

Contractor's Verification of Asbestos-Free Construction

Project: _____ **Project Number:** _____

Contractor: _____ **Date:** _____

To: Anchorage School District
Facilities Coordinator,
AHERA LEA Designated Person

To the best of our knowledge, no asbestos-containing building materials were installed in this project.

Attest: _____
Signature of Authorized Representative

_____
Title

PCCO #XXX

Capital Planning & Construction
1301 Labar St
Anchorage, Alaska 99515
Phone: (907) 348-5264
Fax: (907) 348-5227

Project:

Prime Contract Change Order #XXX:

TO:	**FROM:**
DATE CREATED:	**CREATED BY:**
CONTRACT STATUS:	**REVISION:**
DESIGNATED REVIEWER:	**REVIEWED BY:**
DUE DATE:	**REVIEW DATE:**
CONTRACTUAL COMPLETION DATE:	
SCHEDULE IMPACT:	**EXECUTED:**
CONTRACT FOR:	**TOTAL AMOUNT:**
DESCRIPTION:	
ATTACHMENTS:	

CHANGE ORDER REQUESTS IN THIS CHANGE ORDER:

COR #	Issue	Description	Cost
		TOTAL:	$ 0.00

CHANGE ORDER LINE ITEMS: reason

Original contract sum	$
Previously authorized change orders	$
Previous contract amount	$
Current change order amount	$
New contract sum	$
Percent of original contract sum	

Contractor **DATE**

Senior Director of Purchasing/Warehouse **DATE**

Capital Planning & Construction page 1 of 1

CONTRACTOR'S QUALITY CONTROL REPORT (CQC)	DATE	REPORT NO.
CONTRACT NO. AND NAME OF CONTRACTOR	DESCRIPTION AND LOCATION OF THE WORK:	

WEATHER CLASSIFICATION:		CLASSIFICATION:
CLASS A	No interruption of any kind from weather conditions occurring on this or previous shifts.	CLASS _____
CLASS B	Weather occurred during this shift that caused a complete stoppage of all work.	TEMPERATURE: MAX_____MIN_____
CLASS C	Weather occurred during this shift that caused a partial stoppage of work.	
CLASS D	Weather overhead excellent or suitable during shift. Work completely stopped due to results of previous adverse weather.	PRECIPITATION:
CLASS E	Weather overhead excellent or suitable during shift but work partially stopped due to previous adverse manner.	INCHES_____
OTHER	Explain.	

CONTRACTOR/SUBCONTRACTORS AND AREA OF RESPONSIBILITY FOR WORK PERFORMED TODAY: (Attach list of items of equipment either idle or working as appropriate.)

a._____

b._____

c._____

d._____

e._____

f._____

g._____

h._____

1. WORK PERFORMED TODAY: (Indicate location and description of work performed. Refer to work performed by prime and/or subcontractors by letter in Table above.)

2. TYPE AND RESULTS OF INSPECTION: (Indicate whether P-Preparatory, I-Initial, or F-Follow-up and include satisfactory work completed or deficiencies with action to be taken.)

3. TESTS REQUIRED BY PLANS AND/OR SPECIFICATIONS PERFORMED AND RESULTS OF TESTS:
4. QUALITY CONTROL REPORTS (items requiring special inspections):
5. VERBAL INSTRUCTIONS RECEIVED: (List any instructions given by Owner on construction deficiencies, retesting required, etc., with action to be taken.)
6. REMARKS: (Cover any conflicts in plans, specification or instructions: acceptability of incoming materials; offsite surveillance activities; progress of work, delays, causes and extent thereof; days of no work with reasons for same.)
CONTRACTOR'S CERTIFICATION: I certify that the above report is complete and correct and that all material and equipment used, work performed and tests conducted during this reporting period were in strict compliance with the contract plans and specifications except as noted above. _____ CONTRACTOR'S APPROVED AUTHORIZED REPRESENTATIVE

Department of Labor and Workforce Development
Labor Standards and Safety Division
Wage and Hour Administration
www.labor.state.ak.us/lss/lss.htm

NOTICE OF WORK

Filing Fee Required

- This form must be typed or printed in ink.
- Fill in all blanks or form will be returned for correction (see back).
- Please allow a minimum of 10 working days for processing.

ENTER YOUR FAX # _____
AND LIST YOUR MAILING ADDRESS BELOW

Contractor, company or agency name, address, city, state & ZIP + 4

Project name		
Specific site description		
Contract awarding agency		
Address		
City	State	ZIP + 4
Contract awarding agency contact person		Phone #
Location and city where work is to be performed		
Date work to begin (m/d/y)	Do you intend to use subcontractors? ☐ Yes ☐ No	
Final Bid Date	Contract #	

Primary contractor (has contract with the public agency)		
List all contractors & subcontractors (Attach extra sheet if necessary)	Type of work	Amount of subcontract

CERTIFICATION: I hereby certify that the above information is correct. Enclosed is the filing fee computed at 1% of the total amount of all my subcontractors on this project. This amount includes the contract value for the primary contractor. I understand that the maximum fee I am required to pay is $5,000. I further certify that all contractors shall be made aware of the requirements of AS 36.05.010 - .110 and AS 36.10.007 - .990 before working.

Total value of subcontracts	$
+ Value of work performed by primary contractor	$
Amount subject to fee	$
	Multiply by .01
Total fee enclosed =	$
ROUND FEES TO NEAREST DOLLAR	

Signature Date

Title

Fax # Phone #

For Dept. Use Only

Accepted:

By_____
Department of Labor and Workforce Development

For Dept. Use Only

Amount: _____ Check Number: _____ Cash ___
Received By: _____ Date: _____
Credit Card Confirmation_____
Visa ___ MC___
Project Name_____
DOLWD Project # _____

Wage & Hour date-stamped copy of this form will serve as temporary receipt.

How to expedite the processing of your form:

Acceptance of this notice will be based on the information provided by the primary contractor.

ERRORS THAT CAUSE REJECTION

No fee included or incorrect amount. If total contract amount is less than $25,000 no filing fee is required. Contract amounts paid to owner/operators with no employees are exempt from the fee. **The maximum total filing fee for any one project is $5,000.00.**

Missing – Enter the "time and materials" if applicable. The exact dollar amount will be required on the Notice of Completion to be filed when the project is done.

Missing – The name of each subcontractor and the amount or estimated amount of the subcontract is required. Enter the "time and materials" if applicable. The exact dollar amount will be required on the Notice of Completion to be filed when the project is done.

Missing – Notice of Work must be signed by an authorized representative.

FILING INSTRUCTIONS

If there is not enough space to list all contractor/subcontractor information, attach additional sheets.

A Wage and Hour Administration (WH) date-stamped copy of this form will serve as a temporary receipt, while the acceptance of fees is processed. WH will mail or fax the accepted copy of this notice to the organization provided on the front of this form. Make a copy for your records. This will serve as your notice that the fees paid have been accepted by WH.

For questions call the nearest WH office:
Juneau: (907) 465-4842 Anchorage: (907) 269-4900 Fairbanks: (907) 451-2886

For more forms, see www.labor.state.ak.us/lss/lssforms.htm

Submit the notice and the appropriate filing fee to:

Alaska Department of Labor and Workforce Development
Wage and Hour Administration
P.O. Box 107021
Anchorage, AK 99510-0721

If no fee is required, you may fax the notice to (907) 269-4915

Alaska Department of Revenue
TAX CLEARANCE REQUEST FORM

Applicant's Name: _____

EIN&SSN: _____

Mailing Address: _____

City/State/Zip Code: _____

I hereby authorize the Alaska Department of Revenue to release to

_____
(Name of Department or Agency)

Departments Statute on tax clearance: _____

whose facsimile number or email address is _____,

confirmation that all taxes, penalties and interest due the Department of Revenue have been paid and that there are no outstanding amounts due.

Signed: _____

Printed Name: _____

Title*: _____

*If tax clearance is being requested on behalf of a corporation/LLC/partnership, must be signed by an officer/member/partner.

Send completed form by email to the Department of Revenue at DOR.tax.accounting@alaska.gov

DEPARTMENT USE ONLY

☐ *The above applicant is current on all taxes, penalties and interest due and is in good standing with the Alaska Department of Revenue.*

☐ *The above applicant is not current on all taxes, penalties and interest due and is not in good standing with the Alaska Department of Revenue.*

Department of Revenue Representative _____ *Date*

TaxClearanceRequestForm (Rev 2/21)



THE STATE of ALASKA
GOVERNOR MICHAEL J. DUNLEAVY

Department of Labor and Workforce Development

Division of Employment and Training Services
Employment Security Tax

P.O. Box 115509
Juneau, AK 99811-5509
Relay Alaska (in state): (800) 770-8973 or 7.1.1
Relay Alaska (out of state): (800) 770-8255
Toll free: (888) 448-2937
Phone: (907) 465-2787
Fax: (907) 465-2374

Tax Clearance Request Form for Contractors

Date of request: _____

Business name of the contractor a Tax Clearance is being requested for: _____

_____

Business address: _____

Business contact phone number: _____

Federal Identification Number: _____

Alaska Employer Account Number: _____

Specific time period a tax clearance is being requested for *(i.e. beginning and ending date of a subcontract agreement)*:

_____

Subcontract project name: _____

_____

Name and address of the person this Tax Clearance is to be returned to: _____

_____

Comments or additional information: _____

_____

For agency use only:

☐ Tax Clearance is granted

☐ Tax Clearance is not granted *(please have employer contact the department)*

☐ No account on file, liability unknown *(please have employer contact the department)*

☐ Employer has stated no employees, Tax Clearance not required.

Agency representative signature: _____ Date: _____

Agency representative title: _____

We are an equal opportunity employer/program. Auxiliary aids and services are available upon request to individuals with disabilities. labor.alaska.gov/estax

Rev. 8/2018

Submittal Control Form

Project Title:

Project No:
Contract No:

Contractor:
Address: _____
_____
Contact: _____
Telephone:
Fax: _____

Submittal No.

____ **New Submittal**
____ **Resubmittal**

Submittal is as Specified? **Yes** **No**

2. **Revision Number:** _____
3. **Submittal Control No.:**
4. **Description:** _____
_____
_____
5. **Spec. Section/Dwg Ref.:**

Number of Copies:

Remarks:

Review is for general design or arrangement only. Not for quality, dimension or fit.

Review Stamp

_____
Submitted By

_____
Date

Forwarded for Design Review: _____
Date

_____
ASD Reviewed / Forwarded By

STATE of ALASKA SEX OFFENDER/CHILD KIDNAPPER REGISTRY
CONTRACTOR CERTIFICATION

Pursuant to Article 1, Subparagraph 1.02, of the Instructions to Bidders, Specification Section 00100, I _____ the undersigned Principal for _____ on Solicitation No. _____, certify:

1. that I, either personally or through a person designated by me, have researched the State of Alaska Sex Offender/Child Kidnapper Registry to confirm that no employee or agent who may enter Anchorage School District property in connection with the contract is listed in the Registry.

2. that I have required all subcontractors and any of their sub-subcontractors to certify, or will require all subcontractors and any of their sub-subcontractors to certify, that they researched the State of Alaska Sex Offender/Child Kidnapper Registry to confirm that no employee or agent who may enter district property in connection with the contract is listed in the Registry. I will provide all such certifications to the district on request.

3. To my knowledge, no employee or agent of bidder, or any sub-contractor or sub-sub-contractor of bidder, who may enter district property in connection with the contract is: (a) listed in the sex offender/child kidnapper registry of any other state; or, (b) is a convicted sex offender or child kidnapper.

4. I have read district Board Policy 3515.5 and certify that the bidder will comply with Board Policy 3515.5. The bidder will not send any employee or agent who is a sex offender or child kidnapper to district property, as that term is defined in Board Policy 3515.5.

By: _____ _____
Signature Printed Name

Title: _____

Dated: _____

Revised April 4, 2018

STATE of ALASKA SEX OFFENDER/CHILD KIDNAPPER REGISTRY
SUBCONTRACTOR CERTIFICATION

Pursuant to Article 1, Subparagraph 1.02, of the Instructions to Bidders, Specification Section 00100, I _____ the undersigned Principal for _____ on Solicitation No. _____, certify:

1. that I, either personally or through a person designated by me, have researched the State of Alaska Sex Offender/Child Kidnapper Registry to confirm that no employee or agent who may enter Anchorage School District property in connection with the contract is listed in the Registry.

2. that I have required all subcontractors and any of their sub-subcontractors to certify, or will require all subcontractors and any of their sub-subcontractors to certify, that they researched the State of Alaska Sex Offender/Child Kidnapper Registry to confirm that no employee or agent who may enter district property in connection with the contract is listed in the Registry. I will provide all such certifications to the district on request.

3. that if my company enters into an agreement to perform work as a Subcontractor for _____ the General Contractor for the district under Solicitation No. _____, my company will not allow any worker whose name appears on the State of Alaska Sex Offender/Child Kidnapper Registry to perform work on or at the Project site.

By: _____ _____
Signature Printed Name

Title: _____

Dated: _____

Revised April 21, 2015

STATE of ALASKA SEX OFFENDER/CHILD KIDNAPPER REGISTRY
SUB-SUBCONTRACTOR CERTIFICATION

Pursuant to Article 1, Subparagraph 1.02, of the Instructions to Bidders, Specification Section 00100, I _____ the undersigned Principal for _____ on Solicitation No. _____, certify:

1. that I, either personally or through a person designated by me, have researched the State of Alaska Sex Offender/Child Kidnapper Registry to confirm that no employee or agent who may enter Anchorage School District property in connection with the contract is listed in the Registry.

2. that if my company enters into an agreement to perform work as a Sub-subcontractor for _____ a Subcontractor for the General Contractor for the district under Solicitation No. _____, my company will not allow any worker whose name appears on the State of Alaska Sex Offender/Child Kidnapper Registry to perform work on or at the Project site.

By: _____ _____
Signature Printed Name

Title: _____

Dated: _____

Revised April 21, 2015

ANCHORAGE SCHOOL DISTRICT'S
LIST OF
ALASKAN FEDERALLY REGISTERED APPRENTICESHIP PROGRAMS

Program Number	Program Name	Program Status	Address	Occupation Title
AK0009S0003	***ABC of Alaska, Inc.***	***Registered***	***301 Arctic Slope Avenue, Suite 100 ANCHORAGE AK 99518***	***CARPENTER***
AK0003S0002	ALASKA ACOUSTICAL	Registered	902 Warren Street KETCHIKAN AK 99901	CARPENTER
AK0005S0001	***Alaska Carpenters Training Trust***	***Registered***	***8751 King Street Anchorage AK 99515***	***CARPENTER***
AK0010S1888	Collins Construction, Incorporated	Suspended	1151 W. Nugget Avenue Wasilla AK 99654	CARPENTER
AK0001258S7	Finished Works, LLC	Registered	P.O. Box 521791 Big Lake AK 99652	CARPENTER
AK0001780I7	H Construction, LLC	Registered	15581 Teeling Circle Palmer AK 99645	CARPENTER
AK0010700I0	ICE SERVICES, INCORPORATED	Registered	2606 C STREET, SUITE 2B ANCHORAGE AK 99503	CARPENTER
AK0000811I0	Woodwright Construction, Inc.	Registered	P.O. Box 6235 Ketchikan AK 99901	CARPENTER
AK0003S0009	YUKON-KUSKOKWIM DELTA APPRENTICESHIP PROGRAM	Registered	P.O. BOX 869 BETHEL AK 99559	CARPENTER
AK0005S0001	***Alaska Carpenters Training Trust***	***Registered***	***8751 King Street Anchorage AK 99515***	***CARPENTER, INTERIOR SYSTEMS (Alternate Title: Interior Systems Carpenter)***
AK0005S0001	***Alaska Carpenters Training Trust***	***Registered***	***8751 King Street Anchorage AK 99515***	***CARPENTER, PILEDRIVER***
AK0007S0017	***Alaska Trowel Trades JATC***	***Registered***	***825 East 8th Avenue, Suite 10 Anchorage AK 99501***	***CEMENT MASON***
2019-AK-72685	Rady Concrete Construction, LLC	Registered	P.O. Box 82061 Fairbanks AK 99708	CEMENT MASON
AK0009S0003	***ABC of Alaska, Inc.***	***Registered***	***301 Arctic Slope Avenue, Suite 100 ANCHORAGE AK 99518***	***CONSTRUCTION CRAFT LABORER***
AK0019S0006	***Alaska Laborers JATC***	***Registered***	***17805 OLD GLENN HWY CHUGIAK AK 99567***	***CONSTRUCTION CRAFT LABORER***
2017-AK-497	Rock-n-Road Construction, Inc.	Registered	P.O. Box 1388 Petersburg AK 99833	CONSTRUCTION CRAFT LABORER
AK0014769I1	Wolverine Supply, Inc.	Registered	5099 E. Blue Lupine Drive Wasilla AK 99654	CONSTRUCTION CRAFT LABORER
AK0013S904	Yukon River Towing, LLC	Registered	P.O. Box 128 Emmonak AK 99581	CONSTRUCTION CRAFT LABORER
AK0009S0003	***ABC of Alaska, Inc.***	***Registered***	***301 Arctic Slope Avenue, Suite 100 ANCHORAGE AK 99518***	***ELECTRICIAN***
AK0010805I6	AC Electric, LLC	Registered	P.O. Box 1761 Seward AK 99664	ELECTRICIAN
AK0011457S4	Access Electric & General Trades, LLC	Registered	P.O. Box 670896 Chugiak AK 99567	ELECTRICIAN
AK0011671I1	Agape Electric	Registered	P.O. Box 7601 Nikiski AK 99635	ELECTRICIAN
AK0007S0015	***ALASKA JOINT ELECTRICAL APPRENTICESHIP & TRAINING TRUST***	***Registered***	***5800 B ST ANCHORAGE AK 99518***	***ELECTRICIAN***
AK0011354S	Alaska Native Tribal Health Consortium, Division of Environmental Health & Engineerir	Registered	4500 Diplomacy Drive, Suite 454 Anchorage AK 99508	ELECTRICIAN
AK0011027I6	Alaska's Wiremen	Registered	39535 Fox Trail Road Soldotna AK 99669	ELECTRICIAN
AK0014659I0	Ala Wa, Inc.	Registered	P.O. Box 385 Unalaska AK 99685	ELECTRICIAN
AK0012534S	Alpine Electric	Registered	13901 East Moyen Ruelle Court Palmer AK 99645	ELECTRICIAN
AK0008082I8	Amped Electric, Inc.	Registered	3400 International Street Fairbanks AK 99701	ELECTRICIAN
AK0010400I3	ANCHOR ELECTRIC	Registered	5362 COMMERCIAL DRIVE JUNEAU AK 99801	ELECTRICIAN
AK0011576S3	Anderson Brothers Electric, LLC	Registered	16300 Ocean View Drive Juneau AK 99801	ELECTRICIAN
2019-AK-73630	Arctic Fox Electric, LLC	Registered	3251 Eastwind Court Anchorage AK 99516	ELECTRICIAN
AK0010600I3	AUKE BAY ELECTRIC	Registered	P. O. BOX 210194 AUKE BAY AK 99821	ELECTRICIAN
AK0010400I5	BEAR ELECTRIC, INCORPORATED	Registered	2008 Perkins Drive FAIRBANKS AK 99709	ELECTRICIAN
2018-AK-71428	Bering Straits Development Company	Registered	P.O. Box 1008 Nome AK 99762	ELECTRICIAN
AK0014659I5	Bootleg Electric, LLC	Registered	P.O. Box 871301 Wasilla AK 99687	ELECTRICIAN
AK0011094I1	Brickwell, Incorporated	Registered	11425 Avion Street ANCHORAGE AK 99516	ELECTRICIAN
AK0000802I1	Buness Electric, LLC	Registered	P. O. Box 66 Wrangell AK 99929	ELECTRICIAN
AK0011357S7	Cache Maintenance	Registered	1295 Aloha Street North Pole AK 99705	ELECTRICIAN
AK0011457S2	Capstone Electric, LLC	Registered	22356 Whispering Birch Drive Chugiak AK 99567	ELECTRICIAN
AK0010500I9	CHANNEL ELECTRIC, INC.	Registered	1155 COPPER RIDGE LANE KETCHIKAN AK 99901	ELECTRICIAN
AK0000600I8	CITY & BOROUGH OF SITKA, ENVIRONMENTAL DEPT.	Registered	100 LINCOLN STREET SITKA AK 99835	ELECTRICIAN
AK0010800I1	CNS, Inc.	Registered	1285 Overhill Drive Fairbanks AK 99709	ELECTRICIAN
AK0001026I2	DRS Electric, LLC	Registered	18207 Stillwater Drive Eagle River AK 99577	ELECTRICIAN
AK0012792I0	Eberline Building and Supply	Registered	35775 Walker Street North Soldotna AK 99669	ELECTRICIAN
AK0010800I6	Encore Electric, LLC	Registered	5640 B Street Anchorage AK 99518	ELECTRICIAN
AK0011478B6	Evans Electric	Registered	P. O. Box 1343 Kotzebue AK 99752	ELECTRICIAN
AK0010351I7	Facility Contractors, LLC	Registered	P.O. Box 2034 Cordova AK 99574	ELECTRICIAN
AK0001980I4	Frontier Electrical Services, LLC	Registered	P.O. Box 3030 Valdez AK 99686	ELECTRICIAN
AK0011083I8	Fuchs Electric, Incorporated	Registered	9400 Vanguard Drive, Suite A Anchorage AK 99507	ELECTRICIAN
AK0001980I0	G2 Construction, Inc.	Registered	P.O. Box 10690 Fairbanks AK 99701	ELECTRICIAN
AK0011147I3	Glacier Electric	Registered	P.O. Box 112001 Anchorage AK 99511	ELECTRICIAN
AK0011576I6	GHS Conrads	Registered	P.O. Box 56469 North Pole AK 99705	ELECTRICIAN
2017-AK-748	Hanson Construction, Incorporated	Registered	38050 Nenana Avenue Sterling AK 99672	ELECTRICIAN
AK0009915I7	Heda Greens Creek Mining Company	Registered	P.O. Box 32199 Juneau AK 99801	ELECTRICIAN
2017-AK-68590	Hometown Connection, Inc.	Registered	P.O. Box 439 Skagway AK 99840	ELECTRICIAN
2019-AK-73036	Huffer Electric, Inc.	Registered	P.O. Box 2229 Soldotna AK 99669	ELECTRICIAN
AK0010700I0	ICE SERVICES, INCORPORATED	Registered	2606 C STREET, SUITE 2B ANCHORAGE AK 99503	ELECTRICIAN
AK0010916I7	Icicle Seafoods, Incorporated	Registered	411 N. Nordic Drive Petersburg AK 99833	ELECTRICIAN
AK0006600I9	INLET ELECTRICAL CONTRACTORS, LLC	Registered	P.O. BOX 202109 ANCHORAGE AK 99520	ELECTRICIAN
AK0001580I1	Integrated Communication Designs, Inc.	Registered	P.O. Box 111551 Anchorage AK 99511	ELECTRICIAN
AK0001258I9	Integrity Electric, Inc.	Registered	35955 Ryan Lane Soldotna AK 99669	ELECTRICIAN

ANCHORAGE SCHOOL DISTRICT'S
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Program Number	Program Name	Program Status	Address	Occupation Title
AK00109402	Intelligent Design, LLC	Registered	11741 Timberlane Drive Anchorage AK 99515	ELECTRICIAN
AK00107002	JH ELECTRIC, INCORPORATED	Registered	P.O. BOX 3123 SOLDOTNA AK 99669	ELECTRICIAN
AK00106015	Kaktovik Holdings	Registered	2000 E. 88TH AVENUE ANCHORAGE AK 99507	ELECTRICIAN
AK00135729	KO Electric, LLC	Registered	P. O. Box 3556 Homer AK 99603	ELECTRICIAN
AK00125337	Laker Electric, Incorporated	Registered	11901 Industry Way Anchorage AK 99511	ELECTRICIAN
AK00157998	Livewire Electric, LLC	Registered	1534 Toyon Way A Kenai AK 99611	ELECTRICIAN
AK00135718	Maddox Electric	Registered	P. O. Box 2226 Seward AK 99664	ELECTRICIAN
2018-AK-70830	Mainline Electric	Suspended	P. O. Box 212602 Anchorage AK 99521	ELECTRICIAN
2019-AK-73263	Marathon Electric, LLC	Registered	P. O. Box 927 Seward AK 99664	ELECTRICIAN
AK00147461	Mark IV Enterprises	Registered	951 E. Creekside Drive, #9 Wasilla AK 99654	ELECTRICIAN
AK00070010	MAT-SU MECHANICAL, INC.	Registered	1265 EAST LOLLY CIRCLE WASILLA AK 99654	ELECTRICIAN
2019-AK-73045	Mattingly Electric, LLC	Registered	P. O. Box 788 Petersburg AK 99833	ELECTRICIAN
AK00090007	MIDNIGHT SUN ELECTRIC	Registered	267 West Rodwell Avenue SOLDOTNA AK 99669	ELECTRICIAN
AK00106018	MIRANDA ELECTRIC, INCORPORATED	Registered	P. O. Box 56031 North Pole AK 99705	ELECTRICIAN
AK00146924	Morse Construction	Registered	7362 West Parks Highway, #189 Wasilla AK 99623	ELECTRICIAN
2017-AK-69670	*New Hope Apprenticeship Training*	*Registered*	*2471 West Trapline Drive Wasilla AK 99654*	*ELECTRICIAN*
AK00125687	Nordic Electric, LLC	Registered	806 S. Nordic Drive Petersburg AK 99833	ELECTRICIAN
AK00106016	North Wire, LLC	Registered	1120 E. Huffman Road, Suite 24, Box 695 Anchorage AK 99515	ELECTRICIAN
2017-AK-69477	Peak Oilfield Service Company - Bristol Bay Industrial	Registered	5015 Business Park Blvd., Suite 4000 Anchorage AK 99508	ELECTRICIAN
AK00060013	PITCHER ELECTRIC, INC.	Registered	P. O. BOX 877871 WASILLA AK 99687	ELECTRICIAN
AK00125710	Power & Light, Incorporated	Registered	7721 Schoon Street, Suite 1 Anchorage AK 99518	ELECTRICIAN
AK00125704	Premier Electric	Registered	P. O. Box 874362 Wasilla AK 99687	ELECTRICIAN
AK00113407	Prism Design & Construction	Registered	P. O. Box 870162 Wasilla AK 99654	ELECTRICIAN
AK00113539	Puffin Electric, Inc.	Registered	3808 Ben Walters Lane Homer AK 99603	ELECTRICIAN
AK00080232	Ray Electric, Inc.	Registered	P. O. Box 55007 North Pole AK 99705	ELECTRICIAN
2018-AK-70871	Renewable Energy Systems	Registered	1698 Airport Way Fairbanks AK 99701	ELECTRICIAN
AK00140007	RISING SON ELECTRIC SERVICES, LLC	Registered	36794 Eklutna Lake Road Chugiak AK 99567	ELECTRICIAN
AK00113405	Safe-T-Way Electric, Incorporated	Registered	6208 Mackay Street Anchorage AK 99518	ELECTRICIAN
2019-AK-72765	Salmon River Electric	Registered	P. O. Box 138 Gustavus AK 99826	ELECTRICIAN
AK00050009	SITKA ELECTRIC COMPANY	Registered	1314 SAWMILL CREEK ROAD SITKA AK 99835	ELECTRICIAN
AK00110397	Sourdough Specialty Contractors	Registered	145 Shady Lane, #4 Soldotna AK 99669	ELECTRICIAN
AK00157697	Spectrum Services	Registered	35867 Driftnetter Street Kenai AK 99611	ELECTRICIAN
2017-AK-69038	Stevens Electric	Registered	9630 Musketball Circle Anchorage AK 99507	ELECTRICIAN
2018-AK-70653	Steve's Electrical	Registered	2741 Briners Cutoff Road Juneau AK 99801	ELECTRICIAN
AK00107008	SUMNER ELECTRICAL ENTERPRISE, LLC	Registered	6801 Hollywood Road Wasilla AK 99654	ELECTRICIAN
AK00168009	TDR Power Services, LLC	Registered	815 East 82nd Avenue, Suite 200 Anchorage AK 99518	ELECTRICIAN
AK00080228	TEC PRO, LTD.	Registered	816 Whitney Road ANCHORAGE AK 99501	ELECTRICIAN
AK00109508	Tesla Electric, LLC.	Registered	1760 Abbott Road Anchorage AK 99507	ELECTRICIAN
AK00145917	Thomas and Sons Electric	Registered	P. O. Box 955 Craig AK 99921	ELECTRICIAN
AK00113408	Trident Seafoods Corporation	Registered	P. O. Box 220427 Anchorage AK 99522	ELECTRICIAN
AK00147688	Trinity Electric, LLC	Registered	801 E. 82nd Avenue, B-14 Anchorage AK 99518	ELECTRICIAN
AK00116706	TS Construction, Incorporated	Registered	3230 Cod Cay Drive Fairbanks AK 99701	ELECTRICIAN
AK00092469	Vanney Electric	Registered	5007 W. Reliance Rd. Wasilla AK 99623	ELECTRICIAN
AK00095017	WESTERN POWER ENGINEERING	Registered	P. O. BOX 920657 DUTCH HARBOR AK 99692	ELECTRICIAN
AK00106009	WESTWARD SEAFOODS, INCORPORATED	Registered	P. O. BOX 920608 DUTCH HARBOR AK 99692	ELECTRICIAN
AK00125285	Will Curtis	Registered	1465 Richardson Hwy Valdez AK 99686	ELECTRICIAN
AK00105002	WOODWORTH ELECTRIC	Registered	1200 Queets Circle HOMER AK 99603	ELECTRICIAN
AK00030009	YUKON-KUSKOKWIM DELTA APPRENTICESHIP PROGRAM	Registered	P. O. BOX 869 BETHEL AK 99559	ELECTRICIAN
AK00080192	Zone Electric	Registered	329 Driveway Street, Suite 2 Fairbanks AK 99701	ELECTRICIAN
AK00099003	*ABC of Alaska, Inc.*	*Registered*	*301 Arctic Slope Avenue, Suite 100 ANCHORAGE AK 99518*	*ELECTRONIC SYSTEMS TECHNICIAN*
AK00103001	*International Union of Painters and Allied Trades Local 1959 JATC*	*Registered*	*5821 Arctic Boulevard, Unit B ANCHORAGE AK 99518*	*GLAZIER*
AK00030004	TEC PRO, LTD.	Registered	816 Whitney Road ANCHORAGE AK 99501	ELECTRONIC SYSTEMS TECHNICIAN
AK00103005	*INTERNATIONAL UNION OF ELEVATOR CONSTRUCTORS LOCAL 19 JAC*	*Registered*	*2264 15th Avenue West SEATTLE WA 98119*	*ELEVATOR CONSTRUCTOR MECHANIC*
AK00049001	GRAND PROSPECT CORPORATION	Suspended	P. O. BOX 520858 BIG LAKE AK 99652	FLOOR LAYER
AK00145918	*International Union of Painters and Allied Trades Local 1959 JATC*	*Registered*	*5821 Arctic Boulevard, Unit B ANCHORAGE AK 99518*	*FLOOR LAYER*
AK00099003	The Great Alaskan Flooring, Inc.	Registered	2017 Mill Bay Road Kodiak AK 99615	FLOOR LAYER
AK00049003	*ABC of Alaska, Inc.*	*Registered*	*301 Arctic Slope Avenue, Suite 100 ANCHORAGE AK 99518*	*GLAZIER*
AK00049001	*International Union of Painters and Allied Trades Local 1959 JATC*	*Registered*	*5821 Arctic Boulevard, Unit B ANCHORAGE AK 99518*	*GLAZIER*
AK00099003	*ABC of Alaska, Inc.*	*Registered*	*301 Arctic Slope Avenue, Suite 100 ANCHORAGE AK 99518*	*HEATING & AIR-CONDITIONER INSTALL/SERVICER*
AK00060001	*ALASKA SC/SE SHEET METAL WORKERS JATC*	*Registered*	*1307 E. 75TH AVENUE, #4 ANCHORAGE AK 99518*	*HEATING & AIR-CONDITIONER INSTALL/SERVICER*
AK00049002	*ANCHORAGE ALASKA AREA PIPE TRADES LOCAL #367 JATC*	*Registered*	*617 WEST POTTER DRIVE ANCHORAGE AK 99518*	*HEATING & AIR-CONDITIONER INSTALL/SERVICER*
AK00073004	*ALASKA OPERATING ENGINEERS/EMPLOYERS TRAINING TRUST*	*Registered*	*P.O. BOX 0989 PALMER AK 99645*	*HEAVY DUTY MECHANIC (Alternate Title: Heavy Construction Equipment Mechanic)*
AK00191002	TECK ALASKA, INC.	Registered	3105 LAKESHORE DR., BUILDING A, STE 101 ANCHORAGE AK 99	HEAVY EQUIPMENT MECHANIC
AK00099003	*ABC of Alaska, Inc.*	*Registered*	*301 Arctic Slope Avenue, Suite 100 ANCHORAGE AK 99518*	*INSULATION WORKER*
AK00071001	*AK HEAT & FROST INSULATORS & ALLIED WORKERS JATC*	*Registered*	*P. O. Box 203212 Anchorage AK 99520*	*INSULATION WORKER*
AK00010003	Alaska Industrial Insulation & Fireproofing, Incor	Registered	2505 Barrow Street ANCHORAGE AK 99508	INSULATION WORKER
AK00053001	*Alaska Carpenters Training Trust*	*Registered*	*8751 King Street Anchorage AK 99515*	*LATHER (Alternate Title: Lathing Specialist)*
AK00099003	*ABC of Alaska, Inc.*	*Registered*	*301 Arctic Slope Avenue, Suite 100 ANCHORAGE AK 99518*	*LINE ERECTOR (POWER-LINE DISTRIBUTION ERECTOR)*

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AK0007800115	ALASKA JOINT ELECTRICAL APPRENTICESHIP & TRAINING TRUST	Registered	5800 B STANCHORAGE AK 99518	LINE MAINTAINER (Alternate Title: Line Worker)
AK0007300004	ALASKA OPERATING ENGINEERS/EMPLOYERS TRAINING TRUST	Registered	P.O. BOX 0989 PALMER AK 99645	LINE MAINTAINER (Alternate Title: Line Worker)
AK0010080980	Alaska Power & Telephone	Registered	P.O Box 34195 Juneau AK 99803	LINE MAINTAINER (Alternate Title: Line Worker)
AK0000040002	Alaska Village Electric Cooperative, Inc.	Registered	4831 Eagle Street Anchorage AK 99503	LINE MAINTAINER (Alternate Title: Line Worker)
AK0000870008	CITY & BOROUGH OF SITKA - ELECTRICAL DEPARTMENT	Registered	105 JARVIS STREET SITKA AK 99835	LINE MAINTAINER (Alternate Title: Line Worker)
AK0001135905	City of Unalaska	Registered	P.O. Box 610 Unalaska AK 99685	LINE MAINTAINER (Alternate Title: Line Worker)
AK0001060005	CITY OF WRANGELL-WRANGELL MUNICIPAL LIGHT & POWER	Registered	1064 Case Avenue WRANGELL AK 99929	LINE MAINTAINER (Alternate Title: Line Worker)
AK0001070010	ICE SERVICES, INCORPORATED	Registered	2606 C STREET, SUITE 2B ANCHORAGE AK 99503	LINE MAINTAINER (Alternate Title: Line Worker)
AK0001080978	North Slope Borough Power & Light	Registered	P.O. Box 350 Barrow AK 99723	LINE MAINTAINER (Alternate Title: Line Worker)
AK0011474G2	Nushagak Electric & Telephone Cooperative, Inc.	Registered	P.O. Box 350 Dillingham AK 99576	LINE MAINTAINER (Alternate Title: Line Worker)
AK0007300004	ALASKA OPERATING ENGINEERS/EMPLOYERS TRAINING TRUST	Registered	P.O. BOX 0989 PALMER AK 99645	LUBRICATION SERVICER MATERIAL DISPOSAL TECHNICIAN
AK0007800115	ALASKA JOINT ELECTRICAL APPRENTICESHIP & TRAINING TRUST	Registered	5800 B STANCHORAGE AK 99518	MAINTENANCE MECHANIC, TELEPHONE
AK0000000006	ALASKA WORKS PARTNERSHIP, INC	Registered	1413 HYDER ST ANCHORAGE AK 99501	MAINTENANCE REPAIRER, BUILDING
AK0001125883	Goose Creek Correctional Center	Registered	P.O. Box 877790 Wasilla AK 99687	MAINTENANCE REPAIRER, BUILDING
AK0001125889	Hiland Mountain Correctional Center	Registered	9101 Hesterberg Road Eagle River AK 99577	MAINTENANCE REPAIRER, BUILDING
AK0001900006	SPRING CREEK CORRECTIONAL CENTER	Registered	P.O. BOX 2109 SEWARD AK 99664	MAINTENANCE REPAIRER, BUILDING
AK0001900010	Wildwood Correctional Center	Registered	BLDG 10, CHUGACH AVENUE KENAI AK 99611	MAINTENANCE REPAIRER, BUILDING
AK0019190012	TECK ALASKA, INC.	Registered	3105 LAKESHORE DR., BUILDING A, STE 101 ANCHORAGE AK 99	MECHANIC, INDUSTRIAL TRUCK
AK0006550001	Alaska Carpenters Training Trust	Registered	8751 King Street Anchorage AK 99515	MILLWRIGHT
AK0019190012	TECK ALASKA, INC.	Registered	3105 LAKESHORE DR., BUILDING A, STE 101 ANCHORAGE AK 99	MILLWRIGHT
AK0007300004	ABC of Alaska, Inc.	Registered	301 Arctic Slope Avenue, Suite 100 ANCHORAGE AK 99518	OPERATING ENGINEER
AK0001125889	ALASKA OPERATING ENGINEERS/EMPLOYERS TRAINING TRUST	Registered	P.O. BOX 0989 PALMER AK 99645	OPERATING ENGINEER
AK0011474G1	Wolverine Supply, Inc.	Registered	5099 E. Blue Lupine Drive Wasilla AK 99654	OPERATING ENGINEER
AK0000990003	ABC of Alaska, Inc.	Registered	301 Arctic Slope Avenue, Suite 100 ANCHORAGE AK 99518	PAINTER (Construction)
AK0004090001	International Union of Painters and Allied Trades Local 1959 JATC	Registered	5821 Arctic Boulevard, Unit B ANCHORAGE AK 99518	PAINTER (Construction)
AK0000990003	ABC of Alaska, Inc.	Registered	301 Arctic Slope Avenue, Suite 100 ANCHORAGE AK 99518	PIPE FITTER (Construction)
AK0004090002	ANCHORAGE ALASKA AREA PIPE TRADES LOCAL #367 JATC	Registered	617 WEST POTTER DRIVE ANCHORAGE AK 99518	PIPE FITTER (Construction)
AK0015100002	Fairbanks Area Plumbers & Pipefitters JATC	Registered	1978 BURGESS AVENUE FAIRBANKS AK 99709	PIPE FITTER (Construction)
AK0006560001	JUNEAU PLUMBERS JATC	Registered	1751 ANKA STREET JUNEAU AK 99801	PIPE FITTER (Construction)
AK0007800117	Alaska Trowel Trades JATC	Registered	825 East 8th Avenue, Suite 10 Anchorage AK 99501	PLASTERER
AK0001092770	907 Heating and Plumbing	Registered	P.O. Box 220032 Anchorage AK 99522	PLUMBER
AK0000990003	ABC of Alaska, Inc.	Registered	301 Arctic Slope Avenue, Suite 100 ANCHORAGE AK 99518	PLUMBER
AK0001125246	Ace Heating, Inc.	Registered	27801 N. Heatherway Circle Wasilla AK 99654	PLUMBER
AK0001103507	Al Fish Plumbing, LLC	Registered	11805 Gregory Road Anchorage AK 99516	PLUMBER
AK0001125896	Alaska Clearwater Mechanical, LLC	Registered	P.O. Box 709 Willow AK 99688	PLUMBER
AK0001113542	Alaska Native Tribal Health Consortium, Division of Environmental Health & Engineerii	Registered	4500 Diplomacy Drive, Suite 454 Anchorage AK 99508	PLUMBER
AK0001050011	ALASKA PLUMBING & HEATING	Registered	P.O. Box 210240 Auke Bay AK 99821	PLUMBER
AK0001103393	All American Plumbing & Heating	Registered	9509 Antler Way Juneau AK 99801	PLUMBER
AK0000135908	All-Star Plumbing & Heating, LLC	Registered	11320 Bearpaw Street Anchorage AK 99516	PLUMBER
AK0001070007	ALWAYS ON CALL MOUNTAIN MECHANICAL CORPORATION	Registered	8427 MENTRA STREET ANCHORAGE AK 99518	PLUMBER
AK0001057999	Ameresco, Inc.	Registered	6643 Brayton Drive Anchorage AK 99507	PLUMBER
AK0004090002	ANCHORAGE ALASKA AREA PIPE TRADES LOCAL #367 JATC	Registered	617 WEST POTTER DRIVE ANCHORAGE AK 99518	PLUMBER
AK0000070016	ANCHORAGE PLUMBING & HEATING, INC.	Registered	7640 King Street ANCHORAGE AK 99518	PLUMBER
AK0001050015	APEX PLUMBING & HEATING SERVICES, LLC	Registered	19087 E. Jessica Ann Street Sutton AK 99674	PLUMBER
AK0000081112	Arctic Chain Plumbing & Heating, Inc.	Registered	1200 East 76th Avenue, Unit 1220 Anchorage AK 99518	PLUMBER
2017-AK-68554	Arctic Plumbing & Heating, LLC	Registered	2125 Richardson Highway, Suite #2 North Pole AK 99705	PLUMBER
2019-AK-72300	Beckley Mechanical Company	Registered	2125 Richardson Highway North Pole AK 99705	PLUMBER
AK0001145922	Blades Mechanical	Registered	148 Hillcrest Avenue, #2 Soldotna AK 99669	PLUMBER
AK0001145921	Boilerman Plumbing & Heating, Inc.	Registered	6800 Lonesome Drive Palmer AK 99645	PLUMBER
AK0001040013	BOWMAN MECHANICAL CONTRACTORS, INC	Registered	11701 Toy Drive ANCHORAGE AK 99515	PLUMBER
AK0001125712	Central Mechanical, Incorporated	Registered	3111 N. Sitka Street Anchorage AK 99501	PLUMBER
AK0000092207	Circle Plumbing and Heating, Inc.	Registered	2317 Raspberry Road Anchorage AK 99502	PLUMBER
AK0001135717	D.H. Plumbing & Heating, Incorporated	Suspended	7741 King Street Anchorage AK 99518	PLUMBER
AK0002167700	Daileo Plumbing	Registered	64525 PITZMAN AVE Homer AK 99603	PLUMBER
AK0001147690	Dawson Construction, Incorporated	Registered	4220 Cambria Drive west Ketchikan AK 99901	PLUMBER
AK0001870004	DENALI MECHANICAL, INC.	Registered	995 RILEY COURT FAIRBANKS AK 99701	PLUMBER
AK0001167702	Discount Mechanical, LLC	Registered	P.O. Box 233694 Anchorage AK 99523	PLUMBER
AK0001080585	Ears Plumbing & Heating, LLC	Registered	1208 Lakeshore Drive Homer AK 99603	PLUMBER
AK0001040029	ENCORE MECHANICAL, INC.	Registered	P.O. BOX 1788 PALMER AK 99645	PLUMBER
AK0001135726	Extreme Heating & Air, Incorporated	Registered	16805 Farm Avenue Eagle River AK 99577	PLUMBER
AK0015100002	Fairbanks Area Plumbers & Pipefitters JATC	Registered	1978 BURGESS AVENUE FAIRBANKS AK 99709	PLUMBER
AK0001145926	Fedor's Plumbing & Heating, LLC	Registered	5902 Cordova Street Anchorage AK 99518	PLUMBER
AK0001125882	Funk Services	Registered	P.O. Box 672188 Chugiak AK 99567	PLUMBER
AK0001125249	Glacier Point Services	Registered	P.O. Box 61237 Fairbanks AK 99706	PLUMBER
AK0001135912	H and M Plumbing & Heating, Inc.	Registered	P.O. Box 222225 Anchorage AK 99522	PLUMBER
AK0000040027	HARDROCK PLUMBING AND HEATING, LLC	Registered	4740 E. FATTIC DRIVE WASILLA AK 99654	PLUMBER
AK0001050004	HEATCO, LLC	Registered	17141 N. EAGLE RIVER LOOP ROAD EAGLE RIVER AK 99577	PLUMBER
2019-AK-72458	Homer Plumbing and Heating	Registered	581 Mountain View Drive Homer AK 99603	PLUMBER

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AK00158005	Hunter Mechanical International Corporation	Registered	337 East 4th Avenue, Suite 1 Anchorage AK 99501	PLUMBER
AK00170010	ICE SERVICES, INCORPORATED	Registered	2606 C STREET, SUITE 2B ANCHORAGE AK 99503	PLUMBER
AK00168010	Icy Strait Plumbing and Heating	Registered	8282a Garnet Street Juneau AK 99801	PLUMBER
AK00108402	Intelligent Design, LLC	Registered	11741 Timberlane Drive Anchorage AK 99515	PLUMBER
2018-AK-72080	IOLA Enterprises dba Runstrom Plumbing & Heating	Registered	HC 89 Box 8182 Talkeetna AK 99676	PLUMBER
AK00108636	JGH Plumbing & Heating, Incorporated	Registered	P.O. Box 3385 Palmer AK 99645	PLUMBER
2018-AK-69772	John White's Plumbing & Heating	Registered	5327 Kenai Spur Highway Kenai AK 99611	PLUMBER
AK00092650	John's Heating Service, Inc.	Registered	1311 Mill Bay Road Kodiak AK 99615	PLUMBER
AK00096005	JOURNEYMAN PLUMBING & HEATING, INC.	Registered	51315 SEA QUEST DRIVE KENAI AK 99611	PLUMBER
AK00060001	*JUNEAU PLUMBERS JATC*	*Registered*	*1751 ANKA STREET JUNEAU AK 99801*	*PLUMBER*
2017-AK-69607	Kasilof Plumbing & Heating	Registered	26547 S. Cohoe Loop Kasilof AK 99610	PLUMBER
AK00157698	Kiwi Mechanical	Registered	Box 2132 Cordova AK 99574	PLUMBER
AK00105012	KNIK PLUMBING & HEATING	Registered	4915 W. 84TH AVENUE ANCHORAGE AK 99502	PLUMBER
AK00096017	LARRY'S PLUMBING & HEATING	Registered	P.O. BOX 4148 KODIAK AK 99615	PLUMBER
AK00147687	Larry's Quality Heating & Plumbing, Inc.	Registered	2531 Barrett Avenue Juneau AK 99801	PLUMBER
AK00080234	Lewis Mechanical, Inc.	Registered	13240 View Heights Way Anchorage AK 99516	PLUMBER
AK00050011	M&J PLUMBING & HEATING, INC.	Registered	34360 Business Park Frontage Road SOLDOTNA AK 99669	PLUMBER
AK00070010	MAT-SU MECHANICAL, INC.	Registered	1265 EAST LOLLY CIRCLE WASILLA AK 99654	PLUMBER
2017-AK-68589	Monkey Wrench Mechanical	Registered	P.O. Box 73441 Fairbanks AK 99707	PLUMBER
AK00113541	Moore Heating & Air Conditioning	Registered	1801 East Dowling Road Anchorage AK 99507	PLUMBER
AK00114890	Mr. Rooter Plumbing of Fairbanks	Registered	875 Old Richardson Highway FAIRBANKS AK 99701	PLUMBER
AK00109169	North Country Stoves, Incorporated	Registered	2207 E. Tudor Road, #40 Anchorage AK 99507	PLUMBER
AK00145928	Pacific Rim Mechanical, LLC	Registered	P. O. Box 669 Haines AK 99827	PLUMBER
AK00107004	PARAGON PLUMBING & HEATING, INCORPORATED	Registered	3400 MACARTHUR STREET FAIRBANKS AK 99701	PLUMBER
AK00000005	PARKHURST MECHANICAL	Registered	P. O. BOX 1806 Palmer AK 99645	PLUMBER
AK00105006	PARTLUSCH PLUMBING & HEATING	Registered	8301 SCHOON STREET ANCHORAGE AK 99518	PLUMBER
AK00106010	PLEASANTS PLUMBING & HEATING	Registered	P. O. BOX 33051 JUNEAU AK 99803	PLUMBER
AK00167705	Pollard Construction	Suspended	P. O. Box 32811 Juneau AK 99803	PLUMBER
AK00092200	Portwinde Plumbing and Heating, Inc.	Registered	1500 Alaska Way Fairbanks AK 99709	PLUMBER
AK00103394	Premier Mechanical, LLC	Registered	2011 Millbay Road, #2 Kodiak AK 99615	PLUMBER
AK00167700	Red Hot Mechanical, Incorporated	Registered	11723 Old Glenn Highway, Suite 107 Eagle River AK 99577	PLUMBER
AK00145735	River City Plumbing & Heating	Registered	863 6th Avenue Fairbanks AK 99701	PLUMBER
AK00177707	Rock Solid Plumbing & Heating	Registered	P.O. Box 874416 Wasilla AK 99687	PLUMBER
2017-AK-652	S.E. Plumbing, Incorporated	Registered	86 Garland Court Ketchikan AK 99901	PLUMBER
AK00168008	Scottie's Plumbing	Registered	P.O. Box 72789 Fairbanks AK 99707	PLUMBER
AK00080237	Scott's Heating & Plumbing Services, Inc.	Registered	P.O. Box 3132 Kodiak AK 99615	PLUMBER
AK00104017	STATEWIDE MECHANICAL, LLC	Registered	22750 MCMANUS DRIVE CHUGIAK AK 99567	PLUMBER
AK00088122	Sundance Construction Company, Inc.	Registered	P.O. Box 561 Kasilof AK 99610	PLUMBER
AK00092651	Superior Mechanical, Inc.	Registered	P.O. Box 82409 Fairbanks AK 99708	PLUMBER
2018-AK-71943	Tauman Mechanical Plumbing & Heating, LLC	Registered	730 W. 88th Avenue Anchorage AK 99515	PLUMBER
AK00170021	VALLEY MECHANICAL CONTRACTING, INCORPORATED	Registered	6673 E TEKAL DRIVE WASILLA AK 99654	PLUMBER
AK00125707	Waterworks Plumbing & Heating	Registered	P.O. Box 1974 Soldotna AK 99669	PLUMBER
2019-AK-73100	WolfPack Mechanical, LLC	Registered	P.O. Box 521118 Big Lake AK 99652	PLUMBER
AK00030009	YUKON-KUSKOKWIM DELTA APPRENTICESHIP PROGRAM	Registered	P.O. BOX 869 BETHEL AK 99559	PLUMBER
AK00092654	Ketchikan Indian Community	Registered	615 Stedman Street Ketchikan AK 99901	RESIDENTIAL CARPENTER
AK00113537	Nicholas Construction, LLC	Registered	P.O. Box 599 Ward Cove AK 99901	RESIDENTIAL CARPENTER
AK00135904	Yukon River Towing, LLC	Registered	P.O. Box 128 Emmonak AK 99581	RESIDENTIAL CARPENTER
AK00095004	A & K ELECTRIC	Registered	1545 CROSSON AVENUE FAIRBANKS AK 99701	RESIDENTIAL WIREMAN
AK00078015	*ALASKA JOINT ELECTRICAL APPRENTICESHIP & TRAINING TRUST*	*Registered*	*5900 B STANCHORAGE AK 99518*	*RESIDENTIAL WIREMAN*
2017-AK-472	Big M Electric, LLC	Registered	P.O. Box 84044 Fairbanks AK 99708	RESIDENTIAL WIREMAN
AK00145927	Bristol Bay Housing Authority	Registered	P.O. Box 50 Dillingham AK 99576	RESIDENTIAL WIREMAN
AK00108513	Dependable Services	Registered	P.O. Box 4357 Palmer AK 99645	RESIDENTIAL WIREMAN
AK00135907	Elegant Homes	Registered	P.O. Box 875769 Wasilla AK 99687	RESIDENTIAL WIREMAN
AK00109511	Fonov Construction and Electric, LLC	Registered	2155 North Biltmore Court Wasilla AK 99654	RESIDENTIAL WIREMAN
AK00114733	Gardner Electric Company, LLC	Registered	4183 Aspen Avenue Juneau AK 99801	RESIDENTIAL WIREMAN
AK00040014	INTERIOR REGIONAL HOUSING AUTHORITY	Registered	828 27TH AVENUE FAIRBANKS AK 99701	RESIDENTIAL WIREMAN
AK00147692	Marty Wise Electrical	Registered	1634 Sterling Highway Homer AK 99603	RESIDENTIAL WIREMAN
2017-AK-69670	*New Hope Apprenticeship Training*	*Registered*	*2471 West Trapline Drive Wasilla AK 99654*	*RESIDENTIAL WIREMAN*
AK00106007	Pacific North Construction	Registered	P.O. Box 872963 Wasilla AK 99687	RESIDENTIAL WIREMAN
AK00060013	PITCHER ELECTRIC, INC.	Registered	P.O. BOX 877871 WASILLA AK 99687	RESIDENTIAL WIREMAN
AK00140007	RISING SON ELECTRIC SERVICES, LLC	Registered	36784 Eklutna Lake Road Chugiak AK 99567	RESIDENTIAL WIREMAN
AK00110400	Solid Ground Electric	Registered	13811 Savage Drive Eagle River AK 99577	RESIDENTIAL WIREMAN
AK00055001	*Alaska Carpenters Training Trust*	*Registered*	*8751 King Street Anchorage AK 99515*	*SCAFFOLD ERECTOR*
AK00099003	*ABC of Alaska, Inc.*	*Registered*	*301 Arctic Slope Avenue, Suite 100 ANCHORAGE AK 99518*	*SHEET METAL WORKER*
AK00050001	*ALASKA SC/SE SHEET METAL WORKERS JATC*	*Registered*	*1307 E. 75TH AVENUE, #4 ANCHORAGE AK 99518*	*SHEET METAL WORKER*
AK00187004	DENALI MECHANICAL, INC.	Registered	995 RILEY COURT FAIRBANKS AK 99701	SHEET METAL WORKER
AK00150001	*FAIRBANKS AREA SHEET METAL WORKERS JATC*	*Registered*	*1260 AURORA DRIVE FAIRBANKS AK 99709*	*SHEET METAL WORKER*
AK00108587	Valley Mechanical Contractors, Inc.	Registered	6673 E. Tex-Al Drive Wasilla AK 99654	SHEET METAL WORKER

ANCHORAGE SCHOOL DISTRICT'S
LIST OF
ALASKAN FEDERALLY REGISTERED APPRENTICESHIP PROGRAMS

Program Number	Program Name	Program Status	Address	Occupation Title
AK0009900003	*ABC of Alaska, Inc.*	*Registered*	*301 Arctic Slope Avenue, Suite 100 ANCHORAGE AK 99518*	*SPRINKLER FITTER (Existing Title: Pipe Fitter)*
AK0009490002	*ANCHORAGE ALASKA AREA PIPE TRADES LOCAL #367 JATC*	*Registered*	*617 WEST POTTER DRIVE ANCHORAGE AK 99518*	*SPRINKLER FITTER (Existing Title: Pipe Fitter)*
AK0015110002	*Fairbanks Area Plumbers & Pipefitters JATC*	*Registered*	*1978 BURGESS AVENUE FAIRBANKS AK 99709*	*SPRINKLER FITTER (Existing Title: Pipe Fitter)*
AK0007800016	*ALASKA IRONWORKERS JATC*	*Registered*	*8141 SCHOON STREET ANCHORAGE AK 99518*	*STRUCTURAL STEEL WORKER (Alternate Titles: Ironworker or Structural Ironworker)*
AK0000000007	*ALASKA TEAMSTER-EMPLOYER SERVICE TRAINING TRUST*	*Registered*	*520 East 34th Avenue, Suite 201 ANCHORAGE AK 99503*	*SURVEYOR ASSISTANT INSTRUMENT*
AK0000940001	*ALASKA JOINT ELECTRICAL APPRENTICESHIP & TRAINING TRUST*	*Registered*	*5800 B STREET ANCHORAGE AK 99518*	*TREE TRIMMER (Line Clearance)*
AK0000000007	*ALASKA TEAMSTER-EMPLOYER SERVICE TRAINING TRUST*	*Registered*	*520 East 34th Avenue, Suite 201 ANCHORAGE AK 99503*	*TRUCK DRIVER, HEAVY*
2017-NH-68810	River Valley Workforce Institute, Inc.	Registered	325 Mount Support Road Lebanon NH 03766	WELDER, COMBINATION
AK0019 0012	TECK ALASKA, INC.	Registered	3105 LAKESHORE DR., BUILDING A, STE 101 ANCHORAGE AK 99	WELDER, COMBINATION

Multiple-employer apprenticeship sponsors.

ANCHORAGE SCHOOL DISTRICT
APPRENTICE UTILIZATION FORM

Project Name: _____

Solicitation Number: _____

Contractor: _____

Prime Contractors

1. Please list crafts/trades that will be used to complete this project and have Alaskan Federally Registered Apprenticeship programs.

_____	_____
_____	_____
_____	_____
_____	_____
_____	_____
_____	_____
_____	_____

2. Please list the apprentices and corresponding apprenticeship programs that will be used by the prime contractor to complete this project. If more space is needed, please attach supplemental sheets.

APPRENTICE'S NAME	APPRENTICESHIP PROGRAM
_____	_____
_____	_____
_____	_____
_____	_____
_____	_____
_____	_____
_____	_____
_____	_____
_____	_____
_____	_____

3. Please list the subcontractors that will be used on the project.

4. Please list the apprentices and corresponding apprenticeship programs that will be used by the subcontractors to complete this project. If more space is needed, please attach supplemental sheets.

APPRENTICE'S NAME	APPRENTICESHIP PROGRAM

ANCHORAGE SCHOOL DISTRICT
APPRENTICESHIP UTILIZATION PROGRAM CALCULATIONS FORM

CONTRACTOR NAME:	CHECK APPROPRIATE BOX	AUDIT PERIOD
CONTRACTOR ADDRESS:	Contractor ☐ Check Box 3 Sub-contractor ☐ Check Box 2	

LIST OF POTENTIAL ELIGIBLE TRADES CATEGORY	NUMBER OF AGGREGATE HOURS WORKED BY ALL WORKERS ON THE PROJECT IN TRADES-CRAFTS CATEGORY	NUMBER OF AGGREGATE APPRENTICE HOURS WORKED BY ALL WORKERS ON THE PROJECT IN TRADES-CRAFTS CATEGORY
CAPENTERS		
CEMENT MASONS		
ELECTRICIANS		
ELEVATOR WORKERS		
INSULATION WORKER		
LABORERS		
MILWRIGHTS		
OPERATING ENGINEERS		
PAINTERS		
PLUMBERS		
SHEET METAL WORKER		
SPRINKLER FITTER		
SURVEYORS		
TRUCK DRIVER		
TOTAL AGGREGATE HOURS		

ELIGIBLE TRADES CATEGORY	ALASKAN FEDERALLY REGISTERED APPRENTICESHIP PROGRAM	APPRENTICE'S NAME	DATE RANGE OF APPRENTICE GOOD STANDING STATUS START DATE	DATE RANGE OF APPRENTICE GOOD STANDING STATUS END DATE	NUMBER OF HOURS WORKED THIS AUDIT PERIOD BY APPRENTICE

PENALTY TABLE

$100,001 TO $500,000

1ST NON-COMPLIANCE (30-DAY)	$500.00	
2ND CONSECUTIVE NON-COMPLIANCE (30-DAY)	$750.00	
3RD 30-DAY CONSECUTIVE NON-COMPLIANCE	$1,000.00	
4TH CONSECUTIVE NON-COMPLIANCE (30-DAY)	$1,000.00	AND FINDING OF NON-RESPONSIBILITY IN FUTURE BIDDING
FURTHER CONSECUTIVE NON-COMPLIANCE EXCEEDING 4TH NON-COMPLIANCE (30-DAY)	$1,000.00	AND FINDING OF NON-RESPONSIBILITY IN FUTURE BIDDING

$500,001 TO $1,000,000

1ST NON-COMPLIANCE (30-DAY)	$750.00	
2ND CONSECUTIVE NON-COMPLIANCE (30-DAY)	$1,500.00	
3RD CONSECUTIVE NON-COMPLIANCE (30-DAY)	$2,500.00	
4TH CONSECUTIVE NON-COMPLIANCE (30-DAY)	$5,000.00	AND FINDING OF NON-RESPONSIBILITY IN FUTURE BIDDING
FURTHER CONSECUTIVE NON-COMPLIANCE EXCEEDING 4TH NON-COMPLIANCE (30-DAY)	$5,000.00	AND FINDING OF NON-RESPONSIBILITY IN FUTURE BIDDING

$1,000,001 TO $3,000,000

1ST NON-COMPLIANCE (30-DAY)	$1,000.00	
2ND CONSECUTIVE NON-COMPLIANCE (30-DAY)	$2,500.00	
3RD CONSECUTIVE NON-COMPLIANCE (30-DAY)	$5,000.00	
4TH CONSECUTIVE NON-COMPLIANCE (30-DAY)	$7,500.00	AND FINDING OF NON-RESPONSIBILITY IN FUTURE BIDDING
FURTHER CONSECUTIVE NON-COMPLIANCE EXCEEDING 4TH NON-COMPLIANCE (30-DAY)	$7,500.00	AND FINDING OF NON-RESPONSIBILITY IN FUTURE BIDDING

$3,000,001 TO $5,000,000

1ST NON-COMPLIANCE (30-DAY)	$1,500.00	
2ND CONSECUTIVE NON-COMPLIANCE (30-DAY)	$3,000.00	
3RD CONSECUTIVE NON-COMPLIANCE (30-DAY)	$7,500.00	
4TH CONSECUTIVE NON-COMPLIANCE (30-DAY)	$10,000.00	AND FINDING OF NON-RESPONSIBILITY IN FUTURE BIDDING
FURTHER CONSECUTIVE NON-COMPLIANCE EXCEEDING 4TH NON-COMPLIANCE (30-DAY)	$10,000.00	AND FINDING OF NON-RESPONSIBILITY IN FUTURE BIDDING

OVER $5,000,000

1ST NON-COMPLIANCE (30-DAY)	$2,500.00	
2ND CONSECUTIVE NON-COMPLIANCE (30-DAY)	$5,000.00	
3RD CONSECUTIVE NON-COMPLIANCE (30-DAY)	$8,000.00	
4TH CONSECUTIVE NON-COMPLIANCE (30-DAY)	$10,000.00	AND FINDING OF NON-RESPONSIBILITY IN FUTURE BIDDING
FURTHER CONSECUTIVE NON-COMPLIANCE EXCEEDING 4TH NON-COMPLIANCE (30-DAY)	$10,000.00	AND FINDING OF NON-RESPONSIBILITY IN FUTURE BIDDING

END OF SECTION

GENERAL CONDITIONS OF THE CONTRACT FOR CONSTRUCTION

REFERENCE:

The General Conditions shall be GENERAL CONDITIONS OF THE CONTRACT FOR CONSTRUCTION, ANCHORAGE SCHOOL DISTRICT, ANCHORAGE, ALASKA, bound herein.

SUPPLEMENTS:

Supplements may modify, change, delete, or add to these General Conditions. Where any article of the General Conditions is modified or any paragraph deleted, or any subparagraph or clause thereof is modified, or deleted by supplements, the unaltered provisions of such article, paragraph, subparagraph or clause shall remain in effect. The General Conditions and the Supplementary General Conditions are applicable to all of the Work under this Contract and shall apply to the Contractor and all Subcontractors, Sub-subcontractors, and Material Suppliers and Vendors.

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ARTICLE 1

CONTRACT DOCUMENTS

1.1 DEFINITIONS

1.1.1 The following terms as used in this Contract are defined as follows:

"Architect / Engineer or A/E": The design consultant of the Owner.

"Construction Manager": Supervises the construction phase of construction projects for the Anchorage School District Facilities Department.

"Contract": The Agreement between Owner and Contractor and the referenced Contract Documents stated therein.

"Contractor": The person, firm, or corporation contractually responsible to the Owner to provide the services called for by this Contract. Such entity may also be referred to as Managing General Contractor, General Contractor, or Prime Contractor.

"Days": Calendar days unless otherwise noted.

"Direct Cost": A direct cost is any cost that can be identified specifically with a particular final cost objective, i.e., with this contract, or an item of extra work, or change order under the contract.

"Senior Director of Capital Planning & Construction": Manages the Operations of the Anchorage School District Capital Planning & Construction Department.

"Furnish": Supply and deliver to the project including the cost to supply and deliver.

"Indirect Cost": An indirect cost, collectively called overhead, is any cost not directly identified with a single, final cost objective, but identified with two or more final cost objectives or an intermediate cost objective.

"Install": Build into the Work, ready to use in a complete, finished, and operable system, including the cost to install.

"Owner": The Anchorage School District, its Anchorage School Board of Education, the Superintendent of the Anchorage School District, and its employees.

"Project Manager": The person designated by the Senior Director of Capital Planning & Construction as the Owner's representative for this Contract, responsible for the day-to-day coordination between the Owner and the Contractor.

"Provide": Furnish and install for a complete, finished, and operable system.

"Reasonable Cost": A cost is reasonable if, in its nature or amount, it does not exceed that which would be incurred in a competitive market.

"Shop Drawings, Setting Drawings, Manufacturer's Printed Information and Submittal (collectively known as "Submittals")": The Contractor's information consisting of drawings, catalogs, illustrations, calculations, and other data delivered to the Owner for the purpose of assuring the Owner, prior to execution of that part of the Work, that the prescriptive element, component, subsystem, or service to be provided generally conforms with the

Contract. The Contractor is responsible to the Owner for the accuracy and completeness of the Submittals.

"Subcontractor": A person, firm, or entity who has a direct contract with the Contractor to perform any of the work.

"Work" or "Project": The finished product required by the Contract Documents together with the means and methods as determined, by the Contractor, to achieve the finished product.

1.1.2 THE CONTRACT DOCUMENTS

The Contract Documents consist of the Owner-Contractor Agreement, the Drawings, the Project Manual, and all Addenda issued prior to and all Modifications issued after execution of the Contract. A Modification is (1) a directive for change in the work pursuant to Section 12.1.2 or (2) a change order pursuant to Section 12.2.6.

1.1.3 THE CONTRACT

The Contract is the sum of all the Contract Documents. This Contract represents the entire and integrated agreement between the Owner and the Contractor and supersedes all prior negotiations, representations, or agreements, either written or oral. The Contract may be amended or modified only by a Modification as defined in Subparagraph 1.1.2.

1.1.4 THE WORK

The Work comprises the completed construction required by the Contract Documents and includes all labor necessary to produce such construction, and all materials and equipment incorporated or to be incorporated in such construction.

1.1.5 THE PROJECT

The Project is the total construction, of which the Work performed under the Contract documents may be the whole or a part.

1.1.6 SCHOOL BOARD

Board of Education of the Anchorage School District, Anchorage, Alaska.

1.1.7 BIDDER

Any individual, firm, partnership, corporation or combination thereof, formally submitting a bid for the work contemplated, or any portion thereof, acting directly or through an authorized representative.

1.1.8 MUNICIPALITY

Municipality of Anchorage, Alaska.

1.1.9 PROPOSAL

1.1.9.1 BID PROPOSAL

The written proposal of the Bidder on the form furnished by the Owner for the Work contemplated, and which is required to be signed by the Bidder.

1.1.9.2 REQUEST FOR PROPOSAL (RFP)

The offer of the Contractor submitted on the prescribed form from the Project Manager to perform the work and furnish labor, material and all other costs at the prices quoted by the Contractor for proposed changes in the work.

1.1.10 SPECIFICATIONS

The products, directions, requirements, explanations, terms and provisions pertaining to the various features of the Work to be done and the manner and method of performance. The specifications include such directions, requirements and explanations as appear on the drawings and as may otherwise be defined.

1.1.11 PROJECT SITE

The geographic location of the Project as indicated on the Drawings.

1.1.12 PROJECT MANUAL

The Project Manual includes the Bidding and Contract Requirements, Project Schedule Milestone Dates, General and Supplementary Conditions, Wage Rates, the Specifications and project drawings incorporated by reference.

1.1.13 REQUEST FOR INFORMATION

Request for Information. Written interpretations necessary for the proper execution or progress of the Work, in the form of drawings or otherwise, will be issued with reasonable promptness by the Project Manager. The Contractor may make written request to the Project Manager for such interpretations. Such interpretations will be consistent with and reasonably inferable from the Contract Documents.

1.2 EXECUTION, CORRELATION AND INTENT

1.2.1 The Contract shall be signed in doubles by the Owner and Contractor, each of which shall be deemed an original, but all or which shall constitute one and the same instrument.

1.2.2 By executing the Contract, the Contractor represents that he has visited the site, familiarized himself with the local conditions under which the Work is to be performed, and correlated his observations with the requirements of the Contract Documents.

1.2.3 The intent of the Contract Documents is to include all items necessary for the proper execution and completion of the Work. Except as otherwise specifically provided, the Contractor shall furnish all labor, tools, implements, machinery, supplies, materials, and incidentals, and shall do all things necessary to perform and to complete the Work. The Contract Documents are complementary, and what is required by any one shall be as binding as if required by all. Work not covered in the Contract Documents will not be required unless it is consistent therewith and is reasonable inferable therefrom as being necessary to produce the intended results. Words and abbreviations which have well-known technical or trade meanings are used in the Contract Documents in accordance with such recognized meanings unless otherwise specifically defined herein.

1.2.4 The organization of the Specifications into division, sections and articles, and the arrangement of Drawings shall not control the Contractor in dividing the Work among Subcontractors or in establishing the extent of Work to be performed by a trade.

1.2.5 If any portion of the Contract Documents shall be in conflict with any other portion, the

various documents comprising the Contract Documents shall govern in the following order of precedence:

1.2.5.1 The Owner-Contractor Agreement;
1.2.5.2 Modifications;
1.2.5.3 Addenda;
1.2.5.4 Section 00800 - Supplementary General Conditions;
1.2.5.5 Section 00700 - General Conditions of the Contract for Construction;
1.2.5.6 Specifications - embodying all other sections in the Project Manual;
1.2.5.7 Drawings: as between schedules and information given on Drawings, the schedules shall govern; as between written dimensions given on Drawings and scaled measurements, the written dimensions shall govern; as between large-scale Drawings and small-scale Drawings, the larger scale shall govern;
1.2.5.8 Performance Bond, Labor and Material Payment Bond;
1.2.5.9 Bid/Proposal Form;
1.2.5.10 Instructions to Bidders/Proposers;
1.2.5.11 Invitation to Bid/Request for Proposal;
1.2.5.12 Student Community Workforce Agreement

All such conflicts shall be reported, in writing, to the Project Manager. Schedules, lists, indexes, tables, inventories, written instruction, written descriptions, summaries, statements, classifications, specifications, written selections, or written designations, although appearing on the Drawings, are deemed to be and are “Specifications” as defined by this Subparagraph 1.2.5. The principles as set forth herein shall not alter the provisions of Subparagraph 1.2.3.

In the event there is a conflict between or among any provisions within one of the component parts of the Contract Documents, the higher standard or more stringent requirement shall govern.

1.2.6 The Contractor agrees that nothing contained in the Contract Documents or any contract between the Owner and the Architect shall create any contractual relationship between the Architect and the Contractor, any Subcontractors, Sub-subcontractors, Material Suppliers or Vendors. The Contractor acknowledges and agrees that this Contract is not intended to create, nor shall any provision be interpreted as creating, any contractual relationship between the Owner or Contractor or any third parties.

1.2.7 Any material or operation specified by reference to published specifications of a manufacturer, a society, an association, a code, or other published standard, shall comply with requirements of the listed document and project specifications; or as between referenced documents, the more stringent code or performance requirements shall govern. The Contractor, if requested, shall furnish an affidavit from the manufacturer certifying that the materials or products delivered to the Project meet the requirement specified.

1.3 OWNERSHIP AND USE OF DOCUMENTS

1.3.1 All Drawings, Specifications and copies thereof furnished by the Owner are and shall remain its property. They are to be used only with respect to this Project and are not to be used on any other project.

1.3.2 The Owner will provide conformed drawings and specifications incorporating Addenda items into the Contract Documents. A reasonable number of reproduced sets will be provided to the contractor without charge.

END OF ARTICLE 1

ARTICLE 2

ARCHITECT

2.1 DEFINITION

2.1.1 The Architect is the person or organization lawfully licensed to practice architecture, or an entity lawfully practicing architecture identified as such in the Owner-Contractor Agreement, and is referred to throughout the Contract Documents as if singular in number and masculine in gender. The term Architect means the Architect and his engineers, whether under contract or within his own organization, or his authorized representative.

2.1.2 The term Architect is interchangeable with the term Project Architect, and is exclusive of the services of the Asbestos Abatement Architect.

2.1.3 The Asbestos Abatement Architect is not a part of the Architect's organization.

2.2 SERVICES OF THE ARCHITECT

2.2.1 The Architect will provide certain services as hereinafter described.

2.2.2 Should errors, omissions, or conflicts in the Drawings, Specifications, or other Contract Documents provided by the Architect be discovered, the Architect will prepare such amendments or supplementary documents and provide consultation as may be required.

2.2.3 The Architect and his consulting engineers (including but not limited to the structural, mechanical, and electrical disciplines) will visit the site at intervals appropriate to the stage of construction to familiarize themselves generally with the progress and quality of the Work and to determine in general if the Work is proceeding in accordance with the Contract Documents. Unless otherwise provided in the Owner-Architect Agreement, the Architect and his consulting engineers will not be required to make exhaustive or continuous on-site inspection or observations to check the quality or quantity of the Work, but they shall make as many on-site inspections and observations as may reasonably be required to fulfill their obligations to the Owner. On the basis of such on-site observation, the Architect and his consulting engineers shall endeavor to guard the Owner against defects and deficiencies in the Work of the Contractor.

2.2.4 The Architect will render written field reports to the Project Manager in the form required by the Project Manager relating to the periodic visits and inspections of the Project required by Subparagraph 2.2.3.

2.2.5 The Architect will not be responsible for and will not have control or charge of construction means, methods, techniques, sequences or procedures, or for safety precautions and programs in connection with the Work, and he will not be responsible for the Contractor's failure to carry out the Work in accordance with the Contract Documents. The Architect will not be responsible for or have control or charge over the acts or omissions of the Contractor, Subcontractors, or any of their agents or employees, or any other persons performing any of the work.

2.2.6 The Architect shall at all times have access to the Work wherever it is in preparation or progress. The Contractor shall provide safe facilities for such access so the Architect may perform his functions under the Contract Documents.

2.2.7 The Project Manager will consult with the Architect regarding the Contractor's Applications for Payment and both shall sign the Applications for Payment as provided in Subparagraph

9.4.

2.2.8 As required, the Architect will render to the Project Manager interpretations necessary for the proper execution or progress of the Work, with reasonable promptness and in accordance with any time limit agreed upon.

2.2.9 All communications, correspondence, submittals, and documents exchanged between the Architect and the Contractor in connection with the Project shall be through or in the manner prescribed by the Project Manager.

2.2.10 All interpretations and decisions of the Architect will be consistent with the intent of and reasonably inferable from the Contract Documents.

2.2.11 The Architect's decision in matters relating to artistic effect will be final if consistent with the intent of the Contract Documents and approved by the Project Manager.

2.2.12 If the Architect observes any Work that does not conform to the Contract Documents, the Architect shall promptly report in writing this observation to the Project Manager. The Architect will prepare and submit to the Project Manager punchlists of the Contractor's Work which is not in conformance with the Contract Documents. The Project Manager will transmit such punchlists to the Contractor.

2.2.13 The Architect will review and take appropriate action upon Contractor's submittals such as Shop Drawings, Product Data and Samples, but only for conformance with the design concept of the Work and for general compliance with the Contract Documents. Such action shall be taken in no more than twenty-one (21) days of receipt unless otherwise authorized by the Project Manager.

2.2.14 The Project Manager will establish with the Architect procedures to be followed for review and processing of all Shop Drawings, catalog submittals, project reports, test reports, maintenance manuals, and other necessary documentation, as well as requests for changes and applications for extensions of time.

2.2.15 The Architect will prepare technical documentation for Change Orders when directed by the Project Manager.

2.2.16 The Architect and the Project Manager will conduct inspections to determine the dates of Substantial Completion and Final Completion, and will issue a final Certificate of Substantial Completion.

2.2.17 Unless otherwise provided in the Contract Documents, or the Owner-Architect Agreement, the Architect will prepare a set of reproducible record prints of Drawings showing significant changes in the Work made during the construction process, based on neatly and clearly marked-up prints, Drawings, and other data furnished by the Contractor.

2.2.18 In case of the termination of the employment of the Architect, the Owner may appoint an architect against whom the Contractor makes no reasonable objection whose status under the Contract Documents shall be that of the former architect, or the Owner may have the Project Manager assume all of the services of the Architect thereafter.

2.3 ASBESTOS ABATEMENT ARCHITECT

2.3.1 Solely with regards to asbestos abatement, the Asbestos Abatement Architect shall be afforded the same rights and authority as hereinbefore allowed the Architect.

2.3.2 The Architect is not a part of the Asbestos Abatement Architect's organization.

2.4 SEPARATE ARCHITECT, ENGINEER OR ARCHITECT/ENGINEER

2.4.1 Unless otherwise noted in the Contract Documents, the Separate Architect, Engineer or Architect/Engineer, as defined by the Supplementary General Conditions, Document 00800, shall be afforded the same rights and authority as hereinbefore allowed the Architect.

2.4.2 The Contract Documents, when applicable, shall define the portion of the Work relating to the services of the Separate Architect, Engineer or Architect/Engineer.

END OF ARTICLE 2

ARTICLE 3

OWNER

3.1 DEFINITIONS

3.1.1 The Owner is the Anchorage School District acting through its legally constituted officials, officers, employees, or agents and is referred to throughout the Contract Documents as if singular in number and masculine in gender. The term Owner means the Owner or its authorized representative or agent.

3.1.2 The Asbestos Abatement Consultant is under separate Agreement with the Owner. Communications protocol between the Contractor and the Asbestos Abatement Architect shall be as established by the Project Manager.

3.2 PROJECT MANAGER

3.2.1 The Project Manager will be the Owner's representative and agent to the Contractor with respect to the Project during construction and until the issuance of the final Certificate for Payment. The term Project Manager is referred to throughout the Contract Documents as if singular in number and masculine in gender. The Owner's communications with the Contractor and the Architect will be through the Project Manager, who will have full authority to act on behalf of the Owner with regard to all aspects of the Project except that the Owner must approve all Change Orders and payments to the Contractor. The Project Manager's actions with regard to this project will be as an agent and representative of the Owner.

3.2.2 The Project Manager is not authorized to revoke, alter, change, relax, or release any requirements of the Contract, nor to approve or accept any portion of the Work not executed in accordance with, nor to issue instructions contrary to, the Contract Documents.

3.2.3 Nothing contained within the Contract Documents shall create any contractual relationship between the Project Manager and the Contractor.

3.3 INFORMATION, SERVICES AND RIGHTS OF THE OWNER

3.3.1 The Owner, through the Project Manager, will provide administration of the Contract as hereinafter described.

3.3.2 The Owner and the Project Manager shall at all times have access to the Work whenever it is in preparation or progress. The Contractor shall provide safe facilities for such access.

3.3.3 The Owner and the Project Manager shall not be responsible for or have control or charge of the construction means, methods, techniques, sequences, or procedures, or for safety precautions and programs in connection with the Work and will not be responsible for the Contractor's failure to carry out the Work in accordance with the Contract Documents. The Project Manager will not be responsible for the acts or omissions of the Contractor, any Subcontractors, or any of their agents or employees, or any other persons performing any of the Work.

3.3.4 The Project Manager shall have authority on behalf of the Owner to condemn or reject Work when, in the Project Manager's opinion the Work does not conform to the Contract Documents. Whenever, in the Project Manager's reasonable opinion, it is considered necessary or advisable to insure the proper implementation of the intent of the Contract Documents, the Project Manager shall have the authority to require special inspection or

testing of any Work in accordance with the provisions of the Contracts Documents, whether or not such Work be then fabricated, installed, or completed.

3.3.5 The Project Manager will have authority to require additional inspection or testing of the Work in accordance with Subparagraph 7.7.3, whether or not such Work be then fabricated, installed, or completed. However, neither the Project Manager's authority to act under Subparagraphs 3.3.4 and 3.3.5, nor any decision made by the Project Manager in good faith either to exercise or not to exercise such authority shall give rise to any duty or responsibility of the Project Manager to the Contractor, any Subcontractor, any of their agents or employees, or any other persons performing any of the work.

3.3.6 The Project Manager shall have the authority and discretion to call, schedule, and conduct job meetings to be attended by the Contractor, and representatives of his Subcontractors, and Material Suppliers, and Vendors and the Architect, to discuss such matters as procedures, progress, changes, problems, claims and scheduling.

3.3.7 The Project Manager will establish procedures to be followed for processing all Shop Drawings, catalogs, and other project reports, and other documentation, test reports, and maintenance manuals.

3.3.8 The Project Manager will review all requests for changes and shall implement the processing of Change Orders, including applications for extension of the Contract time.

3.3.9 Project scheduling shall occur as set forth in Division 1, Section 01311 of the General Requirements, entitled "Schedules and Reports". The Owner and the Project Manager will not be responsible for the failure of the Contractor to plan, schedule, and execute the Work in accordance with the Contractor's accepted schedule or the failure of the Contractor to meet the Project Schedule Milestone Dates as set forth under Section 00200 hereof or the failure of the Contractor to schedule and coordinate the Work of his own trades and Subcontractors, and Material Suppliers and Vendors, or the failure of the Contractor to coordinate and cooperate with other separate contractors.

3.3.10 The Project Manager, in consultation with the Architect, will review and process all Applications for Payment by the Contractor, including the final Application for Payment.

3.3.11 The Owner and the Project Manager will not be responsible for the acts or omissions of the Contractor, or any Subcontractor, or Material Supplier and Vendor, or any contractor's, subcontractor's or Material Supplier's and Vendor's agents or employees, or any other persons performing any of the Work.

3.3.12 The Owner shall, if requested by the Contractor, furnish all existing and available surveys describing the physical characteristics, legal limitations and utility locations for the site of the Project.

3.3.13 Except as otherwise provided in the Contract Documents, the Owner shall pay for necessary easements required for permanent structures or for permanent changes in existing facilities. The Contractor shall be responsible for obtaining all necessary permits and coordinating the securing of easements, inspections and approvals for permanent structures and all associated work.

3.3.14 Information or services under the Owner's control shall be furnished by the Owner with reasonable promptness to avoid delay in the orderly progress of the Work.

3.3.15 Unless otherwise provided in the Contract Documents, the Contractor will be furnished, free of charge, all copies of Drawings and Specifications, and such supplemental

documents as are reasonably necessary for the execution of the Work.

3.3.16 The foregoing rights are in addition to other rights of the Owner enumerated herein and those provided by law.

3.4 OWNER'S RIGHT TO PERFORM WORK AND TO AWARD SEPARATE CONTRACTS

3.4.1 The Owner reserves the right to perform other work at the project site(s) with his own forces, and to award separate contracts in connection with portions of other work on the site.

3.4.2 The Contractor shall afford the Owner and separate Contractors reasonable opportunity for the introduction and storage of their materials and equipment and the execution of their Work, and shall coordinate his Work with theirs as required by the Contract Documents.

3.4.3 A pre-construction conference will be held with the Contractor, Project Manager, and other contractors performing work at the project site, for the purpose of coordinating work in areas where more than one contractor may be working. The time of the meeting will be established by the Owner's Representative prior to the Contractor commencing his work.

3.4.4 The Contractor shall attend additional coordination meetings, as requested by the Owner's Representative.

3.5 OWNER'S RIGHT TO STOP OR TO SUSPEND THE WORK

3.5.1 If the Contractor fails to correct defective Work as required by Paragraph 13.2 or fails to carry out the Work or supply labor and materials in accordance with the Contract Documents, the Owner, through the Project Manager, by a written order may order the Contractor to stop the Work, or any portion thereof, until the cause for such order has been eliminated; however, this right of the Project Manager to stop the Work on behalf of the Owner shall not give rise to any duty on the part of the Project Manager to exercise this right for the benefit of the Contractor or any other person or entity.

3.5.2 The Project Manager may order the Contractor in writing to suspend, delay, or interrupt all or any part of the Work for such period of time as he may determine to be appropriate for the convenience of the Owner.

3.5.3 Upon receipt of any such suspension order, the Contractor shall immediately comply with its terms and take all reasonable steps to minimize incurring costs allocated to the Work covered by the order during the period of Work suspension.

3.5.4 If the performance of all or any part of the Work is suspended, or delayed, or interrupted by the Owner or the Project Manager pursuant to Subparagraph 3.5.2, the Contractor may make application for an adjustment in contract time and contract sum pursuant to Paragraph 12.2, and Division 1, Section 01311, Paragraph 2.03, respectively. No such adjustment shall be made if the performance of the Work is suspended by the Owner pursuant to Subparagraph 3.5.1.

3.6 OWNER'S RIGHT TO CARRY OUT THE WORK

3.6.1 If the Contractor defaults or neglects to carry out the Work in accordance with the Contract Documents and fails within seven (7) days after receipt of written notice from the Project Manager to commence and continue correction of such default or neglect with diligence and promptness, the Owner may, after seven (7) days following receipt by the Contractor of an additional written notice and without prejudice to any other remedy he may have,

make good such deficiencies and may further elect to complete all Work thereafter through such means as the Owner may select, including the use of a new Contractor. In such a case an appropriate Change Order shall be issued deducting from the payments then or thereafter due the Contractor the cost of correcting such deficiencies, including additional Owner administrative and legal costs, and compensation for the Architect's and the Project Manager's additional services made necessary by such default, neglect or failure. If the payments then or thereafter due the Contractor are not sufficient to cover such amount, the Contractor shall pay the difference to the Owner.

3.7 AUDIT

3.7.1 The Owner shall have access to the Contractor's books, accounts, records, invoices and other records and documents pertaining to the Project at all reasonable times for the purpose of inspecting and auditing such. The Contractor shall provide to the Owner his daily manpower and equipment reports for all Subcontractors and any and all information requested or required by the Owner to validate or verify an Application for Payment, claim for cost or a requisition. The Contractor shall have no right to additional compensation or time in the event a requisition is delayed due to the inability of the Owner to validate or verify an Application for Payment due to the failure or refusal of the Contractor to allow such inspection or audit or to provide such requested information.

3.7.2 The Contractor shall maintain all data and records pertinent to the Work performed under this Contract in accordance with generally accepted accounting principles, and shall preserve and make available all data and records until the expiration of three (3) years from the date of final payment under this Contract, or for such longer period, if any, as is required by applicable statute, pending litigation, or by other articles of this Contract. The Owner and its authorized representatives shall have access to all such data and records for such time period to inspect, audit and make copies thereof during normal business hours.

3.7.3 The Contractor covenants and agrees that it shall require that any Subcontractor and any Sub-Subcontractor utilized in the performance of this Contract shall permit the authorized representatives of the Owner to similarly inspect and audit all data and records of said Subcontractors and Sub-Subcontractors relating to the performance of said Subcontractors and Sub-Subcontractors under this Contract for the same time period specified above.

END OF ARTICLE 3

ARTICLE 4

CONTRACTOR

4.1 DEFINITION

4.1.1 The Contractor is the person or organization identified as such in the Owner-Contractor Agreement and is referred to throughout the Contract Documents as if singular in number and masculine in gender. The term Contractor means the Contractor or his authorized representative, who shall have the authority to bind the Contractor in all matters pertinent to this Contract.

4.2 REVIEW OF CONTRACT DOCUMENTS

4.2.1 Before placing his proposal to the Owner, and continuously after execution of the Contract, the Contractor shall carefully study and compare the Contract Documents and shall at once report to the Owner, through the Project Manager, any error, inconsistency or omission he may discover, including any requirement which may be contrary to any law, ordinance, rule, regulation or order of any public authority bearing on the performance of the Work. By submitting his proposal or bid for the Contract and the Work under it, the Contractor agrees that the Contract Documents appear accurate, consistent, and complete insofar as can reasonably be determined. If the Contractor has reported in writing an error, inconsistency or omission, has promptly stopped the affected work until otherwise instructed, and has otherwise followed the instructions of the Owner, the Contractor shall not be liable to the Owner for any damage resulting from any such errors, inconsistencies or omissions in the Contract Documents. The Contractor shall perform no portion of the Work at any time without Contract Documents and, where required, approved Shop Drawings, Product Data or Samples for such portion of the Work.

4.3 SUPERVISION AND CONSTRUCTION PROCEDURES

4.3.1 The Contractor shall supervise and direct the Work, using his best skill and attention. He shall be solely responsible for and have control over all construction means, methods, techniques, sequences and procedures and for coordinating all portions of the Work under the Contract.

4.3.2 The Contractor shall be responsible to the Owner for the acts and omissions of his employees, Subcontractors, and Material Suppliers and Vendors, and their agents and employees, and other persons performing any of the work.

4.3.3 The Contractor shall not be relieved from his obligations to perform the Work in accordance with the Contract Documents either by the activities or duties of the Architect or the Project Manager in their administration of the Contract, or by inspections, tests or approvals (or the lack thereof) required or performed under Paragraph 7.7 by persons other than the Contractor.

4.3.4 Independent of this Contract, the Owner has undertaken a long term asbestos abatement program by which the Owner intends to properly document the existence of asbestos-contained materials and the lawful removal of ACM by qualified asbestos abatement contractors or subcontractors in accordance with the Asbestos Hazard Emergency Response Act (AHERA) and the Asbestos School Hazard Abatement Reauthorization Act (ASHARA). As part of this asbestos abatement program, the Owner has employed a private consultant to locate asbestos-containing materials present in the Owner's facilities. A copy of the AHERA report as it relates to the facility which is involved in this Contract can be obtained from the Owner by contacting the Project Manager.

4.3.4.1 Before starting the Work or any Section of the Work, the Contractor shall inspect or, if using a Subcontractor for a Section of the Work, shall cause his Subcontractor to inspect all preparatory work, including that performed prior to the commencement of the Work under this Contract, for the presence of suspected asbestos-containing materials.

4.3.4.2 If the Contractor or his Subcontractor encounters any asbestos-containing material or suspected asbestos-containing material -- whether such material is identified in the AHERA report or the private consultant's report or not -- the Contractor shall bring it to the immediate attention of the Project Manager by timely written notice. Such notification shall be considered timely if received by the Project Manager within two (2) days after the discovery of the asbestos-containing material or suspected asbestos-containing material by the Contractor or by a Subcontractor if the Contractor uses a Subcontractor to perform that Section of the Work. If the Contractor does not give timely notice of the presence of asbestos-containing material or suspected asbestos-containing material, the Contractor will not receive additional compensation for delay caused by the necessity of the Owner to stop work and abate asbestos-containing material during the course of the Work. Failure of a Subcontractor to report the presence of asbestos-containing material or suspected asbestos-containing material to the Contractor shall not relieve the Contractor of his responsibilities hereunder.

4.3.4.3 If the Contractor, or his employees, agents or subcontractors intentionally or negligently disturbs or removes, or causes to be disturbed or removed, all or a portion of asbestos-containing material, the Contractor shall indemnify, hold harmless and defend the School District and the Project Manager from and against any claims, damages, losses and expenses, and alleged claims, damages, losses and expenses, including but not limited to attorney's fees, arising out of or resulting from any cleanup/decontamination work, medical treatment, or legal action arising or resulting from said intentional or negligent disturbance or removal of asbestos-containing material.

4.3.5 The Contractor shall make all necessary arrangements and so conduct the Work that all parts of the same will be carried out simultaneously and harmoniously and that the work of installing the various sections or items of same shall not interfere with or retard the progress of other Work.

4.3.6 If it becomes necessary at any time during the progress of the Work to move materials and/or equipment which have been temporarily located or stored, the Contractor shall move them or cause them to be moved, at his expense. Care shall be taken that no part of the Work shall be overloaded at any time.

4.3.7 The Contractor shall furnish all required information to ensure continuity between various sections of the Work and to avoid delay and obviate defects on any part of the whole Work, all as approved by the Owner.

4.3.8 Any damage caused by the handling or installation of materials or equipment, or the carrying out of any portion of the Work must also be made good by the Contractor to the satisfaction of the Project Manager.

4.3.9 The Contractor shall compare all the various drawings, and shall install Work in a manner to provide for all clearances and finishes indicated thereon. Work under each trade shall be arranged to clear piping, equipment, etc., of all other trades.

4.3.10 The Contractor shall inform himself fully regarding any peculiarities and limitations of the

space available for the installation of the material. He shall see that all equipment, such as valves, or other appliances necessary to be reached from time to time for operations and maintenance are made readily accessible.

4.3.11 The construction of the Work may develop conditions that render impracticable the location of equipment as shown or noted. In such cases, before installing his Work, the Contractor shall call the condition to the attention of the Project Manager for resolution.

4.3.12 It shall be the Contractor's sole responsibility to so coordinate the Work that chases or other recesses in walls shall be provided where required, and that reasonable clearance between the work of various trades shall be maintained. The layout for openings and chases through walls, floors, and partitions, etc., shall be arranged in advance of the actual construction and the work carried out without unnecessary and superfluous cutting, etc., after the Work has been completed.

4.3.13 Dimensions shall be verified by the measurements of the buildings and the property, and the Contractor shall be responsible for all of his work fitting in place in a satisfactory and workmanlike manner.

4.3.14 The Contractor has carefully examined, in detail, all of the Drawings and Specifications and the time established for completion of the Work, and he accepts them as adequate to meet the requirements specified.

4.3.15 The Contractor shall be responsible for coordinating the work performed by any artist in connection with the project's ornamentation with the construction of this project, so that there shall be no unnecessary delay or interference in connection with said construction.

4.3.16 The Contractor shall coordinate and generally supervise the Work of this Contract and shall coordinate his Work with Work performed under Separate Contracts by mutual arrangement and agreement with the Contractors for those Contracts and the Project Manager. Unresolved disputes will be finally resolved by the Project Manager, subject to approval of the Owner, and the dispute resolution provisions of Subparagraph 12.5.

4.4 LABOR AND MATERIALS

4.4.1 Unless otherwise provided in the Contract Documents, the Contractor shall provide and pay for all labor, materials, equipment, tools, construction equipment and machinery, water, heat, utilities, transportation, and other facilities and services necessary for the execution and completion of the Work in accordance with the Contract Documents, and any applicable building permit, conditional and final certificate(s) of occupancy, code or statute, whether specifically required by the Contract Documents or whether their provision may reasonably be inferred as necessary to produce the intended results, whether temporary or permanent and whether or not incorporated or to be incorporated in the Work.

4.4.2 The Contractor shall at all times enforce strict discipline and good order among his employees and shall not employ on the Work any unfit person or anyone not skilled in the task assigned to him. The Project Manager may, by notice in writing, require the Contractor to promptly remove from the site of the Work any employee or worker the Project Manager deems incompetent, careless or otherwise objectionable including violation of District Policies relating to alcohol, illegal drugs, or firearms on District property.

4.4.3 The Contractor shall be responsible for ensuring that the Work is completed in a skillful and workmanlike manner.

4.5 WARRANTY

4.5.1 The Contractor warrants to the Owner and the Architect that all materials and equipment furnished under this Contract will be new unless otherwise specified, and that all Work will be of good quality, free from faults and defects and in conformance with the Contract Documents. All Work not conforming to these requirements, including substitutions not properly approved and authorized, is defective. If required by the Project Manager or the Architect, the Contractor shall furnish satisfactory evidence as to the kind and quality of materials and equipment. This warranty is not limited by the provisions of Paragraph 13.2.

4.5.2 The warranties set forth in this Paragraph 4.5 and elsewhere in the Contract Documents shall survive final acceptance under Paragraph 9.9.

4.6 TAXES

4.6.1 The Contractor shall pay all sales, consumer, use and other similar taxes for the Work or portions thereof provided by the Contractor which are legally enacted at the time bids are received, whether or not yet effective.

4.7 PERMITS, FEES AND NOTICES

4.7.1 Except as specifically provided in Subparagraph 3.3.13 the Contractor shall secure and pay for (1) all permits and governmental fees, licenses and inspections necessary for the proper execution of the Work which are legally required at the time the bids are received, and (2) all permits and governmental fees, licenses and inspections from any agency or department of the Municipality of Anchorage that would be necessary for the proper execution of the Work or legally required at the time bids are received just as if the Work were performed and the Project located within the Municipality of Anchorage. The Municipality of Anchorage shall be considered a “public authority bearing on the performance of the Work” and a “public authority having jurisdiction” for purposes of this Contract.

4.7.1.1 The Anchorage School District has paid for the Municipality of Anchorage’s Building Plan Review and Building Fee Permit. Contractor shall obtain permit upon notice from Project Manager.

4.7.2 The Contractor shall give all notices and comply with all such laws, ordinances, rules, regulations and lawful orders of any public authority bearing on the performance of the Work.

4.7.3 If the Contractor performs any Work knowing it to be contrary to any such laws, ordinances, rules, regulations or orders of any public authority bearing on the performance of the Work, and does so without reasonable notice to the Project Manager, the Contractor shall assume full responsibility therefore and shall bear all costs attributable thereto.

4.7.4 Notification, coordination and completion of the installation of all required utilities, whether temporary or permanent, is the sole responsibility of the Contractor. The Owner shall not be responsible for any damage or delay caused by any party’s inability to perform installations in the time frame desired by the Contractor.

4.8 ALLOWANCES

4.8.1 The Contractor shall include in the Contract Sum all allowances stated in the Contract Documents. Items covered by these allowances shall be supplied for such amounts and by such persons as the Owner may direct, but the Contractor will not be required to employ persons against whom he makes a reasonable objection.

4.8.2 Unless otherwise provided in the Contract Documents:

4.8.2.1 These allowances shall cover the cost to the Contractor, less any applicable trade discount, of the materials and equipment required by the allowance delivered at the site, and all applicable taxes;

4.8.2.2 The Contractor's costs for unloading and handling on the site, labor, installation costs, overhead, profit and other expenses contemplated for the original allowance shall be included in the Contract Sum and not in the allowances;

4.8.2.3 Whenever the cost is more than or less than the allowance, the Contract Sum shall be adjusted accordingly by Change Order, the amount of which will recognize changes, if any, in handling costs on the site, labor, installation costs, overhead, profit and other expenses.

4.9 SUPERINTENDENT

4.9.1 The Contractor shall employ a competent superintendent and necessary assistants who shall be in attendance full-time at the Project Site during the progress of the Work. The superintendent shall represent the Contractor, and all communications given to the superintendent shall be as binding as if given to the Contractor. If requested by the Project Manager, the Contractor shall provide a management chart and a list of personnel in a number stipulated by the Project Manager which shall comprise the superintending staff. In such event, all references to the superintendent elsewhere in the Contract Documents shall mean the superintending staff.

4.9.2 The superintendent shall be in attendance at the Project Site not less than eight (8) hours per day, five (5) days per week, unless the job is closed down due to a general strike or conditions beyond the control of the Contractor or until termination of the Contract in accordance with the Contract Documents. The superintendent shall not be employed on any other project during the course of the Work.

4.9.3 In the event any of the following conditions shall exist, the Contractor shall require that his superintendent be at the Project Site not less than ten (10) hours per day, six (6) days per week:

4.9.3.1 Should Substantial Completion not be accomplished on schedule.

4.9.3.2 Should Final Completion not be accomplished on schedule.

4.9.3.3 Should the Contractor's progress schedule indicate the Contractor to be fourteen (14) or more days behind schedule at any time during construction up until thirty (30) days prior to scheduled Substantial Completion.

4.9.3.4 Should the Contractor's progress schedule indicate the Contractor to be seven (7) or more days behind schedule at any time during the last thirty (30) days prior to scheduled Substantial Completion.

4.10 CONSTRUCTION SCHEDULE

4.10.1 The Contractor shall prepare and submit to the Project Manager for the Owner's review and acceptance a construction schedule pursuant to and in accordance with Division 1, Section 01311 of the General Requirements entitled "Project Schedule."

4.11 DOCUMENTS AND SAMPLES AT THE SITE

4.11.1 The Contractor shall maintain at the site for the Owner one record copy of all Drawings, Specifications, Addenda, Change Orders and other Modifications, in good order and marked currently to record all changes made during construction, and approved Shop Drawings, Product Data and Samples. These shall be available to the Project Manager and the Architect and shall be delivered to the Project Manager upon substantial completion of the Work.

4.12 SHOP DRAWINGS, PRODUCT DATA AND SAMPLES

4.12.1 Shop Drawings are drawings, diagrams, schedules and other data specially prepared for the Work by the Contractor or any Subcontractor, manufacturer, supplier or distributor to illustrate some portion of the Work.

4.12.2 Product Data are illustrations, standard schedules, performance charts, instructions, diagrams, and other information furnished by the Contractor to illustrate a material, product or system for some portion of the Work.

4.12.3 Samples are physical examples which illustrate materials, equipment or workmanship and establish standards by which the Work will be judged.

4.12.4 The Contractor shall review, approve and submit using the ASD Procore Construction Management Program, with reasonable promptness and in such sequence as to cause no delay in the Work or in the work of the Owner or any separate contractor, all Shop Drawings, Product Data and Samples required by the Contract Documents, or subsequently by the Project Manager. The Contractor's Shop Drawings, Product Data, and Samples submissions shall be coordinated and consistent with the Contractor's Project Scheduling obligations under Division 1, Section 01311 of the Contract Documents. Shop Drawings and Samples shall be properly identified as specified, or as the Project Manager may require. At the time of submission, the Contractor shall inform the Architect in writing of any deviation in the Shop Drawings or Samples from the requirements of the Contract Documents.

4.12.5 By approving and submitting Shop Drawings, Product Data and Samples, the Contractor represents that he has determined and verified all materials, field measurements, and field construction criteria related thereto, and that he has checked and coordinated the information contained within such submittals with the requirements of the Work and of the Contract Documents. The Contractor shall adhere to any supplementary processing and scheduling instruction pertaining to Shop Drawings which may be issued by the Project Manager.

4.12.6 The Contractor shall not be relieved of responsibility for any deviation from the requirements of the Contract Documents by the Architect's approval and Project Manager's review of Shop Drawings, Product Data or Samples under Subparagraph 2.2.14 unless the Contractor has specifically informed the Architect and Project Manager in writing of such deviation at the time of submission and the Architect and Project Manager have given written approval to the specific deviation. The Contractor shall not be relieved from responsibility for errors or omission in the Shop Drawings, Product Data or Samples by the Architect's approval of or Project Manager's review thereof.

4.12.7 The Contractor shall promptly make corrections required by the Architect and shall resubmit the required number of corrected copies of Shop Drawings or new Product Data or Samples. The Contractor shall direct specific attention, in writing or on resubmitted Shop Drawings, Product Data or Samples, to revisions other than those requested by the

Architect on previous submittals. Resubmittals necessitated by required corrections due to Contractor's errors or omissions, or less than complete submittals as required by the specifications, shall not be cause for extension of Contract Time.

4.12.8 The Contractor shall keep on the job at all times copies of approved Shop Drawings, Product Data or Samples which bear the review stamp of the Architect/Engineer.

4.12.9 The review of Shop Drawings, Product Data or Samples by the Architect and Project Manager shall not relieve the Contractor from his responsibility to coordinate the work of the Subcontractors.

4.12.10 The review of Shop Drawings, Product Data or Samples by the Architect and the Project Manager shall not relieve the Contractor of his responsibilities to construct the work in accordance with the Contract Documents.

4.12.11 The review of Shop Drawings, Product Data or Samples by the Architect shall not be construed as an approval of the quantities of materials or confirmation of dimensions.

4.12.12 In preparing a schedule for delivery of materials the Contractor shall allow reasonable time for the approval, including resubmissions due to Contractor's errors and omissions, of Shop Drawings, Product Data or Samples.

4.12.13 When Shop Drawings, Cuts, or Brochures are forwarded to the Architect by the Contractor for approval, a copy of the Contractor's letter of transmittal with project name, Contractor's name, number of drawings, title and other pertinent data covering each transaction is to be mailed to the Project Manager. The Architect and his consulting Engineers shall follow the same procedure when it is necessary for them to return or transfer Shop Drawings, Cuts or Brochures either between themselves or to the Contractor for changes, corrections or resubmittal, so that the Project Manager can record and follow procedure for each transaction to finality.

4.12.13.1 Pursuant to and consistent with the Contractor's Project Schedule development obligations under Division 1, Section 01311 of the Contract Documents, the Contractor shall submit Shop Drawings, Product Data and Sample submission schedule information to the Architect and Project Manager. The Contractor shall submit, and the Architect and Project Manager will review, the Contractor's submittals in accordance with the Contractor's accepted Preliminary and Detailed Project Schedules, as required under Division 1, Section 01311 of the Contract Documents. The Contractor shall submit no Shop Drawings, Product Data or Samples which do not comply with the Contract Documents.

4.12.13.2 No portion of the Work requiring a Shop Drawing, Product Data or Sample submission shall be commenced until such submission has been reviewed, and approved, by the Architect in accordance with Subparagraph 2.2.13. All such portions of the Work shall be in accordance with approved submittals.

4.12.13.3 No claim for delay shall be allowed the Contractor on account of failure of the Architect to furnish drawings or approval of Shop Drawings and Samples until at least twenty-one (21) days after submission to the Architect.

4.12.14 Shop Drawings, Product Data, and Samples shall be dated and shall bear the name of the Project; a description or the names of equipment, materials and items; and complete identification of locations at which materials or equipment are to be installed.

4.12.15 In submitting for approval the use of any material or device as the equal of some other material or device specified by name, the Contractor shall submit a sample of the material specified and also a sample of the material proposed to be submitted as the equal thereof, together with any supporting data necessary to reasonably allow the Architect and the Project Manager to review the material.

4.12.16 In case of devices, samples of which cannot readily be submitted, catalogs and other data, shall be submitted.

4.12.17 Any material or device proposed to be substituted shall not be deemed acceptable except by written communication from the Architect and Project Manager.

4.12.18 All Work for which samples are required to be submitted and approved shall be executed and performed in conformity with the said approved samples.

4.13 USE OF SITE

4.13.1 The Contractor shall confine operations at the site to areas permitted by law, ordinances, permits and the Contract Documents and shall not unreasonably encumber the building or site with any materials or equipment.

4.13.2 The Contractor shall coordinate all of his operations with and secure approval from the Project Manager before using any portion of the site.

4.13.3 All Work or materials of every description subject to injury during the course of the Work shall be fully protected from damage from any source. In any event, should any Work or materials under this Contract, become damaged in any way or manner the Contractor shall repair and perfect the same at his own expense, and when the entire Contract is completed, the building and premises shall be delivered to the Owner without defects. Any damage which may be caused by the installation of any portion of the Work covered by these specifications and conditions, or by the Contractor shall be satisfactorily made good and repaired by the Contractor without cost to the Owner.

4.13.4 The Contractor shall provide and maintain all lights, footways, guards, fences, gates, etc., for the proper protection of the public, and shall comply with all municipal rules, regulations, ordinances and laws, relating to the prosecution of his work.

4.13.5 The Contractor shall properly and carefully shore up or otherwise support all live water, sewer and gas pipes, electric wires, free-standing walls, conduit, etc., which may be encountered.

4.13.6 The Contractor shall furnish for his use, throughout the entire construction all scaffolding, ladders, decking or runways as needed to perform the Work under this Contract.

4.13.7 The Contractor shall construct elevators, cranes and other rigging, concrete lifts, etc., as required for his Work.

4.13.8 All such construction shall be carried out as required by the code or authority having jurisdiction. No cranes or other heavy equipment shall be located or moved in such manner as to damage or strain the framework or any part(s) of the proposed building and/or existing building.

4.13.9 As construction proceeds, the Project Manager may deem it necessary to have the Contractor move trailers, fences, stored materials, etc., to facilitate the construction. Upon written notice from the Project Manager, this will be done without additional cost to the

Owner.

4.13.10 When school is in session the Contractor will be restricted to the areas which do not interfere with school operations. These areas shall be safety and security fenced to not impact school operations. Additional areas may be utilized upon concurrence of the Project Manager. The Contractor shall minimize his impact on the educational program while his work is in progress. Workers must stay out of school while school is in session. All work in the existing school can only take place during the hours approved by the Project Manager

4.13.11 The Contractor must maintain interior building fire exits through the construction areas and maintain these exits during all school operation hours, to the satisfaction of the Authorities having Jurisdiction. These exit routes may not be modified without concurrence of the Project Manager and the School Principal.

4.13.12 The Contractor must maintain fire equipment access routes open to site and buildings. According to UFC 10.502 fire equipment access and water supplies shall be installed and made serviceable prior to and during the time of construction. This is the Contractor's responsibility to coordinate.

4.13.13 The Contractor shall keep the boilers operational while the average outside temperature is below 60° F while the school program is in operation or at any time temperature is below 40° F, to protect facility utility systems.

4.14 CUTTING AND PATCHING OF WORK

4.14.1 The Contractor shall be responsible for all cutting, fitting or patching that may be required to complete the Work or to make its several parts fit together properly.

4.14.2 The Contractor shall not damage or endanger any portion of the Work or the work of the Owner or any separate contractors by cutting, patching or otherwise altering any work, or by excavation. The Contractor shall not cut or otherwise alter the work of the Owner or any separate Contractor except with the written consent of the Owner and of such separate Contractor. The Contractor shall not unreasonably withhold, from the Owner, or any separate contractor his consent to cutting or otherwise altering the Work.

4.14.3 Existing structures and facilities including but not limited to building, utilities, topography, streets, curbs, walks, etc., that are damaged or removed due to required excavations or other construction work, shall be patched, repaired or replaced by the Contractor to the satisfaction of the Project Manager, the owner of such structures and facilities, and authorities having jurisdiction. In event the local jurisdictional authorities require that such repairing and patching be done with their own labor and materials, the Contractor shall abide by such regulations and pay for such work.

4.14.4 Whenever, for the convenience of work, an oversized opening has been provided, it shall be the responsibility of the Contractor requesting and requiring such opening to eventually fill unused portions of such openings with the appropriate material and with special attention to penetrations of firewalls. Such repair shall be in accordance with Paragraph 4.14.1.

4.15 CLEANING UP

4.15.1 The Contractor at all times shall keep the premises free from accumulation of waste materials or rubbish caused by his operations. At the completion of the Work he shall remove all his waste materials and rubbish from and about the Project as well as all his

tools, construction equipment, machinery and surplus materials.

4.15.2 If the Contractor fails to clean up during or at the substantial or final completion of his Work, the Owner may do so as provided in Paragraph 6.3 and the costs thereof shall be charged to the Contractor.

4.16 COMMUNICATIONS

4.16.1 The Contractor shall forward all communications to the Architect or the Owner through the Project Manager, except as described under Paragraph 4.12.13.

4.17 ROYALTIES AND PATENTS

4.17.1 The Contractor shall pay all royalties and license fees. He shall defend all suits or claims for infringement of any patent rights and shall save the Owner harmless from loss on account thereof, except that the Owner shall be responsible for all such loss when a particular design, process or the product of a particular manufacturer or manufacturers is specified, but if the Contractor has reason to believe that the design, process or product specified is an infringement of a patent, he shall be responsible for such loss unless he promptly gives such information to the Project Manager.

4.18 INDEMNIFICATION

4.18.1 To the fullest extent permitted by law, the Contractor shall, at his sole cost and expense, indemnify, hold harmless and defend the Owner, the Municipality of Anchorage and their Board or Assembly members, administrators, representatives, and employees, and the Project Architect and its agents, representatives, and employees from and against all claims, actions, judgments, costs, liabilities, penalties, damages, losses and expenses, including but not limited to attorneys' fees, which arise out of or result from the performance of the Work, and which are:

4.18.1.1 Attributable to bodily injury, sickness, disease or death, or to injury to, pollution of, or destruction of property (other than the Work itself) including the loss of use resulting therefrom; and

4.18.1.2 Caused by the default of the Contractor, or by any act, whether negligent or wrongful, or omission of the Contractor, any Subcontractor, Material Supplier or Vendor, anyone directly or indirectly employed by any of them or anyone directly or indirectly employed by any of them or anyone for whose acts any of them may be liable.

4.18.2 In any and all claims against the Owner or the Municipality of Anchorage or their Board or Assembly members, administrators, representatives or employees, and the Project Architect and its agents, representatives, and employees by any employee of the Contractor, any Subcontractor, anyone directly or indirectly employed by any of them or anyone for whose acts any of them or anyone for whose acts any of them may be liable, the indemnification obligation under this Paragraph 4.18 shall not be limited in any way by any limitation on the amount or type of damages, compensation or benefits payable by or for the Contractor and Subcontractor under worker's compensation acts, disability benefit acts or other employee benefit acts.

4.19 PERSONS AUTHORIZED TO SIGN DOCUMENTS

4.19.1 The Contractor, within five (5) days after the Notice to Proceed shall file with the Project Manager a list of all persons who are authorized to sign documents such as contracts,

modifications, schedules, certificates, and affidavits on behalf of the Contractor and to fully bind the Contractor to all the Conditions and provisions of such documents, except that in the case of a corporation he shall file with the Project Manager a certified copy of a resolution of the Board of Directors of the corporation in which are listed the names and titles of corporation personnel who are authorized to sign documents on behalf of the corporation and to fully bind the corporation to all the conditions and provisions of such documents. This person, or at least one of these persons, shall be available to meet in Anchorage, Alaska, with the Owner or his representative(s) to discuss, negotiate and/or resolve any Change Order or other Modification to the Contract or any other matter needing resolution by the parties as determined at the sole discretion of the Owner within forty-eight (48) hours after receipt of written notice, at no additional cost to the Owner.

4.20 CONDITIONS AFFECTING THE WORK

4.20.1 The Contractor shall be responsible for taking all steps necessary to ascertain the nature and location of the Work and the general and local conditions which can affect the Work or the cost thereof. Failure by the Contractor to fully acquaint himself with conditions which may affect the Work, including, but not limited to conditions relating to transportation, handling, storage of materials, availability of labor, water, roads, weather, topographic and subsurface conditions, multi-prime contract conditions, applicable provisions of law, and the character and availability of equipment and facilities needed prior to and during the execution of the Work, shall not relieve the Contractor of his responsibilities under the Contract Documents and shall not constitute a basis for an adjustment in the Contract Sum or the Contract Time under any circumstances. The Owner assumes no responsibility for any understanding or representation about conditions affecting the Work made by any of his officers, employees, representatives, or agents prior to the execution of the Contract, unless such understandings or representations are expressly stated in the Contract Documents.

4.20.2 Until final acceptance by the Owner, the Contractor shall be in complete control of and fully responsible for the Work.

4.20.3 The Contractor shall give to the proper authorities all required notices relating to the Work in his charge, and shall be responsible for all acts and events which are violations of the law or which would be violations of the law had the Work been performed or the Project located within the Municipality of Anchorage.

4.20.4 Wherever herein mention is made of any article, material or workmanship to be in accordance with the laws, ordinances, building code, Underwriter’s Code, and A.S.T.M. Specifications or similar expressions, the requirement of these laws, ordinances, etc., shall be construed as the minimum requirements of these Specifications, and all articles, materials and workmanship required by these laws, ordinances, etc., shall be provided by the Contractor without any additional cost to the Owner.

4.20.5 Where the requirements of the laws, ordinances, etc., are mandatory, they shall govern.

4.20.6 Where the requirements of the Specifications call for higher grade or are not in conflict with the laws, ordinances, etc., the Specifications shall govern.

4.20.7 In case of any apparent conflict between the Specifications and such laws, ordinances, etc., the Contractor shall immediately call the attention of the Project Manager (in writing) to such conflict for decision, before proceeding with any work which may involve such conflict.

END OF ARTICLE 4

ARTICLE 5

SUBCONTRACTORS

5.1 DEFINITION

5.1.1 A Subcontractor is a person, organization or entity who has a direct contract with the Contractor to perform any of the Work. The term Subcontractor is referred to throughout the Contract Documents as if singular in number and masculine in gender and means a Subcontractor or his authorized representative. The term Subcontractor does not include any separate contractor or his subcontractors.

5.1.2 A Sub-subcontractor is a person or entity who has a direct or indirect contract with a Subcontractor to perform any of the Work. The term Sub-subcontractor is referred to throughout the Contract Documents as if singular in number and masculine in gender and means a Sub-subcontractor or an authorized representative thereof.

5.1.3 Nothing contained in the Contract Documents is intended to, nor shall it create, any contractual relationship between the Owner, the Project Manager, the Architect, or any of their agents, employees, or representatives and any Subcontractor or Sub-subcontractor.

5.2 AWARD OF SUBCONTRACTS AND OTHER CONTRACTS FOR PORTIONS OF THE WORK

5.2.1 The Contractor, in compliance with the requirements of the Contract Documents, shall furnish to the Project Manager in writing the names of the persons or entities (including those who are to furnish materials or equipment fabricated to a special design) proposed for each of the principal portions of the Work. The Project Manager will within ten (10) days of receipt of such information reply to the Contractor in writing stating whether or not the Owner, after due investigation, has reasonable objection to any such proposed person or entity. Failure of the Project Manager to reply within a reasonable time shall constitute notice of no reasonable objection. The Contractor understands and agrees that no contractual agreement exists for any part of the Work under this Contract between the Owner and any of the Contractor's Subcontractors or Sub-subcontractors. Further, the Contractor understands and agrees that he alone is responsible to the Owner for all of the Work under this Contract and that any review of Subcontractors or Sub-subcontractors by the Owner or Project Manager will not in any way make the Owner responsible to any Subcontractor or Sub-subcontractor, nor responsible for the actions or failures of any Subcontractor or Sub-subcontractor.

5.2.1.1 Within ten (10) days after the Notice to Proceed, the Contractor shall furnish to the Project Manager, in writing, for acceptance by the Owner, a list of names of the Subcontractors, Sub-subcontractors, and Material Suppliers and Vendors, proposed for the principal portions of the Work.

5.2.1.2 Within thirty-five (35) days after Notice to Proceed, the Contractor shall submit to the Project Manager, copies of Purchase Orders or other satisfactory evidence of purchase for all major materials.

5.2.2 The Contractor shall not contract with any such proposed person or entity to whom the Project Manager has made reasonable objection under the provisions of this Subparagraph.

5.2.2.1 The Contractor shall not be required to contract with anyone to whom he has a reasonable objection. There shall be no entitlement to additional compensation based upon the Project Manager's reasonable objection made

under this Section.

5.2.3 If the Project Manager has reasonable objection to any such proposed person or entity, the Contractor shall submit a substitute to whom the Project Manager has no reasonable objection.

5.2.4 The Contractor shall make no substitution for any Subcontractor, person or entity previously selected if the Project Manager makes reasonable objection to such substitution.

5.2.5 During the course of the Project the Contractor must notify the Project Manager in writing regarding any changes in any Work by any Subcontractor, Sub-subcontractor, Material Supplier or Vendor.

5.3 SUBCONTRACTUAL RELATIONS

5.3.1 By an appropriate agreement, written where legally required for validity, the Contractor shall require each Subcontractor, to the extent of the Work to be performed by the Subcontractor, to be bound to the Contractor by the terms of the Contract Documents, and to assume toward the Contractor all the obligations and responsibilities which the Contractor, by these Documents, assumes toward the Owner. Said agreement shall preserve and protect the rights of the Owner under the Contract Documents with respect to the Work to be performed by the Subcontractor so that the subcontracting thereof will not prejudice such rights, and shall allow to the Subcontractor, unless specifically provided otherwise in the Contractor-Subcontractor agreement, the benefit of all rights, remedies and redress against the Contractor that the Contractor, by these Documents, has against the Owner. Where appropriate, the Contractor shall require each Subcontractor to enter into similar agreements with his Sub-subcontractors. The Contractor shall make available to each proposed Subcontractor, prior to the execution of the Subcontract, copies of the Contract Documents to which the Subcontractor will be bound by this Paragraph 5.3, and identify to the Subcontractor any terms and conditions of the proposed Subcontract which may be at variance with the Contract Documents. Each Subcontractor shall similarly make copies of such Documents available to his Sub-subcontractors, Material Suppliers or Vendors.

5.3.2 In addition to Sub-Contractual agreement in Paragraph 5.3.1, the Contractor shall allow the Subcontractor, Sub-subcontractor, Material Supplier or Vendor to notify the Project Manager due to failure of payment, unwarranted retainage or deductions of payment or unwarranted lateness of payment.

5.3.3 As a condition precedent to the acceptance of the Contractor’s proposed Preliminary and Detailed Project Schedules by the Project Manager, each major Subcontractor shall in writing, with the submission of said schedules by the Contractor, confirm that they have reviewed the Contractor’s proposed Project Schedules, and that each concurs with the activity breakdowns, durations, cost loading, and logic as relates to each major Subcontractor’s scope of the Work and the incorporation of said Work into the Contractor’s proposed Preliminary and Detailed Project Schedules, as prescribed under Division 1, Section 01311 of the General Requirements of the contract documents.

5.4 PREPARATORY WORK

5.4.1 Before starting work, the responsible Subcontractor shall carefully examine all preparatory Work that has been executed to receive his Work. He shall check carefully, by whatever means are required, to ensure that his work and adjacent related Work will finish to proper contours, planes, and levels. He shall promptly notify the Contractor and the Project

Manager of any defects or imperfections in preparatory Work which will, in any way, affect satisfactory completion of his Work. Absence of such notification will be construed as an acceptance of preparatory work and later claims of defects therein will not be recognized.

5.4.2 Each Subcontractor is required to follow the provisions of 4.3.4 relating to asbestos abatement.

5.5 PAYMENTS TO SUBCONTRACTORS, SUB-SUBCONTRACTORS, AND MATERIAL SUPPLIERS AND VENDORS

5.5.1 If the Project Manager withholds a Certificate for Payment for any cause which is the fault of the Contractor and not the fault of a particular Subcontractor, Sub-subcontractor, and Material Supplier and Vendor, the Contractor shall pay that Subcontractor, Sub-subcontractor, Material Supplier and Vendor on demand, made at any time after the Certificate for Payment should otherwise have been issued, for his work to the extent completed, less any retained percentage.

5.5.2 The Contractor shall pay each Subcontractor, Sub-subcontractor, and Material Supplier and Vendor a just share of any insurance monies received by the Contractor, and he shall require each Subcontractor to make similar payments.

END OF ARTICLE 5

ARTICLE 6

WORK BY OWNER OR BY SEPARATE CONTRACTORS

6.1 OWNER'S RIGHT TO PERFORM WORK AND TO AWARD SEPARATE CONTRACTS

6.1.1 The Owner reserves the right to perform work related to the Project with his own forces, and to award separate contracts in connection with other portions of the Project or other work on the site under these or similar Conditions of the Contract.

6.1.2 When separate contracts are awarded for different portions of the Project or other work on the site, the term Contractor in the Contract Documents in each case shall mean the Contractor who executes each separate Owner-Contractor Agreement.

6.1.3 Upon transfer of such separate contracts to a General Contractor, if the Owner so desires to transfer such contracts, the Contractor shall be obligated to the conditions as outlined by Paragraph 6.3. of these Conditions.

6.2 MUTUAL RESPONSIBILITY

6.2.1 The Contractor shall afford the Owner and separate Contractors reasonable opportunity for the introduction and storage of their materials and equipment and the execution of their Work, and shall connect and coordinate his Work with theirs as required by the Contract Documents.

6.2.2 If any part of the Contractor's Work depends for proper execution or results upon the Work of the Owner or any separate contractor, the Contractor shall, prior to proceeding with the Work, promptly report to the Owner any apparent discrepancies or defects in such other work that render it unsuitable for such proper execution and results. Failure of the Contractor to so inspect and report in writing to the Owner shall constitute an acceptance of the Owner's or separate contractors' work as fit and proper to receive his Work, except as to defects which may subsequently become apparent in such work by others.

6.2.2.1 In addition to inspection as to defect, the Contractor, if so deemed necessary by the Contractor, shall measure or inventory work already in place or stored and shall at once report, in writing, to the Project Manager any conflicts between the executed Work and the Contract Documents the Contractor has signed his name thereto.

6.2.2.2 Upon notification from the Owner that a part of the Work furnished under this Contract is not in accordance with the Contract Documents, the Contractor shall immediately initiate action to correct the Work.

6.2.2.3 If the Contractor fails to install his Work in a timely manner, the Owner through the Project Manager may authorize other Contractor(s) to perform their Work out of proper sequence. All extra Work necessary to properly interface with the other Contractor(s)' Work will be accomplished by this Contractor at no additional cost to the Owner.

6.2.3 Any costs caused by defective or ill-timed work shall be borne by the Contractor.

6.2.4 Should the Contractor wrongfully cause damage to the Work or property of the Owner, or to other Work on the site, the Contractor shall promptly remedy such damage as provided in Subparagraph 10.2.5.

6.2.5 Should the Contractor wrongfully cause damage to the work or property of any separate contractor, the Contractor shall upon due notice promptly attempt to settle with such other Contractor by agreement; or otherwise to resolve the dispute. If such separate Contractor sues or initiates a proceeding against the Owner, the Project Manager and/or the Architect on account of any damage alleged to have been caused by the Contractor, the Owner shall notify the Contractor who shall defend such proceedings at his own expense, and if any judgment or award against the Owner, the Project Manager, and/or the Architect arises therefrom the Contractor shall pay or satisfy it and shall reimburse the Owner, the Project Manager and/or the Architect for all attorneys' fees and court or other costs which the Owner, the Project Manager and/or the Architect have incurred.

6.2.6 In the event there is more than one contractor engaged on the Project, each such contractor shall be responsible to the other for damages to work, injury to any person or persons, or for any loss, cost, claims, or damages arising out of or in connection with the Work required by this Contract or any loss, cost, expense, or damage caused by the Contractor's neglect or failure to finish or satisfactorily complete his part of the Work within the time prescribed. In all events, the provisions of Paragraph 4.18 shall be applicable.

6.2.7 Whenever the Contractor receives items from another Contractor or from the Owner for storage, erection or installation, the Contractor receiving such items shall give receipt for items delivered, and thereafter will be held responsible for care, storage and any necessary replacing of item or items received.

6.2.8 The separate contractors shall establish and maintain communication throughout the course of their Work to assure maximum coordination of the Work performed by each. This includes the approvals of the Work of each as required by proper coordination.

6.3 OWNER'S RIGHT TO PERFORM DISPUTED WORK

6.3.1 If a dispute arises between the Contractor and separate contractors as to their responsibility for cleaning up as required by Paragraph 4.15 or for accomplishing coordination or doing required cutting, filling, excavating or patching as required by Paragraph 4.14, the Owner may carry out such Work and charge the cost thereof to the contractors responsible therefor as the Owner shall determine to be just.

6.4 EQUIPMENT OR WORK NOT IN CONTRACT (NIC)

6.4.1 When certain items of equipment and other work are indicated as "NIC" (Not In Contract), or to be furnished and installed under other contracts, any requirements for preparation of openings, provision of backing, etc., for receipt of such "NIC" work, information will be furnished upon written request of the Contractor who shall properly form and otherwise prepare his Work in a satisfactory manner to receive such "NIC" work.

6.5 CUTTING AND PATCHING UNDER SEPARATE CONTRACTS

6.5.1 Each Contractor shall be responsible for any cutting, fitting and patching that may be required to complete his Work except as otherwise provided in the Contract Documents. The Contractor shall not endanger any human life or portion of the Work performing any cutting, excavating or otherwise altering the Work or any part thereof.

END OF ARTICLE 6

ARTICLE 7

MISCELLANEOUS PROVISIONS

7.1 GOVERNING LAW

7.1.1 Unless otherwise provided in the Contract Documents, the Contract shall be governed by the law of the place where the Project is located.

7.2 SUCCESSORS AND ASSIGNS

7.2.1 The Owner and the Contractor each binds himself, his partners, successors, assigns and legal representatives to the other party hereto and to the partners, successors, assigns and legal representatives of such other party in respect to all covenants, agreements and obligations contained in the Contract Documents. The Contractor shall not assign the Contract or sublet it as a whole without the written consent of the Owner, nor shall the Contractor assign any monies due or to become due to him hereunder, without the previous written consent of the Owner.

7.3 WRITTEN NOTICE

7.3.1 Written notice shall be deemed to have been duly served if delivered in person to the individual or member of the firm or entity or to an officer of the corporation for whom it was intended, or if delivered at or sent by registered or certified mail to the last business address known to him who gives the notice.

7.4 CLAIMS FOR DAMAGES

7.4.1 Should the Contractor suffer injury or damage to person or property because of any act or omission of the Owner or of any of his employees, agents or others for whose acts he is legally liable, claim shall be made in writing to the Owner, through the Project Manager, within twenty (20) days after the first observance of such injury or damage; otherwise, the Contractor shall have waived any and all rights he may have against the Owner, the Project Manager, the Architect, or their employees, representatives or agents.

7.4.2 Decisions of the Project Manager shall be rendered as provided for under the Contract Documents, but no decision of the Project Manager shall deprive the Owner or the Contractor of any form of redress which may be available under the laws of the State. Any decision of the Project Manager shall be final and binding on the Contractor in the absence of written notice of protest from the Contractor received by the Owner by registered mail, within fifteen (15) days of the date of the decision of the Project Manager. The Owner shall have sixty (60) days from the date of receipt of a formal protest within which to investigate and make reply.

7.5 PERFORMANCE BOND AND PAYMENT BOND

7.5.1 Prior to the execution of the Contract, the Contractor shall furnish to the Owner, on forms acceptable to the Owner, surety bonds in the amounts and for the purposes provided in this Paragraph 7.5. Each bond must be signed by both the Contractor and the Surety. The current power of attorney for the person who signs for the surety company, indicating the monetary limit of such powers, must be attached to the bonds. The Contractor shall pay all premiums and cost thereof and incidental thereto. Such bonds shall be made payable to the Owner. The surety (or sureties) shall be corporate surety(ies) licensed to transact business in Alaska and acceptable to the Owner. Each bond shall be in an amount equal to the Contract Sum. The effective date of the bond shall be on the execution date of the

contract.

7.5.2 The “Performance Bond” shall be so conditioned as to assure the faithful performance by the Contractor of all Work under said Contract, within the time limits prescribed, including any maintenance provisions, in a manner that is satisfactory and acceptable to the Owner; that all materials and workmanship supplied by him will be free from original or developed defects; and that should original or developed defects or failures appear within a period of one year from the date of final acceptance of the Work by the Owner, the Contractor shall, at his own expense, make good such defects and failures and make all replacements and adjustments required, within a reasonable time after being notified by the Owner to do so. This bond shall be maintained by the Contractor in full force and effect during the performance of the Work of the Contractor and for a period of two (2) years after the date of final acceptance of the Work by the Owner.

7.5.3 The “Payment Bond” shall be so conditioned as to inure to the benefit of persons furnishing materials for or performing labor upon the Work. This bond shall be maintained by the Contractor in full force and effect until the Work is completed and finally accepted by the Owner, and until all claims for materials, labor and subcontracts are paid.

7.5.4 Should any surety or sureties upon said bonds become insufficient or be disqualified from doing business in Alaska, the Contractor shall renew said bond or bonds with good and sufficient sureties, acceptable to the Owner, within ten (10) work days after receiving notice that the surety or sureties are insufficient and/or disqualified. Should any surety or sureties be deemed unsatisfactory at any time by the Owner, notice will be given the Contractor to that effect, and he shall forthwith substitute a new surety or sureties satisfactory to the Owner. No further payment shall be deemed due or will be made under this Contract until the new sureties shall qualify and be accepted by the Owner.

7.5.5 In the event of any change order resulting in the performance of additional work in connection with the Work, the amounts of such bonds shall be increased by the cost of such additional work or materials or fixtures to be incorporated into the Project.

7.6 RIGHTS AND REMEDIES

7.6.1 The Contractor’s duties and obligations imposed by the Contract Documents and the rights and remedies available thereunder shall be in addition to and not a limitation of any duties, obligations, rights and remedies otherwise imposed or available by law.

7.6.2 Except as may be specifically agreed in writing, the failure of the Owner, the Project Manager, or the Architect to insist in any one or more instances upon the strict performance of any one or more of the provisions of this Contract, or to exercise any right herein contained or provided by law, shall not be construed as a waiver or relinquishment of the performance of such provision or right(s) or of the right to subsequently demand such strict performance or exercise such right(s), and the rights shall continue unchanged and remain in full force and effect.

7.6.3 The Contractor agrees that he can be adequately compensated by money damages for any breach of this Contract which may be committed by the Owner and hereby agrees that no default, act, or omission of the Owner, the Project Manager or the Architect, except for unauthorized failure to make payments as required by the Contract Documents, shall constitute a material breach of the Contract entitling the Contractor to cancel or rescind the provisions of this Contract or (unless the Owner shall so consent or direct in writing) to suspend or abandon performance of all or any part of the Work. The Contractor hereby waives any and all rights and remedies to which he might otherwise be or become entitled, save only his right to money damages.

7.7 TESTS

7.7.1 If the Contract Documents, laws, ordinances, rules, regulations or orders of any public authority having jurisdiction require any portion of the Work to be inspected, tested, or approved, the Contractor shall give the Architect and Project Manager timely notice, but not less than seventy-two (72) hours, of its readiness so the Architect and the Project Manager may observe such inspection, testing or approval. The Contractor shall bear all costs of such inspections, tests or approvals except as provided in subparagraph 7.7.2. Notification, coordination and execution of all inspections and tests required by the Contract Documents or by the governing building department shall be the sole responsibility of the Contractor. The Owner shall not be responsible for any damage or delay caused by any Party's inability to make required inspections in the time frame desired by the Contractor.

7.7.2 Special Inspection and testing as required in accordance with IBC section 1704 shall be coordinated by the Contractor and the Owner shall bear all costs of Special Inspections or approvals. The Special Inspector, designated by the Owner, shall observe the Work assigned for conformance with the approved design drawings and specifications. The Project Manager may order additional Special Inspections, testing, or approval, as required by the authority having jurisdiction by providing notice to the Contractor. The Contractor shall provide notification and coordination for additional Special Inspections as provided in subparagraph 7.7.1. If such special inspection or testing reveals a failure of the Work to comply (1) with the requirements of the Contract Documents, or (2) with respect to the performance of the Work, with laws, ordinances, rules, regulations, or orders of any public authority having jurisdiction, the Contractor shall bear all costs thereof, including compensation of the Owner's administrative and legal expenses, and for the Architect's, the Project Manager's, and the Special Inspector's additional services made necessary by such failure.

7.7.3 Inspections and Tests required to establish compliance with the Contract Documents, as provided for in the Contract Documents, will be made by a qualified, independent testing agency approved by the Owner. The cost of the services of such agency will be paid by the Contractor, unless otherwise provided in the Contract Documents. When the initial tests indicate non-compliance with the Contract Documents, any subsequent retesting occasioned by non-compliance shall be performed by the same agency and the costs thereof borne by the Contractor. The Contractor shall provide facilities for such access to the Work in order that the agency may properly perform its functions. Representatives of the testing agency shall have access to the Architect, Project Manager, or Owner at all times.

7.7.4 Inspections or testing performed exclusively for the Contractor's convenience shall be the sole cost and responsibility of the Contractor.

7.7.5 The independent testing agency, employed as specified in the Technical portion of these specifications, shall prepare the test reports, logs, and certificates applicable to the specific inspections and tests and shall deliver, immediately or within forty-eight (48) hours, as applicable, the specified number of copies of same to the designated parties. Other required certificates of inspection, testing or approval shall be secured by the Contractor and delivered by him to the Project Manager and the Architect, in such time as to not delay progress of the Work or final payment therefor.

7.7.6 If the Architect, the Project Manager or the Special Inspector is to observe the inspections, tests or approvals required by the Contract Documents, laws, ordinances, rules, regulations, or orders of any public authority having jurisdiction or that are required to establish compliance with the Contract Documents, he will do so promptly and, where

practicable, at the normal place of testing.

7.7.7 Unless otherwise stipulated in the Contract Documents, the Contractor shall pay for all utilities required for testing of installed equipment of all of his Work and work of each Subcontractor furnishing equipment. Labor and supervision required for making such tests shall be provided at no additional cost to the Owner.

7.7.8 Owner may provide Quality Assurance testing. Contractor shall provide knowledgeable support personnel and cooperate fully with Owner's designated representative in conducting all Quality Assurance tests. If project fails tests, Contractor shall make all necessary corrections to meet test criteria and pay the Owner for all costs associated with additional tests.

7.8 ALTERNATES

7.8.1 Alternates may be either additive or deductive.

7.8.2 Alternates, if taken, may be taken in any sequence.

7.8.3 The Contractor shall include in his bid, or bid proposal, a bid for all alternates listed in the Bid Form. These alternates shall include the Contractor's net cost of the labor, materials, overhead and profit, and equipment necessary to perform or delete, the Work as outlined by such alternates.

7.9 UNENFORCEABILITY OF ANY PROVISION

7.9.1 If any provision of the Contract is held as a matter of law to be unenforceable, the remainder of the Contract shall be enforceable without such provision.

7.10 NO WAIVER BY OWNER

7.10.1 The failure of the Owner in any one or more instances to insist upon the strict performance of any of the terms of this Contract or to exercise any option herein conferred, shall not be construed as a waiver or relinquishment to any extent of the right to assert or rely upon such terms or option on any future occasion.

7.11 ASSIGNMENT OF CONTRACT

7.11.1 The Contractor shall not assign the responsibilities of this Contract, either as a whole or in part, nor assign any monies due or to become due to it hereunder, without previous written consent of the Owner.

END OF ARTICLE 7

ARTICLE 8

TIME

8.1 DEFINITIONS

8.1.1 Unless otherwise provided, the Contract Time is the period of time allotted in the Contract Documents for Substantial and Final Completion of the Work as defined in Subparagraph 8.1.3, including authorized adjustments thereto.

8.1.2 The date of execution of the Contract Agreement between the Owner and Contractor shall be subsequent to School Board Approval and the Contractor's satisfactory submittals to the Owner of the Certificate of Insurance, the Performance Bond and the Payment Bond as noted in the Invitation to Bidders. The Owner will issue a Notice to Proceed no later than ten (10) days from execution of the Owner-Contractor Agreement by both Owner and Contractor. The date of commencement of the Work shall be the date established by the Notice to Proceed. The Owner shall not be responsible for any costs incurred by the Contractor prior to the Notice to Proceed.

8.1.3 The Date of Substantial Completion of the Work or designated portion thereof is the Date certified by the Project Manager and Architect when the Work or a designated portion thereof is sufficiently complete, in accordance with the Contract Documents, so the Owner can fully occupy and utilize the Work or designated portion thereof for the use for which it is intended, with all of the Project's parts and systems cleaned and operable as required by the Contract Documents. Only incidental corrective work and any final cleaning beyond that needed for the Owner's full use may remain for Final Completion.

8.1.4 The term day as used in the Contract Documents shall mean calendar day unless otherwise specifically designated. All dates shall mean 12:01 a.m. of the indicated day unless otherwise stipulated.

8.1.5 The term "working day" as may be used in the Contract Documents shall mean any day not otherwise defined herein as a non-working day.

8.1.6 The term non-working day as may be used in the Contract Documents shall mean Sunday, a recognized holiday, a day on which the Contractor is specifically required to suspend construction operations or a day on which a suspension order is in effect. Recognized holidays shall be: New Year's Day, Independence Day, Labor Day, Veteran's Day, Thanksgiving Day, Christmas Eve (half day), and Christmas Day. When any of the above days fall on a Saturday, the preceding Friday shall be counted as a holiday. When any of the above days fall on a Sunday, the following Monday shall be counted as a holiday.

8.1.7 The term "Beneficial Occupancy" is interchangeable with the term Substantial Completion.

8.2 PROGRESS AND COMPLETION

8.2.1 All times stated in the Contract Documents are of the essence of the Contract.

8.2.2 The Contractor shall begin the Work on the date of commencement as defined in Subparagraph 8.1.2. He shall carry the Work forward expeditiously with adequate forces and shall achieve Substantial Completion and Final Completion in accordance with the Project Schedule Milestone Dates set forth under Section 00200 hereof.

8.2.3 Attention is directed to the fact that the Work is urgently needed by the Owner and that time is of the essence; for this reason, it shall be agreed that the Contractor shall

substantially complete all Work under the Contract in accordance with the Project Schedule Milestone Dates set forth under Section 00200 hereof and, that he will complete the contract in all its details for final acceptance as specified after Substantial Completion.

8.3 DELAYS AND EXTENSIONS OF TIME

8.3.1 The Contractor shall be entitled to extensions in the time required for performance of the Work as specifically provided in the Contract. Except as otherwise specifically provided under Paragraph 3.4., 12.1, or 8.3.5, the Contractor shall not be entitled to payment or compensation of any kind from the Owner for direct, indirect, impact or consequential damages, including but not limited to costs of acceleration because of hindrance or delay or loss of labor or equipment efficiency or productivity arising out of any hindrance, interference, obstruction, disruption or delay from any source or cause whatsoever, whether such hindrance, interference, obstruction, disruption or delays be reasonable or unreasonable, foreseeable or unforeseeable, or avoidable or unavoidable.

8.3.2 The Contract Time may be adjusted only for changes pursuant to Paragraph 12.1, suspension of Work pursuant to Paragraph 3.4. and delays pursuant to Subparagraph 8.3.3.

8.3.3 Types of delay shall be defined as follows:

8.3.3.1 Actions or inactions of the Owner, or events for which the Owner has assumed contractual responsibility, which would independently delay the date of Substantial Completion beyond the current contractually established date of Substantial Completion shall be designated as Compensable delays.

8.3.3.2 Events which are outside the control of, and without the fault or negligence of either the Owner or the Contractor, which would independently delay the date of Substantial Completion beyond the current Contract Completion Date shall be designated as Excusable delays, as follows:

8.3.3.2.1 Labor disputes and strikes (including strikes affecting transportation), that do, directly and critically affect the progress of the Work; however, any extension of Contract Time on account of an individual labor strike shall not exceed the number of days of said strike.

8.3.3.2.2 Acts of God, tornado, fire, hurricane, blizzard, earthquake, typhoon, or flood that damage completed work or stored materials.

8.3.3.2.3 The Contract Time will not be extended due to normal inclement weather. Unless the Contractor can substantiate to the satisfaction of the Owner that the weather actually encountered by the Contractor was unusually severe considering the full term of the Contract Time using a ten (10) year average of accumulated record mean values from climatological data compiled by the U.S. Department of Commerce, National Oceanic and Atmospheric Administration for the locale of the Project and that such alleged substantially greater than normal inclement weather actually delayed the Work or portions thereof which had an effect upon the Contract Time, the Contractor shall not be entitled to an extension of time.

8.3.3.2.4 Acts of the public enemy, acts of the state, federal or local government in its sovereign capacity, and acts of another contractor in the performance of a contract with the Owner relating to the Project.

8.3.3.3 Actions or inactions of the Contractor, or events for which the Contractor has assumed contractual responsibility, which would independently delay the date of Substantial Completion beyond the current Contract Completion Date shall be designated as Non-excusable delays.

8.3.3.4 Concurrent delay is any combination of the above three types of delay occurring on a calendar date, except in cases where the combination consists of two or more instances of the same type of delay occurring on a calendar date.

A delay to the Contractor caused by the acts of another contractor under contract to the Owner will be classified as a compensable delay to the extent said delay meets the requirements of compensable delay as set forth under Subparagraph 8.3.3.1. Also, it is the Owner's belief that the definitions of delay as included in this paragraph comply with all applicable law in the State of Alaska.

8.3.4 Any claim for extension of time shall be made in writing to the Project Manager not more than seven (7) calendar days after commencement of the delay; otherwise it shall be waived. The Contractor shall also provide an estimate of the probable effect of such delay on the progress of the Work. In the case of a continuing delay only one claim is necessary. Any event, action, inaction, or other cause which may give rise to a delay shall constitute a basis for adjustment in:

8.3.4.1 Contract Time, only if it can be demonstrated that the date of Substantial Completion will be delayed beyond the current Contract Completion Date and that the delay is classified as only a Compensable, Excusable, or Concurrent Delay. The Contract Time shall be adjusted by Change Order pursuant to the requirements of Paragraph 8.3 and Division 1, Section 01311; or

8.3.4.2 Contract Amount, only if it can be demonstrated that the Contractor's time-related costs to complete the Work will be increased and the delay is classified as only a Compensable Delay. The Contract Sum shall be adjusted by Change Order pursuant to the requirements of Subparagraphs 8.3 and 12.3.

8.3.5 All time limits stated in the Contract Documents are of the essence of this Contract. The failure of the Contractor to complete the Work in conformance with the Contract shall result in damages suffered by the Owner due to delays in completion of the Work.

8.3.5.1 If the Contractor fails to substantially complete the Work in conformance with the Contract Documents and the Owner nevertheless permits the Contractor to continue performance of the Work, such permission shall neither modify nor waive the Owner's right to assess and collect, and the Contractor's obligation to pay liquidated damages.

8.3.5.2 The Owner shall be entitled to claim against the Contractor for any liquidated damages incurred. The Owner cannot anticipate at this time what liquidated damages may occur or what the per diem cost of these damages might be. Determination of liquidated damage details will be a matter of proof should the issue arise.

8.3.5.3 The Owner shall recover said liquidated damages by deducting the amount thereof from any monies due or that may become due the Contractor. In the event the remaining balance due the Contractor is insufficient to cover the full amount of assessed damages, then the Contractor or his Surety shall pay the amount due and the Owner shall be entitled to any and all rights and remedies available to it in law or equity to recover same.

8.4 RESPONSIBILITY FOR COMPLETION

8.4.1 The Contractor shall furnish such manpower, materials, facilities and equipment and shall work such hours, including night shifts, overtime operations and Sundays and holidays, as may be necessary to insure the progress and completion of the Work in accordance with the accepted and currently updated progress schedule. If Work actually in place falls behind the currently updated and accepted progress schedule and it becomes apparent from the current schedule that the Work will not be completed in accordance with the Contract Time, the Contractor agrees that he will, as necessary, take some or all of the following actions at no additional cost to the Owner, as required to substantially eliminate the schedule slippage deficiency:

8.4.1.1 Increase manpower in such quantities and crafts as will substantially eliminate in the opinion of the Project Manager the schedule slippage deficiency;

8.4.1.2 Increase the number of working hours per shift, shifts per working day, working days per week, or the amount of equipment, or any combination of the foregoing sufficiently to substantially eliminate, in the opinion of the Project Manager the schedule slippage deficiency; and,

8.4.1.3 Reschedule activities to achieve maximum practical concurrence of accomplishment of activities.

8.4.2 The Project Manager may require the Contractor to submit a recovery schedule in accordance with Section 01311 of the Specifications, demonstrating his program and proposed plan to make up the slippage in scheduled progress and to ensure completion of the Work in accordance with the requirements of the Contract. If the Project Manager finds the proposed plan not acceptable, he may require the Contractor to submit a new plan. If the actions taken by the Contractor or the second plan proposed are not satisfactory, the Project Manager may require the Contractor to take any of the actions set forth in this Paragraph 8.4 without additional cost to the Owner, to make up the slippage in scheduled progress.

8.4.3 Failure of the Contractor to substantially comply with the requirements of this Paragraph 8.4 may be considered grounds for a determination by the Owner, pursuant to Clause 14.1, that the Contractor is failing to prosecute the Work with sufficient diligence to ensure its in accordance with the Project Milestone Dates set forth under Section 00200 hereof.

END OF ARTICLE 8

ARTICLE 9

PAYMENTS AND COMPLETION

9.1 CONTRACT SUM

9.1.1 The Contract Sum is stated in the Owner-Contractor Agreement and, including authorized adjustments thereto, is the total amount payable by the Owner to the Contractor for the performance of the Work under the Contract Documents.

9.2 SCHEDULE OF VALUES

9.2.1 Before the first Application for Payment, the Contractor shall submit to the Owner, through the Project Manager, a schedule of values allocated to the various portions of the Work, as set forth in Division 1, Section 01370 of the General Requirements entitled “Schedule of Values” and supported by such data to substantiate its accuracy as the Architect, Project Manager and the Owner may require. This schedule, unless objected to by the Architect, Owner, or Project Manager, may be used as a basis for the Contractor’s Applications for Payment except as otherwise noted under Division 1, Section 01311. The Schedule of Values shall be prepared in such a manner that each major item of work and each subcontracted item of work is shown as a single item on the Application and Certificate of Payment.

9.3 APPLICATIONS FOR PAYMENT

9.3.1 Prior to the date for each progress payment established in the Contract Documents, the Contractor, in accordance with Division 1, Section 01311 of the General Requirements entitled “Project Schedule,” shall submit to the Project Manager an itemized Application for Payment, notarized if required, supported by such data substantiating the Contractor’s right to payment as the Project Manager and the Architect may require, and reflecting retainage, if any, as provided elsewhere in the Contract Documents. The form of Application for Payment shall be Anchorage School District Forms 100, 100A, 100B and 100C and the computer-produced Cost Report updated in accordance with Division 1, Section 01311.

9.3.2 If the Project Manager finds that satisfactory progress is not being made, he may require retainage of up to 10% of the total amount earned on all subsequent progress payments. This retainage may be released at such time as the Project Manager finds that satisfactory progress is being made.

9.3.3 Payments may be authorized by the Project Manager at his discretion, on account of materials or equipment not incorporated in the Work but delivered and suitably stored at the site by the Contractor. Payments for materials or equipment stored on the site shall only be considered upon submission by the Contractor of satisfactory evidence that he has acquired title to such material, that it will be utilized on the Work under this Contract and that it is satisfactorily stored, protected, and insured or that other procedures satisfactory to the Project Manager that will protect the Owner’s interests have been taken.

9.3.4 The Contractor warrants that title to all Work, materials and equipment covered by an Application for Payment will pass to the Owner either by incorporation in the construction or upon the receipt of payment by the Contractor, whichever occurs first, free and clear of all liens, claims, security interests or encumbrances, hereinafter referred to in this Article 9 as “liens”; and that no Work, materials or equipment covered by an Application for Payment will have been acquired by the Contractor, or by any other person performing Work at the site or furnishing materials and equipment for the Project, subject to an agreement under which an interest therein or an encumbrance thereon is retained by the seller or otherwise

imposed by the Contractor or such other person.

9.4 APPROVAL OF PAY APPLICATION

9.4.1 The Project Manager will, after receipt of the Contractor's Application for Payment, and within the time set forth in Division 1, Section 01311 of the General Requirements entitled "Project Schedule," either approve the Application for its full amount or notify the Contractor in writing of his reasons for withholding approval, in whole or in part, as provided in Subparagraph 9.6.1.

9.4.2 The submission and acceptance of the Contractor's Preliminary and Detailed Progress Schedules and monthly updates thereof as required by Division 1, Section 01311 of the General Requirements entitled "Project Schedule," shall be an integral part and basic element of the application upon which progress payments shall be made. If in the judgment of the Project Manager the Contractor fails or refuses to provide information required to accomplish a complete Project Schedule Update or revision thereto as specified under Division 1, Section 01311 of the General Requirements, the Contractor shall be deemed to have not provided the information necessary to enable the Project Manager and the Architect to properly evaluate the Contractor's progress, and shall not be entitled to progress payments until it has furnished the information necessary for a complete Project Schedule Update or revision thereto as specified herein to the satisfaction of the Project Manager.

9.4.3 The signing of an Application for Payment will constitute a representation by the Project Manager and the Architect, based on their observations at the site and the data comprising the Application for Payment, that the Work has progressed to the point indicated; that, to the best of their knowledge, information and belief, the quality of the Work is in accordance with the Contract Documents (subject to an evaluation of the Work for conformance with the Contract Documents upon Substantial Completion, to the results of any subsequent tests required by or performed under the Contract Documents, to minor deviations from the Contract Documents correctable prior to completion, and to any specific qualifications stated in their Certificate); and that the Contractor is entitled to payment in the amount certified. However, by approving an Application for Payment, the Project Manager and the Architect shall not thereby be deemed to represent that either has made exhaustive or continuous on-site inspections to check the quality or quantity of the Work or that either has reviewed the construction means, methods, techniques, sequences or procedures, or that either has made an examination to ascertain how or for what purpose the Contractor has used the monies previously paid on account of the Contract Sum.

9.5 PROGRESS PAYMENTS

9.5.1 After an Application for Payment has been approved, the Owner shall make payment within thirty (30) calendar days.

9.5.2 The Contractor shall promptly pay each Subcontractor (including suppliers, laborers, and material-men) performing labor or furnishing material for the Work, upon receipt of payment from the Owner, out of the amount paid to the Contractor on account of such Subcontractor's Work, the amount to which said Subcontractor is entitled, reflecting the percentage actually retained, if any, from payments to the Contractor on account of such Subcontractor's Work. The Contractor shall, by an appropriate agreement with each Subcontractor, also require each Subcontractor to make payments to his Sub-subcontractors in similar manner.

9.5.3 The Owner may, on request and at his discretion, furnish to any Subcontractor, Sub-subcontractor, or Material Supplier and Vendor, if practicable information regarding the

percentages of completion or the amounts applied for by the Contractor and the action taken thereon by the Project Manager on account of Work done by such Subcontractor, Sub-subcontractor, or Material Supplier or Vendor.

9.5.4 Neither the Owner, the Project Manager, nor the Architect shall have any obligation to pay or to see to the payment of any monies to any Subcontractor except as may otherwise be required by law.

9.5.5 No approval for a progress payment, nor any progress payment, nor any partial or entire use of occupancy of the Project by the Owner, shall constitute an acceptance of any Work not in accordance with the Contract Documents.

9.5.6 The Contractor agrees to keep the Work and the site(s) on which Work is to be performed free and clear of all liens and claims of liens on materials furnished pursuant to the Contract Documents. Contractor hereby waives any right it may have in connection with the Work to file any liens, mechanics or otherwise. Notwithstanding anything to the contrary contained in the Contract Documents, if any such lien is filed or there is any reason to believe that any lien may be filed at any time during the progress of the Work or within the duration of this Contract, the Owner may refuse to make any payment otherwise due to Contractor or withhold from any payment due the Contractor a sum sufficient in the opinion of the Owner to pay all obligations and expenses necessary to satisfy such lien or claim and completely indemnify the Owner against any such lien or claim unless and until Contractor shall thereof, if any, has been satisfied, discharged and released of record or that the Contractor has caused such lien to be released or record if and as provided by law pending the resolution of any dispute between Contractor and the person filing such lien; and if such evidence is not furnished by Contractor to the Owner within a period of five (5) days after demand to do so, the Owner may discharge such indebtedness and deduct the amount required therefore, together with any and all losses, costs, damages and attorney's fees suffered or incurred by the Owner from any sum payable to Contractor under the Contract Documents. Final payment to Contractor may be withheld until the Work and the site(s) on which the Work is to be performed are free and clear of any and all liens for rights thereto arising because of Work performed or materials furnished under the Contract Documents. This Subparagraph 9.5.6 shall be specifically included in all subcontracts and purchase orders entered into by Contractor.

9.5.7 No reference to a claim or claims of lien or to the Owner's right to withhold payments to the Contractor or to discharge the Contractor's debts to Subcontractors, in Subparagraph 9.5.6, or elsewhere in the Contract Documents, shall be interpreted as a waiver of the Owner's right to exemption pursuant to AS 09.38.015(c) or any requirements with regard to the filing of claims of lien as set forth in AS 34.35.

9.6 PAYMENTS WITHHELD

9.6.1 The Architect and the Project Manager may decline to approve an Application for Payment in whole or in part, to the extent reasonably necessary to protect the Owner, if in their opinion they are unable to make representations to the Owner as provided in Subparagraph 9.4.3. If the Project Manager and the Architect are unable to make representations to the Owner as provided in Subparagraph 9.4.3 and to certify payment in the amount of the Application, they will notify the Contractor as provided in Subparagraph 9.4.1.

If the Contractor, Project Manager and the Architect cannot agree on a revised amount, the Project Manager will promptly approve the Application for Payment for the amount for which he is able to make such representations to the Owner. The Project Manager may also decline to certify payment or, because of subsequently discovered evidence or

subsequent observations, he may nullify the whole or any part of any approval of an Application for Payment previously issued to such extent as may be necessary in his opinion to protect the Owner from loss because of:

9.6.1.1 Defective work not remedied,

9.6.1.2 Third-party claims filed or reasonable evidence indicating probable filing of such claims,

9.6.1.3 Failure of the Contractor to make payments properly to Subcontractors or for labor, materials or equipment,

9.6.1.4 Reasonable evidence that the Work cannot be completed for the unpaid balance of the Contract Sum,

9.6.1.5 Damage to the Owner or another contractor,

9.6.1.6 Reasonable evidence that the Work will not be completed within the Contract Time,

9.6.1.7 Failure or refusal of the Contractor to carry out the Work in accordance with the Contract Documents, including scheduling, project management, or coordination requirements,

9.6.1.8 Liens filed for any portion of the Work, or

9.6.1.9 Failure or refusal of the Contractor to fully comply with Division 1, Section 01311 of the General Requirements entitled “Schedules and Reports”.

9.6.2 When the above grounds in Subparagraph 9.6.1 are removed, payment shall be made for amounts withheld because of them.

9.7 FAILURE OF PAYMENT

9.7.1 If the Owner does not pay the Contractor within seven (7) days after the date established in the Contract Documents any amount certified by the Architect and the Project Manager, then the Contractor may, upon seven (7) additional days’ written notice to the Owner and the Architect, stop the Work until payment of the amount not in dispute has been received. The Contractor shall not refuse or fail to diligently proceed with the Work pending the resolution of any amount(s) in dispute unless agreed to by the Owner.

9.8 SUBSTANTIAL COMPLETION

9.8.1 When the Contractor considers that the Work, or a designated portion thereof which is acceptable to the Owner, is substantially complete as defined in Subparagraph 8.1.3, the Contractor shall prepare for submission to the Project Manager a list of items to be completed or corrected. The failure to include any items on such list does not alter the responsibility of the Contractor to complete all Work in accordance with the Contract Documents. When the Architect and the Project Manager on the basis of an inspection jointly determine that the Work or designated portion thereof is substantially complete, the Architect will then prepare a Certificate of Substantial Completion which shall establish the Date of Substantial Completion, shall state the responsibilities of the Owner and the Contractor for security, maintenance, heat, utilities, correction of punchlist items and damage to the Work, and insurance, and shall fix the time within which the Contractor shall complete the items listed therein. Warranties required by the Contract Documents shall

commence on the Date of Substantial Completion of the work or designated portion thereof unless otherwise provided in the Certificate of Substantial Completion. The Certificate of Substantial Completion shall be submitted to the Owner and the Contractor for their written acceptance of the responsibilities assigned to them in such Certificate.

9.8.2 Upon Substantial Completion of the Work or designated portion thereof and upon application by the Contractor and certification by the Project Manager and the Architect, the Owner shall make payment, reflecting adjustment in retainage, if any, for such Work or portion thereof, as provided in the Contract Documents.

9.8.3 The acceptance of Substantial Completion payment shall constitute a waiver of all claims by the Contractor except those previously made in writing and identified by the Contractor as unsettled at the time of the Application for Payment for Substantial Completion, and except for the retainage sums due at final acceptance if any.

9.9 FINAL COMPLETION AND FINAL PAYMENT

9.9.1 Upon receipt of written notice that the Work is ready for final inspection and acceptance and upon receipt of a final Application for Payment, the Architect and the Project Manager will promptly make such inspection and, when they find the Work acceptable under the Contract Documents and the Contract fully performed, they will jointly issue a final Certificate for Payment stating that to the best of their knowledge, information and belief, and on the basis of their observations and inspections, the Work has been completed in accordance with the terms and conditions of the Contract Documents and that the entire balance found to be due the Contractor, as noted in said final Certificate, is due and payable. The final Certificate for Payment will constitute a further representation that the conditions precedent to the Contractor's being entitled to final payment as set forth in Subparagraph 9.8.2 have been fulfilled.

9.9.2 Neither the final payment nor the remaining retained percentage shall become due until the Work is free and clear of any and all liens and the Contractor submits to the Owner (1) an affidavit that all payrolls, bills for materials and equipment, and other indebtedness connected with the Work for which the Owner or his property might in any way be responsible, have been paid or otherwise satisfied, (2) consent of surety, if any, to final payment and (3), if required by the Project Manager, other data establishing payment or satisfaction of all such obligations, such as receipts, releases and waivers of liens arising out of the Contract, to the extent and in such form as may be designated by the Project Manager. If any Subcontractor refuses to furnish a release or waiver required by the Owner, the Contractor may furnish a bond satisfactory to the Owner to indemnify him against any loss. If any such lien or claim remains unsatisfied after all payments are made, the Contractor shall refund to the Owner all monies that the latter may be compelled to pay in discharging such lien or claim, including all costs and reasonable attorney's fees. The Owner may withhold from the final payment any sum that the Owner has reason to believe may be needed to satisfy any lien, claim or threat of lien arising from the Work. The Owner may deduct from the final payment an amount equal to any costs, expenses and attorneys' fees incurred by the Owner in removing or discharging any liens arising from the Work.

9.9.3 If, after Substantial Completion of the Work, final completion thereof is materially delayed through no fault of the Contractor, or by the issuance of change orders affecting final completion, and the Owner so confirms, the Owner shall, upon application by the Contractor and certification by the Project Manager and the Architect, and without terminating the Contract, make payment of the balance due for that portion of the Work fully completed and accepted. If the remaining balance for Work not fully completed or corrected is less than the retainage stipulated in the Contract Documents, and if bonds have been furnished as provided in Paragraph 7.5, the written consent of the surety to the

payment of the balance due for that portion of the Work fully completed and accepted shall be submitted by the Contractor to the Project Manager prior to certification of such payment. Such payment shall be made under the terms and conditions governing final payment, except that it shall not constitute a waiver of claims.

9.9.4 The making of final payment shall constitute a waiver of all claims by the Owner against the Contractor except those arising from:

9.9.4.1 Unsettled liens, and claims against the Owner, the Project Manager, or the Architect, or their employees, agents, or representatives,

9.9.4.2 Faulty or defective Work appearing after Substantial Completion,

9.9.4.3 Failure of the Work to comply with the requirements of the Contract Documents,

9.9.4.4 Terms of any warranties contained in or required by the Contract Documents,

9.9.4.5 Liquidated damages due the Owner for the Contractor's delay in completion, or

9.9.4.6 Damages incurred by the Owner resulting from lawsuits brought against the Owner, the Project Manager, the Architect, or their agents, employees or representatives because of failures or actions on the part of the Contractor, his Subcontractors, Sub-subcontractors, Material Suppliers and Vendors, or any of their employees, agents or representatives.

9.9.5 The acceptance of final payment shall constitute a waiver of all claims by the Contractor except those previously made in writing and identified by the Contractor as unsettled at the time of the final Application for Payment.

9.9.6 Final Completion includes, but is not limited to, the Contractor obtaining an unconditional Certificate of Occupancy from the governing building official.

9.10 OWNER'S RIGHT TO OCCUPY INCOMPLETE WORK

9.10.1 Should the Project, or any portion thereof, be incomplete for Beneficial Occupancy or Final Completion at the scheduled date or dates, the Owner shall have the right to occupy any portion of the Project. In such an event, the Contractor shall not be entitled to any extra compensation on account of said occupancy by the Owner or by the Owner's normal full use of the Project, nor shall the Contractor interfere in any way with said normal full use of the Project. Further, in such an event, the Contractor shall not be entitled to any extra compensation on account of the Owner's occupancy and use of the Project, nor shall the Contractor be relieved of any responsibilities of the Contract including the required times of completion. Such occupancy by the Owner would not, in itself, constitute Beneficial Occupancy nor Final Completion.

9.10.2 If the Owner exercises his rights under the foregoing and occupies the full project, then there shall be no liquidated damages due to delay on account of failure on the Contractor's part to provide Beneficial Occupancy from that date forward. This provision does not affect, however, any damages due to delay that would be assessed for any period of time between the scheduled date of Beneficial Occupancy and the date of any such actual occupancy. Further, this provision would have no effect on actual damages assessed on account of late Final Completion.

9.11 RETENTION AND INSPECTION OF RECORDS

9.11.1 Inspection.

The Anchorage School District, or any of its duty authorized representatives, shall have the right to examine all project records and documents, including without limitation, all books, correspondence, reports, analyses, instructions drawings, receipts, vouchers, memoranda, and all financial and accounting books, records, and data and all other documents of both the Contractor and the Contractors, Subcontractors and any Sub-subcontractors which are directly pertinent to this specific Contract for the purpose of making an audit, examination, reproduction, excerpts, or transcriptions. All required records shall be retained by the Contractor and its first tier Subcontractors for three (3) years after the Owner makes final payments and all other pending matters are closed.

9.11.2 Retention and Maintenance.

The Contractor shall keep and maintain in safe condition full and accurate records of all costs incurred and items billed and all other project records and documents relating to performance, communications, and correspondence in connection with the performance of the Work under this Contract, which records and documents shall be open to review, examination or audit by the Owner or its authorized representatives during performance of the Work and until three (3) years after Final Payment and all other pending matters are closed.

9.11.3 Subcontractor Records.

The Contractor shall make it a condition of all subcontracts and sub-subcontracts relating to the Work under this Contract that any and all Subcontractors and sub-subcontractors will keep accurate records of costs incurred and items billed in connection with their work and that such records shall be open to review, examination, reproduction or audit by the Owner or its authorized representatives during performance of the Work and until three (3) years after Final Payment under the subcontract and all other pending matters are closed.

9.11.4 Availability.

The Contractor shall make available at its business office upon request at all reasonable times the materials described in this Article including materials of both the Contractor and its first tier Subcontractors, for review, examination reproduction or audit for a period of three (3) years after Final Payment under this Contract and all other pending matters are closed.

9.11.5 Termination.

If this Contract is completely or partially terminated, the records relating to the Work terminated shall be made available for three (3) years after any resulting final termination settlement.

9.11.6 Claims and Appeals.

Records pertaining to any settlement, mediation, arbitration, litigation or appeals of claim submitted pursuant to Paragraphs 12.4 or 12.5 or otherwise arising from or relating to the performance of Work under this Contract shall be made available until such settlement, mediation, arbitration, litigation, or appeals are finally concluded. Such documents or records shall be made available to the Anchorage School District or its duty authorized representatives within thirty (30) days of the Anchorage School District's request.

9.11.7 Subcontracts.

The Contractor shall include the provisions of this Article in all first tier Subcontracts so as to be binding on all first tier Subcontractors.

9.11.8 Cost or Pricing Data.

If the Contractor has submitted cost or pricing data in connection with the pricing of any change order or modification to this Contract - unless the pricing was based on–

9.11.8.1 adequate price competition, or
9.11.8.2 established catalog or market price of commercial items sold in substantial quantities to the general public; or
9.11.8.3 prices set by law or regulation -

the Anchorage School District or a representative who is an employee of the Anchorage School District, shall have the right to examine and audit all books, records, documents, and other data of the Contractor, including computations and projections, related to negotiating, pricing, or performing the change order or modification, in order to evaluate the accuracy, completeness, and currency of the cost or pricing data.

END OF ARTICLE 9

ARTICLE 10

PROTECTION OF PERSONS AND PROPERTY

10.1 SAFETY PRECAUTIONS AND PROGRAMS

10.1.1 The Owner, the Project Manager, the Architect, or their agents, employees or representatives are not responsible for the means, methods, techniques, sequences or procedures utilized by the Contractor, or for safety precautions and programs in accordance with the Work. The Contractor shall be responsible for initiating, maintaining and supervising all safety precautions and programs in connection with the Work.

10.2 SAFETY OF PERSONS AND PROPERTY

10.2.1 The Contractor shall take all reasonable precautions for the safety of, and shall provide all reasonable protection to prevent damage, injury or loss to:

10.2.1.1 All employees on the Work and all other persons who may be affected thereby;

10.2.1.2 All the Work and all materials and equipment to be incorporated therein, whether in storage on or off the site, under the care, custody or control of the Contractor or any of his Subcontractors or Sub-subcontractors; and

10.2.1.3 Other property at the site or adjacent thereto, including trees, shrubs, lawns, walks, pavements, roadways, structures and utilities not designated for removal, relocation or replacement in the course of construction.

10.2.2 The Contractor shall give all notices and comply with all applicable laws, ordinances, rules, regulations and lawful orders of any public authority bearing on the safety of persons or property or their protection from damage, injury or loss.

10.2.2.1 The Contractor shall contact the State Historic Preservation Office (907-269-8700) immediately, should cultural or paleontological resources be discovered as a result of performing the Work.

10.2.3 The Contractor shall erect and maintain, as required by existing conditions and progress of the Work, all reasonable safeguards for safety and protection, including posting danger signs and other warnings against hazards, promulgating safety regulations and notifying owners and users of adjacent utilities.

10.2.4 When the use or storage of explosives or other hazardous materials or equipment is necessary for the execution of the Work, the Contractor shall exercise the utmost care and shall carry on such activities under the supervision of properly qualified personnel.

10.2.5 The Contractor shall promptly remedy all damage or loss to any property referred to in paragraphs 10.2.1.2 and 10.2.1.3 caused in whole or in part by the Contractor, any Subcontractor, any Sub-subcontractor, any Material Supplier or Vendor, or anyone directly or indirectly employed by any of them, or by anyone for whose acts any of them may be liable and for which the Contractor is responsible under paragraphs 10.2.1.2 and 10.2.1.3, except damage or loss attributable to the acts or omissions of the Owner, Project Manager or Architect or anyone directly or indirectly employed by either of them, or by anyone for whose acts either of them may be liable, and not attributable to the fault or negligence of the Contractor. The foregoing obligations of the Contractor are in addition to his obligations under Paragraph 4.18.

10.2.6 The Contractor shall designate a responsible member of his organization at the site whose duty shall be the prevention of accidents. This person shall be the Contractor's superintendent unless otherwise designated by the Contractor in writing to the Owner through the Project Manager.

10.2.7 The Contractor shall not load or permit any part of the Work to be loaded so as to endanger its safety.

10.2.8 Following the Notice to Proceed, the Contractor is required to obtain facility keys and the security system access code from ASD Operations Department and obtain the facility keys by contacting the Project Manager.

10.2.8.1 A unique security code will be assigned to the Contractor. The ASD Operations office, 1301 Labar, will assign the code and provide access training.

10.2.8.2 The Contractor's signature on the key receipt acknowledges liability for the Owner's loss or damage due to unauthorized access with the facility key(s) and/or access code issued to the Contractor. The Contractor's Superintendent is solely responsible for the opening and closing of the facility.

10.2.8.3 Lost or stolen key(s) issued to the Contractor are to be reported immediately to the Project Manager. A written report shall be required for each incident.

10.2.8.4 If a FOB is issued, instead of keys, and is lost or stolen, the Contractor is required to immediately report the loss to the Project Manager. Notice is to be completed, in writing, within 12 hours or there will be a $500 fine.

10.2.8.5 Upon completion of the Project and prior to final payment, the Contractor will return all key(s) to the Project Manager. A maximum per facility charge of up to $10,000 may apply to any key not returned to the Project Manager.

10.2.8.6 Do not put any identifying tags or markers on the keys that would identify them as ASD building keys.

10.3 EMERGENCIES

10.3.1 In any emergency affecting the safety of persons or property, the Contractor shall act, at his discretion, to prevent threatened damage, injury or loss. Any additional compensation or extension of time claimed by the Contractor on account of emergency work shall be determined as provided in Article 8 for Time, and Article 12 for Changes in the Work.

END OF ARTICLE 10

ARTICLE 11

INSURANCE

11.1 GENERAL

11.1.1 Before signing this Contract, or commencing work on any project or allowing any Subcontractor to commence work, the Contractor shall obtain all insurance required under this section. The Contractor shall maintain this insurance until Final Acceptance. Proof of Insurance will be required prior to performing work under the warranty. The Contractor shall file with Owner as verification of insurance, an original signed certificate of insurance showing the type and amounts of insurance, the policy number, and expiration date. The Contractor shall provide copies of each insurance policy if requested by the Owner. The Contractor shall purchase insurance from companies reasonably acceptable to the Owner and authorized to do business in the State of Alaska, possessing a Best's policyholder's rating of A- or better and a financial rating of not less than VII.

11.2 WORKERS' COMPENSATION INSURANCE

11.2.1 The Contractor shall purchase and maintain during the life of this Contract, Workers' Compensation Insurance for all employees who will work on this project and if any work is sublet, the Contractor shall require the Subcontractor to provide similar Workers' Compensation Insurance for employees. Such workers' compensation insurance shall meet the statutory requirements of the State of Alaska.

11.3 PUBLIC AND EMPLOYER LIABILITY INSURANCE

11.3.1 The Contractor and his Subcontractors, if any, shall purchase and maintain such Public and Employer Liability Insurance as will protect the Contractor against loss which may result from claims for damages from operations under this Contract, whether such operations be those of the Contractor, a Subcontractor, or any person directly or indirectly employed by them. Such liability insurance shall have a scope of coverage at least as broad as the current ISO form # CG 0001 (occurrence version) for General Liability and the current ISO form # CA 0001 for Automobile Liability, and in minimum limits specified in Paragraph 11.3.2.

11.3.2 Public and Employer Liability Insurance Requirements

11.3.2.1 Commercial General Liability

Combined Single Limit $1,000,000
Annual Aggregate $2,000,000

11.3.2.2 Comprehensive Auto Liability

Including all owned, hired and non-owned vehicles.
Combined Single Limit $1,000,000 each accident

11.3.2.3 Employer's Liability Insurance
$1,000,000 limit

11.3.3 Umbrella Liability

11.3.3.1 The Contractor shall maintain an umbrella liability policy according to the following:

Projects < $10 million construction cost – $5,000,000 per occurrence and annual aggregate.

Projects > $10 million construction cost – $10,000,000 per occurrence and annual aggregate.

This requirement does not apply to Subcontractors.

11.3.3.2 Umbrella liability insurance shall be maintained in effect until final acceptance by the Owner of the completed construction, and for products liability and completed operations liability, a minimum of two years thereafter.

11.4 BUILDERS RISK INSURANCE

11.4.1 The Contractor shall purchase and maintain an all risk Builder's Risk policy on all construction projects. The Builders Risk coverage shall be in an amount equal to the initial contract, plus any contract modifications, and the cost of materials supplied or installed by others. Perils insured must be all physical loss and will include earthquake, flood, testing and startup, resultant damage from errors in design, plans or specifications, and transit and offsite storage.

11.4.2 A loss insured under Subparagraph 11.4.1 shall be adjusted by the Insurer, or by the Contractor as Fiduciary, and made payable to the Contractor as Fiduciary for the insureds, as their interests may appear, subject to requirements of any applicable mortgagee clause and of Subparagraph 11.4.5. The Contractor shall pay each Subcontractor a just share of any insurance monies received by the Contractor, and by appropriate agreement, written where legally required for validity, shall require each Subcontractor to make payments to his Sub-subcontractors in similar manner.

11.4.3 The Owner and Contractor shall waive all rights against each other for damages caused by fire or other perils to the extent covered by insurance obtained pursuant to this Paragraph 11.4 or any other property insurance applicable to the Work, except such rights as they may have to the proceeds of such insurance held by the Contractor as Fiduciary. The Contractor shall require, by appropriate agreement, written where legally required for validity, similar waivers in favor of the Owner and the Contractor by Subcontractors and Sub-subcontractors. With respect to the waiver of rights of recovery, the term Owner shall be deemed to include, to the extent covered by property insurance applicable thereto, his consultants, employees, agents and representatives, including the Project Manager. The Contractor waives as against any separate Contractor described in Article 6 all rights for damages caused by fire or other perils in the same manner as is provided above as against the Owner. The Owner shall require, by appropriate agreement, written where legally required for validity, similar waivers in favor of the Contractor by any separate Contractor and his Subcontractors and Sub-subcontractors.

11.4.4 If required in writing by any party in interest, the Contractor as Fiduciary shall, upon the occurrence of an insured loss, give bond for the proper performance of his duties. He shall deposit in a separate account any money so received, and he shall distribute it in accordance with a court order or award. If after such loss no other special agreement is made, replacement of damaged work shall be covered by an appropriate Change Order.

11.4.5 The Contractor as Fiduciary shall have power to adjust and settle any loss with the insurers unless one of the parties in interest shall object in writing within five (5) days after the occurrence of loss to the Owner's exercise of this power, and if such objection is made, the matter shall be decided by a court of competent jurisdiction or as parties in interest otherwise agree. The Contractor as Fiduciary shall, in that case, make settlement with the insurers accordingly.

11.4.6 If the Owner finds it necessary to occupy or use a portion or portions of the Work prior to Substantial Completion thereof, such occupancy shall not commence prior to a time mutually agreed to by the Owner and Contractor and to which the insurance company or companies providing the property insurance have consented by endorsement of the policy or policies. This insurance shall not be canceled or lapsed on account of such partial occupancy. Consent of the Contractor and of the insurance company or companies to such occupancy or use shall not be unreasonably withheld.

11.5 CERTIFICATE OF INSURANCE REQUIREMENTS

11.5.1 Each insurance policy required in this section will be evidenced by a certificate of insurance which contains the following:

11.5.1.1 Notice of cancellation to the Anchorage School District in accordance with Alaska Statutes 21.36.220 and .260.

11.5.1.2 Contract number.

11.5.1.3 Project location.

11.5.1.4 Waiver of Subrogation. All policies, except where prohibited, will include a Waiver of Subrogation in favor of the District.

11.5.1.5 Additional Insured. All policies except Workers Compensation and professional liability will note the District as an additional insured.

11.6 OWNER'S RIGHT TO INSURE

11.6.1 In the event Contractor neglects, refuses, or fails to provide the insurance required under the Contract Documents, or if such insurance is canceled for any reason, the Owner shall have the right, but not the duty to procure the same, and the costs thereof shall be deducted from monies then due or thereafter to become due the Contractor.

11.7 ADDITIONAL INSURANCE

11.7.1 If not covered by the above insurance, the Contractor must obtain additional Insurance for items stored off-site or in transit. Payments for materials stored off-site will not be made unless Contractor provides documentation of valid insurance coverage for same.

11.8 ASBESTOS ABATEMENT SUBCONTRACTOR'S CERTIFICATE OF INSURANCE

11.8.1 After the Intent to Award Notification, the low bidder shall submit an insurance binder of insurance certificate provided by the proposed asbestos abatement subcontractor's insurance company stating that upon execution of the Contract the types and amount of insurance required elsewhere in these specifications will immediately become effective.

The asbestos abatement subcontractor is required to carry a minimum of $1,000,000 of General Public Liability Insurance with no exclusion for asbestos abatement.

11.8.2 Comprehensive General Liability Minimum Limits

Bodily Injury and Property Damage $2,000,000 per occurrence
Premises Operations
Independent Contractors
Products - Completed Operations
Contractual Liability
Broad Form Property Damage - Lloyds Form
Explosion, Collapse, and Underground
Personal Injury

11.8.3 Comprehensive Auto Liability

Including all owned, hired, and non-owned vehicles
Combined single limit per accident $1,000,000

END OF ARTICLE 11

ARTICLE 12

CHANGES IN THE WORK AND CONTRACT SUM AND TIME

12.1 CHANGES IN THE WORK

12.1.1 The Owner may, at any time, without notice to the sureties, make any change in the Work within the general scope of the Contract, including, but not limited to changes:

12.1.1.1 In the Specifications or Drawings;

12.1.1.2 In the method or manner of performance of the Work;

12.1.1.3 In the Owner-furnished facilities, equipment, materials, services or site; or

12.1.1.4 Directing acceleration in the performance of the Work for reasons other than delays caused by the Contractor.

12.1.2 All such changes in the Work shall be performed under the applicable conditions of the Contract Documents and shall be authorized in one of the following manners:

12.1.2.1 Field Directive. The Project Manager may issue a written Field Directive to the Contractor that directs a change in the Work. If the Contractor believes that the requested change will increase the Contract Time or Contract Sum, he must notify the Project Manager in writing prior to implementing the change.

12.1.2.2 Information Bulletin. The Architect may issue an Information Bulletin to the Contractor that clarifies or modifies the plans or specifications. If the Contractor believes that the clarification or modification of plans or specifications will increase the Contract Time or Contract Sum, he must notify the Project Manager in writing prior to implementing the change.

12.1.2.3 Request for Information (RFI). The Contractor may submit a RFI to the Project Manager or Architect using the ASD Procore Construction Management Program to request clarification of plans or specifications or to point out areas of apparent conflict or other concerns relating to the Work. The response to the RFI by the Architect or Project Manager may clarify or modify the plans or specifications. If the Contractor believes that the clarification or modification of plans or specifications will increase the Contract Time or Contract Sum, he must notify the Project Manager in writing prior to implementing the change.

12.1.2.4 Request for Proposal (RFP). The Owner may issue an RFP to the Contractor that directs a change in the Work and requests the Contractor’s evaluation of the impact of the change on Contract Time or Contract Sum. If the Contractor believes that the Work required by the RFP will increase the Contract Time or Contract Sum, he must notify the Project Manager in writing prior to implementing the changes.

12.1.3 Except as provided in Subparagraph 12.1.2, no order, statement or conduct of the Owner, Project Manager or Architect shall be treated as a change or entitle the Contractor to an equitable adjustment hereunder. No oral agreement of any kind shall be construed as a Change Order.

12.2 AMENDING CONTRACT SUM OR TIME

12.2.1 If any change under Paragraph 12.1 causes an increase or decrease in the Contractor's cost or the time required for the performance of any part of the Work under the Contract, including Work not affected directly by the change, an equitable adjustment shall be processed and approved following the provisions of Division 1, Section 01311, Project Schedule for any adjustment to time. Adjustments to Contract Sum shall be determined in one or more of the following ways:

12.2.1.1 By mutual acceptance of a lump sum price properly itemized in accordance with Subparagraph 12.2.2 and supported by sufficient data to permit evaluation;

12.2.1.2 In the event that unit prices are included in the bid and accepted by the Owner, payment for the Work performed shall be at the unit price amount for each item of Work accepted by the Owner and conforming to the contract requirements. Such prices shall be additive and deductive and include all costs necessary to complete the Work, inclusive of overhead costs and profit.

12.2.1.3 If prior to the commencement of the Work the Contractor has not provided a lump sum price, or the Contractor and the Owner have not agreed on a lump sum price as described in Subparagraph 12.2.1.1 above, the price shall be established in one of the following ways, as determined by the Project Manager;

1. on a lump sum basis following completion of the Work. The lump sum price shall be properly itemized in accordance with Subparagraph 12.2.2. and supported by sufficient data to permit evaluation;

2. on a time and materials basis, with or without a maximum not-to-exceed price, at the discretion of the Project Manager. Costs will be accumulated on a time and materials basis as described in Subparagraph 12.2.3 and presented daily (the day after the Work is performed) for approval by the Owner on the forms provided by the Owner. The daily report will be signed by the Contractor and the Owner.

12.2.2 For Work proceeding on a lump sum basis. In accordance with Subparagraph 12.2.1.1 or 12.2.1.3.1, the Contractor shall provide a detailed breakdown of the costs as described herein and submit the costs and substantiating data in a proposal to the Owner:

12.2.2.1 Direct Costs: Direct costs shall be limited to the following: cost of materials, including sales tax and cost of delivery to the project; cost of labor (from apprentice level up through and including the general foreman classification) comprising of the base wage plus fringe benefits, including burden (Social Security, Worker's Compensation, and Unemployment Insurance, etc.); rental rate including fuel and maintenance for any power tools valued at over $3,000 and equipment as described below, under "Equipment Rates;" bond premiums and additional cost of Builder's Risk Insurance, at rates equal to the amount billed for the base contract or the actual rate as supported by an invoice.

12.2.2.1.1 Equipment Rates: For any machinery or special equipment (other than small tools) which has been authorized by the Project Manager, the Contractor shall receive the rental rates in the current edition and appropriate volume of the "Rental Rate Blue Book for Construction Equipment," published by K-III Directory Corp., 10 Lake Drive, Highstown, NJ 08520-5397.

Hourly rental rates shall be determined as follows. The established hourly rental rate shall be equal to the adjusted monthly rate for the basic equipment plus the adjusted monthly rate for applicable attachments, both divided by 176, and multiplied by the area adjustment factor, plus the estimated hourly operating costs. The adjusted monthly rate is that resulting from application of the rate adjustment formula in order to eliminate replacement cost allowances in machine depreciation and contingency cost allowances. Attachments shall not be included unless required for the time and materials Work. For equipment not listed in the Blue Book, the Contractor shall receive a rental rate as agreed upon before such Work is begun. If agreement cannot be reached, the Owner reserves the right to establish a rate based on similar equipment in the Blue Book or prevailing commercial rates in the area. These rates shall apply for equipment used during the Contractor's regular shift of 10 hours per day. Where the equipment is used more than 10 hours per day, either on the Contractor's normal Work or on time and materials, and either on single or multiple shifts, an overtime rate, computed as follows, shall apply: The hourly overtime rate shall be equal to the adjusted monthly rate for the basic equipment plus the adjusted monthly rate for applicable attachments, both divided by 352, and multiplied by the area adjustment factor, plus the estimated hourly operating cost.

12.2.2.1.2 Equipment which must be rented or leased specifically for Work required under this section shall be authorized in writing by the Project Manager.

12.2.2.1.3 When it is necessary to obtain equipment from sources beyond the project limits exclusively for time and materials Work, the actual cost of transferring the equipment to the site of the Work and return will be allowed as an additional item of expense. Where the move is made by common carrier, the move-in allowance will be limited to the amount of the freight bill or invoice. If the Contractor hauls the equipment with his own forces, the allowance will be limited to the rental rate for the hauling unit plus operator wages. In the event that the equipment is transferred under its own power, the moving allowance will be limited to one-half of the normal hourly rental rate plus operator's wages. In the event that the move-out is to a different location, payment will in no instance exceed the amount of the move-in. Move-in allowance shall not be made for equipment brought to the project for time and materials Work which is subsequently retained on the project and utilized for completion of contract items, camp maintenance, or related Work.

12.2.2.1.4 Equipment ordered to be on stand-by basis shall be paid for at the stand-by rental rate for the number of hours in the Contractor's normal Work shift, but not to exceed 8 hours per day. The stand-by rental rate shall be computed as follows:

The hourly stand-by rate shall be equal to the adjusted monthly rate for the basic equipment plus the adjusted monthly rate for applicable attachments, both divided by 352, all multiplied by the

area adjustment factor.

Time will be recorded to the nearest one-half hour for purposes of computing compensation to the Contractor for equipment utilized under these rates.

The equipment Direct Cost determination covers all costs for providing required equipment and no additional compensation will be made for other costs such as, but not limited to, fuels, lubricants, replacement parts or maintenance costs. Cost of repairs, both major and minor as well as charges for mechanic's time utilized in servicing equipment to ready it for use prior to moving to the project and similar charges will not be allowed.

12.2.2.2 Overhead: Overhead shall include the following: the Contractor's management staff; supervision; superintendence; wages of timekeepers; watchmen and clerks; small tools; incidentals; costs of preparing and responding to Request for Proposals, including estimating; schedule revisions, software costs and clerical expenses; general home and field office expenses; including any financial/financing costs; legal costs; and/or accounting costs; temporary facilities; temporary utilities (power, water, sewer, telephone, etc.) And any utilities used by the Contractor during the construction period; and all other expenses not specifically defined in Subparagraph 12.2.2.1 as direct costs. Unless specifically required or requested, any travel and associated costs from outside of the Municipality of Anchorage is considered as part of the Contractor's project overhead and will not be paid by the Owner.

12.2.2.3 The Contractor shall apply a combined percentage rate to the direct costs to compensate it for additional Overhead and Profit associated with the change. The combined rate to the Owner of any change shall not exceed the rates set forth in the following schedule:

For the Contractor, for Work performed by his own forces, up to fifteen percent (15%) of direct costs;

For each Subcontractor involved, for Work performed by the Subcontractor's forces, up to fifteen percent (15%) of direct costs;

For the Contractor, for Work performed by Subcontractors, up to ten percent (10%) of the Subcontractor's direct costs;

For the Subcontractor, for Work performed by the multiple-tier-contractors up to ten percent (10%) of direct costs;

The total Contractor and all-subcontractors overhead allowance shall not exceed twenty-five percent (25%) of direct costs.

12.2.3 For Work proceeding on a time and material basis in accordance with Subparagraph 12.2.1.3.2, the Contractor shall be compensated for its costs in accordance with the following:

12.2.3.1 Direct Costs: Direct Costs shall be as defined in Subparagraph 12.2.2.1.

12.2.3.2 Overhead: Overhead shall be as defined in Subparagraph 12.2.2.2.

12.2.3.3 Overhead and Profit combined included in the total costs to the Owner of any change shall not exceed the rates set forth in the following schedule:

For the Contractor, for Work performed by his own forces, up to ten percent (10%) of direct costs;

For each Subcontractor involved, for Work performed by the Subcontractor's forces, up to ten percent (10%) of direct costs;

For the Contractor, for Work performed by Subcontractors, up to five percent (5%) of the Subcontractor's direct cost.

For the Subcontractor, for Work performed by multiple-tier-contractors up to five percent (5%) of direct costs;

The total Contractor and multiple-tier-contractor overhead allowances shall not exceed twenty percent (20%) of direct costs.

12.2.4 If the net value of a change results in a credit from the Contractor, Subcontractor, or Material Suppliers or Vendors, the credit given shall be the net cost without overhead or profit. The costs as used herein shall include all items of labor, materials, plant and equipment. Credit changes shall include a percentage of the direct costs for overhead and profit at fifty percent (50%) of the rates defined in Subparagraph 12.2.2.3.

12.2.5 If unit prices are stated in the Contract Documents or subsequently agreed upon, and if the quantities originally contemplated are so changed in the proposed Change Order that application of the agreed unit prices to the quantities of Work proposed will cause substantial inequity to the Owner or the Contractor, the applicable unit prices shall be equitably adjusted.

12.2.6 The Contract Sum, the Contract Time, and the date required for performance of any part of the Work may be changed only by a Change Order to the Contract. Each Change Order will be identified at the bottom of each approved RFP, with a heading of "Change Order Authorization." Change Orders executed pursuant to this article constitute full and final settlement of all aspects of cost and time related to and/or occasioned by the Work (or event) described therein. Costs are defined to include all direct labor costs; all direct materials and equipment expenses; any and all overhead, profit, and commission; any and all impact costs related to and/or occasioned by the Work described herein; as well as all taxes and insurance. All Change Orders shall be approved by the Project Manager and signed by the Owner and Contractor.

12.2.7 For accounting purposes, the Change Orders identified in Subparagraph 12.2.6 will be accumulated on a monthly basis or more frequently and summarized in a Summary Change Order. The Summary Change Order shall be approved by the Project Manager and signed by the Owner and Contractor. No claim by the Contractor for or on account of any Change Order shall be due nor shall any such claim appear on an Application for Payment or demand for final payment until the Summary Change Order has been fully executed by the Contractor and the Owner.

12.2.8 The Superintendent of Schools and/or the Senior Director of Capital Planning and Construction are authorized to make contract modifications or to execute orders up to one hundred thousand dollars ($100,000) that are within the project's budget. The Superintendent is authorized to make contract modifications in excess of one hundred thousand dollars ($100,000) but not-to-exceed two hundred fifty thousand dollars ($250,000) that are within the project's budget. All contract modifications or change orders

above two hundred fifty thousand dollars ($250,000) shall be recommended by the Superintendent to the School Board for its approval.

12.2.9 No claim by the Contractor for an equitable adjustment hereunder shall be allowed if asserted after final payment or more than six months after the date of substantial completion, whichever is earlier.

12.2.10 Nothing in this Article shall excuse the Contractor from proceeding with the Contract as changed.

12.3 DIFFERING CONDITIONS

12.3.1 The Contractor shall promptly, and before the conditions are disturbed, give written notice to the Owner of (1) subsurface or latent physical conditions at the site which differ materially from those indicated in this Contract, or (2) unknown physical conditions at the site, of an unusual nature, which differ materially from those ordinarily encountered and generally recognized as inherent in Work of the character provided for in the Contract.

12.3.2 The Owner shall investigate the site conditions promptly after receiving notice. Work shall not proceed at the affected site, except at the Contractor's risk, until the Owner has provided written instructions to the Contractor. If the conditions do materially so differ and cause an increase or decrease in the Contractor's cost of, or the time required for, performing any part of the Work under this Contract, whether or not changed as a result of the conditions, an adjustment shall be made under this Article and the Contract modified in writing accordingly.

12.3.3 No request by the Contractor for an adjustment to the Contract under this Article shall be allowed unless the Contractor has given the written notice required.

12.3.4 No claim by the Contractor for an adjustment hereunder shall be allowed if asserted after final payment or more than six months after the date of substantial completion, whichever is earlier.

12.4 CLAIMS FOR ADDITIONAL COST OR TIME

12.4.1 If the Contractor claims that additional cost is involved because of, but not limited to (1) any written interpretation pursuant to Subparagraph 2.2.8; (2) any order by the Owner to stop the Work pursuant to Paragraph 3.4 where the Contractor was not at fault; or (3) any other impacts related to the Work, the Contractor shall make such claim as provided in Subparagraph 12.4.2.

12.4.2 If the Contractor wishes to make a claim for an increase in the Contract Sum, and such claim is not barred under Paragraph 8.3, he shall deliver to the Project Manager written notice thereof within fourteen (14) days after the occurrence of the event giving rise to such claim. This notice shall be given by the Contractor before proceeding to execute the Work, except in an emergency endangering life or property in which case the Contractor shall proceed in accordance with Paragraph 10.3. No such claim shall be valid unless so made. The written notice shall state:

12.4.2.1 the date, nature and circumstances of the conduct regarded as a change;

12.4.2.2 the name, function and activity of each Contractor official, agent or employee involved in or knowledgeable about such conduct;

12.4.2.3 the identification of any documents and the substance of any communication

involved in such conduct;

12.4.2.4 in the instance of alleged acceleration of scheduled performance or delivery, the basis upon which it arose;

12.4.2.5 the particular elements of Contract performance for which the Contractor may seek an equitable adjustment under this Paragraph, including:

12.4.2.5.1 what Contract Drawings or Specification have been or may be affected by the alleged change;

12.4.2.5.2 what labor or materials or both have been or may be added, deleted or wasted by the alleged change;

12.4.2.5.3 to the extent practicable, what delay and disruption in the manner and sequence of performance and effect on continued performances have been or may be caused by the alleged change in accordance with Division1, Section 01311, “Project Schedule;”

12.4.2.5.4 what adjustments to the Contract Sum and other provisions of the Contract affected by the alleged change are estimated; and

12.4.2.6 the Contractor’s estimate of the time by which the Project Manager and Architect must respond to the Contractor’s notice to minimize cost, delay or disruption of performance in accordance with Division 1, Section 01311, “Project Schedule.”

12.4.3. After receipt of a Contractor’s claim, the Project Manager may visit the site, schedule an informal review hearing, or request additional information in order to fully evaluate the issues of the claim. The Project Manager has thirty (30) calendar days to review the claim and to send a written decision to the Contractor. If the Project Manager agrees with the Contractor that the issues presented in the Contractor’s claim justify a change in the Contract Sum or the Contract Time, the Project Manager and the Contractor shall negotiate the amount of the adjustment in the Contract.

If the Project Manager determines that the claim does not justify a change in the Contract Sum or Contract Time, of if the Project Manager cannot reach agreement with the Contractor on the amount of the adjustment in the Contract Sum or Contract Time, the amount shall be determined in accordance with Paragraph 12.5

12.4.4 In no event shall the Contractor slow or stop the Work while such determination is pending and the Owner shall continue to make payment in accordance with the Contract Documents except as to the amount in dispute. Any change in the Contract Sum resulting from such claim shall be authorized by Change Order.

12.5 RESOLUTION OF DISPUTED CLAIMS

12.5.1 All disputed claims arising from this contract shall be resolved according to the process identified in this section 12.5. This includes any interpretations of the contract documents, claims for increase in the Contract Sum or Contract Time, or any other issues of equitable adjustment.

12.5.2 Disputes between the Owner and the Contractor will be processed through the appeal process described in 12.5.3 and/or through the use of Alternative Dispute Resolution (ADR) procedures described in 12.5.4.

12.5.3 Appeal Process

12.5.3.1 If the Contractor does not agree with the decision of the Project Manager, the Contractor may, within ten (10) calendar days of receipt of the decision, file a notice of appeal with the Chief Operating Officer. The Chief Operating Officer will then have sixty (60) calendar days to review the appeal and send a written decision to the Contractor.

12.5.3.2 If the Contractor does not agree with the final decision rendered by the Chief Operating Officer, it may pursue litigation.

12.5.4 ADR Process

12.5.4.1 Either the Owner or the Contractor may request, prior to litigation, that a dispute be submitted to mandatory mediation.

12.5.4.2 The parties shall jointly select and compensate a third party mediator.

12.5.4.3 Both parties shall attend joint mediation sessions and make a good faith effort to reach agreement through this process.

12.5.4.4 There is no obligation for either of the parties to accept any agreement during the mediation process.

12.5.5 The Contractor shall diligently carry on the Work and maintain the progress schedule during any dispute resolution proceedings, unless otherwise agreed in writing.

END OF ARTICLE 12

ARTICLE 13

UNCOVERING AND CORRECTION OF WORK

13.1 UNCOVERING OF WORK

13.1.1 If any portion of the Work should be covered contrary to the request of the Owner, Project Manager or the Architect or to requirements specifically expressed in the Contract Documents, it must, if required in writing by the Project Manager, be uncovered for his observation and shall be replaced at the Contractor's expense.

13.1.2 If any other portion of the Work has been covered which the Architect or the Project Manager has not specifically requested to observe prior to being covered, either may request to see such Work and it shall be uncovered by the Contractor. If such Work be found in accordance with the Contract Documents, the cost of uncovering and replacement shall, by appropriate Change Order, be charged to the Owner. If such work be found not in accordance with the Contract Documents, the Contractor shall pay such costs unless it be found that this condition was caused by the Owner or a separate contractor as provided in Article 6, in which event the Owner shall be responsible for the payment of such costs.

13.2 CORRECTION OF WORK

13.2.1 The Contractor shall promptly correct all Work rejected by the Project Manager as defective or as failing to conform to the Contract Documents whether observed before or after Substantial Completion and whether or not fabricated, installed or completed. The Contractor shall bear all costs of correcting such rejected Work, including additional Owner Administrative and legal expenses, and additional compensation for the Architect's and/or Project Manager's additional services made necessary thereby.

13.2.2 If, within one (1) year after the Date of Substantial Completion of the Work or designated portion thereof or within such longer period of time as may be prescribed by law or by the terms of any applicable special warranty required by the Contract Documents, any of the Work is found to be defective or not in accordance with the Contract Documents, the Contractor shall correct it promptly after receipt of a written notice from the Owner through the Project Manager to do so unless the Owner through the Project Manager has previously given the Contractor a written acceptance of such condition. This obligation shall survive the provisions of Subparagraph 9.5.5 and termination of the Contract. The Owner shall give such notice promptly after discovery of the condition.

13.2.3 The Contractor, unless removal is waived by the Owner, shall remove from the site all portions of the Work which are defective or non-conforming, or if permitted or required, he shall correct such Work in place by and at the expense of the Contractor promptly after receipt of notice, and such rejected Work shall not thereafter be tendered for acceptance unless the former rejection or requirement for correction is disclosed.

13.2.4 If the Contractor does not proceed with the correction of such defective or non-conforming Work within a reasonable time fixed by written notice from the Owner, through the Project Manager, the Owner may either:

13.2.4.1 by separate contract or otherwise replace or correct such Work and charge the Contractor the cost occasioned the Owner thereby and remove and store the materials or equipment at the expense of the Contractor, or

13.2.4.2 terminate this Contract for default as provided in Paragraph 14.1. If the Contractor does not pay the cost of such replacement or correction and the

removal and storage within ten (10) days thereafter, the Owner may upon ten (10) additional days' written notice sell such Work at auction or at private sale and shall account for the net proceeds thereof, after deducting all the costs that should have been borne by the Contractor, including compensation for the Owner's administrative and legal expenses, and additional services of the Architect and the Project Manager made necessary thereby. If such proceeds of sale do not cover all costs which the Contractor and an appropriate Change Order shall be issued. If the payments then or thereafter due the Contractor are not sufficient to cover such amount, the Contractor shall pay the difference to the Owner.

13.2.5 The Contractor shall bear the cost of making good all Work of the Owner or separate contractors destroyed or damaged by such correction or removal.

13.2.6 Nothing contained in this Paragraph 13.2 shall be construed to establish a period of limitation with respect to any other obligation which the Contractor might have under the Contract Documents, including Paragraph 4.5. thereof. The establishment of the time period of one (1) year after the date of Substantial Completion or such longer period of time as may be prescribed by law or by the terms of any warranty required by the Contract Documents relates only to the specific obligation of the Contractor to correct the Work, and has no relationship to the time within which his obligation to comply with the Contract documents may be sought to be enforced, nor to the time within which proceedings may be commenced to establish the Contractor's liability with respect to his obligations other than specifically to correct the Work.

13.3 ACCEPTANCE OF DEFECTIVE OR NONCONFORMING WORK

13.3.1 If the Owner prefers to accept defective or nonconforming Work, he may do so instead of requiring its removal and correction, in which case a Change Order will be issued to reflect a reduction in the Contract Sum where appropriate and equitable, or the Owner may elect to accept payment in materials or services, in lieu of a reduction in the Contract Sum. If the amount of a reduction is determined after final payment, it shall be paid to the Owner directly by the Contractor.

END OF ARTICLE 13

ARTICLE 14

TERMINATION OF THE CONTRACT

14.1 TERMINATION BY THE OWNER

14.1.1 If the Contractor:

14.1.1.1 is adjudged bankrupt; or

14.1.1.2 makes a general assignment for the benefit of his creditors; or

14.1.1.3 has a receiver appointed on account of his insolvency; or

14.1.1.4 if he refuses or fails to commence the Work within the time required by this Contract; or

14.1.1.5 refuses or fails to prosecute the Work or any separable part with the diligence that will ensure its completion within the time specified in this Contract, including any extension; or

14.1.1.6 refuses or fails to provide sufficient and properly skilled workmen or proper materials or equipment to complete the Work in an acceptable manner and without delay; or

14.1.1.7 refuses or fails to complete the Work in accordance with the Project Schedule Milestone Dates set forth under Section 00200 hereof; or

14.1.1.8 fails to make prompt payment to Subcontractors or for materials or labor, or

14.1.1.9 persistently disregards laws, ordinances, rules, regulations, or orders of any public authority having jurisdiction; or

14.1.1.10 fails or refuses to comply with the requirements of Division 1, Section 01311, “Project Schedule” of the Contract Documents; or

14.1.1.11 otherwise is guilty of a substantial violation of a provision of the Contract Documents,

then the Owner, may, without prejudice to any right or remedy and after giving the Contractor and his surety, if any, seven (7) days’ written notice, terminate the employment of the Contractor and take possession of the site and of all materials, equipment, tools, construction equipment and machinery thereon owned by the Contractor and may finish the Work by whatever method he may deem expedient. In such case the Contractor shall not be entitled to receive any further payment until the Work is finished. Such an event of termination shall at the option of the Owner result in the automatic assignment to the Owner of all of the Contractor’s subcontracts, and the Owner may thereafter enforce such subcontracts in the prosecution of the Work in the same manner and to the same extent as the Contractor.

14.1.2 If the cost of finishing the Work exceeds the unpaid portion of the Contract Sum, the Contractor or his assigns, heirs or sureties shall pay the difference to the Owner. This obligation shall survive the termination of the Contract.

14.1.3 Nothing contained in this Article 14 shall impair any of the obligations of the surety.

14.2 TERMINATION FOR CONVENIENCE

14.2.1 The performance of the Work under this Contract may be terminated by the Owner in whole, or from time to time in part, whenever the Owner shall determine that such termination is in the best interest of the Owner. Any such termination shall be effected by delivery to the Contractor of a Notice of Termination specifying the extent to which performance of Work under the Contract is terminated, and the date upon which such termination becomes effective.

14.2.2 After receipt of a Notice of Termination, and except as otherwise directed by the Owner, the Contractor shall:

14.2.2.1 stop Work under the Contract on the date and to the extent specified in the Notice of Termination;

14.2.2.2 place no further orders or subcontracts for materials, services or equipment, except as may be necessary for completion of such portion of this Work under the Contract as is not terminated;

14.2.2.3 terminate all orders and subcontractors to the extent that they relate to the performance of Work terminated by the Notice of Termination;

14.2.2.4 assign to the Owner, in the manner, at the times, and to the extent directed by the Owner, all of the right, title, and interest of the Contractor under the orders and subcontracts so terminated, in which case the Owner shall have the right, in its discretion, to settle or pay any or all claims arising out of the termination of such orders and subcontracts;

14.2.2.5 settle all outstanding liabilities and all claims arising out of such termination of orders and subcontracts, with the approval or ratification of the Owner, to the extent he may require, which approval of ratification shall be final for all the purposes of this clause;

14.2.2.6 transfer title and deliver to the Owner, in the manner, at the times, and to the extent, if any, directed by the Owner, (A) the fabricated or unfabricated parts, Work in process, completed Work, supplies, and other material produced as a part of, or acquired in connection with the performance of, the Work terminated by the Notice of Termination, and (B) the completed or partially completed plans, drawings, information, and the property which, if the Contract has been completed, would have been required to be furnished to the Owner;

14.2.2.7 use his best efforts to sell, in the manner, at the time, to the extent and at the price or prices directed or authorized by the Owner, any property of the types referred to in Subparagraph 14.2.2.6 above, provided, however, that the Contractor (A) shall not be required to extend credit to any purchase, and (B) may acquire any such property under the conditions prescribed by and at a price or prices approved by the Owner, and provided further, that the proceeds of any such transfer or disposition shall be applied in reduction of any payments to be made by the Owner to the Contractor under this Contract or shall otherwise be credited to the price or cost of the Work covered by this Contract or paid in such other manner as the Owner may direct;

14.2.2.8 complete performance of such part of the Work as shall not have been

terminated by the Notice of Termination and may incur obligations as are necessary to do so; and

14.2.2.9 take such action as may be necessary, or as the Owner may direct, for the protection and preservation of the property related to this Contract which is in the possession of the Contractor and in which the Owner has or may acquire an interest.

14.2.3 The Contractor may submit to the Owner a list, certified as to quantity and quality, of any or all items of termination inventory not previously disposed of, exclusive of items the disposition of which has been directed or authorized by the Owner, and may request the Owner to remove such items or enter into a storage agreement covering them. Not later than fifteen (15) days thereafter, the Owner will accept title to such items and remove them or enter into a storage agreement covering the same; provided that the list submitted shall be subject to verification by the Owner upon removal of all items, or if the items are stored within forty-five (45) days from the date of submission of the list, and any necessary adjustment to correct the list as submitted shall be made prior to final settlement.

14.2.4 After receipt of a Notice of Termination, the Contractor shall submit to the Owner his termination claim, in the form and with certification prescribed by the Owner. Such claim shall be submitted promptly but in no event later than six (6) months from the effective date of termination. Upon failure of the Contractor to submit his termination claim within the time allowed, the Owner may determine on the basis of information available to him, the amount, if any, due to the Contractor by reason of the termination and shall thereupon pay to the Contractor the amount so determined.

14.2.5 Subject to the provisions of Subparagraph 14.2.4 above, the Contractor and the Owner may agree upon the whole or any part of the amount or amounts to be paid to the Contractor by reason of the total or partial termination of Work pursuant to this paragraph, which amount or amounts may include a reasonable allowance of profit on Work done; provided that such agreed amount or amounts, exclusive of settlement costs, shall not exceed the total Contract Sum as reduced by the amount of payments otherwise made and as further reduced by the Contract Sum attributable to that portion of Work not terminated. The Contract shall be amended accordingly, and the Contractor shall be paid the agreed amount. Nothing in Subparagraph 14.2.6 below, prescribing the amount to be paid to the Contractor in the event of failure of the Contractor and the Owner to agree upon the whole amount to be paid to the Contractor by reason of the termination of Work pursuant to this clause, shall be deemed to limit, restrict, or otherwise determine or affect the amount or amounts which may be agreed upon to be paid to the Contractor pursuant to this Subparagraph 14.2.5.

14.2.6 In the event of the failure of the Contractor and the Owner to agree, as provided in Subparagraph 14.2.5 above, upon the whole amount to be paid to the Contractor by reason of the termination of Work pursuant to this paragraph, the Owner shall pay to the Contractor the amounts determined by the Owner as follows, but without duplication of any amounts agreed upon in accordance with Subparagraph 14.2.5:

14.2.6.1 with respect to all Contract Work performed prior to the effective date of the Notice of Termination, the total (without duplication of any items) of:

14.2.6.1.1 the cost of such Work;

14.2.6.1.2 the cost of settling and paying claims arising out of the termination of Work under subcontracts or orders as provided in Subparagraph 14.2.2.5 above exclusive of the amounts paid or

payable on account of supplies or materials delivered or services furnished by the Subcontractor prior to the effective date of the Notice of Termination Work under this Contract, which amounts shall be included in the cost on account of which payment is made under Subparagraph 14.2.6.1 above; and

14.2.6.1.3 a sum as profit on Subparagraph 14.2.6.1.1 above, determined by the Owner to be fair and reasonable; and

14.2.6.2 the reasonable cost incidental to termination of Work including:

14.2.6.2.1 accounting, legal, clerical and other expenses reasonably necessary for the preparation of termination settlement proposals and supporting data;

14.2.6.2.2 the termination and settlement of subcontracts (excluding the amounts of such settlements); and storage, transportation and other costs incurred (pursuant to Subparagraph 14.2.2.9), reasonably necessary for the preservation, protection or disposition of the termination inventory.

14.2.6.3 The total sum to be paid to the Contractor under Subparagraph 14.2.6.1 above shall not exceed the total Contract Sum as reduced by the portion of the Contract Sum attributable to that portion of Work not terminated. Except for normal spoilage, and except to the extent that the Owner shall have otherwise expressly assumed the risk of loss, there shall be excluded from the amounts payable to the Contractor under Subparagraph 14.2.6.1, the fair value, as determined by the Owner, of property which is destroyed or lost, stolen, or damaged so as to become undeliverable to the Owner, or to a buyer pursuant to Subparagraph 14.2.2.7.

14.2.7 In arriving at the amount due the Contractor under this paragraph, there shall be deducted (1) all unliquidated advance or other payments on account theretofore made to the Contractor, applicable to the terminated portion of this Contract, (2) any claim which the Owner may have against the Contractor in connection with this Contract, and (3) the agreed price for, or the proceeds of sale of, any materials, supplies or other things acquired by the Contractor or sold, pursuant to the provisions of this paragraph and not otherwise recovered by or credited to the Owner.

14.2.8 If the termination hereunder be partial, the Contractor may file with the Owner a claim for an equitable adjustment of the price or prices specified in the Contract relating to the continued portion of the Contract (the portion not terminated by the Notice of Termination), and such equitable adjustment as may be agreed upon shall be made in such price or prices. Any claim by the Contractor for an equitable adjustment under this clause must be asserted within ninety (90) days from the effective date of the termination.

14.2.9 The Owner may from time to time, under such terms and conditions as it may prescribe, make partial payments and payments on account against costs incurred by the Contractor in connection with the terminated portion of this Contract whenever in the opinion of the Owner the aggregate of such payments shall be within the amount to which the Contractor will be entitled hereunder. If the total of such payments is in excess of the amount finally agreed or determined to be due under this paragraph, such excess shall be payable by the Contractor to the Owner upon demand, together with interest computed at the legal prevailing rate, for the period from the date such excess payment is received by the Contractor to the date on which such excess is repaid to the Owner, provided, however,

that no interest shall be charged with respect to any such excess payment, attributable to a reduction in the Contractor's claim by reason of retention or other disposition of termination inventory until ten (10) days after the date of such retention or disposition, or such later date as determined by the Owner by reason of the circumstances.

14.2.10 Unless otherwise provided for in this Contract, or by applicable statue, the Contractor shall - from the effective date of termination until the expiration of three (3) years after final settlement under this Contract - preserve and make available to the Owner at all reasonable times at the office of the Contractor but without direct charge to the Owner, all his books, records, documents and other evidence bearing on the costs and expenses of the Contractor under this Contract and relating to the Work terminated hereunder, or, to the extent approved by the Project Manager, photographs, microphotographs, or other authentic reproductions thereof.

END OF ARTICLE 14

SUPPLEMENTARY GENERAL CONDITIONS TO THE CONTRACT FOR CONSTRUCTION

REFERENCE:

1. **GENERAL CONDITIONS OF THE CONTRACT FOR CONSTRUCTION ANCHORAGE SCHOOL DISTRICT, ANCHORAGE, ALASKA**, constitutes the General Conditions of this Contract, and is further revised and supplemented by the provisions of these Supplementary General Conditions. The General Conditions and the Supplementary General Conditions are applicable to all of the work under this Contract and shall apply to the Contractor and all Subcontractors, Sub-subcontractors, and Material Suppliers and Vendors.

SUPPLEMENTS:

1. The following supplements modify, change, delete, or add to the General Conditions. Where any article of the General Conditions is modified or any paragraph deleted, subparagraph or clause thereof is modified, or deleted by these supplements, the unaltered provisions of such article, paragraph, sub-paragraph or clause shall remain in effect.

ARTICLE 4

Add the following new Paragraphs 4.7.1.2 & 4.7.1.3:

4.7.1.2 Unless otherwise authorized by the Project Manager, successfully obtaining the necessary permits shall be the responsibility of the Contractor and shall constitute a requirement for the issuance of the Notice to Proceed by the Owner.

4.7.1.3 Contractor shall submit Fire Alarm shop drawings to the Municipality of Anchorage Building Safety Office.

4.7.1.3.1 Contractor shall pay for the Municipality of Anchorage Fire Alarm permits.

4.7.1.3.2 Contractor shall obtain the permits upon approval.

Add the following new Paragraph 4.21, Construction Management Software:

4.21 CONSTRUCTION MANAGEMENT SOFTWARE

4.21.1 The Contractor shall fully utilize the Owner provided construction management software, currently Sage Procore Construction Management for communications, Submittals, Requests for Information, for submission of construction record documents and photographs, and other purposes as directed by the Project Manager.

4.21.2 The contractor shall designate a minimum of two (2) people from their internal project staff to access the Construction Management Software. It is incumbent upon the Contractor to ensure these individuals familiarize themselves and become proficient in the use of the Construction Management software utilizing the manuals, help files, training videos, forums and other support services provided by the Construction Management Software.

ARTICLE 7

Add the following new Paragraph 7.12, Fire Alarm System:

7.12 FIRE ALARM SYSTEM

7.12.1 Before beginning any work that may result in a fire alarm transmission, the contractor shall call both the Anchorage Fire Department dispatcher at 907-522-1122 and the local fire station which would respond to an alarm and let them know you will be working on the system and for approximately how long. Second the contractor shall call Guardian Security at 907-277-1975 and notify the dispatcher that you have called the Fire Department, what type of work you are planning to do, and approximately how long before you expect to be completed. After the contractor is completed with your work, you must reverse the process by notifying the Fire Department dispatcher and the ASD Dispatcher that you are finished.

7.12.2 The Contractor shall be held responsible for all charges incurred from false fire alarms. Currently the Anchorage Fire Department charges seven hundred fifty dollars and no cents ($750.00) per false alarm, or current rate charged.

Add the following new Paragraph 7.13, Apprenticeship Utilization Requirements for Contracts:

7.13 APPRENTICESHIP UTILIZATION REQUIREMENTS FOR CONTRACTS

7.13.1 Once awarded a contract by ASD, the prime contractor will be responsible to gather and submit all documentation to ASD to confirm compliance with the Apprenticeship Utilization Policy (“AUP”) mandated by Anchorage School Board Policy 3311.1.2. The Prime contractor will provide documentation to ASD to confirm that 15% of the labor hours worked in trades/crafts categories that are included in the Alaskan Federally Registered Apprenticeship Program has been executed by certified apprentices enrolled in those programs, and will provide documentation to confirm that the apprentices listed on the documentation submitted are currently in good standing with their Alaskan Federally Registered Apprenticeship Program. ASD will provide several forms which the prime contractor will be required to fill out in addition to submitting their certified payroll documents. Also, ASD will audit the prime contractor’s documentation on the following schedule. Audits for projects will be conducted every 30 days. In addition, ASD will conduct on-site audit at non-scheduled intervals to ensure that the apprentices listed on the written documentation are physically on-site. ASD will give a reasonable notice of 24 hours prior to on-site inspections.

7.13.2 The prime contractor will be required to submit the following, at the intervals requested by ASD:

- Certified Payroll for prime and subcontractors.
- Apprenticeship Utilization Form for prime and subcontractors.
- Apprenticeship Utilization Calculation form for prime and subcontractors, which demonstrates labor hours worked by apprentices in applicable crafts/trades categories, and reports status as to whether the apprentices listed are in good standing with their Alaskan Federally Registered Apprenticeship Program.

Add the following new Paragraph 7.14, Preference for Alaska Forest Products:

7.14 PREFERENCE FOR ALASKA FOREST PRODUCTS

7.14.1 **Preference for Alaska Forest and Agricultural Products**

This project is funded by state money in which the use of timber, lumber, and manufactured lumber products are required, and, therefore, only timber, lumber, and manufactured lumber products originating in this state from local forest products shall be used whenever practical.

Pursuant to AS 36.15.050 and AS 36.30.322, agricultural and timber, lumber and manufactured lumber products harvested in Alaska shall be used in state funded projects whenever they are priced no more than seven percent above agricultural/wood products harvested outside the state and are of a like quality as compared with agricultural/wood products harvested outside the state. The Contractor shall maintain records which establish the type and extent of Alaska agricultural/wood products utilized. When such products are not utilized, the Contractor shall document the efforts the Contractor made towards obtaining agricultural/wood products harvested in Alaska and include in this documentation a written statement that the Contractor contacted the manufacturers and suppliers identified on the Department of Commerce and Economic Development's list of suppliers of Alaska forest products concerning the availability of agricultural/wood products harvested in Alaska and, if available, the product prices. The Contractor shall complete this documentation at a time determined by the district's project manager.

The Department of Commerce and Economic Development's list of suppliers of Alaska forest products is available at:
http://www.commerce.state.ak.us/ded/dev/prodpref/fppproduct.cfm

The Contractor's use of agricultural/wood products that fail to meet the requirements of this section shall be removed and replaced in accordance with **Division 0, Section 00700, paragraph 13.3** of the contract. In addition, pursuant to AS 36.15.050(d), the district may withhold payment until the Contractor complies with this section.

To clarify, the actions required by the successful bidder awarded the contract are as follows:

- For all lumber items required under the contract the Contractor will contact all applicable suppliers of Alaska forest products to determine availability and cost.
- Contractor must use lumber from the suppliers of Alaska forest products unless the cost of the Alaska forest products that are of like quality is seven percent higher than non-Alaska produced forest products, or the Alaska forest products are not available.
- Contractor must maintain records showing efforts made in using Alaska forest products or evidence of Alaska forest products not being available or reasonably competitive.
- The records showing compliance with the Alaska forest products preference must be provided to Owner during the submittal process (Division 1, Section 01300).
- Per AS 36.15.010 if the Contractor fails to provide evidence regarding proper sourcing and comparison of Alaska forest products, the District shall withhold payment until the Contractor complies.

Add the following new Paragraph 7.15, Student Community Workforce Agreement:

7.15 STUDENT COMMUNITY WORKFORCE AGREEMENT

7.15.1 Bidders are hereby notified that this project is subject to the Student Community Workforce Agreement (SCWA).

A Template of the SCWA has been provided in this solicitation. Bidders may direct questions to purchasing@asdk12.org for consideration or submission to the SCWA Committee.

No portion of the attached Student Community Workforce Agreement may be changed without agreement of the SCWA Committee and the Trades Council.

7.15.2 As part of the Award process, the successful low bidder will comply with Board Policy 3311.2 Student Community Workforce Agreement (SCWA). The completed and approved SCWA documents will be incorporated into the District Contract of Award.

ARTICLE 9

Add the following new Paragraph 9.12, Liquidated Damages:

9.12 LIQUIDATED DAMAGES

9.12.1 Should the Contractor fail to substantially complete the Work on or before any date stipulated for Substantial Completion (or such later date as may result from extension of time granted by the Owner), he shall pay the Owner, as liquidated damages, the sum of one thousand dollars and no cents ($1,000.00) for each consecutive calendar day that terms of the contract remain unfulfilled beyond the date allowed by the Contract, which sum is agreed upon as a reasonable and proper measure of damages which the Owner will sustain per day by failure of the Contractor to complete work within time as stipulated; it being recognized by the Owner and to the Contractor that the injury to the Owner which could result from a failure of the Contractor to complete on schedule is uncertain and cannot be computed exactly. In no way shall costs for liquidated damages be construed as a penalty on the Contractor.

9.12.2 For each consecutive calendar day that the Work remains incomplete after the date established for Final Completion, the Owner will retain from the compensation otherwise to be paid to the Contractor the sum of one thousand dollars and no cents ($1,000.00). This amount is the minimum measure of damages the Owner will sustain by failure of the Contractor to complete all remedial work, correct deficient work, clean up the project and miscellaneous tasks as required to complete all work specified.

9.12.3 In no instance shall more than one thousand dollars and no cents ($1,000.00) a day are assessed for liquidated damages for work, which remains incomplete.

ARTICLE 10

Add the following new Paragraph 10.4, Compliance:

10.4 COMPLIANCE

10.4.1 When the school is in session the Contractor will be restricted to the areas, which do not interfere with school operations. These areas shall be safety and security fenced to not impact school operations. Additional areas may be utilized upon concurrence of the Project Manager. The Contractor shall minimize his impact on education while his work is in progress. Workers must stay out of school while school is in session. All renovation work in the existing school, including sprinklers, must be performed while

school is not in session. If scheduling pushes this work into the school session, then the work must be performed on nights and weekends.

10.4.2 The Contractor must maintain interior building fire exits through the construction areas and maintain these exits during all school operation hours. These exit routes may not be modified without concurrence of the Project Manager and the School Principal.

ARTICLE 11

Remove and replace Section 11.3.3.1 with the following:

11.3.3.1 The Contractor shall maintain an umbrella liability policy according to the following:

Projects < $2 million construction cost - $1,000,000 per occurrence and annual aggregate.

Projects < $10 million construction cost – $5,000,000 per occurrence and annual aggregate.

Projects > $10 million construction cost – $10,000,000 per occurrence and annual aggregate.

This requirement does not apply to Subcontractors.

ARTICLE 12

Article 12, 12.5.2: Delete this section in its entirety and replace with the following:

Disputes between the Owner and the Contractor will be processed through the appeal process described in 12.5.3.

Article 12, 12.5.3: Delete this section in its entirety and replace with the following:

12.5.3 Appeal Process

12.5.3.1 The contractor will submit in writing the issue(s) being claimed and the Project Manager will review. The Project Manager may visit the site, schedule a review hearing, or request additional information in order to fully evaluate the issues of the claim. The Project Manager will send the written decision to the Contractor within ten (10) days of receipt of claim.

12.5.3.2 If the Contractor does not agree with the decision of the Project Manager, within ten (10) days from the receipt of the written decision by the Project Manager, the Contractor may request an appeal of the decision to the Senior Director of Capital Planning & Construction. The Senior Director of Capital Planning & Construction will then have ten (10) days to review the issue(s) and send a written decision to the Contractor.

12.5.3.3 If the Contractor does not agree with the decision of the Senior Director of Capital Planning & Construction, within ten (10) days from the receipt

of the written decision by the Senior Director of Capital Planning & Construction, the Contractor may request an appeal of the decision to the Chief Operating Officer. The Chief Operating Officer will then have ten (10) days to review the issue(s) and send a written decision to the Contractor.

12.5.3.4 If the Contractor does not agree with the final decision rendered by the Chief Operating Officer, it may pursue litigation.

12.5.3.5 The Contractor may bring no action on claims unless the claims have been properly raised in accordance with all notice provisions of the conditions and considered in the above dispute-resolution procedures.

12.5.3.6 The Contractor shall diligently carry on the Work and maintain the progress schedule during any dispute-resolution proceedings, unless otherwise agreed in writing.

12.5.3.7 Any step in the process identified above can be waived only by explicit written waiver by both parties.

Article 12, 12.5.4: Delete this section in its entirety.

END OF SECTION

WAGE RATES

I. GENERAL

A. STATE OF ALASKA PREVAILING WAGE SCALE AND ALASKA HIRE

Attention of bidders is particularly called to the requirements as to conditions of employment to be observed and minimum wage rates to be paid under the Contract. Among other things, the requirements of Alaska's Little Davis Bacon Act (AS 36.05.010) are applicable to this project. Each bidder must inform himself/herself fully of the conditions relating to the construction of the project and the employment of labor thereon. Failure to do so will not relieve a successful bidder of his/her obligation to furnish all material and labor necessary to carry out the provisions of the Contract.

State Labor Wage and Hour Administration Pamphlets No. 600 for Laborers' and Mechanics' are updated on April 1, and September 1. It is the responsibility of the bidder to obtain the new labor wage and hour rates when available from the State of Alaska Department of Labor, and to use the Prevailing wage scale and hiring requirements when formulating your bid.

For copies of this pamphlet, contact the nearest office of the Division of Labor Standards and Safety, Wage and Hour office or visit the internet site at:

http://labor.state.ak.us/lss/pamp600.htm

END OF SECTION

SUMMARY OF WORK

PART 1. GENERAL

1.01 RELATED DOCUMENTS

A. Drawings and general provisions of the Contract, including General and Supplementary Conditions and other Division 1 Specification Sections, apply to this Section.

1.02 WORK COVERED BY CONTRACT DOCUMENTS

A. The Work of this Contract comprises the general construction of the facility identified in the Solicitation including all noted site improvements.

B. Definition of Site: Wherein the term Site is used in the contract documents, it shall mean the areas where work is to be performed; located as identified in the Solicitation and on the Contract Drawings.

C. Acceptance of Site: The Contractor shall fully inform himself of the areas in which work is to be processed, material delivered, and limitation in working conditions, and access to work areas.

D. Existing Conditions: The drawings may not show all arrangements and condition of the site as they now exist. The Contractor shall be responsible for a complete visual inspection.

1.03 CONTRACT

A. Construct the work under a single fixed price contract as bound herein.

B. It is the intent of these documents to require all work for a complete facility and plant with only minor owner-furnished items to be incorporated. See technical sections for specifics.

1.04 WORK FURNISHED AND INSTALLED BY OWNER

A. Equipment and furniture as noted in documents. Other Contractors or ASD Maintenance personnel may be performing work at this facility concurrent with this project. See Section 1.07 below for requirements concerning coordination with Contractor's work.

1.05 GENERAL PROJECT DESCRIPTION

A. General Description: Klatt Elementary School Loading Dock Awning project is located at 11900 Puma Street Anchorage, AK 99515

B. Construction:

Finish labor, supervision, materials, tools, equipment, and other items as necessary to properly site improvements per the project construction documents. Work includes, but is not limited to:

1. Remove existing stairs & landing, pavement, bollards, a door and frame, etc.
2. Install a new ramp, handrails, a door & frame, asphalt concrete pavement, bollards, and related site items.
3. Install new steel framing canopy, including canopy roof assembly, parapets, drains, heat traces, mechanical and electrical related scopes.

4. Alternate 1: Replace automatic transfer switch and related scope. See Section 01030 Bid Alternates for details.

C. Sequence the start, conduct and completion of Work as required in Section 00200, Project Schedule Milestone Dates.

1.06 CONTRACTOR'S USE OF PREMISES

A. Limit use of premises for work and for storage to allow for:

1. Area of site indicated on Contract Drawings
2. Owner occupancy of existing building
3. Public use
4. Coordinated use of premises under direction of Project Manager.
5. Full responsibility for protection and safekeeping of products under this Contract stored at Site.
6. Moving any stored products, under Contractor's control, which interfere with operations of Owner or separate Contractor.

1.07 OWNER'S USE OF PREMISES

A. During the regular school year, conduct operations to minimize interference with normal school operations.

B. Schedule any work which could interfere with school operations during summer vacation or when the school is not in session during the regular year.

C. Cooperate with Project Manager in conducting operations to minimize conflict with and to facilitate Owner usage as established by the Project Manager.

D. Schedule work to maintain Owner’s continuous operation. Include in contract sum sufficient funds as may be required for any “after-hours” work caused by this requirement. No additional payment to Contractor will be authorized because of Contractor’s failure to anticipate required “after-hours” work.

E. At all times conduct operation as to ensure the least inconvenience to students, staff, visitors, and the general public.

F. The contractor shall provide advance notice at least 72 hours prior to any utility outages or other operations anticipated to inconvenience the school activities. The Project Manager will review and evaluate the request. The contractor may have to reschedule the operations to another time that will not impact school activities.

G. The Contractor shall be responsible for maintaining power to the Fire Alarm, Security and Network systems to ensure they are in proper working order throughout the project. If the systems must be off-line during the project, the Contractor shall obtain written approval from the Project Manager. During any time in which the fire alarm or security system is not operational, the Contractor shall provide a fire watch and security watch 24 hours a day, 7 days a week, for the entire period of the shutdown at no additional cost to ASD. The Contractor shall notify the ASD Project Manager of the intended method 72 hours prior to the shutdown.

1. An acceptable method of maintaining power to the fire alarm and security panels includes maintaining power during the entire period of the Electrical Utility Shutdown.

H. While school is occupied by students and the general public the contractor must keep operational the emergency egress lighting.

1.08 COORDINATION OF NOISE, DUST AND FUMES

A. Contain noise, dust and fumes within work area. Notify Project Manager at least 24 hours prior to any necessary excessive noise, dust or fumes. Comply with the Project Manager's instructions.

1.09 PRODUCTS FURNISHED BY OWNER AND INSTALLED BY CONTRACTOR

A. Owner's Responsibilities:

1. Arrange for and deliver necessary shop drawings, product data, and samples to Contractor.
2. Arrange and pay for product delivery to Site in accordance with construction schedule.
3. Deliver supplier's bill of materials to Contractor.
4. Inspect deliveries jointly with Contractor
5. Submit claims for Transportation damage.
6. Arrange for replacement of damaged, defective, missing or otherwise unacceptable items.
7. Arrange for manufacturer's warranties, bonds, service, and inspections as required.

B. Contractor's Responsibilities:

1. Designate delivery date for each product in construction schedule.
2. Receive and unload products at Site.
3. Promptly inspect products jointly with Owner, record shortages, damaged or defective items.
4. Handle products at Site, including uncrating and storage.
5. Protect products against damage and discoloration.
6. Assemble, install, connect, adjust, and finish products, as stipulated in respective Specification Sections.
7. Clean, repair, or replace items damaged by Contractor.

1.10 SALVAGE RIGHTS

A. Except where noted otherwise on contract documents, existing equipment which is removed as a part of the work shall become the property of the Contractor to dispose of as he sees fit.

B. Remove scheduled materials and equipment without damaging items. Store items in protected environment. Coordinate with Owner for pick up and/or delivery to the owner. If delivered to the owner include project name and school for easy identification.

1.11 USE OF OWNER'S PROPERTY AND EQUIPMENT

A. Use of Owner's property or equipment such as tools, ladders, furniture, janitorial equipment and supplies, etc., is strictly prohibited.

1.12 PERMITTING

A. Contractor shall obtain all necessary building permits required to complete the scope of work identified in the contract documents. These include any/all subcontractor or specialty

permits.

B. Contractor shall ensure all required Municipal inspections, in accordance with the aforementioned permits, are requested and conducted prior to covering, closing or concealing the work in the field. Understanding and adhering to all MOA inspection requirements is mandatory. The Owner is not liable for re-inspection or rework costs associated with non-conforming or prematurely concealed work.

C. Contractor shall maintain an inspection log and retain copies of all inspection reports, on site, for review by inspection officials and district project representatives.

D. The District will be requiring preconstruction meeting with municipality building safety department.

END OF SECTION

BID ALTERNATES

PART 1. GENERAL

1.01 DESCRIPTION

A. Work included:

To allow the Owner to compare total costs where alternate materials and methods might be used, certain alternatives have been established as described in this Section of these Specifications.

B. Related work described elsewhere:

1. Pertinent Sections of these Specifications describe materials and methods required under the various alternatives.
2. The method for stating the proposed contract amount is described on the Bid Form.

1.02 SUBMITTALS

A. All alternatives described in this Section of these Specifications are required to be reflected in the space provided on the Bid Form for this work. However, do not submit alternatives other than those described in this Section. Amounts submitted for alternatives shall include all overhead, profit, bonds, insurance and similar related costs.

1.03 BASE BID

A. Includes all Work shown on Drawings or included in Specifications, excepting only that Work specifically noted in the following Alternate Bids, and that Work specifically noted as excepted.

PART 2. PRODUCT

2.01 DESCRIPTION

A. This Project consists of the Basic Bid and noted Alternates. The Contract Documents have been prepared to show both basic and alternate work. In case the alternate work is not included in the contract work it will be the Contractor's responsibility to construct basic work by excluding alternate work as described below. Revised drawings excluding alternate work will not be issued.

B. Work required by the following alternates shall include the finishing of all labor and materials to provide a complete and usable finished installation.

C. The extent of alternates is described on the Drawings or specified herein.

D. The Technical Specifications shall apply to all alternates unless modified herein.

2.02 LIST OF ALTERNATES

A. Alternate Number One: Remove and Replace Automatic Transfer Switch (ATS) and related electrical conduits and system disconnections/reconnections. Verifying the system reconnection requirements after the CEA, MOA and ASD Maintenance & Operation

inspections.

PART 3. EXECUTION

3.01 ADVANCE COORDINATION

A. Immediately after award of the contract, or as soon thereafter as the Owner has made decision on which if any alternatives will be selected, thoroughly and clearly advise all necessary personnel and suppliers as to the nature and extent of alternatives selected by the Owner. Use all means necessary to alert those personnel and suppliers involved as to all changes in the work caused by the Owner's selection or rejection of alternatives.

END OF SECTION

PROJECT COORDINATION

PART 1. GENERAL

1.01 GENERAL CONTRACTOR

A. Coordinate work of his own employees and subcontractors and coordinate his work with that of other contractors and Owner.

B. Expedite his work to assure compliance with schedules.

C. Comply with orders and instructions of the Project Manager.

D. Monitor and control the use of site:

1. Supervise field engineering and site layout.
2. Allocate space for each subcontractor's use for field offices, sheds, work and storage areas.
3. Establish access, traffic, parking allocations, and regulations.

1.02 GENERAL AND SUBCONTRACTORS SHALL DILIGENTLY COMPLY WITH THE FOLLOWING:

A. Cooperate in planning and layout of the work well in advance of operations. Inform other contractors of requirements at proper time to prevent delay or revisions.

B. Be informed of the requirements of other contractors and check own work for conflicts with the work of others.

C. Ensure delivery of materials and performance of work on coordinated schedule with other contractors.

D. Be responsible for proper layout of the work, and for all lines and measurements for all of the work executed under the contract documents. Verify the figures shown on the drawings before laying out the work and report any inaccuracies in writing to the Project Manager before commencing work. The Owner, Architect or their representative will in no case assume the responsibility for layout of the work.

E. The mechanical and electrical trades shall be responsible for the layout of the ductwork, piping and conduits based on the reference lines established.

1.03 COORDINATING UTILITIES

A. Cooperate and coordinate work with all utilities to be installed for service to Project. Utilities may include, but are not limited to water, sewer, natural gas, telephone, electrical, and cable television. Contractor shall maintain communication with utilities in order to coordinate time and requirements of utilities' installation.

B. Contractor shall provide all work necessary to comply with requirements of Contract Documents for Utility work that does not meet Contract Document requirements, or for work that is disturbed by utility installation.

1.04 OWNER NOTIFICATION/REIMBURSEMENT

A. Provide the Owner forty-eight (48) hours advance notice of his intention to work overtime,

nights, Sundays or holidays, or anytime outside the usual working hours. In no case will the Contractor do any such work without first notifying the Owner to permit arrangements for proper inspection. Unless of an emergency nature, work performed in violation of this paragraph will not be paid for.

B. Reimburse the additional cost to the Owner for inspection work on Sundays or recognized holidays. Such reimbursement shall include all additional costs to the Owner.

C. Reimbursement for inspection or observation required of the Project Manager or the Engineer on Sundays or recognized holidays shall be at the rate of One Hundred Fifty dollars ($150.00) per man-hour of work.

D. The contractor shall reimburse the additional cost to the owner, architect and consultants for inspection work beyond a first substantial of first final completion inspections. The contractor is expected to be virtually complete at time of substantial completion inspection with only minor punchlist items remaining. Should punchlist items remain at time of final inspection and should subsequent inspections be required, the contractor shall pay all costs for all.

PART 2. PRODUCTS (NOT USED)

PART 3. EXECUTION (NOT USED)

END OF SECTION

CUTTING AND PATCHING

PART 1. GENERAL

1.01 DESCRIPTION OF WORK

A. Cutting and patching is defined to include, but it not necessarily limited to, the cutting and patching of nominally completed work, and is defined to exclude integral cutting and patching during the manufacturing, fabricating, erecting, and installing process for individual units of work.

B. Contractor shall be responsible for all cutting, fitting, and patching required to complete the work or to:

1. Accommodate the coordination of work.
2. Provide for installation of other work.
3. Remove and replace defective work.
4. Remove and replace work not conforming to requirements of Contract Documents.
5. Uncover other work for access or inspection.
6. Obtain samples for testing or similar purposes.
7. Provide routine penetrations of nonstructural surfaces for installation of piping and electrical conduit.

1.02 RELATED REQUIREMENTS

A. Section 00700 Article 4.14.

B. Section 01010 - Summary of Work.

C. Individual Specification Sections:

1. Cutting and patching incidental to work of the Section.
2. Advance notification to other Sections of openings required in work of those Sections.
3. Limitations on cutting structural members.

1.03 SUBMITTALS

A. Ten (10) days prior to beginning any demolition activities, the Contractor shall provide written notification to EPA, in accordance with NESHAP regulations, with copy to Project Manager. Notice shall indicate asbestos containing materials are or are not anticipated to be encountered. If no asbestos is anticipated, a negative declaration is made addressing 40CFR61.146 (a), (b) and (c,1-5).

B. Submit written request in advance of cutting or alteration which affects:

1. Structural integrity of any element of Project.
2. Integrity of weather-exposed or moisture-resistant element.
3. Efficiency, maintenance, or safety of any operational element.
4. Visual qualities of sight-exposed elements.
5. Work of Owner or separate contractor.

C. Include in Request:

1. Identification of Project.
2. Location and description of affected work.
3. Necessity for cutting and alteration.

4. Description of proposed work. Designate:

   a. Scope of cutting and patching.
   b. Contractor and trades to execute work.
   c. Products proposed to be used.
   d. Extent of refinishing.

5. Date and time work will be executed.

PART 2. PRODUCTS

2.01 MATERIALS

A. For replacement of work removed, comply with specifications for type of work to be done, unless otherwise noted.

B. Provide materials for cutting and patching which will result in equal to or better than the work being cut and patched in terms of performance characteristics and visual effect where applicable.

PART 3. EXECUTION

3.01 GENERAL

A. Execute cutting, fitting, and patching to complete Work, and to:

1. Fit the several parts together, to integrate with other Work.
2. Uncover work to install or correct ill-timed Work.
3. Remove and replace defective and non-conforming Work.
4. Remove samples of installed Work for testing.
5. Provide openings in elements of Work for penetrations of mechanical and electrical work.
6. Repair surfaces damaged by removal or relocation of surface mounted or built-in items.

3.02 INSPECTION

A. Inspect existing conditions, including elements subject to damage or movement during cutting and patching.

B. Do not cut and patch work which is exposed to view in a manner resulting in a reduction of visual qualities or resulting in substantial evidence of the cut and patch work. Remove and replace work judged by Project Manager to be visually unsatisfactory.

C. After uncovering, inspect conditions affecting performance of work.

D. Beginning of cutting or patching means acceptance of existing conditions.

3.03 PREPARATION

A. Clean adjacent structures and improvements of dust, dirt, and debris caused by cutting and patching operations, as directed. Return adjacent areas to condition existing prior to start of work.

B. Provide supports to assure structural integrity of surroundings; devices and methods to

protect other portions of Project from damage.

C. Provide protection from elements for areas which may be exposed by uncovering work; maintain openings free of water.

3.04 PERFORMANCE

A. Execute work by methods to avoid damage to other work, and which will provide proper surfaces to receive patching and finishing.

B. Restore work with new products in accordance with requirements of Contract Documents.

C. Fit work airtight to pipes, sleeves, ducts, conduit, and other penetrations through surfaces. Maintain all fire assembly rating wall or area separation construction in accordance with applicable codes.

D. Refinish surfaces to match adjacent finishes. For continuous surfaces, refinish to nearest intersection; for an assembly, refinish entire unit.

END OF SECTION

FIELD ENGINEERING

PART 1. GENERAL

1.01 REQUIREMENTS INCLUDED

A. Provide and pay for field engineering services required for project, i.e., civil, structural, or other professional engineering services required to execute Contractor's construction methods.

1.02 RELATED REQUIREMENTS

A. Conditions of the contract.

B. Section 01010: Summary of Work.

C. Section 01700: Project Closeout.

1.03 QUALIFICATIONS OF SURVEYOR AND ENGINEER

A. Provide Qualified Professional Engineer and Registered Land Surveyor with current Alaska license and acceptable to Contractor and Owner.

1.04 SURVEY REFERENCE POINTS

A. Locate and protect bench marks, monuments, and other control points prior to starting site work, preserve all permanent points during construction.

1. Make no changes or relocations without prior written notice to Project Manager.
2. Report to Project Manager when any reference point is lost, destroyed or required relocation because of necessary changes in grades or locations.
3. Require surveyor to replace project control points which may be lost or destroyed and establish replacements based on original survey control.

1.05 PROJECT SURVEY REQUIREMENTS

A. Establish a minimum of two permanent bench marks on site, referenced to data established by survey control points.

B. Record locations, with horizontal and vertical data, on Project Record Documents.

C. Establish and identify lines, levels, contours, and datum by instrumentation or similar appropriate means for:

1. Stakes for grading, fill, and topsoil placement.
2. Utility slopes and invert elevations.
3. Batter boards for structures.
4. Building foundation, column locations, and floor levels.
5. Controlling lines and levels required for mechanical and electrical trades.

D. From time to time, verify layouts by same methods.

1.06 RECORDS

A. Maintain a complete, accurate log of all control and survey work as it progresses.

1.07 SUBMITTALS

A. Submit name and address of Surveyor and Professional Engineer to Project Manager.

B. On request of Project Manager, submit documentations to verify accuracy of field engineering work.

C. Submit certificate signed by Registered Engineer and Surveyor certifying that elevations and locations of improvements are in conformance with Contract Documents in the form of an “As-Built” survey.

PART 2. PRODUCTS (NOT USED)

PART 3. EXECUTION (NOT USED)

END OF SECTION

REGULATORY REQUIREMENTS

PART 1. GENERAL

1.01 BUILDING CODES

A. Construction which is not governed by a local building code or the Contract Specifications will be governed by the more stringent provisions of the latest published edition of Statute adopted edition with MOA local amendments, of the following applicable codes and regulations:

1. International Building Code (IBC)
2. International Existing Building Code (IEBC)
3. International Energy Conservation Code (IECC)
4. International Fuel Gas Code (IFGC)
5. International Mechanical Code (IMC)
6. International Fire Code (IFC)
7. National Electrical Code (NEC)
8. Uniform Plumbing Code (UPC)
9. ASHRAE 90-75 as applicable to Alaska
10. National Fire Code, Volumes 1-10
11. National Electrical Safety Code
12. NFPA Life Safety Code
13. NFPA National Fire Code
14. ADA Guidelines
15. Accessible and Useable Buildings and Facilities (ICC/ANSI A117.1)

1.02 APPLICABLE STANDARDS

A. Where indicated, comply with the requirements and recommendations of the standards and other publications, except to the extent more detailed or more stringent requirements are indicated, including those of applicable codes and governing regulations.

B. Where two or more standards or recommendations of trade associations apply to the same quality control requirement for the work, comply with the most stringent. Refer uncertain instances to the Project Manager for a decision.

PART 2. PRODUCTS (NOT USED)

PART 3. EXECUTION (NOT USED)

END OF SECTION

ABBREVIATIONS AND DEFINITIONS

PART 1. GENERAL

1.01 ABBREVIATIONS

A. References in the contract documents to publications and recommendations by either name or abbreviation thereof include but are not necessarily limited to the following trade associations, technical societies, government agencies, recognized authorities and standards.

AAMA	Architectural Aluminum Manufacturers Association
AASHTO	American Association of State Highway and Transportation Officials
ACI	American Concrete Institute
AGA	American Gas Association
AGC	The Associated General Contractors of America
AI	The Asphalt Institute
AIA	The American Institute of Architects
AISC	American Institute of Steel Construction, Inc.
AISI	American Iron and Steel Institute
AITC	American Institute of Timber Construction
ANSI	American National Standards Institute
APA	American Plywood Association
ASAHC	American Society of Architectural Hardware Consultants
ASHRAE	American Society of Heating, Refrigerating and Air-Conditioning Engineers, Inc.
ASME	American Society of Mechanical Engineers
ASTM	American Society for Testing and Materials
AWI	Architectural Woodwork Institute
AWPA	American Wood-Preservers' Association
AWPB	American Wood-Preservers' Bureau
AWS	American Welding Society, Inc.
CPSC	Consumer Product Safety Commission
CRA	California Redwood Association
CRSI	Concrete Reinforcing Steel Institute
CS	Commercial Standard of NBS (U.S. Department of Commerce)
CSI	The Construction Specifications Institute, Inc.
EPA	Environmental Protection Agency
FM	Factory Mutual Engineering Corp.
FGMA	Flat Glass Marketing Association
FS	Federal Specification (General Services Administration)
GA	Gypsum Association
HPMA	Hardwood Plywood Manufacturers Association
IBC	International Building Code
MFMA	Maple Flooring Manufacturers Association
MLMA	Metal Lath/Manufacturers Association
NAAMM	The National Association of Architectural Metal Manufacturers
NBFU	National Board of Fire Underwriters
NBHA	National Builders Hardware Association
NBS	National Bureau of Standards (U.S. Department of Commerce)
NEC	National Electrical Code by NFPA
NEMA	National Electrical Manufacturers Association
NFPA	National Fire Protection Association
N.F.P.A.	National Forest Products Association
NRCA	National Roofing Contractors Association

NSF	National Sanitation Foundation
NWMA	National Woodwork Manufacturers Association, Inc.
OSHA	Occupational Safety and Health Administration
PCA	Portland Cement Association
PCI	Prestressed Concrete Institute
RIS	Redwood Inspection Service (Grading Rules)
SDI	Steel Deck Institute
S.D.I.	Steel Door Institute
SIGMA	Sealed Insulating Glass Manufacturers Association
SJI	Steel Joist Institute
SMACNA	Sheet Metal and Air Conditioning Contractor's National Association, Inc.
SPR	Simplified Practice Recommendation of NBS
SSPC	Steel Structures Painting Council
TCA	Tile Council of America, Inc.
UL	Underwriters' Laboratories, Inc.
WCLA	West Coast Lumbermen's Association
WCLB	West Coast Lumber Inspection Bureau (Grading Rules)
WRI	Wire Reinforcing Institute
WWPA	Western Wood Products Association (Grading Rules)
W.W. P.A.	Woven Wire Products Association

B. Refer to individual sections for other names and abbreviations of trade associations and standards applicable to specific portions of the work. In particular, refer to Divisions 22 and 26 for names and abbreviations applicable to mechanical and electrical work.

1.02 SPECIFICATION EXPLANATION

A. The specifications are divided into divisions and sections for the convenience of writing and using. The titles of these are not intended to imply a particular meaning nor to fully describe the work of each division or section, nor to define the limits of any subcontract.

B. These specifications are of the abbreviated, or "streamlined" type, and may include incomplete sentences.

C. Omissions of words or phrases such as "the Contractor shall", "in conformity therewith", "shall be", "as noted on the drawings", "according to the plans", "a", "an", "the", and "all" are intentional.

D. Omitted words or phrases shall be supplied by inference in the same manner as they are when a "note" occurs on the drawings.

1.03 DEFINITIONS

A. Certain terms used generally throughout the specifications (and drawings) are hereby defined as follows:

1. Indicated: A cross reference to details, notes or schedules on the drawings, other paragraphs or schedules in the specifications, and similar means of recording requirements in the contract documents. Where terms such as "shown", "noted", "scheduled", and "specified" are used in lieu of "indicated", it is for the purpose of helping the reader accomplish the cross reference, and no limitation of location is intended except as specifically noted.
2. Installer: The person or entity engaged by the Contractor or his Subcontractor or Sub-subcontractor for the performance of a particular unit or work at the project site, including installation, erection, application, and similar required operations. It

is a general requirement that installers be recognized experts in the work they are engaged to perform.

3. Furnish: Except as otherwise defined in greater detail, the term “furnish” is used to mean “...supply and delivery to the project site, ready for unpacking, assembly and installation...”.
4. Provide: Except to the extent further defined, the term “provide” means to furnish and install, complete and ready for the intended use.

1.04 DRAWINGS, DIMENSIONS AND MEASUREMENTS

A. Where on any of the drawings a portion of the work is drawn out and the remainder is indicated in outline, the parts drawn out shall apply also to all other portions of the work.

B. Wherever a detail is referenced and developed for a specific condition, same or similar detail shall apply to identical or similar conditions elsewhere on project even though not specifically referenced.

C. Where the word “similar” occurs on the drawings, it shall be interpreted in its general sense and not as meaning identical, and all details shall be worked out in relation to their location and their connection with other parts of the work.

D. The figured dimensions on the drawings or notes indicating dimensions shall be used instead of measurements of the drawings by scale, and shall be strictly complied with.

E. No scale measurements shall be used as a dimension to work with except on “full size” drawings not dimensioned.

PART 2. PRODUCTS (NOT USED)

PART 3. EXECUTION (NOT USED)

END OF SECTION

REFERENCED SPECIFICATIONS AND STANDARDS

PART 1. GENERAL

1.01 QUALITY ASSURANCE

A. For products or workmanship specified by Referenced Specification or Standard, comply with requirements of the specification or standard, except when more rigid requirements are specified or are required by governing codes.

B. Except where a specific date is specified, the date of the referenced specification standard is that in effect as of the bid date.

C. Obtain a copy of all Referenced Specifications and Standards, and maintain at Jobsite during the specific work until Substantial Completion of the Project.

1.02 SCHEDULE OF REGULATORY AGENCY REFERENCES

A.	AASHTO	American Association of State Highway and Trans. Officials 444 North Capitol Street, N.W. Washington, DC 20001
B.	AAC	Anchorage Administrative Code (and Local Amendments) Municipality of Anchorage 4700 Elmore Rd Anchorage, AK 99507
C.	ADA	Americans with Disabilities Act The Disabilities Rights Section Civil Rights Division P.O. Box 66738 Washington, DC 20035-6738
D.	ANSI	American National Standards Institute 1430 Broadway New York, NY 1018
E.	ASA	American Standards Association Now known as ANSI (See above)
F.	ASTM	American Society for Testing Materials 1916 Race Street Philadelphia, PA 19103
G.	ATBCB	The U.S. Architectural and Transportation Barrier Compliance Board Suite 1000, 131 F St. NW Washington, DC 20004-1111
H.	CS	Commercial Standards of the Commodities Division of the Department of Commerce Washington, DC 20006
I.	FM	Factory Mutual Engineering and Research Corporation P. O. Box 688 Norwood, MA 02062
J.	F.S.	Federal Specifications of the United States General Services Administration Specifications and Consumer Information Distribution Section (WFSIS)

Washington, DC 20407

K. IBC — International Building Code published by the International Code Council (ICC)
4051 West Flossmoor Road
Country Club Hills, IL 60478-5795

L. IEBC — International Existing Building Code
Published by ICC (See IBC above)

M. ICC/ANSI A117.1-2003
Accessible and Usable Buildings and Facilities
Published by ICC (See IBC above)

N. IECC — International Energy Conservation Code
Published by ICC (See IBC above)

O. IFC — International Fire Code
Published by ICC (See IBC above)

P. IFGC — International Fuel Gas Code
Published by ICC (See IBC above)

Q. IMC — International Mechanical Code
Published by ICC (See IBC above)

R. MOA — Municipality of Anchorage MASS Specifications
Public Works Dept.
4700 Elmore Rd
Anchorage, AK 99507

S. NBFU — National Bureau of Fire Underwriters
85 John Street
New York, NY 10017

T. NEC — National Electric Code published by the National Fire Protection Association
(See NFPA below)

U. NFPA — National Fire Protection Association
Battery March Park
Quincy, MA 02269

V. PS — Product Standards of the Commodities
Division of the Department of Commerce
Washington, DC 20203

W. UPC — Uniform Plumbing Code
Published by IAPMO
5001 East Philadelphia Street
Ontario, CA 91761-2816

X. UL — Underwriter's Laboratories
333 Kingston Road
Northbrook, IL 60062

Y. State of AK — State of Alaska Amendments
Fire and Life Safety Regulations
Juneau, AK

1.03 TRADE ASSOCIATION REFERENCES

A. See specific specification sections.

PART 2. PRODUCTS (NOT USED)

PART 3. EXECUTION (NOT USED)

END OF SECTION

ALTERATION PROCEDURES

PART 1. GENERAL

1.01 DESCRIPTION OF WORK

A. Part of alteration work may expose portions of the building to the elements. During such periods Contractor shall take all necessary precautions to protect building elements to remain. Any damage due to negligence shall be repaired at no cost to the Owner.

B. In addition to Cutting and Patching (Section 01045) and cut, move, or remove items as necessary to provide access or to allow alterations and new work to proceed. Include such items as:

1. Repair or removal of hazardous or unsanitary conditions.
2. Removal of abandoned items and items serving no useful purpose such as abandoned piping, conduit, and wiring.
3. Removal of unsuitable or extraneous materials not marked for salvage, such as abandoned furnishings and equipment, and debris such as rotted wood, rusted metals, and deteriorated concrete.
4. Cleaning of surfaces, and removal of surface finishes as needed to install new work and finishes.

1.02 RELATED REQUIREMENTS

A. Section 00700 and 00800 - General and Supplementary General Conditions of the Contract for Construction.

B. Section 01045 - Cutting and Patching.

C. Section 01300 - Submittals.

D. Section 01500 - Temporary Facilities and Controls.

1.03 COORDINATION

A. Coordinate scheduling, submittals, and Work of the various Sections of Specifications to assure efficient and orderly sequence of installation of interdependent construction elements, with provisions for accommodating items installed later.

B. Verify that utility requirement characteristics of operating equipment are compatible with building utilities. Coordinate work of various Sections having interdependent responsibilities for installing, connecting to, and placing in service, such equipment.

C. Coordinate space requirements and installation of mechanical and electrical work which are indicated diagrammatically on Drawings. Follow routing shown for pipes, ducts, and conduit, as closely as practicable; place runs parallel with line of building. Utilize spaces efficiently to maximize accessibility for other installations, for maintenance, and for repairs.

D. In finished areas, except as otherwise indicated, conceal pipes, ducts, and wiring within the construction. Coordinate locations of fixtures and outlets with finish elements.

E. Coordinate completion and cleanup of Work of separate sections in preparation for Substantial Completion.

F. After Owner occupancy of premises, coordinate access to site for correction of defective Work and Work not in accordance with Contract Documents, to minimize disruption of Owner's activities.

PART 2. PRODUCTS

2.01 ALTERATION PROJECT PROCEDURES

A. Materials: As specified in Product Sections; match existing Products and work for patching and extending work.

B. Close openings in exterior surfaces to protect existing work from weather and extremes of temperature and humidity.

C. Remove, cut, and patch Work in a manner to minimize damage and to provide a means of restoring Products and finishes to specified condition.

D. Refinish visible existing surfaces to remain in renovated rooms and spaces, to specified condition for each material, with a neat transition to adjacent finishes.

E. Where new Work abuts or aligns with existing, perform a smooth and even transition. Patched Work to match existing adjacent Work in texture and appearance.

F. When finished surfaces are cut so that a smooth transition with new work is not possible, terminate existing surface along a straight line at a natural line of division and make recommendation for Project Manager review and approval.

G. Where a change of plane of 1/8 inch or more occurs, submit recommendation for acceptable transition for Project Manager review and approval.

H. Patch or replace portions of existing surfaces which are damaged, lifted, discolored, or showing other imperfections.

I. Finish surfaces as specified in individual Product Sections.

PART 3. EXECUTION (NOT USED)

END OF SECTION

PROJECT MEETINGS

PART 1. GENERAL

1.01 DESCRIPTION

A. Work Included:

1. In general, project meetings will be held weekly at the job site in accordance with a mutually acceptable schedule. The Project Manager will conduct project meetings throughout the construction period.
2. The purpose of the project meetings is to enable orderly review of progress during construction and to provide for systematic discussion and analysis of problems that might arise between the Owner, Project Architect, Project Manager and/or Contractor relative to execution of the work.

B. Related Work described elsewhere:

1. The Contractor’s relations with his subcontractors and material suppliers, and discussions relative thereto, are the Contractor's responsibility as described in the General Conditions and are not part of project meetings content.
2. Section 01400 describes the requirements for quality control meetings that will be held in addition to the requirements of this section.

1.02 AUTHORITY DESIGNATION

A. Persons designated by the Contractor to attend and participate in project meetings shall have all required authority to commit the Contractor to solutions as agreed upon in the project meetings.

1.03 SUBMITTALS

A. Agenda Items:

To the maximum extent possible, advise the Project Manager forty-eight (48) hours in advance of the project meeting regarding all agenda items to be discussed, including tours in advance of the meeting.

1.04 AGENDA

A. Preconstruction Meeting

1. The Project Manager will conduct this meeting within fifteen (15) days after date of Notice to Proceed.
2. Location:

   Anchorage School District
   Capital Planning & Construction
   1301 Labar Street
   Anchorage, Alaska 99515
   (907) 348-5190

3. Attendance:

   a. ASD Construction Supervisor
   b. ASD Project Manager
   c. Architect and his Professional Consultants

d. Contractor's Project Manager and Superintendent
e. Major Subcontractors, as appropriate
f. Major Suppliers, as appropriate
g. Others as appropriate

4. Agenda items will include, but not be limited to:

a. Designation of responsible personnel
b. Distribution (by Contractor) and discussion of list of major Subcontractors and Suppliers with addresses and telephone numbers
c. Project coordination
d. Procedures and processing of:

(1) Field decisions
(2) Submittals
(3) Proposal requests
(4) RFI's Change Orders
(5) Applications for Payment
(6) Schedules and Reports

e. Discussion of initial Project Schedule
f. Critical work sequencing
g. Major equipment deliveries and priorities
h. Adequacy of Contract Documents distribution
i. Procedures for maintaining Record Documents
j. Use of premises:

(1) Office, work, and storage area
(2) Owner's requirements

k. Construction facilities, controls, and construction aids
l. Temporary utilities
m. Safety and first-aid procedures
n. Security procedures
o. Housekeeping procedures

B. Progress Meetings:

1. The Project Manager will conduct weekly meetings as required, at the Project Site to coordinate the work, answer questions, and resolve problems.
2. Meeting Agenda will include but not be limited to:

a. Attendees:
List of attendees and company they represent
b. Minutes Review:
Corrections, additions, and/or deletions to previous minutes
c. Outstanding Action Items:
Review of items not resolved from previous meeting
d. Submittal status
e. Request for Information status
f. Request for Proposal Status
g. Schedule Review:
h. Project job concerns
i. Next meeting
j. Summarize and Review of all Action Items:

3. All items to be discussed shall be addressed at the time scheduled on the agenda. All attendees shall familiarize themselves with the agenda and be prepared in advance with their items for discussion.

C. Special Meetings:

The Project Manager may call special meetings at the project site or the office of the Project Manager to coordinate the work, answer questions, and resolve problems.

1.05 MINUTES

A. The Project Manager will compile minutes of each project meeting and will distribute copies to all interested parties within seven (7) calendar days after the meeting. Items in the minutes shall be numbered consecutively and grouped under divisions and sections. Each item shall be carried forward until resolved.

B. The minutes compiled by the Project Manager will be the official record minutes and all clarifications and/or corrections shall be transmitted in writing to the Project Manager within fourteen (14) days of date of receipt of the minutes or unless noted during the next scheduled meeting under the appropriate agenda item. Transmitted corrections shall be legibly submitted on company letterhead.

C. At least one (1) bound volume of all minutes shall be maintained by the Contractor in the job office until project completion.

PART 2. PRODUCTS (NOT USED)

PART 3. EXECUTION (NOT USED)

END OF SECTION

SUBMITTALS

PART 1. GENERAL

1.01 REQUIREMENTS INCLUDED

A. Procedures

B. Construction Progress Schedules

C. Schedule of Values

D. Shop Drawings

E. Product Data

F. Samples

G. Manufacturer’s Instructions

H. Manufacturer’s Certificates

1.02 RELATED REQUIREMENTS

A. Section 01010 - Summary of Work

B. Section 01311 - Project Schedule

C. Section 01340 - Shop Drawings, Product Data and Samples

D. Section 01370 - Schedule of Values

E. Section 01400 - Quality Control

F. Section 01630 - Substitution and Product Options

G. Section 01700 - Project Close Out

H. Section 01710 - Cleaning

I. Section 01720 - Project Record Documents

J. Section 01730 - Operation and Maintenance Data

K. Section 01750 - Closeout Forms

1.03 PROCEDURES

A. Deliver submittal documents to the Project Manager using the ASD Procore Construction Management Program. Number each submittal with the section number, dash, numerical order of the submittal, example 03300-1. Add an alpha to each resubmittal, example, 03300-1A. Deliver samples to the Project Manager or Architect as directed to the address listed on the cover of the project manual.

B. Transmit each item with company submittal. Identify Project, Contractor, subcontractor, major supplier; identify pertinent Drawing sheet and detail number and specification section number, as appropriate. Identify deviations from Contract Documents. Provide space for Contractor and Architect/Engineer review stamps.

C. Submit initial progress schedules and schedule of values in duplicate prior to issuance of Notice to Proceed. After review by the Architect/Engineer, revise and resubmit as required. Submit revised schedules with each application for payment, reflecting changes since previous submittal.

D. Comply with progress schedule for submittals related to work progress. Coordinate submittal of related items.

E. Distribute copies of reviewed submittals to concerned persons. Instruct recipients to promptly report any inability to comply with provisions. Review with subconsultants/suppliers any inability to meet requirements of project. Find solutions with subconsultants/suppliers making conformance with documents possible. Review solutions with owner and architect for acceptance prior to proceeding with work.

1.04 CONSTRUCTION PROGRESS SCHEDULES

A. Submit Project Schedule as called for in Section 01311, Project Schedule.

1.05 SCHEDULE OF VALUES

A. Submit Schedule of Values as called for in Section 01370, Schedule of Values.

1.06 SHOP DRAWINGS, PRODUCT DATA & SAMPLES

A. Submit in the form as called for in Section 01340.

1.07 MANUFACTURERS' INSTRUCTIONS

A. When required in individual specification section, submit manufacturers printed instructions for delivery, storage, assembly, installation adjusting and finishing, in quantities specified for product data.

1.08 FIELD SAMPLES

A. Provide field samples of finishes at project site as required by individual specification sections. Install sample complete and finishes. Acceptable samples in place may be retained in completed work.

PART 2. PRODUCTS (NOT USED)

PART 3. EXECUTION (NOT USED)

END OF SECTION

PROJECT SCHEDULE

PART 1. GENERAL

1.01 GENERAL REQUIREMENTS

A. The work under this Section consists of Project Schedule ("Schedule") requirements including the preparation of a Schedule and Schedule Revisions. The Schedule shall be developed by the Contractor and shall be in accordance with the requirements of this Section 01311. No direct payment will be made to the Contractor for performing and complying with the requirements of this Section 01311.

B. The Schedule will be prepared by the Contractor for this Project and made available to the Owner. It is intended that the Schedule will reflect the Contractor's actual construction plan. The existence of schedules, networks, vector charts or any other charts or services, shall in no way relieve the Contractor of the responsibility of the Contract Document including, but not limited to the responsibility of completing the Work within the contract time and the responsibility of planning, scheduling and coordinating the Work.

C. The Schedule shall be in the form of a bar chart or other format approved by the project manager.

1.02 REFERENCES

A. Associated General Contractors of America, "Construction Planning & Scheduling," Copyright January 1994 (AGC's Manual), also referred to as AGC Publication No. 1107.1. The general principles stated in the AGC's Manual shall be used in preparing and updating the Project Schedule, except that the requirements of this Section shall govern.

B. Related Requirements:

1. Section 00700 and 00800 - General Conditions and Supplementary General Conditions of the Contract for Construction
2. Section 00200 - Project Schedule Milestones Dates
3. Section 01370 - Schedule of Values

PART 2. PRODUCTS

2.01 PROJECT SCHEDULE

A. Within fourteen (14) calendar days following the Notice to Proceed, the Contractor shall submit for the Project Manager's review, comment and acceptance, a Project Schedule ("Schedule"). The Schedule shall show the activities of work in sufficient detail to demonstrate that the Contractor has a reasonable and workable plan to complete the Project in accordance with the Project Schedule Milestone Dates set forth under Section 00200 of the Contract Documents. The Contractor shall submit two (2) prints of the Schedule, which shall be neatly organized and time scaled from left to right on 11 in. x 17 in. sheets, or 24 in. x 36 in. sheets, at the Contractor's discretion.

B. Within five (5) calendar days of receipt of the Schedule, the Project Manager shall meet face to face with the Contractor to review the plan and to determine if there are any concerns regarding the Contractor's plan to execute the work. If a resubmittal of the Schedule is required by the Project Manager, the Contractor shall revise and resubmit the Schedule incorporating the Project Manager's comments within seven (7) calendar days after this review meeting. Progress payments will be withheld until the Contractor submits

an approvable Schedule.

C. Revisions to the Schedule shall be done in accordance with paragraph 2.02.

2.02 PROJECT SCHEDULE REVISIONS

A. Should the Contractor, after acceptance of the Schedule, desire to change his plan of construction, he shall submit his proposed revisions to the Project Manager, along with a written rationale for the revisions. Only the requested changes accepted by the Project Manager will be incorporated into the Schedule in the next reporting period.

2.03 TIME IMPACT ANALYSIS FOR CONTRACT MODIFICATIONS, CHANGES OR DELAYS

A. If the Contractor believes that a change under Article 12 Paragraph 12.1 causes an increase or decrease in the Contractor's time for completing the Work, he shall complete a Time Impact Analysis that demonstrates how the Contractor proposes to incorporate or has incorporated the Change into the Schedule and the time impact, if any, on the Schedule Milestone Dates set forth under Section 00200 of the Contract Documents.

1. The Time Impact Analysis shall demonstrate the time impact based upon the date the Change in Work is directed by the Project Manager; the status of construction at that point in time; and the event time computations of all affected activities. The event times used in the Time Impact Analysis shall be those set forth in the update of the Schedule in effect at the time the Change in Work is directed by the Project Manager.
2. The Time Impact Analysis is based on an "as-planned" to "as-built" comparison of the event times. In developing an as-built schedule of performance, the Contractor shall utilize actual daily performance data from Schedule Updates and the Contractor's daily construction reports to graphically depict the sequence and manner in which the Contractor actually performed the Work under the Contract.

B. Activity delays shall not automatically mean that an extension of the Contract Time is warranted or due the Contractor. It is possible that a modification, change or delay will not affect projected or as-built critical activities or cause non-critical activities to become critical. A modification, change or delay may result in only absorbing a portion of the available total float that may exist within an activity chain of the Schedule, thereby not causing any effect on the Contract Time.

C. Each Time Impact Analysis shall be submitted as follows:

1. Within fourteen (14) calendar days after receipt of a written order designated or indicated to be a change in accordance with Article 12, Changes in the Work;
2. Within fourteen (14) calendar days after the furnishing of written notice by the Contractor;
3. Within fourteen (14) calendar days from the commencement of a delay related to unforeseeable conditions; provided the Contractor complies with the requirements of the Contract Documents regarding said condition.

D. In cases where the Contractor does not submit a written request for extension of time and Time Impact Analysis within the time stated above in Paragraph 2.03, it is mutually agreed that the Change in the Work does not require an extension of the Contract Time.

E. Acceptance or rejection of each Time Impact Analysis which requests an extension of the Contract Time shall be made by the Project Manager within fourteen (14) calendar days after receipt of each Time Impact Analysis, unless subsequent meetings and negotiations

are necessary. Upon acceptance, the Time Impact Analysis shall be incorporated into the Schedule.

F. Time Impact Analysis related to requests for an extension of the Contract Time and/or Change Order work shall be incorporated into and attached to the applicable Change Order(s).

G. No revision to any Schedule Milestone Date or contractually mandated schedule provisions will be permitted without authorization from the Project Manager.

2.04 COMPLIANCE WITH THE SCHEDULE

A. The Contractor shall furnish sufficient labor and equipment resources, offices, and facilities, and shall work such hours, including night shift and overtime operations as necessary, to ensure the prosecution of the Work in accordance with the Schedule. If the Contractor falls behind in meeting the Schedule, the Contractor shall take such steps as may be necessary to improve its progress. If the Contractor fails to take such steps, the Project Manager may require the Contractor to increase the hours of work, the number of shifts, overtime operations, the number of workers and/or the amount of construction plant and equipment without additional cost to the Owner. The provisions of this subsection shall not be construed as prohibiting work on Saturdays, Sundays, and holidays, if the Contractor so elects and gives 24 hours' notice to the Project Manager.

B. Failure of the Contractor to comply with the requirements of this Subsection 2.04 shall be a basis for determination by the Project Manager that the Contractor is not prosecuting the Work with such diligence as will ensure completion of the Work in accordance with the requirements of the Contract Documents. Upon such determination, the Project Manager may terminate the Contractor's right to proceed with the Work or any separable part thereof, in accordance with the clause entitled "Termination of Contract" of the Contract Documents, or may take such other actions as he may deem appropriate.

PART 3. EXECUTION (NOT USED)

END OF SECTION

SHOP DRAWINGS, PRODUCT DATA AND SAMPLES

PART 1. GENERAL

1.01 RELATED DOCUMENTS

A. Drawings and general provisions of the Contract, including General and Supplementary Conditions and other Division 1 Specification Sections, apply to this Section.

1.02 DESCRIPTION

A. Prepare and submit to the Project Manager with the Construction Schedule, a separate schedule listing dates for submission and of review for shop drawings, product data, and samples, refer to General Conditions 4.12.13.1. Include installing Subcontractors name responsible for that portion of the Work

B. Submit Shop Drawings, Product Data, and Samples as may be required, whether mentioned specifically in Contract Documents or not.

C. Individual submittals shall not include material covering more than one section of the specifications.

D. Products fabricated and/or installed prior to approval of submittals are subject to demand for removal and replacement with approved products by the Contractor at no additional cost to the Owner.

E. Shop drawing submittal cannot be used for product substitution submittal. See Section 01630 for required procedure.

1.03 RELATED REQUIREMENTS

A. Section 01311: Project Schedule

B. Section 01630: Substitution and Product Options

C. Section 01720: Project Record Documents

1.04 SHOP DRAWINGS

A. Prepare original drawings (by Contractor, subcontractor, manufacturer, supplier, or distributor), which illustrate some portion of the work; showing fabrication, layout, setting or erection details.

B. Prepare shop drawings for this particular project. Drawings prepared for other projects and revised for this project will be rejected.

C. When necessary, base shop and setting drawings upon actual measurements taken at site and other job conditions. Show any variations and revisions to Contract Documents that are necessary for proper installation of work. Fabrication or installation of work shall not be started until shop or setting drawings have been reviewed and returned by Architect, with his stamp and comments.

D. Identify details by reference to sheet and detail, schedule or room numbers shown on Contract Drawings.

E. Minimum sheet size: 8 ½" x 11". Note: Submit fill-size sheet submittals. Use of 8 ½ " x 11" format subject to readability and approval of architect.

1.05 PRODUCT DATA

A. Manufacturer's standard schematic drawings:

1. Modify drawings to delete information which is not applicable to project.
2. Supplement standard information to provide additional information applicable to project.

B. Manufacturer's catalog sheets, brochures, diagrams, schedules, performance charts, illustrations, and other standard descriptive data.

1. Clearly mark each copy and identify pertinent materials, products or models.
2. Show dimensions and clearances required.
3. Show performance characteristics and capacities.
4. Show wiring diagrams and controls.
5. Catalog cuts and descriptive data sheets shall include a complete listing of repair and replacement parts for all equipment and the name and address of a source of supply for parts and service.

1.06 SAMPLES

A. Physical examples to illustrate materials, equipment or workmanship and to establish standards by which completed work is judged.

B. Office Samples: Of sufficient size and quantity to clearly illustrate:

1. Functional characteristics of product or material, with integrally related parts and attachment devices.
2. Full range of color, texture and pattern.

C. Field Samples and Mock-Ups:

1. Erect at project site at location acceptable to Project Manager.
2. Construct each sample or mock-up complete, including work of all trades required in finished work.
3. After review, samples may be used in construction of Project.

1.07 SUBMITTAL REQUIREMENTS

A. Make all submittals far enough in advance of scheduled dates for installation to provide all required time for review, for securing necessary approvals, for possible revision and resubmittals and for placing orders and securing delivery. Submission of all shop drawings shall be through the General Contractor.

B. The contractor shall allow at least 14 days for review of original submittals or resubmittals except as follows:

1. Structural steel shop drawings shall be broken down into separate submittal packages for most efficient review and delivered at least two weeks apart.
2. Division 22

a. Plumbing shop drawings - 21 days
b. Coordination shop drawings - 21 days

3. Division 26
    a. Special Systems shop drawings - 21 days

C. Submit one (1) reproducible unfolded transparency print of shop drawing. Upon Architects approval, Contractor shall provide five (5) opaque prints for owners use. Transparency will be returned to Contractor for printing and distribution as needed. Additional copies will be returned without review or mark-ups.

D. Submit four (4) each of samples.

E. Unless otherwise specifically permitted by the Project Manager, make all submittals in groups containing all associated items. Partial submittals may be rejected.

F. Accompany submittals with transmittal letter, in duplicate, containing:

1. Date
2. Project Title and number
3. Contractor's name and address
4. The number of each shop drawing, product data and sample submitted

G. Submittals shall include:

1. Date and revision dates
2. Project title and number
3. The name of:
    a. Architect
    b. Contractor
    c. Subcontractor
    d. Supplier
    e. Manufacturer
    f. Separate detailer when pertinent
4. Identification of product or material
5. Relation to adjacent structure or materials
6. Field dimensions, clearly identified as such
7. Specification section number
8. Applicable standards, such as ASTM number or Federal Specifications.
9. A blank space, for Architect’s review stamp

1.08 CONTRACTOR RESPONSIBILITIES

A. Review shop drawings, product data, and samples prior to submission.

B. Include noted and required corrections and indicate by stamp and signature that submittal is acceptable to Contractor. Submittals without stamp and signature will be rejected.

C. Verify:

1. Field measurements.
2. Field Construction criteria.
3. Conformance with specifications.

D. Coordinate each submittal with requirements of work and Contract Documents.

E. Contractor’s responsibility for errors and omissions in submittals is not relieved by Architect's review and approval.

F. Contractor’s deviations in submittal requirements shall not relieve Contractor from

completing Contract requirements.

G. The submittal documents shall be transmitted using the ASD Procore Construction Management Program. Number the submittals with the CSI Section then a dash then the numerical order (01650-1). Resubmittals shall have the same number with an alpha at the end. (01650-1A).

H. Contractor shall update the Procore Submittal Log on a weekly basis until Submittal Process is complete.

1.09 RESUBMITTAL REQUIREMENTS

A. Revise initial drawings as required and resubmit as specified for initial submittal.

B. Indicate on drawings any changes which have been made other than those requested by the Architect.

C. Project data and samples: Submit new data and samples as required for initial submittal.

1.10 ARCHITECT'S DUTIES

A. Review submittals with a turn-around time for review of original or resubmittal of no more than fourteen (14) calendar days, except as indicated in paragraph 1.07 B above.

B. The review will be for conformance to the design concept and compliance with information given in the Contract Document. The Architect will make notations directly on the reproducible.

C. The review is intended to foresee unacceptable products to avoid the possibility of their rejection at the site. The review shall not be construed as:

1. Permitting a departure from the Contract Documents, unless specifically so noted.
2. Relieving the Contractor of the responsibility for errors or omissions.
3. Acceptance of an assembly in which an approved item is a part.
4. Approval of variations from previously approved items.
5. Approval of dimensions.

D. The Architect will review all samples. Such review will be for appearance only. Compliance with all other requirements is the responsibility of the Contractor.

E. Affix stamps and initials or signatures certifying the review of submittal.

F. Where the Contract Documents require the design of the structural, mechanical, or electrical systems or components of systems by a supplier, such systems or components shall be designed by a registered professional engineer and all calculations submitted to the Architect for his records, prior to starting fabrication or installation of the work. The Architect will not be responsible for the designs of such other Professionals.

1.11 VARIATIONS FROM CONTRACT DOCUMENTS

A. See Section 01630 for procedure.

B. If the Contractor fails to mention variations from the Contract Documents, he will not be relieved of the responsibility for executing the work in accordance with the Contract Documents.

1.12 SUBMITTALS FOR COLOR SELECTION

A. The Contractor shall take particular note that color selections cannot be made for the project until such time as all items requiring color selection have been submitted. After such submittal has been made, the Architect with Owner's concurrence will within fourteen (14) days, make a complete color selection for the entire project.

B. It will be the contractor's responsibility to review the Contract Documents completely to determine items requiring color selection, obtain color samples from the manufacturer and submit to the Architect at the earliest possible date.

1.13 DISTRIBUTION OF SUBMITTALS AFTER REVIEW

A. Contractor shall distribute copies of shop drawings and product data which carry Architect's stamp, to:

1. Contractor's file (required)
2. Job-site file (required)
3. Record Documents file (required)
4. Other prime Contractors (as required)
5. Subcontractors (as required)
6. Supplier (as required)
7. Fabricator (as required)
8. Others (as required)

PART 2. PRODUCTS (NOT USED)

PART 3. EXECUTION (NOT USED)

END OF SECTION

AIRBORNE CONTAMINANT CONTROL

PART 1. GENERAL

1.01 SUMMARY:

A. Related sections:

1. Section 02 41 00 Demolition

B. Notification of Potential Hazards: Asbestos, lead and other potentially hazardous materials are present in the building that may impact the work of all trades. Regulated air contaminants, including asbestos and lead, are also present in settled and concealed dust in and on architectural, structural, mechanical and electrical components or systems throughout the building. All trades shall coordinate with other trades and conduct their work to prevent worker exposure or site contamination. Refer to Specification Divisions 0, 1 and 2 for specific information concerning disturbing, removing and disposing of these materials and the installation of new materials or components. This notification is provided in accordance with EPA and OSHA requirements.

1.02 DEFINITIONS:

A. “Airborne Contaminants” are those contaminants listed in 29 CFR 1926.55 and 8 AAC 61.1100 that have the potential to become airborne due to various work activities being performed by the Contractor. Additionally, airborne contaminants include those fumes and odors that may be objectionable to personnel in Occupied Areas of the facility even though they are not listed in the reference regulations. Airborne contaminants may be broadly categorized as Pre-Existing or Activity Generated. Contaminant producing activities include, but are not limited to:

1. Demolition, removal, installation and disposal of walls, floors, ceilings, steel, and other architectural or structural materials.
2. Disturbance or removal of existing settled and concealed dusts.
3. Demolition, relocation, installation and disposal of plumbing, mechanical and electrical systems and equipment.
4. Finish operations such as sanding, preparation, painting, and application of special surface coatings.
5. Any construction activity, which can generate aerosols, dust, smoke, or fumes.
6. Temporary heat sources.
7. Other on-site work operations not described above.

B. “Pre-Existing Contaminants” are those contaminants that are present in the facility prior to the start of any work. These contaminants, including asbestos and lead, are also present in settled and concealed dust throughout the building in areas not subject to routine cleaning, including the roof and inside and on top of architectural, mechanical, electrical and structural elements. The dust generally contains several common components including, but not limited to asbestos, cellulose, cotton, fiberglass, lead, silica and other Particulates Not Otherwise Regulated. Representative dusts throughout the facility have been examined and previously sampled by an EPA Certified Building Inspector and determined not to be “asbestos debris” from adjacent “Asbestos-Containing Building Materials” (ACBM). Based on similar sampling from similar buildings, the inspector also determined that the dusts do not contain more than one percent (1%) asbestos by weight, and therefore are not an asbestos-containing material (ACM). Reference 40 CFR 763.83 for asbestos, and 29 CFR 1926.1153 for silica.

C. “Activity Generated Contaminants” are those contaminants generated by the various demolition or construction related activities of the Contractor. Examples of typical Activity Generated Contaminants include wood dust (cellulose), cement dust (silica), gypsum dust

(particulates not otherwise regulated), paint fumes, and welding fumes. A complete list of regulated air contaminants is available in 29 CFR 1926.55 and 8 AAC 61.1100.

D. "Work Areas": Areas of demolition, renovation, construction, adjacent staging and storage areas, and passage areas for workers, supplies, and waste. This may include but is not limited to attic spaces, spaces above ceilings, crawl spaces, mechanical and electrical spaces, confined spaces and other spaces not normally accessed or occupied.

E. "Occupied Areas": Areas as determined by Owner's Representative and as shown on contract drawings. Typically these include areas adjacent to Work Areas or containment areas, either occupied or used for passage, as well as areas connected to construction area by mechanical system air intake, exhaust, and ductwork. Contaminant control procedures may be relaxed during periods when school is not in session as allowed by the Contractor's approved work plan.

F. "Critical Clean Areas": Areas inside or outside the Work Area with equipment or occupants that cannot tolerate airborne contamination, and are to be maintained under positive pressure by High-Efficiency, Particulate, Air (HEPA) filtered equipment relative to the surrounding air. These areas will be described or shown in contract documents or drawings.

G. "Contractor" is defined to include all trades and all subcontractors performing work on the work site.

H. "Negative Initial Determination" is a determination made either through air monitoring or other objective data that indicates worker exposure to regulated airborne contaminants are below or expected to be below the regulated limits.

1.03 AIRBORNE CONTAMINANT CONTROL

A. There is no requirement to remove Pre-Existing Contaminants from the facility. The Contractor may remove Pre-Existing Contaminants from their work areas if they determine that to be a more cost effective means of completing the work.

B. The Contractors shall establish and maintain control over the generation and containment of all potential airborne contaminants so that workers, facilities, students, staff, educational programs, equipment, and operations are not adversely affected, including adverse effects on air monitoring. Construction activities that disturb existing materials or create airborne contaminants must be conducted in Work Areas specifically constructed, ventilated, and/or equipped to prevent the movement of contaminants into Occupied or Critical Clean Areas.

C. The Contractor shall establish and maintain control over Activity Generated Contaminants within the Work Area to prevent abnormally high levels of airborne contaminants from settling on architectural, mechanical, electrical or structural components within the work areas, or interference with monitoring conducted for other work. The Contractor shall be required to clean all surfaces within a work area where abnormally high levels of Activity Generated Contaminants are deposited.

D. The Contractor shall ensure that all workers are aware of the Occupied and Critical Clean Areas, the potential air contaminants present and the means and methods established in the work plan to control those contaminants.

E. The Contractor shall ensure workers have the proper protective equipment needed for the job being performed.

1.04 TRAINING

A. The Contractor shall ensure that all workers/trades performing work on the project site are trained in accordance with OSHA standards for hazard communication (29 CFR 1910.1200) and proper protective equipment (29 CFR 1926), as well as engineering

controls and work methods required to prevent exposure to regulated air contaminants that might be generated or encountered as a result of their work, including 29 CFR 1926.1153.

1.05 RESPONSIBILITY:

A. Owner's Responsibilities

1. The Owner shall identify in contract documents Occupied Areas and Critical Clean Areas prior to allowing the Contractor to begin work. The Contractor shall be notified of all changes to these areas as work progresses.

B. Contractor's Responsibilities:

1. Preparing proposed work plans and procedures for control of airborne contaminants during demolition and construction.
2. Identifying and implementing specific means and methods of achieving and maintaining control of airborne contaminants.
3. Controlling the generation and spread of airborne contaminants from the Contractor's Work Areas.
4. Cleaning and decontaminating all areas contaminated as the result of their operation. The Owner has the right to review and approve of any and all clean-up and decontamination procedures, chemicals, and processes.
5. Notifying Owner's Representative a minimum of 48 hours prior to starting construction activities that might be expected to produce excess levels of airborne contaminants in Work Area so that precautions may be taken.

1.06 SUBMITTALS:

A. Submittals Required: Submit the following documentation to the Owner for approval. The submittal shall be coordinated with all the Contractor's subcontractors and trades and be submitted as one submittal for all work covered by this section. WORK SHALL NOT PROCEED UNTIL THE SUBMITTAL PACKAGE IS APPROVED, AND THE PRE-CONSTRUCTION MEETING HAS BEEN HELD.

1. Shop Drawings: Make all shop drawings accurately and to a scale sufficiently large to show all pertinent features of the work. Shop Drawings shall show:

a. Boundaries of each Work Area, Occupied Areas and Critical Clean Areas.
b. Location of barriers, negative pressure areas, positive pressure areas, and exhaust fan units (if required).
c. Locations of windows, louvers, ducts and other penetrations into Occupied Areas and/or Critical Clean Areas that need to be protected from airborne contamination.
d. Disposal Routes.
e. Locations of contaminant producing operations like painting or sanding which could be moved away from Occupied Areas.

2. Work Plan: The Work Plan shall be prepared for this specific job in the form of checklists and shall include:

a. Work area set-up and protection procedures during occupied times.
b. Work area set-up and protection procedures during periods of limited occupancy (vacation and holidays).
c. Work procedures to minimize generation of airborne contaminants, including a written exposure control plan.
d. Worker protection procedures.
e. Daily cleanup procedures and activities.
f. Procedures to follow if air contaminants enter Occupied or Critical Clean Areas.
g. Exposure assessment procedures if a "negative initial determination" has

not been completed (note that negative initial determinations are not allowed related to silica exposure). A record of "negative initial determinations" shall be maintained by the Contractor and be available on the job site for review by the Owner or regulatory agencies.

3. Safety Data Sheets (SDSs): The Contractor shall maintain on the job site, at a location approved by the owner, SDSs for each encapsulant, surfactant, solvent, detergent, and other material proposed to be used.

B. Monitoring Results: The Contractor shall submit copies of all air monitoring and testing results to the Owner within 24 hours of receipt of results.

1.07 WORKER PROTECTION:

A. The Contractor shall review the SDS's for the substances that will be used, data provided by these specifications, proposed means and methods, manufacturers data and other available data to determine the potential for worker exposure.

B. Conduct air monitoring of worker exposures as necessary to show that workers are not being exposed above the permissible exposure limits established by 29 CFR 1926 and 8 AAC 61.1100 (negative initial determination). Not all contaminants or substances will require exposure monitoring. All sampling by the Contractor shall be at their own cost.

C. In lieu of worker exposure monitoring, the Contractor may rely on objective data from recognized trade groups, manufacturer or previous exposure monitoring data that establish that worker exposure above the permissible exposure limits is not probable under conditions "closely resembling" the processes, types of materials, control methods, work practices and environmental conditions in the current job.

PART 2. PRODUCTS (Not Used)

PART 3. EXECUTION

3.01 WORK PRACTICES:

A. General: All construction/demolition work shall be isolated, either by enclosures, and/or work practices and equipment to prevent worker exposures above the permissible exposure limit(s), and prevent the migration of contaminants (dust, fumes, smoke, etc.) into Occupied Areas and Critical Clean Areas of the facility. Exposures to occupants shall be maintained at least 10 times lower than the permissible exposure limit(s) for airborne contaminants. Conduct disturbance of concrete, brick, stone, mortar, etc. in accordance with 29 CFR 1926.1153 related to crystalline silica. If the Contractor's work practices are not effective in controlling airborne contaminants, as evidenced by dust, fumes, smoke, odors, etc. in Occupied or Critical Clean Areas, the Contractor shall provide a sealed barrier at the perimeter of the work area and exhaust the work area to maintain a negative pressure and/or provide a filtered positive pressure to Critical Clean and Occupied areas to keep airborne contaminants out. Maintain a positive pressure of 0.05 inches of water column relative to the air outside the Critical Clean Areas, with a minimum 100 feet per minute velocity through cracks, openings, etc.

B. Direct exhaust from fume or smoke producing equipment away from building air intakes, windows and other penetrations into Occupied and Critical Clean Areas.

C. The Contractor shall provide "walk-off" mats, at all connections between Work Areas and Occupied Areas, vacuumed or changed daily when there is traffic between the Work Area and the Occupied Areas.

D. Enclosures, where used, shall be dust tight and withstand air pressure.

E. Prohibited Materials: The use or application of the following materials is prohibited:

1. All cleaners and aerosol products not submitted and approved by the Owner.
2. All flammable or chlorinated hydrocarbon solvents, unless approved by the Owner.

F. Any dust or debris tracked outside of Work Areas into Occupied Areas shall be cleaned up immediately. Contractor shall have the necessary manpower and equipment (dust and wet mops, HEPA vacuums, buckets and clean wiping rags) to keep adjacent Occupied Areas clean at all times.

G. Dry Sweeping is prohibited. All vacuums used for cleaning shall be equipped with HEPA filters.

H. Traffic between Work Areas and Occupied Areas shall be kept to a minimum. Keep doors between such areas closed at all times. Transport refuse through Occupied Areas in covered containers.

I. Notify the Owner's Representative immediately of any release of airborne contaminants into Occupied Areas.

3.02 ENFORCEMENT:

A. The Contractor shall periodically inspect Occupied Areas at the perimeter of the work area and Critical Clean Areas to verify that airborne contaminants have not spread into those areas.

B. Failure to properly maintain airborne contaminant control in Work Areas, Occupied or Critical Clean Areas will result in issuance of a written warning. If the problem is not corrected immediately, the Owner will have cause to stop work.

C. Failure of the Contractor to correct deficiencies in controlling airborne contaminants will result in corrective action taken by the Owner and deduction of all costs from the Contract.

3.03 WORK STOPPAGE:

A. The Contractor shall stop work and notify the Owner whenever his work has caused visible dust, smoke, fumes or objectionable odors in Occupied or Critical Clean Areas.

B. When such work stoppage occurs, the area shall be restored to its original condition by the Contractor at no expense to the Owner. The Contractor is responsible for removing dust, fumes and debris that were generated as a result of his work.

3.04 WORK COMPLETION:

A. Provide thorough cleaning of finished surfaces that become exposed to dust or other airborne contaminants. Cleaning of Pre-Existing contaminants is not required.

B. Removal of construction barriers and airborne contaminant control equipment shall be performed in a manner to minimize disturbance of airborne contaminants into occupied spaces. HEPA vacuum and clean all finished surfaces free of dust after the removal of barriers and equipment.

END OF SECTION

SCHEDULE OF VALUES

PART 1. GENERAL

1.01 RELATED DOCUMENTS

A. Drawings and general provisions of the Contract, including General and Supplementary Conditions and other Division 1 Specification Sections, apply to this Section.

1.02 REQUIREMENTS INCLUDED

A. Procedures for preparation and submittal of Schedule of Values.

1.03 RELATED REQUIREMENTS

A. Section 00700 - General Conditions and Section 00800 Supplementary Conditions of the Construction Contract.

B. Section 01311 – Project Schedule.

1.04 FORMAT

A. Schedule of Values shall be submitted on ASD Form 100B.

1.05 CONTENT

A. List installed value of each major item of work and each subcontracted item of work as a separate line item to serve as a basis for computing values for progress payments. Round off values to nearest dollar.

B. For each major subcontract, list products and operations of that subcontract as separate line items.

C. Include work allowances within line item of work.

D. Coordinate listings with progress schedule.

E. Component listings shall each include a directly proportional amount of Contractor’s overhead and profit.

F. For items on which payments will be requested for stored products, list the cost of stored products.

G. The sum of values listed shall equal total contract sum.

H. In addition to the above, values shall be listed for the following close out items.

1. As-builts.
2. O & M Manuals.
3. Warranties.
4. Landscape Maintenance Warranty.
5. Owner Training.
6. Demobilization (If mobilization is itemized).
7. Project close-out must retain a minimum of $25,000.00.

1.06 SUBMITTAL

A. Transmit under transmittal letter. Identify project by title and contract number.

1.07 SUBSTANTIATING DATA

A. When the Project Manager requires substantiating information, submit data justifying line item amounts in question.

B. Provide one copy of data with cover letter for each copy of application. Show application number, date and line item by number and description.

PART 2. PRODUCTS (NOT USED)

PART 3. EXECUTION (NOT USED)

END OF SECTION

CONSTRUCTION PHOTOGRAPHS

PART 1. GENERAL

1.01 REQUIREMENTS INCLUDED

A. Construction Photographs.

B. Submittals.

1.02 RELATED REQUIREMENTS

A. Section 01720 - Project Record Documents

1.03 PHOTOGRAPHY

A. Provide photographs of construction throughout progress of work.

B. Take photographs prior to covering completed work.

C. Take photographs at beginning and completion of elements of construction.

1. Asbestos Abatement process indicating the phases of abatement including:

    a. Existing Conditions
    b. Preparation Prior to Start of Work
    c. Work in Progress
    d. Completed Work
    e. Equipment used for Abatement Processes

2. Roof demolition

    a. Repairs
    b. Documentation of interim building protection measures
    c. Work in Progress
    d. Completed work
    e. Include roof designation and locations

3. Air infiltration and/or vapor barrier installation
4. Insulation installation
5. Final completion.

D. The Contractor, on a daily basis, shall photograph the demolition and abatement process. For their own use and distribution, the Project Manager shall on a regular basis, direct photographs and/or video recordings of construction operations and work in progress.

1.04 IMAGES

A. Digital images to be uploaded to the ASD Procore Construction Management Program Project Folder daily.

B. Photo file name to include location, item photographed and orientation of view.

1.05 TECHNIQUE

A. Provide factual presentation.

B. Provide correct exposure and focus, high resolution and sharpness, maximum depth of field and minimum distortion.

C. The Contractor shall furnish access, labor and facilities to assist photographer(s). Photographs shall be taken with a Digital type camera with flash attachment in working order.

1. Furnish the Project Manager with a quantity equal to minimum ten (10) photographs per work area per day ISO appropriate to lighting conditions.

1.06 VIEWS

A. Consult with Project Manager for instructions on views required.

B. Locations of photos. It is preferred to have similar angles and locations of existing conditions, in progress and complete photos.

1.07 SUBMITTALS

A. All photos to be loaded in Procore and labelled.

PART 2. PRODUCTS (NOT USED)

PART 3. EXECUTION (NOT USED)

END OF SECTION

QUALITY CONTROL

PART 1. GENERAL

1.01 RELATED REQUIREMENTS

A. Section 00700 - General Conditions to the Construction Contract and Section 00800 – Supplementary Conditions to the Construction Contract.

B. Section 01090 - Referenced Specifications and Standards.

C. Section 01300 - Submittals.

D. Section 01410 - Testing Laboratory Services.

E. Section 01420 - Special Inspections

1.02 GENERAL REQUIREMENTS

A. The contractor is responsible for quality control and shall establish and maintain an effective quality control system in compliance with this section. The quality control system shall consist of plans, procedures, and organization necessary to produce an end product which complies with the contract requirements. The system shall cover all construction operations, both onsite and offsite, and shall be keyed to the proposed construction sequence.

1.03 QUALITY CONTROL PLAN

A. The Contractor shall furnish for review by the Owner, not later than 30 days after receipt of notice to proceed, the Contractor Quality Control (CQC) Plan proposed to implement the requirements of this section. The plan shall identify personnel, procedures, control, instructions, tests, records, and forms to be used.

1. Content of the CQC Plan: The CQC Plan shall include, as a minimum, the following to cover all construction operations, both onsite and offsite, including work by subcontractors, fabricators, suppliers, and purchasing agents:

   a. A description of the quality control organization, including the name, qualifications (in resume format), duties, responsibilities, and authorities of each person assigned a CQC function, including the person assigned responsibility of CQC manager.
   b. Control, verification, and acceptance testing procedures for each specific test to include the test name, specification paragraph requiring test, feature of work to be tested, test frequency, and person responsible for each test. (Laboratory facilities will be approved by the Owner.)
   c. Procedures for tracking preparatory and follow-up control phases, verification, and acceptance tests, including documentation.
   d. Procedures for tracking construction deficiencies from identification through acceptable corrective action. These procedures shall establish verification that identified deficiencies have been corrected.
   e. Reporting procedures, including proposed reporting formats.
   f. A list of the definable features of work. A definable feature of work is a task which is separate and distinct from other tasks, has separate control requirements, and may be identified by different trades or disciplines, or it may be work by the same trade in a different environment. Although each

section of the specifications may generally be considered as a definable feature of work, there are frequently more than one definable features under a particular section.

2. Acceptance of Plan: Acceptance of the Contractor's plan is required prior to the start of construction. Acceptance is conditional and will be predicated on satisfactory performance during the construction. The Owner reserves the right to require the Contractor to make changes in the CQC Plan and operations including removal of personnel, as necessary, to obtain the quality specified.

3. Notification of Changes: After acceptance of the CQC Plan, the Contractor shall notify the Owner in writing of any proposed change. Proposed changes are subject to acceptance.

1.04 COORDINATION MEETING

A. After the Preconstruction Conference and before start of construction, the Contractor shall meet with the Project Manager to discuss the Contractor's quality control system. The CQC Plan shall be submitted for review a minimum of 15 calendar days prior to the Coordination Meeting. During the meeting, a mutual understanding of the system details shall be developed, including the forms for recording the CQC operations, control activities, testing, administration of the system for both onsite and offsite work, and the interrelationship with the Owner's special inspection personnel. Minutes of the meeting shall be prepared by the Contractor and signed by both the Contractor and the Project Manager.

1.05 QUALITY CONTROL ORGANIZATION

A. CQC Manager: The Contractor shall identify as CQC Manager an individual within the onsite work organization who shall be responsible for overall management of CQC and have the authority to act in all CQC matters for the Contractor. The CQC Manager shall be a person with a minimum of ten (10) years' experience in construction with a minimum of three (3) years' experience in Quality Control Management or Construction Inspection, preferably with some formal Quality Control training. This CQC Manager shall be on the site at all times during construction and shall be employed by the prime Contractor.

B. CQC Personnel: In addition to CQC personnel specified elsewhere in the contract, the Contractor shall provide as part of the CQC organization specialized personnel to assist the CQC Manager for the following areas: electrical, mechanical, structural, and architectural. Each of these individuals must have either an engineering degree in their respective field and two years of experience or five (5) years of related experience. These individuals are to be responsible to the CQC Manager; be physically present at the construction site during work on their areas of responsibility; have the necessary education and/or experience in accordance with this section. These individuals may perform other duties but must be allowed sufficient time to perform their assigned quality control duties as described in the Quality Control Plan.

C. ASD CQC Testing Requirements: See Attachment 1 below.

ASD CQC TESTING REQUIREMENTS Attachment 1

MATERIAL TESTED	CHARACTERISTIC TESTED	SAMPLE FREQUENCY	SAMPLING POINT	REPORT DUE
CLASSIFIED FILL MATERIAL AND BACKFILL (TYPE II, TYPE IIA, BLENDED, ETC.)	GRADATION	1 PER SOIL TYPE AND NOTABLE CHANGE IN CHARACTERISTICS	PRIOR TO PLACEMENT	BEFORE USE ON PROJECT
	MOISTURE DENSITY (PROCTOR)			
	COMPACTION/DENSITY	STRUCTURAL = 1 PER LIFT & PER 500 S.F. TRENCHES = 1 PER LIFT & PER 150 L.F. FLATWORK = 1 PER LIFT & PER 5000 S.F.	IN PLACE	PRIOR TO NEXT LIFT
LEVELING COURSE (D-1, RAP, ETC.)	GRADATION	1 PER SOIL TYPE AND NOTABLE CHANGE IN CHARACTERISTICS	PRIOR TO PLACEMENT	BEFORE USE ON PROJECT
	MOISTURE DENSITY (PROCTOR)			
	COMPACTION/DENSITY	FLATWORK = 1 PER LIFT & PER 5000 S.F.	IN PLACE	PRIOR TO NEXT LIFT
STRUCTURAL IN-SITU BASE OF EXCAVATION (BOTTOM OF HOLE)	GRADATION	1 PER IN-SITU STRUCTURAL BOTTOM OF HOLE AND NOTABLE CHANGE IN CHARACTERISTICS	PRIOR TO PLACEMENT	BEFORE BUILDING UPON
	MOISTURE DENSITY (PROCTOR)			
	COMPACTION/DENSITY	BASE OF EX. = 1 PER FOUNDATION AREA	IN PLACE	BEFORE BUILDING UPON
STRUCTURAL CONCRETE	SAMPLING	1 MINIMUM PER PLACEMENT, PER DAY (1-25 C.Y.), 1 EVERY 50 C.Y. THEREAFTER. 1 AFTER EACH ADDITION OF ADMIXTURE OR WATER (SLUMP AND AIR ONLY AFTER ADDING ONLY WATER)	POINT OF PLACEMENT (NOT @ TRUCK)	REPORT-24 HRS VERBAL-TIME OF TEST
	SLUMP			
	AIR CONTENT			
	TEMPERATURE			
	COMP. STRENGTH			7 & 28 DAYS
ARCHITECTURAL & CIVIL CONCRETE	SAMPLING	1 MINIMUM PER PLACEMENT, PER DAY (1-25 C.Y.), 1 EVERY 100 C.Y. THEREAFTER.	POINT OF PLACEMENT OR TRUCK CHUTE	REPORT-24 HRS VERBAL-TIME OF TEST
	SLUMP			
	AIR CONTENT			
	TEMPERATURE			
	COMP. STRENGTH			7 & 28 DAYS
STRUCTURAL GROUT (BASEPLATES, CMU, ETC.)	SAMPLING	1 PER PLACEMENT, PER DAY	BATCH POINT (ENSURE BATCH CONFORMS TO MFR SPECS)	REPORT-24 HRS VERBAL-TIME OF TEST
	SLUMP			
	AIR CONTENT			
	TEMPERATURE			
	COMP. STRENGTH			7 & 28 DAYS

MATERIAL TESTED	CHARACTERISTIC TESTED	SAMPLE FREQUENCY	SAMPLING POINT	REPORT DUE
AC PAVING	GRADATION	1 PER PLACEMENT, PER DAY AND EVERY 700 TONS THEREAFTER.	BEHIND PAVER & PRIOR TO COMPACTION	REPORT-24 HRS VERBAL-TIME OF TEST OR OBSERVATION
	CONTENT			
	COMPACTION/DENSITY	1 PER 5000 S.F.	AFTER FINAL ROLL	
	VISUAL	OBSERVE & DOCUMENT DEPTH, AGGREGATE SIZE, VOIDS IN AGGREGATE, OIL POOLING, ETC. VERIFY BATCH TICKET MIX DESIGN & PROJECT	DURING PLACEMENT	
CONTRACTOR IS RESPONSIBLE FOR ALL COSTS INCURRED FOR RETESTS, REINSPECTIONS, REPLACEMENT OF NON-CONFORMING PRODUCTS. OWNER EMPLOYED SPECIAL INSPECTION VERIFICATION AND TESTING IS IN ADDITION TO THE CONTRACTOR'S QUALITY CONTROL TESTING. SPECIAL INSPECTION IN NO WAY DIMINISHES OR REDUCES THE CONTRACTOR'S QUALITY CONTROL OBLIGATIONS.				

1.06 CONTROL

A. Contractor Quality Control is the means by which the Contractor ensures that the construction, to include that of subcontractors and suppliers, complies with the requirements of the contract. At least two phases of control shall be conducted by the CQC Manager for each definable feature of work as follows:

1. Preparatory Phase: This phase shall be performed prior to beginning work on each definable feature of work, after all required plans/documents/materials are approved, and after copies are at the work site. This phase shall include:

a. A review of each paragraph of applicable specifications, reference codes, and standards. A copy of those sections of referenced codes and standards applicable to that portion of the work to be accomplished in the field shall be made available by the Contractor at the preparatory inspection. These copies shall be maintained in the field and available for use by the Owner until final acceptance of the work.
b. A review of the contract drawings.
c. A check to assure that all materials and/or equipment have been tested, submitted, and approved.
d. Review of provisions that have been made to provide required control inspection and testing.
e. Examination of the work area to assure that all required preliminary work has been completed and is in compliance with the contract.
f. A physical examination of required materials, equipment, and sample work to assure that they are on hand, conform to approved shop drawings or submitted data, and are properly stored.
g. Discussion of procedures for controlling quality of the work including repetitive deficiencies. Documentation of construction tolerances and workmanship standards for that feature of work.
h. A check to ensure that the portion of the plan for the work to be performed

has been accepted by the Project Manager.

i. Discussion of the initial control phase.

j. The Owner shall be notified at least 48 hours in advance of beginning the preparatory control phase. This phase shall include a meeting conducted by the CQC Manager and attended by the Superintendent, other CQC personnel (as applicable), and the foreman responsible for the definable feature. The results of the preparatory phase actions shall be documented by separate minutes prepared by the CQC Manager and attached to the daily CQC report. The Contractor shall instruct applicable workers as to the acceptable level of workmanship required in order to meet contract specifications.

2. Follow-up Phase: Daily checks shall be performed to assure control activities, including control testing, are providing continued compliance with contract requirements, until completion of the particular feature of work. The checks shall be made a matter of record in the CQC documentation. Final follow-up checks shall be conducted, and all deficiencies corrected prior to the start of additional features of work which may be affected by the deficient work. The Contractor shall not build upon nor conceal non-conforming work.

1.07 TESTS

A. Testing Procedure: The Contractor shall provide inspections, tests, and similar quality control services, specified in individual Specification Sections, and required by governing authorities, (Costs for these services shall be included in the Contract Sum). Upon request, the Contractor shall furnish to the Owner duplicate samples of test specimens for possible testing by the Owner. Testing includes operation and/or acceptance tests when specified. The Contractor shall perform the following activities and record and provide the following data:

1. Verify that testing procedures comply with contract requirements.
2. Verify that facilities and testing equipment are available and comply with testing standards.
3. Check test instrument calibration data against certified standards.
4. Verify that recording forms and test identification control number system, including all of the test documentation requirements, have been prepared.
5. Results of all tests taken, both passing and failing, shall be recorded on the CQC report for the date taken. Specification paragraph reference, location where tests were taken, and the sequential control number identifying the test shall be given. If approved by the Project Manager, actual test reports may be submitted later with a reference to the test number and date taken. An information copy of tests performed by an offsite or commercial test facility shall be provided directly to the Project Manager. Failure to submit timely test reports as stated may result in nonpayment for related work performed and disapproval of the test facility for this contract.

B. Retesting: The Contractor is responsible for retesting where results of required inspections, tests, or similar services prove unsatisfactory and do not indicate compliance with Contract Document requirements, regardless of whether the original test was the Contractor’s responsibility. Cost of retesting construction revised or replaced by the Contractor is the Contractor’s responsibility, where required tests were performed on original construction.

C. Associated Services: The Contractor shall cooperate with agencies performing required inspections, tests, and similar services and provide reasonable auxiliary services as requested. Notify the agency sufficiently in advance of operations to permit assignment of personnel. Auxiliary services required include but are not limited to:

1. Providing access to the Work, approved plans, and furnishing incidental labor and facilities necessary to facilitate inspections and tests.
2. Providing facilities for storage of all special inspection reports at the Project site and make available for review by the authorities having jurisdiction.
3. Taking adequate quantities of representative samples of materials that require testing or assisting the agency in taking samples.
4. Providing facilities for storage and curing of test samples, and delivery of samples to testing laboratories.
5. Providing the agency with a preliminary design mix proposed for use for materials mixes that require control by the testing agency.
6. Security and protection of samples and test equipment at the Project site.

D. Correction of Work: The Contractor shall bear all costs of correcting all Work identified as defective or as failing to conform to the Contract Documents, including any additional Owner Inspection Costs, and additional compensation for the Architect's and/or Project Manager's additional services made necessary thereby.

E. Qualification for Laboratory Agencies: Engage inspection and testing service agencies, including independent testing laboratories free of conflict on interests with the General Contractor, which are prequalified as complying with "Recommended Requirements for Independent Laboratory Qualification" by the American Council of Independent Laboratories, and which specialize in the types of inspections and testing to be performed.

1. Each independent inspection and testing agency engaged on the Project shall be authorized by the authorities having jurisdiction to operate in the State of Alaska and the Municipality of Anchorage.
2. The Owner reserves the right to direct the specific location or area of work to be tested in accordance with contract requirements.

1.08 SPECIAL INSPECTIONS

A. The Owner will provide Special Inspections, tests, and similar quality control services as identified in Section 01420, "Special Inspections". Costs for the Special Inspection services are not included in the Contract Sum.

B. Duties of the Testing Agency: The independent testing agency engaged to perform inspections, sampling, and testing of materials and construction specified in individual Specification Sections shall cooperate with the Owner's Representative and Contractor in performance of its duties and shall provide qualified personnel to perform required inspections and tests.

1. The agency shall notify the Project Manager, and Contractor promptly of irregularities or deficiencies observed in the Work during performance of its services.
2. The agency is not authorized to release, revoke, alter, or enlarge requirements of the Contract Documents, or approve or accept any portion of the Work.
3. Special Inspection agency shall not perform any duties of the Contractor, nor be under contract to perform testing services required of the Contractor.

C. Coordination: The Contractor and each agency engaged to perform inspections, tests, and similar services shall coordinate the sequence of activities to accommodate required services. In addition, the Contractor and each agency shall coordinate activities to avoid the necessity of removing and replacing construction to accommodate inspections and tests.

1. The Contractor is responsible for scheduling times for inspections, tests, taking samples, and similar activities.
2. The Contractor shall notify the Owner's Special Inspectors, and the Owner, in writing 72 hours prior to required special inspection and coordinate with these inspectors so there are no additional project costs, schedule impacts or delays. The Contractor shall also be responsible to coordinate with the special inspectors and the Owner to identify on the construction schedule when these inspections shall occur.

1.09 WORKMANSHIP

A. Comply with industry standards except when more restrictive tolerances or specified requirements indicate more rigid standards or more precise workmanship.

B. Perform work by persons qualified to produce workmanship of specified quality.

C. Secure products in place in positive anchorage devices designed and sized to withstand stresses, vibration, and racking.

1.10 MANUFACTURER'S INSTRUCTIONS

A. Comply with instructions in full detail, including each step in sequence. Should instructions conflict with Contract Documents, request clarification from the Project Manager before proceeding.

1.11 MANUFACTURER'S FIELD SERVICE

A. When required by individual Specifications Section, submit manufacturer's certificate, signed by responsible officer of the Manufacturer, that products meet or exceed specified requirements.

B. When required by manufacturer, have manufacturer provide qualified representative to observe field conditions, conditions of surfaces and installation, quality of workmanship, start-up of equipment, test, adjust, and balance of equipment as applicable. Manufacturer Field Representative shall make a written report of observations and recommendations to the Project Manager.

1.12 SAMPLE PANELS AND MOCK-UPS

A. Sample panels and/or mock-ups shall be used to establish uniform level of workmanship and finish color and texture. Accepted sample or mock-up shall serve as minimum standard of quality for subsequent work.

B. Work on any Section requiring a sample panel or mock-up shall be approved in writing by the Owner.

C. Sample panels or mock-ups may be requested by the Owner even though not specifically required of Specification Section to clarify level of workmanship, color, or texture.

D. Tests shall be performed in accordance with Section 01410 and this section.

1.13 OBSERVATION

The following stages of construction specifically require observation by the Architect, Owner, and

other Authorities having jurisdiction. Provide the indicated notice to the Project Manager prior to commencing work on the phase or upon completion as appropriate:

A. Stages that require two day notice include:

1. Completion of utility trench excavation prior to placement of bedding.
2. Completion of utility pipe installation prior to backfill.
3. Completion of subdrain system's drainage mat and perforated pipe prior to backfill.
4. Completion of driveway, parking lot and sidewalk excavation, installation of geotextile fabric and backfill prior to placement of pavement.
5. Completion of asphalt concrete pavement placement.
6. Completion of portland cement concrete pavement placement.
7. Completion of building excavation, geotextile fabric installation, and backfill prior to placement of concrete floor slab.
8. Completion of excavation forming prior to concrete placement.
9. Completion of concrete masonry, as damp-proofing work is beginning.
10. Wall framing and sheathing completed, observation of shear wall fastening and connections.
11. Mechanical and electrical rough-in and wall blocking, prior to cover.
12. Insulation and vapor barrier installation prior to cover, observation required as work progresses, notify as phases are complete.
13. Completion of mock-ups and finishes as mock-ups and areas are completed.
14. Prior to beginning roofing.

B. Stages that require five day notice include:

1. Substantial Completion.
2. Operational instructions.
3. Final Completion.

1.14 COMPLETION INSPECTION

A. Punch-Out Inspection: Near the end of the work, or any increment of the work established by a time stated in the specifications, the CQC Manager shall conduct an inspection of the work. A punch list of items which do not conform to the approved drawings and specifications shall be prepared and included in the CQC documentation, as required by Section 01400, paragraph 1.15 A.4. The list of deficiencies shall include the estimated date by which the deficiencies will be corrected. The CQC Manager or staff shall make a second inspection to ascertain that all deficiencies have been corrected. Once this is accomplished, the Contractor shall notify the Owner that the facility is ready for the Owner Substantial inspection.

B. Final Inspection: The Contractor’s Quality Control Inspection personnel shall be in attendance at the final inspection.

1.15 DOCUMENTATION

A. The Contractor shall maintain current records providing factual evidence that required quality control activities and/or tests have been performed. These records shall include the work of subcontractors and suppliers and shall be on an acceptable form that includes, as a minimum, the following information:

1. Contractor/Subcontractor and area of responsibility.
2. Operating equipment with hours worked, idle, or down for repair.
3. Work performed each day, giving location, description, and by whom.

4. Test and/or control activities performed with results and references to specifications/drawings requirements. The control phase shall be identified. List of deficiencies noted, along with corrective action.
5. Quantity of materials received at the site with statement as to acceptability, storage, and reference to specifications/drawing requirements.
6. Offsite surveillance activities, including actions taken.
7. Instructions given/received and conflicts in plans and/or specifications.
8. Any other remarks impacting quality control.
9. Contractor's verification statement.

B. These records shall indicate a description of trades working on the project; the number of personnel working; weather conditions encountered; and any delays encountered. These records shall cover both conforming and deficient features and shall include a statement that equipment and materials incorporated in the work and workmanship comply with the contract. The original and one copy of these records in report form shall be furnished to the Owner on a weekly basis within 24 hours after the date covered by the report, except that reports need not be submitted for days on which no work is performed. As a minimum, one report shall be prepared and submitted for every 7 days of no work and on the last day of a no work period. All calendar days shall be accounted for throughout the life of the contract. Reports shall be signed and dated by the CQC Manager. The report from the CQC Manager shall include copies of test reports and copies of reports prepared by all subordinate quality control personnel.

1.16 NOTIFICATION OF NONCOMPLIANCE

A. The Project Manager will notify the Contractor of any detected noncompliance with the foregoing requirements. The Contractor shall take immediate corrective action after receipt of such notice. Such notice, when delivered to the Contractor at the work site, shall be deemed sufficient for the purpose of notification. If the Contractor fails or refuses to comply promptly, the Project Manager may issue an order stopping all or part of the work until satisfactory corrective action has been taken. No part of the time lost due to such stop orders shall be made the subject of claim for extension of time or for excess costs or damages by the Contractor.

PART 2. PRODUCTS (NOT USED)

PART 3. EXECUTION (NOT USED)

END OF SECTION

TESTING LABORATORY SERVICES

PART 1. GENERAL

1.01 REQUIREMENTS INCLUDED

A. Contractor will employ and pay for the services of an independent testing laboratory, free of conflict of interests with the General Contractor, to perform specified testing.

B. Employment of the laboratory shall in no way relieve Contractor's obligations to perform the work of the contract.

C. Inspection, sampling and testing required as called for in the following technical sections.

D. The Contractor shall pay for re-inspections and re-testing required because of defective work or ill-timed notices.

1.02 RELATED REQUIREMENTS

A. Article 7.7, Section 00700 - General Conditions of the Contract for Construction.

B. Inspections and testing required by laws, ordinances, rules, regulations, orders, project Contract Documents, or approvals of public authorities.

C. Certification of Products: Respective Sections of Specifications.

D. Test, Adjust, and Balance of Equipment: Respective Sections of Specifications.

E. Each Specification Section Listed: Laboratory test required, and standards for testing.

1.03 QUALIFICATIONS OF LABORATORY

A. Independent laboratory acceptable to Owner, Architect and Building Official.

B. Meet “Recommended Requirements for Independent Laboratory Qualification” latest edition, published by American Council of Independent Laboratories, 1300 “I” Street N.W., Washington, D.C. 20005.

C. Meet ASTM E-329 latest edition, "Standards of Recommended Practice for Inspection and Testing Agencies for Concrete and Steel as used in Construction."

1.04 LABORATORY’S DUTIES

A. Laboratory authorized to operate in Alaska, with a full-time engineer registered in Alaska on staff to review services.

B. Ascertain and certify compliance with Contract Documents.

C. Promptly submit, unless otherwise indicated, written Inspection and Test Report to each of the following within forty-eight hours of inspection:

1. Owner: Two (2) copies
2. Architect: Two (2) copies
3. Contractor: Two (2) copies or as required

D. Include the following on Test Reports:

1. Date issued.
2. Project title and location.
3. Testing Laboratory name and address.
4. Inspector's name.
5. Date of inspection or sampling.
6. Record of temperature and weather.
7. Date of test.
8. Identification of product tested.
9. Test location in Project.
10. Type of inspection or test.
11. Observations regarding compliance with Contract Documents.

E. Laboratory is not authorized to:

1. Release, revoke, alter, or enlarge on Contract Document requirements.
2. Approve or accept any portion of work.
3. Assume any duties of Contractor.
4. Stop Work.

1.05 CONTRACTOR'S DUTIES

A. Cooperate with laboratory personnel, provide access to work, and to Manufacturer's operations.

B. Secure and deliver to the laboratory adequate quantities of representation samples of materials proposed to be used and which require testing.

C. Provide to the laboratory the preliminary design mix proposed to be used for concrete, and other materials mixes which require control by the testing laboratory.

D. Furnish copies of products test reports as required.

E. Furnish incidental labor and facilities:

1. To provide access to work to be tested.
2. To obtain and handle samples at the project site or at the source of the project to be tested.
3. To facilitate inspections and tests.
4. For storage and curing of test samples.

F. Notify laboratory sufficiently in advance of operations to allow for laboratory assignment of personnel and scheduling of tests. Twenty-four hour minimum notification.

1. When tests or inspections cannot be performed after such notice, reimburse Owner for laboratory personnel and travel expenses incurred due to Contractor's negligence.

G. Notify Architect and Owner a minimum twenty-four hours in advance of any testing.

H. Repair test holes to match original conditions.

I. Quality Control is the responsibility of the General Contractor. The General Contractor should employ a testing firm to provide testing as required to monitor and maintain his own

quality control program, as well as satisfy the specific requirements of the Contract Documents.

1.06 OWNER'S TESTING LABORATORY SERVICES

A. The Owner may also employ and pay for the services of an Independent Testing Laboratory to perform specified testing as indicated in the Supplementary General Conditions and in this section. This testing service will be employed for Quality Assurance Only. QUALITY CONTROL IS THE RESPONSIBILITY OF THE GENERAL CONTRACTOR.

B. The Contractor shall cooperate with the Owner's laboratory to facilitate the execution of its services.

C. A copy of the Owner's laboratory written report of each test will be distributed to the Contractor.

D. When initial tests indicate work does not comply with the Contract Document, all additional tests required, until tests pass, shall be at the expense of the Contractor.

PART 2. PRODUCTS (NOT USED)

PART 3. EXECUTION (NOT USED)

END OF SECTION

SPECIAL INSPECTIONS

PART 1. GENERAL

1.01 REQUIREMENTS INCLUDED

A. Purpose

B. Types of Work

C. Owner Responsibilities

D. Engineer or Architect of Record Responsibilities

E. Contractor Responsibilities

F. Special Inspector Responsibilities

1.02 RELATED REQUIREMENTS

A. Drawings and general provisions of Contract, including General and Supplementary Conditions and other Division 1 Specification Sections, apply to this Section.

1. Section 00700 - General Conditions of the Contract for Construction and Section 00800 – Supplementary Conditions of the Contract for Construction.
2. Section 01090 - Referenced Specifications and Standards
3. Section 01300 - Submittals
4. Section 01400 - Quality Control

1.03 REFERENCES

A. International Building Code (IBC) - SECTION 1704 - SPECIAL INSPECTIONS

B. Uniform Administrative Code (UAC) - SECTION 306 - SPECIAL INSPECTIONS

1.04 PURPOSE OF SPECIAL INSPECTIONS

A. In accordance with IBC Section 1704.1 General “In addition to the inspections required by Section 109, the owner or the engineer or architect of record acting as the Owner’s agent shall employ one or more special inspectors who shall provide inspections during construction on the types of work listed under 1704.”

1.05 TYPES OF WORK

A. Except as provided in IBC Section 1704, the types of work listed below shall be inspected by a Special Inspector.

1. Concrete.
2. Bolts installed in concrete.
3. Reinforcing steel in concrete.
4. Structural welding.
5. High-strength bolting.
6. Structural masonry.
7. Spray-applied fireproofing.
8. Special grading, excavation, and filling.

B. Continuous and Periodic Special Inspection and Approved Fabricators shall be a part of the Special Inspection requirements.

1.06 OWNER RESPONSIBILITIES

A. The Owner or the Engineer or Architect of Record acting as the Owner's agent shall employ one or more Special Inspectors who shall provide inspections during construction on the types of work listed.

B. The Owner shall be responsible for providing a full set of drawings and specifications to each Special Inspector.

1.07 ENGINEER OR ARCHITECT OF RECORD

A. The Engineer or Architect of Record, under the Owner's direction, may be required to employ one or more Special Inspectors who shall provide inspections during construction on the types of work listed under IBC Section 1704.

B. The Engineer or Architect of Record, under the Owner's direction, may be responsible for coordinating the Pre-Construction Meeting, with the Contractor, to include Special Inspectors for the purpose of reviewing the Special Inspection Program and responsibilities of each member.

C. The Engineer or Architect of Record is responsible for clearly indicating the design parameters and material selection on the project plans and/or specifications.

D. The Engineer or Architect of Record shall determine when and where Special Inspection is necessary in order to meet requirements of the Code.

E. It shall be the responsibility of the Architect or Engineer of Record to prepare a typewritten Special Inspection Program for submittal to the Building Official for review and approval (UAC 302.5). Such approval shall be obtained prior to issuance of a Building Permit.

F. Design changes required to correct non-conforming work already incorporated into the completed construction, shall be identified to the Building Official for review and approval as a Change Order. Such Changes shall be generated by the Engineer or Architect of Record.

1.08 CONTRACTOR RESPONSIBILITIES

A. The Contractor shall be responsible for calling a Pre-Construction meeting to review Special Inspection requirements as they pertain to the project. Attendees shall include the Contractor's Construction Supervisor, ASD Project Manager, the Engineer or Architect of Record, the Building Safety Division Inspector assigned to the project, all Special Inspectors, and any subcontractors who will actually be constructing items requiring Special Inspection. This meeting shall not be considered a substitute for any pre-construction meeting held between the Contractor and the Owner and Engineer or Architect of Record although they may coincide.

B. The Contractor shall be responsible for notifying the Special Inspector or special inspection firm regarding required special inspections. Notice shall be a minimum of 24 hours in advance.

C. The Contractor shall have on site at all times, an approved set of plans and construction documents available to the Special Inspector for the purpose of reference or clarification.

D. The Contractor shall be responsible for retaining, on site, a copy of all Special Inspection records submitted by the Special Inspector.

1.09 SPECIAL INSPECTOR RESPONSIBILITIES

A. The Special Inspector shall observe the work assigned for conformance with the approved design drawings and specifications.

B. Special Inspectors requiring certification by an agency such as ICBO, ACI, or AWS shall carry current certification with them while performing the Work on site.

C. The Special Inspector shall remain on site at all times when work requiring Special Inspection is in progress.

D. The Special Inspector shall immediately bring all nonconforming items of work or material to the immediate attention of the Contractor for correction.

E. The Special Inspector or Inspection Firm shall submit required written reports to the Building Official (two copies), the Owner, and the Engineer or Architect of Record within 48 hours of inspection.

F. Special Inspectors or Inspection Firms shall submit a final signed report to the Building Safety Division stating that all items requiring Special Inspection were, to the best of their knowledge, in conformance with the approved design drawings, specifications, approved change orders and the applicable workmanship provided in the International Building Code. Items not in conformance, unresolved items, and any discrepancies in inspection coverage shall be specifically itemized in the final report.

G. Special Inspectors shall meet all certification requirements stated in the Special Inspection Program and required by the Municipality of Anchorage Building Safety Division and shall maintain certification at all times throughout the project.

END OF SECTION

STRUCTURAL OBSERVATION

PART 1. GENERAL

1.01 REQUIREMENT INCLUDED

A. Purpose

B. Types of Work

C. Owner Responsibilities

D. Engineer or Architect of Record Responsibilities

E. Contractor Responsibilities

F. Structural Observer Responsibilities

1.02 REFERENCES

A. International Building Code (IBC)–Section 1709 STRUCTURAL OBSERVATION.

1.03 PURPOSE OF STRUCTURAL OBSERVATION

A. In accordance with IBC Section 1709, the purpose of Structural Observation is as defined in IBC Section 1702.1: Visual observation of the structural system, for general conformance to the approved plans and specifications, at significant construction stages and at completion of structural system. Structural Observation does not include or waive the responsibility for the inspections required by other sections of the IBC.

1.04 TYPES OF WORK

A. The Design Structural Engineer or another engineer designated by the Design Structural engineer shall perform Structural Observation.

B. Observed deficiencies shall be reported in writing to the Owner’s Representative, Special Inspector, Contractor, and the Building Official.

C. The Structural Observer shall submit to the Building Official a written statement that the site visits have been made and identifying any reported deficiencies that, to the best of the Structural Observer’s knowledge, have not been resolved.

1.05 OWNER’S RESPONSIBILITIES

A. The Owner or the Engineer or Architect of Record acting as the Owner’s Agent shall employ one or more Structural Observers who shall provide structural observation during construction on the types of work identified under IBC Section 1709.

1.06 ENGINEER OR ARCHITECT OF RECORD

A. The Engineer or Architect of Record, under the Owner’s direction, may be required to employ one or more Structural Observers who shall provide inspections during construction on the types of work defined under IBC Section 1709.

B. The Engineer or Architect of Record, under the Owner’s direction, with the Structural

Observer, will review with the Contractor the Structural Observer Program and responsibilities of each member.

C. The Engineer or Architect of Record is responsible for clearly indicating the design parameters and material selection on the project plans and/or specifications.

D. The Engineer or Architect of Record shall determine when and where Structural Observation is necessary in order to meet requirements of the Code.

E. Design changes required to correct non-conforming work already incorporated into the completed construction, shall be identified to the Building Official for review and formal approval. Such changes shall be generated by the Engineer or Architect of Record.

1.07 CONTRACTOR RESPONSIBILITIES

A. The Contractor shall be responsible for calling a Structural Observation Organizational meeting to review the Structural Observation requirements as they pertain to the project. Attendees shall include the Contractor's Construction Supervisor, ASD Project Manager, the Engineer or Architect of Record, the Building Safety Division Inspector assigned to the project, all Structural Observers, and any subcontractors who will actually be constructing items requiring Structural Observation. This meeting shall not be considered a substitute for any pre-construction meeting held between the Contractor and the Owner and Engineer or Architect of Record although they may coincide.

B. The Contractor shall have on site at all times, an approved set of plans and construction documents available to the Structural Observer for the purpose of reference or clarification.

C. The Contractor shall be responsible for retaining, on site, a copy of all Structural Observation records submitted by the Structural Observer.

1.08 STRUCTURAL OBSERVER RESPONSIBILITIES

A. The Structural Observer shall observe the work assigned for conformance with the approved design drawings and specifications.

B. The Structural Observer shall remain on site at all times when work requiring Structural Observation is in progress.

C. The Structural Observer shall immediately bring all nonconforming items of work or material to the immediate attention of the Contractor for correction.

D. The Structural Observer shall submit required written reports to the Building Official (two copies), the Owner, and the Engineer or Architect of Record within 48 hours of inspection.

E. The Structural Observers shall submit a final signed report to the Building Safety Division stating that all items requiring Structural Observation were, to the best of their knowledge, in conformance with the approved design drawings, specifications, approved change orders and the applicable workmanship provided in the International Building Code. Items not in conformance, unresolved items, and any discrepancies in inspection coverage shall be specifically itemized in the final report.

END OF SECTION

TEMPORARY FACILITIES AND CONTROLS

PART 1. GENERAL

1.01 DESCRIPTION OF REQUIREMENTS

A. Definitions: Specific administrative and procedural minimum actions are specified in this section as extensions of provision in General Conditions and other Contract Documents. These requirements have been included for special purposes as indicated. Nothing in this section is intended to limit types and amounts of temporary work required, and no omission from this section will be recognized as an indication that such temporary activity is not required for successful completion of the work and compliance with requirements of Contract Documents. Provisions of this section are applicable to, but not by way of limitation, utility services, construction facilities, support facilities, and security-protection provisions.

1.02 QUALITY ASSURANCE

A. In addition to compliance with governing regulations and rules/recommendations of utility companies, comply with specific requirements indicated and with applicable local codes and industry standards for construction work.

1.03 JOB CONDITIONS

A. General: Establish and initiate use of each temporary facility at time first reasonably required for proper performance of the work. Terminate use and remove facilities at earliest reasonable time, when no longer needed or when permanent facilities have, with authorized use, replaced the need.

B. Conditions of Use: Install, operate, maintain, and protect temporary facilities in a manner and at locations which will be safe, non-hazardous, sanitary, and protective of persons and property, and free of deleterious effects.

C. Pay all costs for such general services and temporary facilities, except as otherwise specified, until final acceptance of the work and/or Owner’s beneficial occupancy of completed portions of the work.

PART 2. PRODUCTS

2.01 MATERIALS

A. Materials may be new or used but must be suitable and adequate in capacity for the required usage, must not create unsafe conditions, and must not violate requirements of applicable codes and standards.

B. New electrical utility drops and new transformers will be installed by the local electric utility and is not a part of the scope of work. Permanent electrical service and distribution from the new transformer is required and made a part of Scope of Work to be complete for Substantial Completion.

PART 3. EXECUTION

3.01 TEMPORARY FACILITIES

A. Sanitary Facilities

1. Provide and maintain temporary sanitary toilets in number required, location directed, and types approved by the regulatory authorities.

B. Electricity

1. Make all arrangements and pay for temporary electrical service to the construction area. Provide all equipment necessary for temporary power and lighting, and pay all charges for this equipment, and the installation thereof. Verify that electrical service is of adequate capacity for all construction tools and equipment without overloading the facilities.
2. Provide power distribution as required throughout for construction operations of all trades. The termination of power distribution shall be at convenient locations in the building. Terminations shall be provided for each voltage supply complete with circuit breakers, disconnect switches, and other electrical devices as required to protect the power supply system.
3. A temporary lighting system shall be furnished, installed and maintained as required to satisfy minimum requirements of safety and security. The temporary lighting system shall afford general illumination in all building areas and shall supply no less than 1-watt per square foot of floor area for illumination in the areas of the building where work is being performed.
4. All temporary equipment and wiring for power and lighting shall be in accordance with the applicable provisions of the governing codes. All temporary wiring shall be maintained in a safe manner and utilized so as not to constitute a hazard to persons or property.
5. When permanent electrical power and lighting systems are in operating condition they may be used for temporary power and lighting for construction purposes, provided that Contractor assumes full responsibility for the entire power and lighting systems and pays for power consumption until final acceptance or beneficial occupancy, whichever is first.
6. At the completion of the construction work all temporary wiring, lighting and other temporary electrical equipment devices shall be removed.

C. Heating, Cooling and Ventilation: Furnish by approved methods, temporary heat including fuel and power as required to protect materials and work from dampness and cold and to dry out the facility. New permanent heating system may be used for this purpose; however, such use shall not relieve Contractor of Guarantee responsibilities. Refer to individual sections for temperatures to be maintained for the work of the various trades. If the permanent heating is used for temporary heat, ducts shall be completely cleaned of dust and dirt and all filters replaced if "throw-away" type or cleaned if permanent type prior to occupancy.

D. Water Service

1. Provide all water necessary for construction purposes.
2. Furnish drinking water with suitable containers and cups for use of employees. Drinking water dispensers shall be conveniently located in the building where work is in progress.

3.02 TEMPORARY CONTROLS

A. Access Provisions

1. Provide ramps, stairs, ladders, and similar temporary access elements as reasonably required to perform the work and facilitate its inspection during installation. Comply with reasonable requests of governing authorities performing inspections.

B. Environmental Control

1. Provide and maintain all fences, barricades, lights, shoring and other protective structures or devices necessary for the safety of workmen, equipment, the public and property as required by state or municipal laws and regulations, and local ordinances, laws and other requirements of the municipality, state, and other authorities having jurisdiction with regard to safety precautions, dust control, and fire hazards.

C. Security and Protection Provisions.

1. The types of temporary security and protection provisions required include, but not by way of limitation, fire protection, personnel security program (theft prevention), and similar provisions intended to minimize property losses, personal injuries, and claims for damages at project site throughout construction period.
2. Building Enclosure and Lock-up: At earliest possible date secure building against unauthorized entrance at times when personnel are not working. Provide secure temporary enclosures at ground floor and other locations of possible entry, with locked entrances.
3. Fire Extinguishers: Provide types, sizes, numbers, and locations as would be reasonably effective in extinguishing fires during early stages by personnel at project site. Provide Type ABC dry chemical extinguishers; comply with recommendations of NFPA 10. Post warning and instructions at each extinguisher location, and instruct all personnel at project site, at time of their first arrival, on proper use of extinguishers and other available facilities at project site. Post local fire department call number on each telephone at project site.
4. Before beginning any work that may result in a fire alarm transmission, the contractor shall call both the Anchorage Fire Department dispatcher at 907-522-1122 and the local fire station which would respond to an alarm and let them know you will be working on the system and for approximately how long. Second, the contractor shall call Guardian Security at 907-274-5275 and notify the dispatcher that you have called the Fire Department, what type of work you are planning to do, and approximately how long before you expect to be completed. After the contractor is completed with your work, you must reverse the process by notifying the Fire Department dispatcher and the ASD Dispatcher that you are finished.

3.03 REMOVAL

A. Maintain all temporary facilities and controls as long as needed for safe and proper completion of Work. Remove all such temporary facilities and controls as rapidly as progress of the Work will permit, or as directed by Project Manager. Clean and repair damage caused by temporary installations or use of temporary facilities. Restore existing facilities used for temporary services to specified or original condition.

END OF SECTION

MAINTENANCE OF TRAFFIC

PART 1. GENERAL

1.01 DESCRIPTION OF WORK

A. When working adjacent to school playgrounds, provide flagmen. Payment for such flagging and protective flagmen services shall be borne by Contractor.

B. Contractor shall retain responsibility for traffic operations and protective measures to assure safe flow of traffic. Contractor shall cooperate with Owner so that traffic flow is minimally impeded by execution of work under this Contract.

1.02 SUBMITTALS

A. Prior to starting any work, Contractor shall submit to the Authority having Jurisdiction and the Project Manager, detailed plan of his proposed method for controlling traffic at each affected location. Proposed traffic control plan shall show and describe proposed locations and time durations covering the following:

1. Vehicular traffic routing including School Buses.
2. Traffic blockage anticipated to be caused by work under this contract.
3. Address conflicts between Pedestrian and vehicular traffic.

1.03 TRAFFIC MAINTENANCE FACILITIES

A. Other than as shown on approved traffic control plans, at no time shall Contractor’s operations interfere with safe and orderly operation of school. Encroachment by Contractor’s operations will not be permitted.

B. For duration of Contract, Contractor shall immediately repair or replace any and all appurtenances damaged or destroyed in performance of work included herein.

C. Upon completion of work, temporary traffic maintenance items furnished by Contractor shall remain his property and shall be removed from site by Contractor.

D. Contractor shall utilize dust control methods to control dust on access streets and project site to satisfaction of the Project Manager.

PART 2. PRODUCTS (NOT USED)

PART 3. EXECUTION (NOT USED)

END OF SECTION

PROJECT SIGN

PART 1. GENERAL

1.01 DESCRIPTION OF WORK

A. Furnish, install, and maintain project identification sign.

B. Project sign must be approved and permitted, prior to erections. Allow no other signs to be displayed.

1.02 PROJECT IDENTIFICATION

A. Painted sign of 32 sf. area with painted graphic, or printed vinyl sign, content to include:

1. Title of project
2. Name of Owner.
3. Names of professional consultants
4. Prime contractor.
5. Major subcontractors.
6. An area 18" square for Owner logo.

B. Graphic design, style of lettering, and colors: As shown in this section.

C. Erect on the site at a lighted location of high public visibility as approved by Project Manager.

1.03 QUALITY ASSURANCE

A. Sign Painter: Professional experience in type of work required.

B. Finishes, Painting: Adequate to resist weathering and fading during scheduled construction period.

PART 2. PRODUCTS

2.01 SIGN MATERIALS

A. Structure and Framing: may be new or used, wood or metal, in sound condition structurally adequate to work and suitable for specified finish.

B. Sign Surfaces: Exterior softwood plywood with medium density overlay, standard large sizes to minimize joints. Thickness as required by standards to span framing members, to provide even, smooth surface without waves or buckles.

C. Rough Hardware: Galvanized.

D. Paint: Exterior quality semi-gloss Alkyd, as specified in painting specification.

E. Vinyl Lettering and Graphics may be considered upon submittal to Project Manager.

PART 3. EXECUTION

3.01 PROJECT SIGN

A. Paint exposed surfaces of supports, framing, and surface material; one coat of primer and one coat of exterior paint.

B. Paint graphics in styles, sizes and colors selected.

3.02 MAINTENANCE

A. Maintain sign and supports in a neat, clean condition; repair damages to structure, framing or sign.

3.03 REMOVAL

A. Remove sign, framing, supports, and foundations at completion of the project.



END OF SECTION

MATERIALS AND EQUIPMENT

PART 1. GENERAL

1.01 DESCRIPTION

A. Materials and Equipment incorporated into Work shall:

1. Conform to applicable specifications and standards.
2. Comply with size, make, type, and quantity specified, unless otherwise approved in writing.

B. Manufactured and Fabricated Products:

1. Manufacture like parts of duplicate units to standard size and gauges, and to be interchangeable.
2. Two or more items of same kind shall be identical, and by same Manufacturer.
3. Products shall be suitable for service conditions.
4. Equipment shall comply with capacity, sizes, and dimensions shown or specified, unless otherwise approved in writing.

C. Do not use materials or equipment for any purpose other than that for which designed or specified.

1.02 RELATED REQUIREMENTS

A. Section 01010: Summary of Work

B. Section 01340: Shop Drawing, Product Data and Samples.

C. Section 01630: Substitution and Product Options

D. Section 01710: Cleaning

1.03 CONTRACTOR'S OPTIONS

A. For products specified only by reference standard, select any product meeting standard.

B. For products specified by naming several products, select any of such products.

C. For products specified by naming one or more products and "or approved", select any one specified product or submit request for substitution as specified.

1.04 INAPPROPRIATE PRODUCTS AND METHODS

A. If Contractor believes that any specified product, method, or system is inappropriate for use, he shall, if possible, so notify the Project Manager at least ten (10) working days prior to bid opening, and if not possible, such notice shall be given before performing work in question. If notice of objection is not received within the specified time limits, it will be assumed that Contractor agrees that specified products, methods, and systems are not inappropriate for use.

B. No asbestos containing materials are to be incorporated into the project. Certification signed by the General Contractor shall state that Asbestos Containing materials have not been installed under this project. Turn certification in to Project Manager no later than first

payment application submittal. Recertify to Owner at substantial completion inspection.

1.05 PRODUCT SUBSTITUTIONS

A. Refer to Section 01630.

1.06 NUMBER OF PRODUCTS REQUIRED

A. Whenever in specifications a product is referred to in singular number, such reference shall include as many such products as are shown on Drawings are required to complete the Work.

1.07 PRODUCTS LIST

A. Submit to Project Manager complete list of major products proposed for use; Specification Section, include proprietary product name, manufacturer's name, and installing Subcontractor's name in accordance with requirement of Section 01340 Shop Drawing, Product Data and Samples.

1.08 MANUFACTURER'S INSTRUCTIONS

A. Perform work in accordance with Manufacturer's instructions.

B. Do not omit preparatory or installation procedures required by Manufacturer, unless specifically modified by Contractor Documents.

C. When Contract Documents require Work to comply with Manufacturer's instruction, obtain and distribute such instructions to parties performing work, including copies to Architect and Project Manager. Maintain one set at job site during installation and until acceptance.

D. Handle, install, connect, clean, condition, and adjust products in strict accord with such instructions and in conformance with specified requirements.

E. Should job conditions or specified requirements conflict with Manufacturer's instructions, consult Project Manager for further instructions.

F. Do not proceed with work without clear instructions.

PART 2. PRODUCTS (NOT USED)

PART 3. EXECUTION (NOT USED)

END OF SECTION

DELIVERY, STORAGE AND HANDLING

PART 1. GENERAL

1.01 DESCRIPTION OF WORK

A. Provide for expeditious transportation and delivery of products to project site undamaged, on schedule to avoid delay of the Work.

B. Providing equipment and personnel at site to unload and handle products in manner to avoid damage to products.

C. Provide secure storage and protection for products to be incorporated into the Work, and maintenance and protection for products after installation and until completion of the Work.

1.02 DELIVERY

A. Arrange deliveries of products in accord with construction schedules and in ample time to facilitate inspection prior to installation.

B. Coordinate deliveries to avoid conflict with work and conditions at site. Contractor deliveries must not conflict with:

1. Work of other Contractors, or Owner.
2. Limitations of storage space.
3. Availability of equipment and personnel for handling products.
4. Owner's use of premises.

C. Deliver products in undamaged condition in original containers or packaging, with identifying labels intact and legible.

D. Partial deliveries of component parts of equipment shall be clearly marked to identify equipment, to permit easy accumulation of parts and to facilitate assembly.

E. Immediately upon delivery, inspect shipment to assure:

1. Product complies with requirements of contract documents and reviewed submittals.
2. Quantities are correct.
3. Containers and packages are intact, labels are legible.
4. Products are protected and undamaged. Minor damages may be repaired, provided finish items are equivalent in all respects to new work.

1.03 PRODUCT HANDLING

A. Provide equipment and personnel necessary to handle products, including those provided by Owner, by methods to prevent soiling or damage to products or packaging.

B. Provide additional protection during handling as necessary to prevent scraping, marring, or otherwise damaging products or surrounding surfaces.

C. Handle products by methods to prevent bending or over-stressing.

D. Lift heavy components only at designated lifting points.

1.04 STORAGE

A. Store products immediately on delivery and protect until installed in the Work. Store in accord with manufacturer's instructions, with seals and labels intact and legible.

B. Store products subject to damage by elements in substantial weather-tight enclosures.

1. Maintain temperatures with ranges required by manufacturer's instructions.
2. Provide humidity control for sensitive products, as required by manufacturer's instructions.
3. Store unpacked products on shelves, in bins, or in neat piles, accessible for inspection.

C. Exterior Storage

1. Provide substantial platforms, blocking, or skids to support fabricated products 4" above ground, prevent soiling or staining.
2. Cover products, subject to discoloration or deterioration from exposure to elements, with impervious sheet coverings. Avoid use of non-vented plastic or canvas shelters which could create humidity chambers. Provide adequate ventilation to avoid condensation.
3. Store loose granular materials in solid surfaces such as paved areas or provide plywood or sheet materials to prevent mixing with foreign matter.

    a. Provide surface drainage to prevent flow or ponding of rainwater.
    b. Prevent mixing of refuse or chemically injurious materials or liquids.

4. Provide exterior storage area within Contractor Secure area.

D. Arrange storage in manner to provide easy access for inspection.

1.05 MAINTENANCE OF STORAGE

A. Maintain periodic system of inspection of stored products on scheduled basis to assure that:

1. State of storage facilities is adequate to provide required conditions.
2. Required environmental conditions are maintained on continuing basis.
3. Surfaces of products exposed to elements are not adversely affected. Any weathering of products, coatings, and finishes is not acceptable under requirements of contract documents.

B. Mechanical and electrical equipment which requires servicing during long-term storage shall have complete manufacturer's instructions for servicing accompanying each item, with notice of enclosed instructions shown on exterior of package.

1.06 PROTECTION AFTER INSTALLATION

A. Provide protection of installed products to prevent damage from subsequent operations, usage or vandalism. Remove when no longer needed, prior to completion of work.

B. Control traffic to prevent damage to equipment and surfaces.

C. Provide coverings to protect finished surfaces from damage.

1. Cover projections, wall corners, jambs, sills, and soffits of openings, in areas used for traffic and for passage of products in subsequent work.
2. Protect finished floors and stairs from dirt and damage.

    a. In areas subject to foot traffic, secure heavy paper, sheet goods, and other materials in place.
    b. For movement of heavy products, lay planking or similar materials in place.
    c. For storage of product, lay tight wood sheathing in place.

D. Waterproofed and Roofing Surfaces

1. Prohibit use of surface for traffic and any kind, or for storage of any products.
2. When some activity must take place in order to carry out Contract, obtain recommendations from installer for protection of surface.

    a. Install recommended protection, remove on completion of that activity.
    b. Restrict use of adjacent unprotected areas.

1.07 DAMAGED PRODUCTS

A. Remove damaged or deteriorated materials from the premises. Replace materials which have been damaged.

PART 2. PRODUCTS (NOT USED)

PART 3. EXECUTION (NOT USED)

END OF SECTION

SUBSTITUTION AND PRODUCT OPTIONS

PART 1. GENERAL

1.01 RELATED DOCUMENTS

A. Drawings and general provisions of the Contract, including General and Supplementary Conditions and other Division 1 Specification Sections, apply to this Section.

1.02 DESCRIPTION OF WORK

A. Contractor's options in selection of products.

B. Requests for substitution of products.

1.03 RELATED REQUIREMENTS

A. Section 00100 - Instruction to Bidders.

B. Section 00700 and 00800 - General Conditions to the Contract for Construction and Supplementary General Conditions to the Contract for Construction.

C. Section 01340 - Shop Drawings, Product Data and Samples.

1.04 CONTRACTOR’S OPTIONS

A. Reference to any equipment, material, article, or patented process by trade name, make or catalog number shall be regarded as establishing a standard of quality and characteristics of products that will be satisfactory and shall not be construed as limiting competition.

B. Whether or not specifically named equipment or material is followed by the term “equivalent" or “equivalent product" or “approved equal", it shall not exclude other manufacturer's equipment or materials from consideration, unless "NO SUBSTITUTIONS" called out in the specification sections. In this usage, the terms "equivalent" and "equal" or "approved equal" are interchangeable though a product or method considered for substitution may be equivalent to a specified product or method without actually being equal, by virtue of performance, appearance, and meeting specified or implied criteria.

C. No item will be considered for substitution prior to the bid opening. Consequently, the Bidder shall make its own determination if a substituted item will be equivalent to or better than that specified or indicated in regard to quality, workmanship, finish, space requirements, electrical requirements, performance and guarantees or warranties. Any change in bid and/or contract amount due to any subsequent rejection of product found "not equivalent" will not be considered.

D. After the Notice to Proceed the Contractor shall submit sufficient data in accordance with this Section to establish equality. The Owner’s Representative shall be the sole judge of equality and acceptability.

E. Acceptance of substitute materials will not relieve the Contractor of the responsibility for any changes in the Contractor's own work or in the work of other trades caused by the substitution. Any additional costs resulting from substitutions are the responsibility of the Contractor.

1.05 SUBSTITUTION PROCEDURE

A. Requests for substitutions of products will be considered only within 90 calendar days after Notice to Proceed. Subsequent requests will be considered only when judged to be in the best interest of the Owner.

B. Substitutions will not be considered when indicated on shop drawings or product data submittals without separate formal request, when requested directly by subcontractor or supplier, or when acceptance will require substantial revision of Contract Documents.

C. Substitute products shall not be ordered or delivered without written acceptance.

D. Submit separate request for each substitution. Document each request with complete data substantiating compliance of proposed substitution with requirements of Contract Documents.

E. Identify products by specifications section and article numbers. Provide manufacturer's name and address, trade name of product, and model or catalog number. List fabricators and suppliers as appropriate.

F. Attach product data as specified in Section 01340 and the following:

1. Give itemized comparison of proposed substitution with specified product and listing variations.
2. Give quality and performance comparison between proposed substitution and specified product.
3. List availability of maintenance services and replacement materials.
4. State effect of substitution on construction schedule, and changes required in other work or products.

G. If no requests for substitutions have been received within time frame stated above, it will be assumed that construction will proceed with equipment, materials and products called for in Contract Documents.

If this is subsequently found not to be the case, the Owner reserves the right to demand that unapproved item be removed and replaced with specified item.

1.06 CONTRACTOR REPRESENTATION

A. Request for substitution constitutes a representation that Contractor has investigated proposed product and has determined that it is equal to or superior in all respects to specified product.

B. Contractor shall provide same warranty or bonds for substitution as for specified product.

C. Contractor shall coordinate installation of accepted substitute, making such changes as may be required for work to be complete in all respects, specifically including any related redesign costs.

D. Contractor waives claims for additional cost caused by substitution which may subsequently become apparent.

PART 2. PRODUCTS (NOT USED)

PART 3. EXECUTION (NOT USED)

END OF SECTION

(Except for “Substitution Request Form,” 1 page)

SUBSTITUTION REQUEST FORM

TO: _____

PROJECT: _____

We hereby submit for your consideration the following product instead of the specified item for the above project:

Section_____Page_____Paragraph_____Specified Item_____

Proposed Substitution: _____

Attach complete Product description, drawings, photographs, performance and test data, and other information necessary for evaluation.

Will changes be required to building design in order to properly install proposed substitution? Yes____ No ____ If Yes, explain: (Add second sheet).

Will the undersigned pay for changes to the building design, including engineering and drawing costs, caused by requested substitution? Yes____ No ____.

What differences exist between proposed substitution and specified item?

Does substitution affect Drawing dimension? Yes____ No ____ If Yes, explain: (Add second sheet.)

What affect does substitution have on other trades?

Does Manufacturer's warranty of proposed substitution differ from that specified?
Yes____ No ____ If Yes, explain: (Add second sheet.)

Will substitution affect Progress Schedule? Yes____ No ____ If Yes, explain: (Add second sheet.)

Will substitution cost more than specified Product? Yes____ No ____ If Yes, explain: (Add second sheet.)

Do substitutions affect the Commissioning process and checklists included in Division 17? Yes____ No ____ If any, attach a marked-up copy of the appropriate Checklist(s) from Division 17 for Owner's approval.

Will maintenance and service parts be locally available for substitution? Yes____ No ____ If Yes, explain: (Add second sheet.)

Submitted by:

Signature:_____

Firm:_____

Address:_____

City:_____

Date:_____

For Owner's Representative's Use Only:

Accepted ( ) Accepted as Noted ( )
Not Accepted ( ) Received Too Late ( )

By:_____

Date:_____

Remarks:_____

Phone:_____

SYSTEM COMMISSIONING

PART 1. GENERAL

1.01 RELATED DOCUMENTS

A. Drawings and General Provisions of contract, including General and Supplementary Conditions and other Divisions of these Specifications, apply to work of this section.

1.02 DEFINITION

A. Building Commissioning work is a joint team effort to ensure that all equipment and systems have been completely and properly installed and put into services. The commissioning work will begin only after all systems are 100% complete and functional. The factory start-up of all equipment must have been carried out as well as control system completion and start-up and balancing. The team is made up of representatives from the owner's Engineer and Contractor's organizations.

B. The Contractor shall schedule system commissioning. The trades represented during the commissioning include sheet metal, piping and fitting, refrigeration, controls and balancing. The lead tradesmen for each trade who actually performed the work is to be present. All trades are to be present as scheduled during the commissioning session. The balancing and control contractors may be released when their portions of work have been completed. The Contractor will submit a schedule of activities for commissioning at least 30 days prior to beginning commissioning. A suggested schedule outline is as follows:

1. Day One (Monday) Owner and Engineer; Mechanical Contractor optional.
2. Day Two (Tuesday) Owner, Engineer, Balancing Contractor, Control Contractor and Mechanical Contractor.
3. Day Three (Wednesday) Owner, Engineer, Balancing Contractor, Control Contractor, Mechanical Contractor including Sheet Metal Contractor and Fitter.
4. Day Four (Thursday) Owner, Engineer, Mechanical Contractor, Sheet Metal Contractor, Fitter and Refrigeration Contractor.
5. Day Five (Friday) Refrigeration Contractor and all parties from day four to complete tasks not completed previously.

1.03 DOCUMENTS

A. The following documents shall be assembled and bound into the operating and maintenance manuals and delivered according to Section 01730, Maintenance Data.

1. Plumbing sanitization certified.
2. Certificates of Completion from the following Contractors:
    a. Sheet Metal
    b. Plumbing and Piping
    c. Automatic Temperature Control
    d. Refrigeration
    e. Fire Protection
3. Balancing report including duct pressure test.
4. Boiler startup certificate, including stack gas test.
5. Hydronic system water analysis report.
6. Steam boiler water analysis report.
7. All operation and maintenance data as described in Section 01730.

B. Record Drawings will be submitted to District according to Section 01700, Contract Closeout.

1.04 SCOPE OF WORK

A. The work included under this section includes a complete and thorough investigation of all systems in order to ensure proper installation and operation of all components and systems. The following systems will be evaluated:

1. Automatic temperature controls.
2. Instrumentation (gauges, thermometers, etc.)
3. Air handling equipment.
4. Air Distribution and exhaust systems.
5. Boilers.
6. Hydronic heating and steam distribution systems.
7. Refrigeration equipment.
8. Fire protection.
9. Labeling, marking and color coding.

PART 2. PRODUCTS

2.01 VALVE TAGS

A. Tag all valves with round, numbered, brass tags. Fasten to valve stem with beaded chain. In boiler room and fan room provide a framed, typewritten directory under glass. Directory shall list all valve tag numbers, service of valve, system valve is located in, location of valve and whether valve is normally open or closed. Provide a separate tag sequence for each service. Each service prefix to be abbreviation used for that service (sprinkles, S-1, S-2, etc.; Air, A-1, A-2, etc.)

2.02 EQUIPMENT LABELS

A. Label all equipment with heat resistant, laminated plastic labels having engraved lettering 1/2-inch high and fastened in place with rivets, screws or pressure sensitive, double sided tape, on back of label. Examples “Pump P-1,” “Water Heater No. 1,” “Exhaust Fan Ref-2,” Air Handling Unit AHU-1,” etc.

2.03 PIPING LABELS

A. Label all service piping with adhesive backed, flexible, vinyl labels, sealed in clear polyester film. Secure labels with directional flow adhesive vinyl banding tape. Labels and tape to comply with ANSI A13.1-1982 for color and size.

B. Manufacturer: Baker, Emed, Setmark, Seton.

2.04 WATER TREATMENT CHEMICALS

A. Obtain the services of a professional water treatment firm for testing the steam boiler water and prescribing the treatment chemicals.

B. Provide a one-year supply of treatment chemicals to maintain the boiler water at or below the following conditions.

1. Neutralized specific conductance.
2. Total alkalinity 600 ppm.

3. Suspended solids 250 ppm.
4. Silica 90 ppm.

The treatment will include a filming amine additive for protection of the condensate piping.

C. Supply materials are to be based on boiler operation of 10 hours per week at 50% to 100% of capacity with 50% of condensate being returned to system.

PART 3. EXECUTION

3.01 SYSTEM COMMISSIONING

A. The following procedures will be verified during the commissioning process. All procedures are to be checked and carried out by the contractor prior to commissioning.

3.02 PRELIMINARY WALK THROUGH

A. A preliminary walk through to provide a visual check of the various systems to verify that all components are properly installed. The following items will be observed.

B. Air Distribution:

1. Mounting and support of equipment.
2. Noise, vibration, air and water leaks.
3. Air filtration, presence of dampers, diffusers, grilles, fire dampers and access doors.
4. Presence of thermostats and other adjustable temperature control devices.
5. Presence of smoke sensors and other safety devices.
6. Instrumentation, gauges, thermometers, flow measuring devices.
7. Hoods and exhaust systems.

C. Plumbing and Piping Systems:

1. Mounting support of equipment.
2. Noise, vibration and leaks.
3. Strainers, values fixtures and instrumentation and flow measuring or control.

D. Heating and Cooling Equipment:

1. General installation and service access.
2. Proper cycling.
3. Excessive noise, vibration or leads.
4. Fuel storage, distribution instrumentation and filtration.
5. Presence of safety devices and controls.

E. Refrigeration Systems:

1. Compressor operation and lubrication.
2. Unit cooler operation.
3. Cooling fluid flow and control.
4. Temperature maintenance and instrumentation.
5. Vibration, excessive noise and leaks.

F. Fire Protection System:

1. General installation and compliance with approved shop drawings and design drawings.

2. Head locations.
3. Proper functioning of alarms.
4. NFPA certification - Chapter 13.
5. Locate spare heads, wrench and NFPA 13A manual.

G. Any discrepancies or deficiencies are to be noted for further investigation during the detailed evaluation.

H. Verify that all cleaning has been completed.

I. Verify that all touch-up painting has been completed.

3.03 DETAILED EVALUATION

A. Air distribution systems:

1. Spot checks of approximately 10% of air outlets will be made. Engineer will select outlets and air balancer will demonstrate a reading of that outlet. Where appropriate, the thermostat will be adjusted to simulate full cooling, full heating, hood operation, etc.
2. Air balancer will demonstrate total air flow at each air handler at simulated full cooling and/or maximum fresh air.
3. Air balancer will demonstrate proper air flow at each fume hood, based on previously marked sash positions.
4. Air balancer will demonstrate proper air flow at each process hood.
5. Demonstrate proper room static pressure with respect to adjacent space(s).
6. Motor HP draw will be demonstrated at selected fan motors.
7. Discrepancies between balancing report and spot check results will be dealt with to correct any deficiencies. In the event that significant deficiencies are detected, the entire balancing procedures may be required to be repeated.
8. Any noted drafts or noisy air distribution devices will be evaluated and corrective action taken.
9. Any balancing related problems identified during the Preliminary Walk Through will be addressed and corrected.

B. Heat Transfer and Hydronic Systems:

1. Contractor will demonstrate that strainers have been cleaned by team observation of approximately 5 strainers selected by the Engineer. If significant debris is found in selected strainers, all strainers will be cleaned.
2. Balancer will demonstrate fluid flows at approximately 10% of flow control devices.
3. Selected pumps will have amp draws demonstrated.
4. Fluid temperatures and pressures will be observed at each system, and compared with design values.
5. Glycol concentration will be measured for compliance with design specifications.
6. Any noted deficiencies between the sample evaluations and the balancing report will be dealt with to correct any deficiencies. In the event that significant deficiencies are detected, the entire balancing procedures may be required to be repeated.
7. Any balancing related problems identified during the Preliminary Walk Through will be addressed and corrected.

C. HVAC Control Systems:

1. The Control Contractor will demonstrate the proper function of each control system, and instruct Owner’s operating personnel in the proper operation of the

systems. The balancing contractor will be present to correct flows and assist in fine tuning system.

2. Control Contractor will demonstrate the proper functioning of the following devices:

   a. Each thermostat to adequately control heating and cooling.
   b. Each automatic damper and valve.
   c. Fresh air and return air dampers.
   d. Economizer operation.
   e. Boiler, chiller and pump starting and stopping from program control.
   f. Exhaust fan and air handler start and stop.
   g. Variable air volume control of VAV air handlers, and tracking of associated return fan.
   h. Variable air volume control of VAV exhaust fans
   i. Freeze prevention control.

3. Control Contractor will point out proper labeling of each control device.
4. Control Contractor and Balancing Contractor will coordinate efforts as required until all functions of air distribution and hydronic systems have been fully demonstrated and have been accepted by the District and the Engineer.

D. Sheet Metal Contractor will demonstrate the following:

1. Proper voltage, overload heater size and rotation of each motor driven fan or air handling device.
2. Proper belt tension and drive alignment.
3. Proper clearance and deflection of spring isolation of fans and drives.
4. Proper installation of flexible connections.
5. Sealing of all ductwork per specification.
6. Complete insulation of ductwork and plenums and sound attenuation where required.
7. Completion of any deficiencies pointed out during balancing and control system commissioning.
8. Marking and labeling of each air handling device.
9. Proper shutdown of air handling systems in the event of presence of smoke or products of combustion.
10. Monitor bearings for heat buildup or noise.
11. Demonstrate that heating and cooling coil fins are straight.
12. Demonstrate operation and maintenance of humidification equipment.
13. Sheet Metal Contractor will correct any deficiencies noted during Preliminary Walk Through and Detailed Evaluation.
14. Correct any deficiencies discovered during Preliminary Walk Through and Detailed Investigation.

E. Each Contractor will explain any special features or intricacies of system operation to the building operating personnel. Items covered should include safety features, hazards to be aware of, precautions to be observed to avoid damage to equipment and any necessary seasonal adjustments which are required. Generally discuss service frequency of devices such as bearings, belt drives, filters, strainers, etc. Show maintenance and operating personnel where additional information can be found in the Operating and Maintenance Manuals.

F. Plumbing and Piping Contractor will demonstrate and explain the following:

1. The cleaning, degreasing and flushing of piping systems.
2. The proper filling of hydronic and chilled water systems.
3. Proper glycol concentration and Ph of hydronic and chilled water systems.
4. Piping and valve marking.

5. Equipment labeling.
6. Demonstrate proper operation of fuel supply system.
7. Demonstrate proper operation of sewage lift pump.
8. Demonstrate proper operation of sump pumps.
9. Tour facility and demonstrate proper installation and operation of plumbing fixtures and piping systems.
10. Demonstrate and explain chemical feed equipment.
11. Demonstrate operation of air compressor, deionized water equipment and other process equipment.
12. Correct any deficiencies discovered during Preliminary Walk through and Detailed Investigation.

G. Refrigeration Contractor will instruct equipment operators and demonstrate and explain the following:

1. Proper charging and lubrication of each refrigeration system.
2. Vibration isolation of equipment.
3. Proper piping insulation.
4. Adequate air flow at cold diffusers.
5. Proper connection of piping.
6. Proper coolant flow and temperature.
7. Defrost of cold diffusers.
8. Maintenance of required temperature in cold boxes.
9. Proper maintenance and cleaning.
10. Labeling of equipment and control devices.
11. Verify proper voltage, rotation and overload heater sizing.
12. Correct any deficiencies noted during Preliminary Walk Through and Detailed Investigation.

3.04 CERTIFICATION

A. The following certificate will be signed by each trade listed, indicating that all commissioning work has been completed and that all systems are installed according to the contract documents and manufacturer's installation instructions. The Contractors further certify that all adjustment, lubrication, alignment and startup procedures have been carried out.

B. Individual Contractor Certifications: (see next page)

CERTIFICATE OF COMPLETION

(Building) _____

(Address) _____

_____

1. Mechanical Contractor _____
(firm)

_____ _____ _____
(signature) (title) (date)

2. Sheet Metal _____
(firm)

_____ _____ _____
(signature) (title) (date)

3. Plumbing _____
(firm)

_____ _____ _____
(signature) (title) (date)

4. Fitting _____
(firm)

_____ _____ _____
(signature) (title) (date)

5. Balancing _____
(firm)

_____ _____ _____
(signature) (title) (date)

6. Controls _____
(firm)

_____ _____ _____
(signature) (title) (date)

7. Refrigeration _____
(firm)

_____ _____ _____
(signature) (title) (date)

8. Insulation _____
(firm)

_____ _____ _____
(signature) (title) (date)

9. Fire Protection _____
(firm)

_____ _____ _____
(signature) (title) (date)

10. Refrigeration _____
(firm)

_____ _____ _____
(signature) (title) (date)

11. Refrigeration _____
(firm)

_____ _____ _____
(signature) (title) (date)

12. Refrigeration _____
(firm)

_____ _____ _____
(signature) (title) (date)

The engineer of record has observed the commissioning process and acknowledges that it was carried out according to the contract documents.

_____ _____
(firm) (date)

_____
(signature)

The District has observed the commissioning and acknowledges that it was carried out to his satisfaction. The District acknowledges receipt of the following documents and services:

1. Operating and Maintenance Manuals
2. As-built Drawings
3. All Certificates
4. Operator Instruction

_____ _____
(organization) (date)

_____ _____ _____
(signature) (title) (date)

3.05 SYSTEM WARRANTY

A. The one-year warranty period which begins with beneficial use of the systems is the responsibility of the Contractor. It is the Contractor's responsibility to repair, adjust or replace any defective material and equipment during the warranty period. It is the Owner's responsibility to notify the Contractor of any deficiencies immediately.

B. During the warranty period, the Owner and building operators should not make any system adjustments, alterations of repairs without first contacting the Contractor. Adjustment of room thermostats may be made at building occupant's discretion without first contacting the Contractor. The Contractor should be contacted as soon as possible so that a permanent repair can be carried out. The MAINTENANCE/ REPAIR REQUEST FORM (see example at the end of this section) should be used to report and document system malfunctions. Requests must be signed by building superintendent.

C. Emergency repairs and adjustments may be made to prevent system or building components without first contacting the Contractor. Emergency procedures would include items such as repairing leaks, adjusting controls to prevent building freeze-up or other similar adjustments to prevent the building from becoming uninhabitable or unsafe.

D. Maintenance procedures which are the responsibility of the building Owner during the warranty period include:

1. Replacement of air filters.
2. Replacement of repair of any items which are broken or damaged by building users.
3. Replacement of water softener salt.
4. Replacement (if required) acid neutralization marble.
5. Cleaning of oil separators or grease traps.

E. Maintenance / Repair Request:

1. The form on the next page is to be used by the Owner and building occupants to document and report any malfunctions in mechanical systems.

MAINTENANCE / REPAIR REQUEST

Reported by _____ Phone (_____) _____ Date _____

Building Superintendent Signature _____

Describe Malfunction _____

_____

_____

Location (i.e. room number/above ceiling/etc.) _____

_____

Describe any Temporary Adjustments or Repairs _____

_____

_____

What is the Urgency of Repair _____

_____

Has this Been Reported by Telephone _____ to Whom _____

Name _____ Firm _____ Phone (___) _____

Date _____ Time _____ Action Promised _____

_____

Repairs Made _____

_____

_____

by _____ Firm _____ Date _____

Contractor's Comments _____

_____

_____

_____

_____

Certification that repairs have been satisfactorily completed

(Building Superintendent) _____ Date _____ Time_____

Send one copy of this form to Contractor. Place one copy of this form in the Building Operating and Maintenance Manual under the appropriate tab.

END OF SECTION

PROJECT CLOSEOUT

PART 1. GENERAL

1.01 GENERAL CONDITIONS

A. Definitions: Closeout is hereby defined to include general requirements near the end of contract time, in preparation for final acceptance, final payment, normal termination of contract, occupancy by Owner and similar actions evidencing completion of the work. Specific requirements for individual units of work are specified in sections of Division 2 through 16. Time of Closeout is directly related to “Substantial Completion”.

1.02 RELATED REQUIREMENTS SPECIFIED ELSEWHERE

A. Sections 00700 and 00800: General and Supplementary General Conditions of the Contract for Construction

B. Section 01750: Warranty of Work after Final Payment

C. Section 01750: Certificate of Compliance

1.03 SUBSTANTIAL COMPLETION

A. When Contractor considers work substantially complete as defined in contract conditions, he shall submit to the Project Manager:

1. Written notice that work, or designated portion thereof, is substantially complete.
2. List of items to be completed or corrected.
3. Conditional Certificate of Occupancy from governing authorities.
4. Project Records and Contract Record Drawings.

B. Project Manager will at the mutually agreed time, make inspection to determine completion status.

1. Should Project Manager determine that work is not substantially complete:

   a. Project Manager will promptly notify Contractor, in writing, giving reasons therefore.
   b. Contractor will remedy work deficiencies, and send second notice of substantial completion to Project Manager.
   c. Project Manager will re-inspect work, with his cost and/or expense for such to be the Contractor's responsibility.

2. When Project Manager concurs that work is substantially complete, the Architect will:

   a. Prepare Certificate of Substantial Completion accompanied with Contractor’s list of items to be completed or corrected, as verified and amended by the Project Manager and Architect.
   b. Submit certificate to Owner and Contractor for their written acceptance of the responsibilities assigned to them in the certificate.

1.04 FINAL INSPECTION

A. When Contractor considers work complete, he shall submit written certification that:

1. Contract documents have been reviewed.

2. Contractor has inspected work for compliance with contract documents.
3. Work has been completed in accordance with contract documents.
4. Equipment and systems have been tested and operated in presence of Owner's representative and are operational.
5. Copy of substantial completion punch lists stating that each item has been completed or otherwise resolved for acceptance.

B. Project Manager will, at the mutually agreed time, inspect the work to verify completion status.

1. Should the Project Manager consider work incomplete or defective:

a. Project Manager will promptly notify Contractor in writing of any incomplete or defective work.
b. Contractor shall immediately remedy deficiencies, and send written certification to Project Manager that work is complete.
c. Project Manager will re-inspect work.

2. When Project Manager finds the work acceptable under contract documents, he will request Contractor to make closeout submittals.

1.05 RE-INSPECTION FEES

A. Should Project Manager and or Engineer be required to make more than one substantial and/or final inspection due to Contractor's failure to correct specified deficiencies, the Contractor shall bear all costs made necessary by such additional inspections.

1.06 SUBMITTALS

A. Record Drawings

1. Prior to Final Completion of the Project, the Contractor and/or Subcontractors under his direction, shall submit records of changes on prints to Project Manager.
2. Accompany submittal with transmittal letter, to Project Manager, containing:

a. Date
b. Project title and number
c. Contractor's name and address
d. Title and number of each record document
e. Certification that each document as submitted is complete and accurate.
f. Signature of Contractor, or his authorized representative.

3. Provide drawings and special system drawings on CD in AutoCad format.

B. Project Record Documents

C. Operating and Maintenance Data

D. Building Official's Certificate of Occupancy (MUST BE RECEIVED IN TIME TO ALLOW OCCUPANCY ON DATE REQUIRED IN CONTRACT DOCUMENTS).

E. Warranty of Work after Final Payment Section 01750

F. Certificate of Compliance Section 01750

G. AHERA Exclusion document Section 01750

H. Department of Revenue Tax Clearance Section 01750

I. Department of Labor Tax Clearance Section 01750

J. Department of Labor Notice of Completion of Public Works Section 01750

K. Certificate of Domestic water disinfection.

L. Evidence of Payments and Release of Liens

1. Contractor's Affidavit of Payment of Debt and Claims.
2. Contractor's Affidavit of Release of Liens including the following:

    a. Consent of Contractor's Surety to Final Payment.
    b. Contractor's Release of Waiver of Liens.
    c. Separate releases of Waivers of Lien for each subcontractor, supplier, and others with lien rights against Owner’s property.

M. Storm Water Pollution Prevention Plan (SWPPP) and associated documents.

1. A copy of the Notice of Intent (NOI) and the plan review location notice shall be posted in the project office on site.
2. A copy of the SWPPP shall be retained in the project office during construction.
3. All records relating to the SWPPP, as well as the Plan, the NOI, and NOT shall be retained by the Contractor and the Municipality of Anchorage for three years after the NOT is issued.
4. Copies of all SWPPP documents are to be delivered to the Municipality of Anchorage and the Anchorage School District upon completion of the project and before final closeout.

N. Closeout Checklist Section 01750

1. A closeout checklist is provided for convenience in tracking the necessary documentation and deliverables for project closure. This checklist should be updated and submitted with each closeout deliverable.

1.07 FINAL APPLICATION FOR PAYMENT

A. Follow procedures specified in General and Special Conditions, and also note miscellaneous prerequisites for final payment noted in this section.

PART 2. PRODUCTS (NOT USED)

PART 3. EXECUTION (NOT USED)

END OF SECTION

CLEANING

PART 1. GENERAL

1.01 DESCRIPTION

A. Execute cleaning, during progress of the work, and at completion of the work.

1.02 DISPOSAL REQUIREMENTS

A. Conduct cleaning and disposal operations to comply with codes, ordinances, regulations, and anti-pollution laws.

PART 2. PRODUCTS

2.01 MATERIALS

A. Use only those cleaning materials which will not create hazards to health or property and which will not damage surfaces.

PART 3. EXECUTION

3.01 DURING CONSTRUCTION

A. Execute periodic cleaning to keep the work, the site, and adjacent areas free from accumulations of waste materials, rubbish, and debris, resulting from construction operations.

B. Provide on-site containers for the collection of waste materials, debris, and rubbish.

C. Remove waste materials, debris, and rubbish from the site periodically and dispose of.

3.02 DUST CONTROL

A. Clean interior spaces prior to the start of finishing painting and continue cleaning on an as-needed basis until painting is finished.

B. Schedule operations so that dust and other contaminants resulting from cleaning process will not fall on wet or newly coated surfaces.

3.03 FINAL CLEANING

A. Employ skilled workmen for final cleaning.

B. Remove grease, mastic, adhesives, dust, dirt, stains, fingerprints, labels, and other foreign materials from sight-exposed interior and exterior surfaces.

C. Prior to final completion, or Owner occupancy, the Contractor shall conduct an inspection of sight-exposed interior surfaces and all work areas to verify that the entire work is clean.

END OF SECTION

PROJECT RECORD DOCUMENTS

PART 1. GENERAL

1.01 REQUIREMENTS INCLUDED

A. Maintenance of record documents and samples.

B. Submittal of record documents and samples.

1.02 RELATED REQUIREMENTS

A. Section 00700 - General Conditions of the Contract for Construction.

B. Section 01300 - Submittals.

C. Section 01340 - Shop Drawings, Product Data and Samples.

D. Section 01700 - Project Closeout.

E. Individual Specifications Sections: Manufacturer's certificates and certificates of inspection.

1.03 MAINTENANCE OF DOCUMENTS AND SAMPLES

A. In addition to requirements in General Conditions, maintain at the job site for Owner's use one record copy of:

1. Contract Drawings.
2. Specifications.
3. Addenda.
4. Change orders and other modifications to the Contract.
5. Reviewed shop drawings, product data and samples.
6. Field test records.
7. Inspection certificates.
8. Manufacturer's certificates.
9. Request for Information (RFI)
10. Request for Proposal (RFP)
11. Current Construction Network.

B. Store record documents and samples in the field office apart from the documents used for construction.

C. Label and file record documents and samples in accordance with Section number listings in Table of Contents of this Project Manual. Label each document "PROJECT RECORD" in neat, large, printed letters.

D. Maintain record documents in a clean, dry and legible condition. Do not use record documents for construction purposes.

Keep record documents and samples available for inspection by the Project Manager.

1.04 RECORDING

A. From the copies of Contract Documents to be furnished by Project Manager, the Contractor and/or Subcontractors shall record on a set of clean, new prints each and every change that is made, at time it is made, in red. This includes any changes that are made in partitions, doors, or otherwise in arrangement of construction of buildings as well as a complete record of exact manner in which electrical and mechanical work, piping, etc., are installed. All Change Orders, RFI's, and Information Bulletins shall be incorporated. Dimensions shall be included where necessary to accurately locate piping and other items that will be concealed underground or in finished building that may later be necessary to service.

B. Contract Drawings: Legibly mark to record actual construction.

1. Horizontal and vertical location of underground utilities and appurtenances referenced to permanent surface improvements.
2. Field changes of dimensions and detail.
3. Changes made by Change Order and other modifications.
4. Details not on original contract drawings.
5. References to related shop drawings and modifications.

C. Shop Drawings: Maintain as record documents, legibly annotate appropriate drawings to record changes made after review.

D. Specifications and Addenda: Legibly mark up each section to record:

1. Changes made by Change Order.
2. Manufacturer, trade name and catalog number of each product actually installed, particularly optional items and substitute items.
3. Changes made by addenda and modifications.
4. Other matters not originally specified.

E. Label each document "PROJECT RECORD" in printed letters.

F. Keep record documents current. No progress payments will be made until record documents are verified by the Project Manager as being current.

G. Do not permanently conceal any work until required information has been recorded.

H. Methodology:

1. Changes to Work are described by source documents, including, but not limited to, Field Directives (FD), Information Bulletins (IB), Requests for Information (RFI), and Requests for Proposals (RFP), and their attachments. (Reference Section 00700, Article 12.)
2. Project Record drawings are to completely and clearly reflect all Changes to Work by graphically showing actual changes to dimensions, locations, materials, assemblies, and other conditions; by graphically deleting conditions replaced by such changes; and by indicating applicable source document's reference number. Such reference number shall not be the sole representation of Changes to Work shown on Project Record drawings.
3. Where A/E furnishes supplemental drawings, Project Record drawings are to show both the A/E's supplemental drawing reference number and the source document's reference number at the affected location.

1.05 SUBMITTAL

A. Prior to Final Completion of the Project, the Contractor and/or Subcontractors under his direction, shall submit records of changes on prints to Project Manager.

B. Accompany submittal with transmittal letter, to Project Manager, containing:

1. Date
2. Project title and number
3. Contractor's name and address
4. Title and number of each record document
5. Certification that each document as submitted is complete and accurate.
6. Signature of Contractor, or his authorized representative.

PART 2. PRODUCTS (NOT USED)

PART 3. EXECUTION (NOT USED)

END OF SECTION

PART 1. GENERAL

1.01 SECTION INCLUDES

A. Format and content of manuals.

B. Instruction of Owner's personnel.

C. Schedule of submittals.

1.02 RELATED SECTIONS

A. Section 01300 - Submittals

B. Section 01400 - Quality Control

C. Section 01410 - Testing Laboratory Services

D. Section 01420 - Special Inspections

E. Section 01600 - Material and Equipment

F. Section 01700 - Project Closeout

G. Section 01750 - Closeout Forms

H. Individual Specifications Sections: Specific requirements for operation and maintenance data.

1.03 QUALITY ASSURANCE

A. Prepare instructions and data by personnel experienced in maintenance and operation of described products.

1.04 FORMAT

A. Prepare data in the form of an instructional manual.

B. Electronic: Optical Character Recognition (OCR) formatted pdf document.

C. Cover: Identify each pdf with a title “OPERATION AND MAINTENANCE INSTRUCTIONS”; identify title of Project; identify subject matter of contents.

D. Provide bookmarked pdf for each separate product and system, with typed description of product and major component parts of equipment.

E. Text: Manufacturer’s printed or typewritten data.

F. Drawings: Provide with O&M documents.

G. Contents: Prepare a Table of Contents for each volume, with each Product or System description identified, in three parts as follows:

1. Part 1: Directory, listing names, addresses, and telephone numbers of Architect/Engineer, Contractor, Subcontractors, and major equipment suppliers.

2. Part 2: Operation and maintenance instructions arranged by and subdivided by specification section. For each category, identify names, addresses, and telephone numbers of Subcontractors and suppliers. Identify the following:

    a. Significant design criteria.
    b. List of equipment.
    c. Parts list for each component.
    d. Operating instructions.
    e. Maintenance instructions for equipment and systems.
    f. Maintenance instructions for finishes, including recommended cleaning methods and materials, and special precautions identifying detrimental agents.

3. Part 3: Project documents and certificates, including the following:

    a. Shop drawings and product data.
    b. Air and water balance reports.
    c. Certificates.
    d. Photocopies of warranties and bonds.

1.05 CONTENTS, EACH VOLUME

A. Table of Contents: Provide title of Project; names, addresses, and telephone numbers of Architect/Engineer, Subconsultants, and Contractor with name of responsible parties; schedule of products and systems, indexed to content of the volume.

B. For Each Product or System: List names, addresses and telephone numbers of Subcontractors and suppliers, including local source of supplies and replacement parts.

C. Product Data: Mark each sheet to clearly identify specific products and component parts, and data applicable to installation. Delete inapplicable information.

D. Drawings: Supplement product data to illustrate relations of component parts of equipment and systems, to show control and flow diagrams. Do not use Project Record Documents as maintenance drawings.

E. Typed Text: As required to supplement product data. Provide logical sequence of instructions for each procedure, incorporating manufacturer’s instructions specified in Section 01400.

F. Warranties and Bonds: Bind in copy of each.

1.06 MANUAL FOR MATERIALS AND FINISHES

A. Building Products, Applied Materials, and Finishes: Include product data, with catalog number, size, composition, and color and texture designations. (Provide information for re-ordering custom manufactured Products.)

B. Instructions for Care and Maintenance: Include manufacturer's recommendations for cleaning agents and methods, precautions against detrimental agents and methods, and recommended schedule for cleaning and maintenance.

C. Moisture Protection and Weather Exposed Products: Include product data listing applicable reference standards, chemical composition, and details of installation. Provide recommendations for inspections, maintenance, and repair.

D. Additional Requirements: As specified in individual Product specification sections.

E. Provide a listing in Table of Contents for design data.

1.07 MANUAL FOR EQUIPMENT AND SYSTEMS

A. Each Item of Equipment and Each System: Include description of unit or system, and component parts. Identify function, normal operating characteristics, and limiting conditions. Include performance curves, with engineering data and tests, and complete nomenclature and model number of replaceable parts.

B. Panelboard Circuit Directories: Provide electrical service characteristics, controls, and communications; typed.

C. Include color coded wiring diagrams as installed.

D. Operating Procedures: Include start-up, break-in, and routine normal operating instructions and sequences. Include regulation, control, stopping, shutdown, and emergency instructions. Include summer, winter, and any special operating instructions.

E. Maintenance Requirements: Include routine procedures and guide for troubleshooting; disassembly, repair, and reassembly instructions; and alignment, adjusting, balancing, and checking instructions.

F. Provide servicing and lubrication schedule, and list of lubricants required.

G. Include manufacturer's printed operation and maintenance instructions.

H. Include sequence of operation by controls manufacturer.

I. Provide original manufacturer’s parts list, illustrations, assembly drawings, and diagrams required for maintenance.

J. Provide control diagrams by controls manufacturer as installed.

K. Provide Contractor’s coordination drawings, with color-coded piping diagrams as installed.

L. Provide charts of valve tag numbers, with location and function of each valve, keyed to flow and control diagrams.

M. Provide list of original manufacturer's spare parts, current prices, and recommended quantities to be maintained in storage.

N. Include test and balancing reports as specified.

O. Additional Requirements: As specified in individual Product specification sections.

P. Provide a listing in Table of Contents for design data, with tabbed (fly sheet indexed) and space for insertion of data.

1.08 MANUALS

A. Operating and Maintenance Manuals: Submit electronic manual for each identified category.

1. Air Balance Report
2. Building Commissioning Reports
3. Materials and Finishes Manual
4. Equipment and Systems Manual
5. Digital and Pneumatic Controls Manual
6. Fire Systems Manual

B. Warranty and Special Warranty Manual: Submit electronic manuals.

1.09 INSTRUCTION OF OWNER PERSONNEL

A. Before final inspection, instruct Owner's designated personnel in operation, adjustment, and maintenance of products, equipment, and systems, at agreed upon times.

B. For equipment requiring seasonal operation, provide instructions for all seasons

C. Use operation and maintenance manuals as basis for instruction. Review contents of manual with personnel in detail to explain all aspects of operation and maintenance.

D. Prepare and insert additional data in Operation and Maintenance Manual when need for such data becomes apparent during instruction.

1.10 SUBMITTALS

A. Submit copies of preliminary draft or proposed formats and outlines of contents before start of Work. Project Manager will review draft and return copy with comments.

B. For equipment, or component parts of equipment put into service during construction and operated by Owner, submit advance copy of documents within ten days after acceptance. Include same information within final Operations and Maintenance documents.

C. Submit draft copy of completed volumes 60 days following acceptance of Project Submittals. Allow 20 days for Architect review and return to Contractor. Provide Contractor resubmittal within 14 days. Allow 14 days for Architect review of resubmittal. Revise content of all document sets as required prior to final submission.

D. Submit fully approved volumes within 115 days after acceptance of Submittals or 10 days prior to Substantial Completion, whichever occurs first.

PART 2. PRODUCTS (NOT USED)

PART 3. EXECUTION (NOT USED)

END OF SECTION

CLOSEOUT FORMS

PART 1. GENERAL

1.01 The following forms are to be submitted by the Contractor prior to final project closeout.

1.02 CERTIFICATION OF SUBSTANTIAL COMPLETION

A. Use Anchorage School District Form 101 attached herein.

1.03 CONTRACTOR'S AFFIDAVIT OF PAYMENT OF DEBTS AND CLAIMS

A. Use Anchorage School District Form 102 attached herein.

1.04 RELEASE ON CONTRACTS

A. Use Anchorage School District Form 103 attached herein.

1.05 CONSENT OF SURETY COMPANY TO FINAL PAYMENT

A. Use Anchorage School District Form 104 attached herein.

1.06 CONSENT OF SURETY TO REDUCTION IN OR PARTIAL RELEASE OF RETAINAGE

A. Use Anchorage School District Form 105 attached herein.

1.07 CERTIFICATE OF COMPLIANCE

A. The Contractor shall submit a notarized Certificate of Compliance, contained in this section, with his application for Final Payment.

1.08 WARRANTY OF WORK AFTER FINAL PAYMENT

A. The Contractor shall furnish to the Owner a notarized Warranty of Work after Final Payment, contained in this section, with his application for Final Payment.

1.09 AHERA EXCLUSION DOCUMENT

A. The Contractor shall furnish to the Owner a signed AHERA Exclusion Document, contained in this section, with his application for Final Payment.

1.10 DEPARTMENT OF LABOR NOTICE OF COMPLETION OF PUBLIC WORKS

A. The Contractor shall furnish to the Owner a Notice of Completion of Public Works form approved by the Department of Labor with his application for Final Payment.

1.11 DEPARTMENT OF REVENUE TAX CLEARANCE REQUEST FORM

A. For projects funded through the Department of Education (debt reimbursement or DEED grants), the Contractor shall furnish to the Owner a Tax Clearance Request Form approved by the Department of Revenue with his application for Final Payment.

1.12 DEPARTMENT OF LABOR TAX CLEARANCE REQUEST FORM

A. For projects funded through the Department of Education (debt reimbursement or DEED

grants), the Contractor shall furnish to the Owner a Tax Clearance Request Form approved by the Department of Labor, with his application for Final Payment.

1.13 CLOSEOUT CHECKLIST

A. The closeout checklist is designed to assist the contractor and project manager in the process of completing the project.

CERTIFICATE OF SUBSTANTIAL COMPLETION

Project: _____ Contract Number: _____

Contractor: _____ Contract Date: _____

Architect: _____ Date of Issuance: _____

Owner: ANCHORAGE SCHOOL DISTRICT
1301 Labar Street
Anchorage, Alaska 99515

Project Description:

The work performed under this contract has been reviewed and found to be substantially complete. The date of Substantial Completion is hereby established as: _____

_____

Definition of Date of Substantial Completion:
The date of substantial completion of the project is the date certified by the Owner when the work is substantially complete in accordance with, and defined in the Contract Documents.

A list of items to be completed or corrected, prepared by the Owner and verified and amended by the Architect is appended hereto. The failure to include any items or such list does not alter the responsibility of the Contractor to complete the project in accordance with the Contract Documents.

The Contractor will complete or correct the work on the list of items appended hereto within 30 days from the date of substantial completion.

The responsibilities of the Owner and the Contractor for maintenance, heat, utilities, and insurance shall be as follows: _____

_____

In reliance upon the certification of the Contractor and the Architect, the Owner hereby accepts the project as substantially complete. In accordance with the Contract Documents, the Owner hereby elects to assume occupancy of _____ _____

_____ at _____ a.m./p.m. on
_____ .

Owner: **ANCHORAGE SCHOOL DISTRICT**

By: _____ Title: _____ Date: _____

Architect:

By: _____ Title: _____ Date: _____

Contractor:
By: _____ Title: _____ Date: _____
ASD 101 (01/03)

CONTRACTOR'S AFFIDAVIT OF PAYMENT OF DEBTS AND CLAIMS
ANCHORAGE SCHOOL DISTRICT

WHEREAS, by the terms of a contract dated entered into by the Anchorage School District, and for the construction of

The undersigned, pursuant to the General Conditions of the Contract for the construction, , hereby certifies that, except as listed below, he has paid in full or has otherwise satisied all obligations for all materials and equipment furnished, for all work, labor, and services performed, and for all known indebtness and claims against the Contractor for damages arising in any manner in connection with the performance of the Contract referenced above for which the District or his property might in any way be held responsible.

EXCEPTIONS:

IN WITNESS WHEREOF, the seal of the undersigned Contractor have been hereunto set this day of , at .

By

being first duly sworn, say that I am the agent for and executed the foregoing under authority of said company to do so; that I have read the same, know the contents thereof, and the matters set forth therein are as I truly believe.

By

Subscribed and sworn to before me this _____ day of , , at _____.

Notary Public in and for

My Commission Expires _____

ASDF Form 102

RELEASE ON CONTRACT
ANCHORAGE SCHOOL DISTRICT

WHEREAS, by the terms of a contract dated_____entered into by the Anchorage School District,

and_____for the construction of_____

_____, it is provided that:
"Neither the final payment nor the remaining retained percentage shall become due until the Contractor shall provide the Owner (1) with a waiver and release of liens, on the forms provided by the Owner, executed by the Contractor..."

NOW THEREFORE, in consideration of the premises and the payment by the Anchorage School District to the undersigned Contractor of the amounts due under the contract and any changes or modifications thereto, to wit, the sum

of $_____Dollars,
(Numbers)
(In Words)
the undersigned Contractor hereby releases and forever discharges the Anchorage School District including its property, particularly that real property known as:
_____ of the Anchorage School District, of and from all manner of debts, dues and sum or sums of money, accounts, claims, and demands whatsoever, in Law and in equity, under or by virtue of said contract, and warrants good title to all material, supplies and equipment installed or incorporated in the project and all work delivered to the premises, together with all improvements and appurtenances constructed thereon by:

_____to the Anchorage School District free of any claims, liens or encumbrances. Neither the undersigned nor any person, firm or corporation furnishing material or labor for any work covered by this Contract has any right to a lien upon the premises nor improvement thereon, except:
_____.

IN WITNESS WHEREOF, the signature of the undersigned Contractor has been hereunto set this

_____day of _____, 20_, at _____, Alaska.

Signature: _____

Printed Name: _____

I, _____, being first duly sworn, say that I am the agent for and executed the foregoing under authority of said company to do so; that I have read the same, know the contents thereof, and the matters set forth therein are as I truly believe.

Signature: _____

Subscribed and sworn to before me this _____day of _____, 20_, at _____, Alaska.

Notary Public in and for _____

My Commission Expires: _____. ASD Form 103

CONSENT OF SURETY COMPANY
TO FINAL PAYMENT

PROJECT:_____ **PROJECT NUMBER:**_____

TO: Anchorage School District **CONTRACT DATE:**_____

CONTRACTOR:_____

In accordance with the provisions of the Contract between the Owner and the Contractor as indicated above:

_____
(Surety Company)

on bond of

_____
(Contractor)

hereby approves of the final payment to the Contractor, and agrees that final payment to the Contractor shall not relieve the Surety Company of any of its obligations to **Anchorage School District, Owner** as set forth in said Surety Company's bond. Surety expressly agrees that any and all valid claims of sub-Contractors and all persons supplying labor or materials to the project will be satisfied by Contractor or Surety in a timely manner

IN WITNESS WHEREOF, the Surety Company has hereunto set its hand this

day of _____, 20_.

_____
Name of Surety Company

Attest

_____
Signature of Authorized Representative

_____
Title

ASD 104

CONSENT OF SURETY TO REDUCTION IN OR PARTIAL RELEASE OF RETAINAGE
ANCHORAGE SCHOOL DISTRICT

PROJECT: **PROJECT NUMBER:**

TO: Anchorage School District **CONTRACT DATE:**

CONTRACTOR:

In accordance with the provisions of the Contract between the Owner and the Contractor as indicated above, the:

_____ (Surety Company)

on bond of

_____ (Contractor)

HEREBY APPROVES OF THE REDUCTION IN OR PARTIAL RELEASE OF RETAINAGE to the Contractor as follows:

The surety agrees that such reduction in or partial release of retainage to the Contractor shall not relieve the Surety of any of its obligations to **ANCHORAGE SCHOOL DISTRICT, OWNER**

IN WITNESS WHEREOF, the Surety Company has hereunto set its hand this

day of .

_____
Name of Surety Company

Attest

_____
Signature of Authorized Representative

_____
Title

ASDF Form 105

CERTIFICATE OF COMPLIANCE

No final payment shall be made until the Contractor shall file with the Owner, prior to acceptance of the work, a notarized Certification of Compliance in the following form:

****

The Contractor does hereby certify that all work has been performed and materials supplied in accordance with the Drawings, Specifications and Contract Documents for the above work, and that:

No less than the prevailing rates of wages as ascertained by the governing body of the Contracting Agency has been paid to laborers, workmen and mechanics employed on this work;

There have been no unauthorized substitutions of Subcontractors; nor have any subcontracts been entered into without prior notice having been submitted to the Owner prior to the start of such subcontracted work;

No subcontract was assigned or transferred or performed by any Subcontractor other than the original Subcontractor, without prior notice having been submitted to the Owner together with the names of all Subcontractors;

All claims for material and labor and other paid service performed in connection with these specifications have been paid;

All monies due the State Industrial Accident Fund, the State Unemployment Compensation Trust Fund, the State Tax Commission, Hospital Associations and/or others have been paid.

In WITNESS WHEREOF, the undersigned has signed and sealed this instrument this

_____ day of _____, 20__.

_____
(Firm Name)

_____
(Signature)

_____
(Title)

(Attest)

(SEAL IF BIDDER IS A CORPORATION)

As determined necessary, evidence of compliance may be required to be submitted with and made a part of this Certificate of Compliance.

WARRANTY OF WORK

Prior to Final Payment, the Contractor shall furnish to the Owner a Warranty of Work in the following form:

****

The Contractor does hereby warrant all work and materials to be in full and complete accordance with the Contract Documents and Agreement between Owner and Contractor, and requirements appertaining thereto; that all work and materials are free from any and all defects and imperfections, and fully suitable for the use and purposes for which each and every part is intended. The Contractor also agrees that, should any defect develop or appear which the Project Manager or Owner's Representative finds was Not caused by improper use, the Contractor shall promptly, upon demand, fully correct, substitute and make good any such defective material without any cost to the Owner and will save the Owner harmless against any claim, demand, loss or damage by reason of any breach of this warranty.

The period of this warranty shall commence on the date of Substantial Completion.

The warranty shall continue to be in full force and effect for the period of one (1) year, except for those items for which a longer period of warranty is specifically stated in the Warranties for work in Technical Sections of the Specifications.

Warranties for work stated in Technical Section shall continue in full force and effect for the respective periods expressly stated.

In WITNESS WHERE, the undersigned has signed and sealed this instrument this

_____ day of _____, 20___.

(Firm Name) _____

(Signature) _____

(Title _____

(Attest) _____

(SEAL IF BIDDER IS A CORPORATION)

AHERA Exclusion Document

Contractor's Verification of Asbestos-Free Construction

Project: _____ **Project Number:** _____

Contractor: _____ **Date:** _____

To: Anchorage School District
Facilities Coordinator,
AHERA LEA Designated Person

To the best of our knowledge, no asbestos-containing building materials were installed in this project.

Attest: _____
Signature of Authorized Representative

_____
Title

Department of Labor and Workforce Development
Labor Standards and Safety Division
Wage and Hour Administration
www.labor.state.ak.us/lss/lss.htm

NOTICE OF COMPLETION OF PUBLIC WORKS

- This form must be typed or printed in ink.
- Fill in all blanks or form will be returned for correction (see back).
- Please allow a minimum of 30 working days for processing.

ENTER YOUR FAX # _____
AND LIST YOUR MAILING ADDRESS BELOW

Contractor, company or agency name, address, city, state & ZIP + 4

Additional Filing Fee May Be Required

Project Name		Contract #
Contract awarding agency		
Address		
City	State	ZIP + 4
Contract awarding agency contact person		Phone #
Location and city where work was performed		
DOLWD Project #		
Project Completion Date	/ /	

Primary contractor (has contract with the public agency)

IF YOU HAVE ALREADY PAID $5,000 IN FEES FOR THIS PROJECT, OR IF YOU PREVIOUSLY PAID ALL FEES DUE AND DID NOT HAVE ANY INCREASES IN CONTRACT AMOUNTS ENTER "NONE" AND, SKIP TO CERTIFICATION. OTHERWISE, DESCRIBE ADDITIONAL WORK.

Description of additional contract/subcontract work performed	Name of contractor who performed this work	Amount of subcontract

CERTIFICATION: I hereby certify that the above information is correct. Enclosed is the additional filing fee computed at 1% of the total amount of all new contracts on this project, including the contract price of new work performed by the primary contractor not previously reported on the Notice of Work, up to a maximum of $5,000. I also certify that all contractors who worked on this project complied with prevailing wage requirements as described in AS 36.05.010- .110 and AS 36.10.007- .990.

Total value of additional subcontracts	$
Additional value of work performed by primary contractor +	$
Amount subject to fee	$
	Multiply by .01
Supplemental fee enclosed =	$
ROUND FEES TO NEAREST DOLLAR	

Signature Date

Title

Fax # Phone #

For Dept. Use Only

T-36 Clearance Approved

By_____
Department of Labor and Workforce Development

For Dept. Use Only

Amount: _____ Check Number: _____ Cash ___
Received By: _____ Date: _____
Credit Card Confirmation _____
Visa ___ MC____
Project Name_____
DOLWD Project #

Wage & Hour date-stamped copy of this form will serve as temporary receipt.

D:\ie-temp\Temporary Internet Files\OLKF4\noticecompletionpublicworks.doc (6/27/03)

How to expedite the processing of your form:

ERRORS THAT CAUSE REJECTION

No fee included or incorrect amount. If total contract amount is less than $25,000 no filing fee is required. Contract amounts paid to owner/operators with no employees are exempt from the fee. **The maximum total filing fee for any one project is $5,000.00.**

Missing - Value of work performed by primary contractor.

Missing – The name of each **NEW** subcontractor and the amount of the contract OR the name of existing subcontractors and the amount of any **NEW** work not previously reported on the Notice of Work.

Missing – Notice of Completion of Public Works must be signed by an authorized representative.

FILING INSTRUCTIONS

Additional fees are required for any increase in contract value, unless the maximum fee ($5,000) has been paid.

If there is not enough space to list all required information on one form, use additional sheets. Please indicate at the top of each sheet "Page 1 of 2", "Page 2 of 2", etc. No other attachments will be accepted.

A Wage and Hour Administration (WH) date-stamped copy of this form will serve as a temporary receipt, while the acceptance of fees is processed. WH will mail or fax the approved copy of this form to the organization provided on the front of this form. Make a copy for your records. This will serve as your notice that the fees paid have been accepted by WH.

For questions call the nearest WH office:
Juneau: (907) 465-4842 Anchorage: (907) 269-4900 Fairbanks: (907) 451-2886

For more forms, see www.labor.state.ak.us/lss/lssforms.htm

Submit the notice and the appropriate filing fee to:

Alaska Department of Labor and Workforce Development
Wage and Hour Administration
3301 Eagle Street, Ste. 301
Anchorage, AK 99503-4149

If no fee is required, you may fax the notice to (907) 269-4915

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Alaska Department of Revenue
TAX CLEARANCE REQUEST FORM

Applicant's Name: _____

EIN&SSN: _____

Mailing Address: _____

City/State/Zip Code: _____

I hereby authorize the Alaska Department of Revenue to release to

_____
(Name of Department or Agency)

Departments Statute on tax clearance: _____

whose facsimile number or email address is _____,

confirmation that all taxes, penalties and interest due the Department of Revenue have been paid and that there are no outstanding amounts due.

Signed: _____

Printed Name: _____

Title*: _____

*If tax clearance is being requested on behalf of a corporation/LLC/partnership, must be signed by an officer/member/partner.

Send completed form by email to the Department of Revenue at DOR.tax.accounting@alaska.gov

DEPARTMENT USE ONLY

☐ *The above applicant is current on all taxes, penalties and interest due and is in good standing with the Alaska Department of Revenue.*

☐ *The above applicant is not current on all taxes, penalties and interest due and is not in good standing with the Alaska Department of Revenue.*

Department of Revenue Representative _____ *Date*

TaxClearanceRequestForm (Rev 2/21)

THE STATE of ALASKA
GOVERNOR MICHAEL J. DUNLEAVY

Department of Labor and Workforce Development

Division of Employment and Training Services
Employment Security Tax

P.O. Box 115509
Juneau, AK 99811-5509
Relay Alaska (in state): (800) 770-8973 or 7.1.1
Relay Alaska (out of state): (800) 770-8255
Toll free: (888) 448-2937
Phone: (907) 465-2787
Fax: (907) 465-2374

Tax Clearance Request Form for Contractors

Date of request: _____

Business name of the contractor a Tax Clearance is being requested for: _____

_____

Business address: _____

Business contact phone number: _____

Federal Identification Number: _____

Alaska Employer Account Number: _____

Specific time period a tax clearance is being requested for *(i.e. beginning and ending date of a subcontract agreement)*:

_____

Subcontract project name: _____

_____

Name and address of the person this Tax Clearance is to be returned to: _____

_____

Comments or additional information: _____

_____

For agency use only:

☐ Tax Clearance is granted

☐ Tax Clearance is not granted *(please have employer contact the department)*

☐ No account on file, liability unknown *(please have employer contact the department)*

☐ Employer has stated no employees, Tax Clearance not required.

Agency representative signature: _____ Date: _____

Agency representative title: _____

We are an equal opportunity employer/program. Auxiliary aids and services are available upon request to individuals with disabilities. labor.alaska.gov/estax

Rev. 8/2018

Project Title:_____ **Project Number:**_____

PROJECT CLOSEOUT CHECKLIST	Number Required	Number & Date Delivered
Inspection Documents		
Substantial Completion Inspection Documents	1	
Substantial Completion Punch List	1	
Final Inspection Documents	1	
Final Inspection Punch List	1	
Certificate of Substantial Completion (ASD Form 101)	1	
Contractor Submittals		
As-built drawings to Engineer of Record (Section 01700)	1	
All project record documents (Section 01720)	1	
Maintenance and Operations Manuals – Electronic version – OCR pdf (Section 01730)	1	
Warranty and Special Warranty Manuals (Section 01730)	4	
Certificate of Domestic Water Disinfection (Section 01700)	2	
Warranty of Work (Section 01750)	1	
Certificate of Compliance (Section 01750)	1	
Building Officials Certificate of Mechanical and Electrical Inspection	3	
Building Official's Certificate of Occupancy	3	
Building Official's Certificate of Completion	3	
AHERA Response Action Report (RAR)	1	
AHERA Exclusion Document (Section 00630)	1	
Return school keys to lock shop	1	
Lock Shop Release Form (signed)	1	

Project Title:_____ **Project Number:**_____

PROJECT CLOSEOUT CHECKLIST	Number Required	Number & Date Delivered
Contractor's Affidavit of Payment of Debts and Claims ASD Form102)	1	
Consent of Surety Company to Final Payment (ASD Form 104)	1	
Release on Contract (ASD Form 103)	1	
Consent of Surety to Reduction in/or Partial Release of Retainage (ASD Form 105)	1	
Engineered As-built drawings and special system drawings on reproducible CD's (not zipped)	1	
Engineered As-built drawings and special system drawings on bond/blacklines	2	
Spare Parts deliverables	1	
Copy of Warranty for all items with Extended Warranty	1	
Notice of Completion of Public Works (Section 00630) (Approved DOL Clearance Form)	1	
Dept. of Revenue Tax Clearance Form (Section 00630) (Approved DOR Tax Clearance Form)	1	
Dept. of Labor Tax Clearance Form (Section 00630) (Approved DOL Tax Clearance Form)	1	
Apprenticeship Program - Purchasing release for final payment (projects over $100,000)		
Final Application and Certificate for Payment (ASD Form 100A-C)	1	
Base Access Pass(s) returned to Visitor Control Center	NA	

_____ _____

Project Manager Signature Date

END OF SECTION

UTILITY LOCATION REQUIREMENTS

PART 1. GENERAL

1.01 DESCRIPTION

A. Upon receipt of written notification from any of public agencies or utilities that Contractor has caused damage to any facility, equipment or installation of agency, and Contractor failed to request a utility locate service from said utility at least two (2) normal business days prior to damage, or if locate services was properly requested, that damage was not approximately caused by error in locate service, Owner will withhold from forthcoming or accrued Contract payment, including advances, a sum sufficient to protect agency or utility from loss. Public agencies or utilities that provide notice of facility damage under this paragraph are:

Anchorage Water and Wastewater Utility
Alaska Communications Systems
Alaska Fiber Star
Alaska Native Medical Center
Alaska Railroad Corporation
Alyeska Cable / TelAlaska
Anchorage School District
Aircraft Service International Group
AT&T Alascom
Chugach Electric Association, Inc.
Department of Transportation Street Lights, State of Alaska
Enstar Natural Gas Company
Flint Hills Resources/Williams Alaska Pipeline
GCI Cable
Matanuska Electric Association
Matanuska Telephone Association
Municipality of Anchorage/Department of Public Works
Municipal Light & Power Utility
Tesoro Alaska Inc.

B. Upon receipt of release of claim by notifying utility or upon judgment of a court having jurisdiction in matter and having established that Contractor is liable for a lesser amount or is not liable for damage, Owner will release excess funds to Contractor. Funds withheld pursuant to this provision shall not bear interest. Upon receipt of satisfactory evidence against Contractor in court of competent jurisdiction within sixty (60) days after discovery of damage, Owner shall release funds withheld pursuant to this provision.

1.02 PROTECTION OF UTILITIES

A. Any pipes or other utilities encountered in excavation shall be shored up and cared for by Contractor as to leave them in a proper working condition until such times as Owner determines what shall be done with them.

B. Any utilities mislocated or inadequately located by appropriate utility company which are damaged by Contractor shall not constitute reimbursement or time extensions to Contractor from Owner for repair(s) of work that Contractor performs.

C. Contractor shall coordinate his work to cooperate with original utility service installed.

PART 2. PRODUCTS (NOT USED)

PART 3. EXECUTION (NOT USED)

END OF SECTION

DEMOLITION

PART 1. GENERAL

1.01 NOTIFICATIONS OF POTENTIAL HAZARDS

A. Notification of Potential Hazards: Asbestos, lead and other potentially hazardous materials are present in the building that may impact the work of all trades. Regulated air contaminates, including asbestos and lead are also present in the settled and concealed dust in and on architectural, structural, mechanical, and electrical components and systems throughout the building. All trades shall coordinate with other trades and conduct their work to prevent worker exposure or site. Refer to Divisions 0, 1 and 2 for specific information concerning disturbing, removing, and disposing of these materials and the installation of new materials and components. This notification is provided in accordance with the EPA and OSHA requirements.

B. Notification of Child Occupied Facility: Portions of this building are classified as a Child Occupied Facility in accordance with 40 CFR 745 and lead-based paints may be present on components to be disturbed in those areas. Personnel performing work in these areas must comply with the requirements of 40 CFR 745, including training, work practices and cleaning of the work area. Refer to Specification Divisions 0. 1 and 2 for specific information concerning disturbing, removing and disposing of lead materials and the installation of new materials or components. This notification is provided in accordance with the EPA and OSHA requirements.

1.02 SECTION INCLUDES

A. Selective demolition or relocation of existing site elements.

B. Selective demolition of building elements for alteration purposes.

C. Removal and reinstallation of building elements.

1.03 RELATED REQUIREMENTS

A. Section 01010 - Summary: Limitations on Contractor's use of site and premises.

B. Division 1 Sections: Sequencing and staging requirements.

C. Section 01500 - Temporary Facilities and Controls: Site fences, security, protective barriers, and waste removal.

D. Section 01700 - Execution and Closeout Requirements: Project conditions; protection of bench marks, survey control points, and existing construction to remain; reinstallation of removed products; temporary bracing and shoring.

1.04 DEFINITIONS

A. Demolition: Dismantle, raze, destroy or wreck any building or structure or any part thereof.

B. Remove: Detach or dismantle items from existing construction and dispose of them off site, unless items are indicated to be salvaged or reinstalled.

C. Remove and Salvage: Detach or dismantle items from existing construction in a manner to prevent damage. Clean, package, label and deliver salvaged items to Owner in ready-for-reuse condition.

D. Remove and Reinstall: Detach or dismantle items from existing construction in a manner to prevent damage. Clean and prepare for reuse and reinstall where indicated.

E. Existing to Remain: Designation for existing items that are not to be removed and that are not otherwise indicated to be salvaged or reinstalled.

1.05 SUBMITTALS

A. Site Plan: Indicate:

1. Areas for temporary construction and field offices.

B. Demolition Plan: Submit demolition plan.

1. Indicate extent of demolition, removal sequencing, bracing and shoring, and location and construction of barricades and fences.
2. Summary of safety procedures.

C. Demolition firm qualifications.

PART 2. PRODUCTS -- NOT USED

PART 3. EXECUTION

3.01 DEMOLITION

A. Remove portions of existing building as indicated on Drawings.

B. Remove paving and curbs required to accomplish new work.

C. Remove other items indicated, for salvage, relocation, and recycling.

3.02 GENERAL PROCEDURES AND PROJECT CONDITIONS

A. Comply with applicable codes and regulations for demolition operations and safety of adjacent structures and the public.

1. Obtain required permits.
2. Take precautions to prevent catastrophic or uncontrolled collapse of structures to be removed; do not allow worker or public access within range of potential collapse of unstable structures.
3. Provide, erect, and maintain temporary barriers and security devices.
4. Conduct operations to minimize effects on and interference with adjacent structures and occupants.
5. Do not close or obstruct roadways or sidewalks without permits from authority having jurisdiction.
6. Conduct operations to minimize obstruction of public and private entrances and exits. Do not obstruct required exits at any time. Protect persons using entrances and exits from removal operations.
7. Obtain written permission from owners of adjacent properties when demolition equipment will traverse, infringe upon, or limit access to their property.

B. Do not begin removal until receipt of notification to proceed from Owner.

C. Protect existing structures and other elements to remain in place and not removed.

1. Provide bracing and shoring.
2. Prevent movement or settlement of adjacent structures.
3. Stop work immediately if adjacent structures appear to be in danger.

D. Hazardous Materials:

1. If hazardous materials are discovered during removal operations, stop work and notify Architect and Owner; hazardous materials include regulated asbestos containing materials, lead, PCBs, and mercury.

E. Partial Removal of Paving and Curbs: Neatly saw cut at right angle to surface.

3.03 SELECTIVE DEMOLITION FOR ALTERATIONS

A. Existing construction and utilities indicated on drawings are based on casual field observation and existing record documents only.

1. Verify construction and utility arrangements are as indicated.
2. Report discrepancies to Architect before disturbing existing installation.
3. Beginning of demolition work constitutes acceptance of existing conditions that would be apparent upon examination prior to starting demolition.

B. Remove existing work as indicated and required to accomplish new work.

1. Remove items indicated on drawings.

C. Services including, but not limited to, HVAC, Plumbing, Fire Protection, Electrical, and Telecommunications: Remove existing systems and equipment as indicated.

1. Maintain existing active systems to remain in operation, and maintain access to equipment and operational components.
2. Where existing active systems serve occupied facilities but are to be replaced with new services, maintain existing systems in service until new systems are complete and ready for service.
3. Verify that abandoned services serve only abandoned facilities before removal.
4. Remove abandoned pipe, ducts, conduits, and equipment, including those above accessible ceilings. Remove back to source of supply where possible, otherwise cap stub and tag with identification.

D. Protect existing work to remain.

1. Prevent movement of structure. Provide shoring and bracing as required.
2. Perform cutting to accomplish removal work neatly and as specified for cutting new work.
3. Repair adjacent construction and finishes damaged during removal work.
4. Patch to match new work.

3.04 DEBRIS AND WASTE REMOVAL

A. Remove debris, junk, and trash from site.

B. Leave site in clean condition, ready for subsequent work.

C. Clean up spillage and wind-blown debris from public and private lands.

END OF SECTION

CONCRETE FORMING AND ACCESSORIES

PART 1. GENERAL

1.01 NOTIFICATIONS OF POTENTIAL HAZARDS

A. Notification of Potential Hazards: Asbestos, lead and other potentially hazardous materials are present in the building that may impact the work of all trades. Regulated air contaminates, including asbestos and lead are also present in the settled and concealed dust in and on architectural, structural, mechanical, and electrical components and systems throughout the building. All trades shall coordinate with other trades and conduct their work to prevent worker exposure or site. Refer to Divisions 0, 1 and 2 for specific information concerning disturbing, removing, and disposing of these materials and the installation of new materials or components. This notification is provided in accordance with the EPA and OSHA requirements.

B. Notification of Child Occupied Facility: Portions of this building are classified as a Child Occupied Facility in accordance with 40 CFR 745 and lead-based paints may be present on components to be disturbed in those areas. Personnel performing work in these areas must comply with the requirements of 40 CFR 745, including training, work practices and cleaning of the work area. Refer to Specification Divisions 0, 1 and 2 for specific information concerning disturbing, removing, and disposing of lead materials and the installation of new materials or components. This notification is provided in accordance with the EPA and OSHA requirements.

1.02 SUMMARY

A. Section Includes:

1. Form-facing material for cast-in-place concrete.
2. Shoring, bracing, and anchoring.

1.03 DEFINITIONS

A. Form-Facing Material: Temporary structure for the support of concrete while the concrete is setting and gaining sufficient strength to be self-supporting.

B. Formwork: The total system of support of freshly placed concrete, including the sheathing that contacts the concrete, as well as supporting members, hardware, and necessary bracing.

1.04 PREINSTALLATION MEETINGS

A. Preinstallation Conference: Conduct conference via video conferencing.

1. Review the following:

a. Special inspection and testing and inspecting agency procedures for field quality control.
b. Construction, movement, contraction, and isolation joints
c. Forms and form-removal limitations.
d. Shoring and reshoring procedures.
e. Anchor rod and anchorage device installation tolerances.

1.05 ACTION SUBMITTALS

A. Product Data: For each of the following:

1. Exposed surface form-facing material.
2. Concealed surface form-facing material.
3. Forms for cylindrical columns.
4. Form ties.
5. Form-release agent.

1.06 INFORMATIONAL SUBMITTALS

A. Qualification Data: For testing and inspection agency.

B. Research Reports: For insulating concrete forms indicating compliance with International Code Council Acceptance Criteria AC353.

C. Field quality-control reports.

D. Minutes of preinstallation conference.

1.07 QUALITY ASSURANCE

A. Testing and Inspection Agency Qualifications: An independent agency, qualified in accordance with ASTM C1077 and ASTM E329 for testing indicated.

1.08 DELIVERY, STORAGE, AND HANDLING

A. Form Liners: Store form liners under cover to protect from sunlight.

B. Insulating Concrete Forms: Store forms off ground and under cover to protect from moisture, sunlight, dirt, oil, and other contaminants.

PART 2. PRODUCTS

2.01 PERFORMANCE REQUIREMENTS

A. Concrete Formwork: Design, engineer, erect, shore, brace, and maintain formwork, shores, and reshores in accordance with ACI 301, to support vertical, lateral, static, and dynamic loads, and construction loads that might be applied, until structure can support such loads, so that resulting concrete conforms to the required shapes, lines, and dimensions.

1. Design wood panel forms in accordance with APA's "Concrete Forming Design/Construction Guide."
2. Design formwork to limit deflection of form-facing material to 1/240 of center-to-center spacing of supports.

B. Design, engineer, erect, shore, brace, and maintain insulating concrete forms in accordance with ACI 301, to support vertical, lateral, static, and dynamic loads, and construction loads that might be applied, until structure can support such loads, so that resulting concrete conforms to the required shapes, lines, and dimensions.

1. Design cross ties to transfer the effects of the following loads to the cast-in-place concrete core:

    a. Wind Loads: As indicated on Drawings.

        1) Horizontal Deflection Limit: Not more than 1/240 of the wall height.

2.02 FORM-FACING MATERIALS

A. As-Cast Surface Form-Facing Material:

1. Provide continuous, true, and smooth concrete surfaces.
2. Furnish in largest practicable sizes to minimize number of joints.
3. Acceptable Materials: As required to comply with Surface Finish designations specified in Section 033000 "Cast-In-Place Concrete, and as follows:

    a. Plywood, metal, or other approved panel materials.
    b. Exterior-grade plywood panels, suitable for concrete forms, complying with DOC PS 1, and as follows:

        1) APA Plyform Class I, B-B or better; mill oiled and edge sealed.

B. Concealed Surface Form-Facing Material: Lumber, plywood, metal, plastic, or another approved material.

1. Provide lumber dressed on at least two edges and one side for tight fit.

C. Forms for Cylindrical Columns, Pedestals, and Supports: Metal, glass-fiber-reinforced plastic, paper, or fiber tubes that produce surfaces without spiral or vertical seams not exceeding specified formwork surface class.

1. Provide forms with sufficient wall thickness to resist plastic concrete loads without detrimental deformation.

D. Void Forms: Biodegradable paper surface, treated for moisture resistance, structurally sufficient to support weight of plastic concrete and other superimposed loads.

2.03 RELATED MATERIALS

A. Chamfer Strips: Wood, metal, PVC, or rubber strips, 3/4 by 3/4 inch, minimum.

B. Rustication Strips: Wood, metal, PVC, or rubber strips, kerfed for ease of form removal.

C. Form-Release Agent: Commercially formulated form-release agent that does not bond with, stain, or adversely affect concrete surfaces and does not impair subsequent treatments of concrete surfaces.

1. Formulate form-release agent with rust inhibitor for steel form-facing materials.
2. Form release agent for form liners shall be acceptable to form liner manufacturer.

D. Form Ties: Factory-fabricated, removable or snap-off, glass-fiber-reinforced plastic or metal form ties designed to resist lateral pressure of fresh concrete on forms and to

prevent spalling of concrete on removal.

1. Furnish units that leave no corrodible metal closer than 1 inch to the plane of exposed concrete surface.
2. Furnish ties that, when removed, leave holes no larger than 1 inch in diameter in concrete surface.

PART 3. EXECUTION

3.02 INSTALLATION OF FORMWORK

A. Comply with ACI 301.

B. Construct formwork, so concrete members and structures are of size, shape, alignment, elevation, and position indicated, within tolerance limits of ACI 117 and to comply with the Surface Finish designations specified in Section 033000 "Cast-In-Place Concrete" for as-cast finishes.

C. Limit concrete surface irregularities as follows:

1. Surface Finish-3.0: ACI 117 Class A, 1/8 inch.

D. Construct forms tight enough to prevent loss of concrete mortar.

1. Minimize joints.
2. Exposed Concrete: Symmetrically align joints in forms.

E. Construct removable forms for easy removal without hammering or prying against concrete surfaces.

1. Provide crush or wrecking plates where stripping may damage cast-concrete surfaces.
2. Provide top forms for inclined surfaces steeper than 1.5 horizontal to 1 vertical.

F. Do not use rust-stained, steel, form-facing material.

G. Set edge forms, bulkheads, and intermediate screed strips for slabs to achieve required elevations and slopes in finished concrete surfaces.

1. Provide and secure units to support screed strips
2. Use strike-off templates or compacting-type screeds.

H. Provide temporary openings for cleanouts and inspection ports where interior area of formwork is inaccessible.

1. Close openings with panels tightly fitted to forms and securely braced to prevent loss of concrete mortar.
2. Locate temporary openings in forms at inconspicuous locations.

I. Chamfer exterior corners and edges of permanently exposed concrete.

J. At construction joints, overlap forms onto previously placed concrete not less than 12

inches.

K. Construction and Movement Joints:

1. Construct joints true to line with faces perpendicular to surface plane of concrete.
2. Install so strength and appearance of concrete are not impaired, at locations indicated or as approved by Architect.
3. Place joints perpendicular to main reinforcement.
4. Locate joints for slabs where indicated on the drawings.
5. Locate horizontal joints in walls and columns at underside of floors, slabs, beams, and girders and at the top of footings or floor slabs.

L. Provide temporary ports or openings in formwork where required to facilitate cleaning and inspection.

1. Locate ports and openings in bottom of vertical forms, in inconspicuous location, to allow flushing water to drain.
2. Close temporary ports and openings with tight-fitting panels, flush with inside face of form, and neatly fitted, so joints will not be apparent in exposed concrete surfaces.

M. Clean forms and adjacent surfaces to receive concrete. Remove chips, wood, sawdust, dirt, and other debris just before placing concrete.

N. Retighten forms and bracing before placing concrete, as required, to prevent mortar leaks and maintain proper alignment.

O. Coat contact surfaces of forms with form-release agent, according to manufacturer's written instructions, before placing reinforcement.

3.02 INSTALLATION OF EMBEDDED ITEMS

A. Place and secure anchorage devices and other embedded items required for adjoining work that is attached to or supported by cast-in-place concrete.

1. Use setting drawings, templates, diagrams, instructions, and directions furnished with items to be embedded.
2. Install anchor rods, accurately located, to elevations required and complying with tolerances in Section 7.5 of AISC 303.
3. Clean embedded items immediately prior to concrete placement.

3.03 REMOVING AND REUSING FORMS

A. Formwork for sides of beams, walls, columns, and similar parts of the Work that does not support weight of concrete may be removed after cumulatively curing at not less than 50 deg F for 24 hours after placing concrete. Concrete has to be hard enough to not be damaged by form-removal operations, and curing and protection operations need to be maintained.

1. Leave formwork for beam soffits, joists, slabs, and other structural elements that support weight of concrete in place until concrete has achieved at least 50 percent of its 28-day design compressive strength.
2. Remove forms only if shores have been arranged to permit removal of forms without loosening or disturbing shores.

B. Clean and repair surfaces of forms to be reused in the Work.

1. Split, frayed, delaminated, or otherwise damaged form-facing material are unacceptable for exposed surfaces.
2. Apply new form-release agent.

C. When forms are reused, clean surfaces, remove fins and laitance, and tighten to close joints.

1. Align and secure joints to avoid offsets.
2. Do not use patched forms for exposed concrete surfaces unless approved by Architect.

3.04 FIELD QUALITY CONTROL

A. Special Inspections: Owner will engage a special inspector and qualified testing and inspecting agency to perform field tests and inspections and prepare test reports.

B. Testing Agency: Engage a qualified testing and inspecting agency to perform tests and inspections and to submit reports.

C. Inspections:

1. Inspect formwork for shape, location, and dimensions of the concrete member being formed.
2. Inspect insulating concrete forms for shape, location, and dimensions of the concrete member being formed.

END OF SECTION

CONCRETE REINFORCING

PART 1. GENERAL

1.01 NOTIFICATIONS OF POTENTIAL HAZARDS

A. Notification of Potential Hazards: Asbestos, lead and other potentially hazardous materials are present in the building that may impact the work of all trades. Regulated air contaminates, including asbestos and lead are also present in the settled and concealed dust in and on architectural, structural, mechanical, and electrical components and systems throughout the building. All trades shall coordinate with other trades and conduct their work to prevent worker exposure or site. Refer to Divisions 0, 1 and 2 for specific information concerning disturbing, removing, and disposing of these materials and the installation of new materials or components. This notification is provided in accordance with the EPA and OSHA requirements.

B. Notification of Child Occupied Facility: Portions of this building are classified as a Child Occupied Facility in accordance with 40 CFR 745 and lead-based paints may be present on components to be disturbed in those areas. Personnel performing work in these areas must comply with the requirements of 40 CFR 745, including training, work practices and cleaning of the work area. Refer to Specification Divisions 0, 1 and 2 for specific information concerning disturbing, removing and disposing of lead materials and the installation of new materials or components. This notification is provided in accordance with the EPA and OSHA requirements.

1.02 SUMMARY

A. Section Includes:

1. Steel reinforcement bars.

1.03 PREINSTALLATION MEETINGS

A. Preinstallation Conference: Conduct conference via video conferencing.

1. Review the following:

a. Special inspection and testing and inspecting agency procedures for field quality control.
b. Construction contraction and isolation joints.
c. Steel-reinforcement installation.

1.04 SUBMITTALS

A. See Division 1 for submittal procedures.

B. Product Data: For the following:

1. Each type of steel reinforcement.
2. Bar supports.

C. Shop Drawings: Comply with ACI SP-066:

1. Include placing drawings that detail fabrication, bending, and placement.
2. Include bar sizes, lengths, materials, grades, bar schedules, stirrup spacing, bent bar diagrams, bar arrangement, location of splices, lengths of lap splices, details of mechanical splice couplers, details of welding splices, tie spacing, hoop spacing, and supports for concrete reinforcement.

D. Field quality-control reports.

E. Minutes of preinstallation conference.

1.05 QUALITY ASSURANCE

A. Testing Agency Qualifications: An independent agency, acceptable to authorities having jurisdiction, qualified in accordance with ASTM C1077 and ASTM E329 for testing indicated.

1.06 DELIVERY, STORAGE, AND HANDLING

A. Steel Reinforcement: Deliver, store, and handle steel reinforcement to prevent bending and damage.

1. Store reinforcement to avoid contact with earth.

PART 2. PRODUCTS

2.01 STEEL REINFORCEMENT

A. Reinforcing Bars: ASTM A615/A615M, Grade 60, deformed.

2.02 REINFORCEMENT ACCESSORIES

A. Bar Supports: Bolsters, chairs, spacers, and other devices for spacing, supporting, and fastening reinforcing bars reinforcement in place.

1. Manufacture bar supports from steel wire, plastic, or precast concrete in accordance with CRSI's "Manual of Standard Practice," of greater compressive strength than concrete and as follows:

B. Steel Tie Wire: ASTM A1064/A1064M, annealed steel, not less than 0.0508 inch in diameter.

1. Finish: Plain.

2.03 FABRICATING REINFORCEMENT

A. Fabricate steel reinforcement according to CRSI's "Manual of Standard Practice."

PART 3. EXECUTION

3.01 PREPARATION

A. Clean reinforcement of loose rust and mill scale, earth, ice, and other foreign materials that reduce bond to concrete.

3.02 INSTALLATION OF STEEL REINFORCEMENT

A. Comply with CRSI's "Manual of Standard Practice" for placing and supporting reinforcement.

B. Accurately position, support, and secure reinforcement against displacement.

1. Locate and support reinforcement with bar supports to maintain minimum concrete cover.
2. Do not tack weld crossing reinforcing bars.

C. Preserve clearance between bars of not less than 1 inch not less than one bar diameter, or not less than 1-1/3 times size of large aggregate, whichever is greater.

D. Provide concrete coverage in accordance with the Drawings.

E. Set wire ties with ends directed into concrete, not toward exposed concrete surfaces.

F. Splices: Lap splices as indicated on Drawings.

1. Bars indicated to be continuous, and all vertical bars to be lapped not less than 36 bar diameters at splices.
2. Stagger splices in accordance with ACI 318.

3.03 INSTALLATION TOLERANCES

A. Comply with ACI 117.

3.04 FIELD QUALITY CONTROL

A. Special Inspections: Department will engage a special inspector to perform field tests and inspections and prepare test reports.

B. Inspections:

1. Steel-reinforcement placement.

END OF SECTION

CAST-IN-PLACE CONCRETE

PART 1. GENERAL

1.01 NOTIFICATIONS OF POTENTIAL HAZARDS

A. Notification of Potential Hazards: Asbestos, lead and other potentially hazardous materials are present in the building that may impact the work of all trades. Regulated air contaminates, including asbestos and lead are also present in the settled and concealed dust in and on architectural, structural, mechanical, and electrical components and systems throughout the building. All trades shall coordinate with other trades and conduct their work to prevent worker exposure or site. Refer to Divisions 0, 1 and 2 for specific information concerning disturbing, removing, and disposing of these materials and the installation of new materials or components. This notification is provided in accordance with the EPA and OSHA requirements.

B. Notification of Child Occupied Facility: Portions of this building are classified as a Child Occupied Facility in accordance with 40 CFR 745 and lead-based paints may be present on components to be disturbed in those areas. Personnel performing work in these areas must comply with the requirements of 40 CFR 745, including training, work practices and cleaning of the work area. Refer to Specification Divisions 0, 1 and 2 for specific information concerning disturbing, removing, and disposing of lead materials and the installation of new materials or components. This notification is provided in accordance with the EPA and OSHA requirements.

1.02 SUMMARY

A. Section Includes:

1. Concrete standards.
2. Concrete materials.
3. Admixtures.
4. Floor and slab treatments.
5. Curing materials.
6. Accessories.
7. Repair materials.
8. Concrete mixture materials.
9. Concrete mixing.

B. Related Requirements:

1. Div 0-1 Department Requirements
2. Section 03 20 00 "Concrete Reinforcing" for steel reinforcing bars and welded-wire reinforcement.

1.03 DEFINITIONS

A. Cementitious Materials: Portland cement

B. Water/Cementitious Materials (w/cm) Ratio: The ratio by weight of mixing water to cementitious materials.

1.04 PREINSTALLATION MEETINGS

A. Preinstallation Conference: Conduct conference via video conferencing.

1. Require representatives of each entity directly concerned with cast-in-place concrete to attend, including the following:

a. Contractor's superintendent.
b. Independent testing agency responsible for inspections and acceptance testing of concrete at Project site.
c. Ready-mix concrete manufacturer.
d. Concrete Subcontractor.
e. Special concrete finish Subcontractor.

2. Review the following:

a. Special inspection and testing and inspecting agency procedures for field quality control.
b. Construction joints, control joints, isolation joints, and joint-filler strips.
c. Anchor rod and anchorage device installation tolerances.
d. Cold- and hot-weather concreting procedures.
e. Concrete finishes and finishing.
f. Curing procedures.
g. Forms and form-removal limitations.
h. Methods for achieving specified floor and slab flatness and levelness.
i. Floor and slab flatness and levelness measurements.
j. Concrete repair procedures.
k. Concrete protection.
l. Initial curing of standard-cured and field curing of field-cured test cylinders (ASTM C31/C31M.)
m. Protection of field cured field test cylinders.
n. Distribution of test reports.

1.05 ACTION SUBMITTALS

A. See Division 1 for submittal procedures.

B. Product Data:

1. Portland cement.
2. Aggregates.
3. Admixtures:

a. Include limitations of use. Admixtures that do not comply with reference ASTM International requirements must be submitted with test data for approval.

4. Floor and slab treatments.
5. Curing materials.
6. Joint fillers.
7. Repair materials.

C. Design Mixtures: For each concrete mixture, include the following:

1. Mixture identification.
2. Compressive strength at 28 days or other age as specified.
3. Compressive strength required at stages of construction.
4. Durability exposure classes for Exposure Categories F, S, W, and C.
5. Maximum w/cm ratio.
6. Slump or slump flow limit.
7. Air content.
8. Nominal maximum aggregate size.
9. Intended placement method.
10. Submit adjustments to design mixtures when characteristics of materials, Project conditions, weather, test results, or other circumstances warrant changes.

1.06 INFORMATIONAL SUBMITTALS

A. Qualification Data: For the following:

1. Installer: Include copies of applicable ACI certificates.
2. Testing Agency: Include documentation indicating compliance with ASTM E329 or ASTM C1077 and copies of applicable ACI certificates for testing technicians or ACI Concrete Construction Special Inspector - MH, ASCC.

B. Material Certificates: For each of the following:

1. Cementitious materials.
2. Admixtures.
3. Curing compounds.
4. Repair materials.

C. Material Test Reports: For the following:

1. Portland cement.
2. Aggregates.
3. Admixtures.

D. Preconstruction Test Reports: For each mix design.

E. Field quality-control reports.

F. Minutes of preinstallation conference.

1.07 QUALITY ASSURANCE

A. Installer Qualifications: A qualified Installer who employs Project personnel qualified as an ACI- certified Concrete Flatwork Associate and Concrete Flatwork Finisher and a supervisor who is a certified ACI Advanced Concrete Flatwork Finisher/Technician or an ACI Concrete Flatwork Finisher with experience installing and finishing concrete.

1. Post-Installed Concrete Anchors Installers: ACI-certified Adhesive Anchor Installer.

B. Ready-Mixed Concrete Manufacturer Qualifications: A firm experienced in manufacturing ready- mixed concrete products and that complies with ASTM C94/C94M requirements for production facilities and equipment.

1. Manufacturer's production facilities and delivery vehicles certified in accordance with NRMCA's certification requirements or equivalent approval by a State DOT.

C. Laboratory Testing Agency Qualifications: A testing agency qualified in accordance with ASTM C1077 and ASTM E329 for testing that performs duties on behalf of the Architect/Engineer.

1. Personnel performing laboratory tests to be an ACI-certified Concrete Strength Testing Technician and Concrete Laboratory Testing Technician, Level 1. Testing agency laboratory supervisor tests to be an ACI-certified Concrete Laboratory Testing Technician, Level 2.

D. Field Quality-Control Testing Agency Qualifications: An independent agency, qualified in accordance with ASTM C1077 and ASTM E329 for testing indicated.

1. Personnel conducting field tests on plastic concrete properties are to be qualified as an ACI Concrete Field Testing Technician, Grade 1, in accordance with policies from ACI CPP 610.1 or an equivalent certification program.

1.08 PRECONSTRUCTION TESTING

A. Preconstruction Testing Service: Engage a qualified testing agency to perform preconstruction testing on each concrete mixture.

1. Include the following information in each test report:

a. Admixture dosage rates.
b. Slump.
c. Air content.
d. Seven-day compressive strength.
e. 28-day compressive strength.
f. Evaluation of permeability-reducing admixtures.

1.09 DELIVERY, STORAGE, AND HANDLING

A. Comply with ASTM C94/C94M and ACI 301.

1.10 FIELD CONDITIONS

A. Cold-Weather Placement: Comply with ACI 301as follows:

1. Protect concrete work from physical damage or reduced strength that could be caused by frost, freezing actions, or low temperatures.
2. When air temperature has fallen to, or is expected to fall below 40 deg Fduring the protection period, maintain delivered concrete mixture temperature within the temperature range required by ACI 301
3. Do not use frozen materials or materials containing ice or snow.
4. Do not place concrete in contact with surfaces less than 35 deg F, other than reinforcing steel.

B. Hot-Weather Placement: Comply with ACI 301 and ACI 305.1, and as follows:

1. Maintain concrete temperature at time of discharge to not exceed 95 deg F.
2. Fog-spray forms, steel reinforcement, and subgrade just before placing concrete.

Keep subgrade uniformly moist without standing water, soft spots, or dry areas.

PART 2. PRODUCTS

2.01 CONCRETE STANDARDS

A. ACI Publications: Comply with ACI 301unless modified by requirements in the Contract Documents.

2.02 CONCRETE MATERIALS

A. Source Limitations:

1. Obtain all concrete mixtures from a single ready-mixed concrete manufacturer for entire Project.
2. Obtain each type of admixture from single source from single manufacturer.

B. Cementitious Materials:

1. Portland Cement: ASTM C150/C150M, Type I or Type III.

C. Normal-Weight Aggregates:

1. Coarse Aggregate: ASTM C33/C33M, Class 3S
2. Maximum Coarse-Aggregate Size: 3/4 inch nominal.
3. Fine Aggregate: ASTM C33/C33M.
4. Alkali-Silica Reaction: Comply with the following for each aggregate used:

a. Expansion Result of Aggregate: Not more than 0.04 percent at one year when tested in accordance with ASTM C1293.

2.03 ADMIXTURES

A. Air-Entraining Admixture: ASTM C260/C260M.

B. Chemical Admixtures: Do not use calcium chloride or admixtures containing calcium chloride.

1. Water-Reducing Admixture: ASTM C494/C494M, Type A.
2. Water-Reducing and -Retarding Admixture: ASTM C494/C494M, Type D.
3. High-Range, Water-Reducing Admixture: ASTM C494/C494M, Type F.
4. High-Range, Water-Reducing and -Retarding Admixture: ASTM C494/C494M, Type G.
5. Admixtures with special properties, with documentation of claimed performance enhancement, ASTM C494/C494M, Type S.
6. Moisture-Vapor-Reducing Admixture: ASTM C494/C494M, Type S, hydrophilic, moisture- vapor-reducing, capable of reducing water absorption in and moisture-vapor emission from concrete (MVRA).

C. Mixing Water for Concrete Mixtures and Water Used to Make Ice: ASTM C1602/C1602M. Include documentation of compliance with limits for alkalis, sulfates, chlorides, or solids content of mixing water from Table 2 in ASTM C1602/C1602M.

2.04 CURING MATERIALS

A. Evaporation Retarder: Waterborne, monomolecular film forming, manufactured for application to fresh concrete.

B. Absorptive Cover: AASHTO M 182, Class 2, burlap cloth made from jute or kenaf, weighing approximately 9 oz./sq. yd. when dry.

C. Moisture-Retaining Cover: ASTM C171, polyethylene film burlap-polyethylene sheet.

1. Color:

a. Ambient Temperature Below 50 deg F (10 deg C): Black.
b. Ambient Temperature between 50 and 85 deg F (10 and 29 deg C): Any color.

D. Water: Potable water that does not cause staining of the surface.

2.05 ACCESSORIES

A. Expansion- and Isolation-Joint-Filler Strips: ASTM D1751, asphalt-saturated cellulosic fiber.

B. Semirigid Joint Filler: Two-component, semirigid, 100 percent solids, in accordance with ASTM D2240.

2.06 CONCRETE MIXTURE MATERIALS

A. Prepare design mixtures for each type and strength of concrete, proportioned on the basis of laboratory trial mixture or field test data, or both, in accordance with ACI 301.

1. Use a qualified testing agency for preparing and reporting proposed mixture designs, based on laboratory trial mixtures.

B. Admixtures: Use admixtures in accordance with manufacturer's written instructions.

1. Use permeability-reducing admixture in concrete mixtures where indicated.

2.07 CONCRETE MIXING

A. Ready-Mixed Concrete: Measure, batch, mix, and deliver concrete in accordance with ASTM C94/C94M and furnish delivery ticket.

PART 3. EXECUTION

3.01 EXAMINATION

A. Verification of Conditions:

1. Before placing concrete, verify that installation of concrete forms, accessories, reinforcement, and embedded items is complete and that required inspections have been performed.
2. Do not proceed until unsatisfactory conditions have been corrected.

3.02 PREPARATION

A. Provide reasonable auxiliary services to accommodate field testing and inspections, acceptable to testing agency, including the following:

1. Daily access to the Work.
2. Incidental labor and facilities necessary to facilitate tests and inspections.
3. Secure space for storage, initial curing, and field curing of test samples, including source of water and continuous electrical power at Project site during site curing period for test samples.
4. Security and protection for test samples and for testing and inspection equipment at Project site.

3.03 TOLERANCES

A. Comply with ACI 117.

3.04 INSTALLATION OF EMBEDDED ITEMS

A. Place and secure anchorage devices and other embedded items required for adjoining Work that is attached to or supported by cast-in-place concrete.

1. Use setting drawings, templates, diagrams, instructions, and directions furnished with items to be embedded.

3.05 INSTALLATION OF CAST-IN-PLACE CONCRETE

A. Before placing concrete, verify that installation of formwork, reinforcement, and embedded items, is complete and that required inspections are completed.

B. Notify Architect and testing and inspection agencies 24 hours prior to commencement of concrete placement.

C. Water addition in transit or at the Project site must be in accordance with ASTM C94/C94M and must not exceed the permitted amount indicated on the concrete delivery ticket.

D. Deposit concrete continuously in one layer or in horizontal layers of such thickness that no new concrete is placed on concrete that has hardened enough to cause seams or planes of weakness.

1. Deposit concrete to avoid segregation.
2. Deposit concrete in horizontal layers of depth not to exceed formwork design pressures and in a manner to avoid inclined construction joints.
3. Consolidate placed concrete with mechanical vibrating equipment in accordance with ACI 301.

a. Do not use vibrators to transport concrete inside forms.
b. Insert and withdraw vibrators vertically at uniformly spaced locations to rapidly penetrate placed layer and at least 6 inches into preceding layer.
c. Do not insert vibrators into lower layers of concrete that have begun to lose plasticity.

d. At each insertion, limit duration of vibration to time necessary to consolidate concrete, and complete embedment of reinforcement and other embedded items without causing mixture constituents to segregate.

4. Consolidate concrete during placement operations, so concrete is thoroughly worked around reinforcement and other embedded items and into corners.
5. Maintain reinforcement in position on chairs during concrete placement.
6. Screed slab surfaces with a straightedge and strike off to correct elevations.
7. Level concrete, cut high areas, and fill low areas.
8. Slope surfaces uniformly to drains where required.
9. Begin initial floating using bull floats or darbies to form a uniform and open-textured surface plane, before excess bleed water appears on the surface.
10. Do not further disturb slab surfaces before starting finishing operations.

3.06 APPLICATION OF FINISHING FLOORS AND SLABS

A. Broom Finish: Apply a broom finish to exterior concrete platforms, steps, ramps, and locations indicated on Drawings.

1. Immediately after float finishing, slightly roughen trafficked surface by brooming with a fiber-bristle broom perpendicular to main traffic route.
2. Coordinate required final finish with Architect before application.

3.07 APPLICATION OF FINISHING FORMED SURFACES

A. As-Cast Surface Finishes:

1. ACI 301 (ACI 301M) Surface Finish SF-2.0: As-cast concrete texture imparted by form- facing material, arranged in an orderly and symmetrical manner with a minimum of seams.

a. Patch voids larger than 3/4 inch wide or 1/2 inch deep.
b. Remove projections larger than 1/4 inch.
c. Patch tie holes.
d. Surface Tolerance: ACI 117, Class B.

3.08 APPLICATION OF CONCRETE CURING

A. Protect freshly placed concrete from premature drying and excessive cold or hot temperatures.

1. Comply with ACI 301 for cold weather protection during curing.
2. Maintain moisture loss no more than 0.2 lb/sq. ft. x h, calculated in accordance with ACI 305R, before and during finishing operations.

B. Curing Unformed Surfaces: Comply with ACI 308.1 as follows:

1. Begin curing after finishing concrete.
2. Concrete slabs:

a. Floors To Receive Curing and Sealing Compound:

1) Apply uniformly to floors and slabs indicated in a continuous operation by power spray or roller in accordance with manufacturer's written instructions.
2) Recoat areas subjected to heavy rainfall within three hours after initial application.
3) Repeat process 24 hours later and apply a second coat. Maintain continuity of coating, and repair damage during curing period.

3.09 INSTALLATION OF JOINT FILLING

A. Prepare, clean, and install joint filler in accordance with manufacturer's written instructions.

1. Defer joint filling until concrete has aged at least one month(s).

B. Remove dirt, debris, saw cuttings, curing compounds, and sealers from joints; leave contact faces of joints clean and dry.

C. Install semirigid joint filler at least 2 inches deep in formed joints.

D. Overfill joint, and trim joint filler flush with top of joint after hardening.

3.10 INSTALLATION OF CONCRETE SURFACE REPAIRS

A. Defective Concrete:

1. Repair and patch defective areas when approved by Architect.
2. Remove and replace concrete that cannot be repaired and patched to meet specification requirements.

B. Patching Mortar: Mix dry-pack patching mortar, consisting of 1 part portland cement to 2- 1/2 parts fine aggregate passing a No. 16 sieve, using only enough water for handling and placing.

C. Repairing Formed Surfaces: Surface defects include color and texture irregularities, cracks in excess of 0.01 inch spalls, air bubbles exceeding surface finish limits, honeycombs, rock pockets, fins and other projections on the surface exceeding surface finish limits, and stains and other discolorations that cannot be removed by cleaning.

1. Immediately after form removal, cut out honeycombs, rock pockets, and voids more than 1/2 inch in any dimension to solid concrete.

a. Limit cut depth to 3/4 inch.
b. Make edges of cuts perpendicular to concrete surface.
c. Clean, dampen with water, and brush-coat holes and voids with bonding agent.
d. Fill and compact with patching mortar before bonding agent has dried.
e. Fill form-tie voids with patching mortar or cone plugs secured in place with bonding agent.

2. Repair defects on concealed formed surfaces that will affect concrete's durability and structural performance, as determined by Architect.

D. Repairing Unformed Surfaces:

1. Test unformed surfaces, such as floors and slabs, for finish, and verify surface tolerances specified for each surface.

    a. Correct low and high areas.
    b. Test surfaces sloped to drain for trueness of slope and smoothness; use a sloped template.

2. Repair finished surfaces containing surface defects, including spalls, popouts, honeycombs, rock pockets, crazing, and cracks in excess of 0.01 inch wide or that penetrate to reinforcement or completely through unreinforced sections regardless of width.
3. After concrete has cured at least 14 days, correct high areas by grinding.
4. Correct localized low areas during, or immediately after, completing surface-finishing operations by adding patching mortar.

    a. Finish repaired areas to blend into adjacent concrete.

5. Repair defective areas, except random cracks and single holes 1 inch or less in diameter, by cutting out and replacing with fresh concrete.

    a. Remove defective areas with clean, square cuts, and expose steel reinforcement with at least a 3/4-inch clearance all around.
    b. Dampen concrete surfaces in contact with patching concrete and apply bonding agent.
    c. Mix patching concrete of same materials and mixture as original concrete, except without coarse aggregate.
    d. Place, compact, and finish to blend with adjacent finished concrete.
    e. Cure in same manner as adjacent concrete. Repair random cracks and single holes 1 inch or less in diameter with patching mortar.
    f. Groove top of cracks and cut out holes to sound concrete, and clean off dust, dirt, and loose particles.
    g. Dampen cleaned concrete surfaces and apply bonding agent.
    h. Place patching mortar before bonding agent has dried.
    i. Compact patching mortar and finish to match adjacent concrete.
    j. Keep patched area continuously moist for at least 72 hours.

E. Perform structural repairs of concrete, subject to Architect's approval, using epoxy adhesive and patching mortar.

F. Repair materials and installation not specified above may be used, subject to Architect's approval.

3.11 FIELD QUALITY CONTROL

A. Special Inspections: Department will engage a special inspector to perform field tests and inspections and prepare testing and inspection reports.

B. Testing Agency: Department will engage a qualified testing and inspecting agency to perform tests and inspections and to submit reports.

1. Testing agency to be responsible for providing curing facility for initial curing of strength test specimens on-site and verifying that test specimens are cured in

accordance with standard curing requirements in ASTM C31/C31M.

2. Testing agency to immediately report to Architect, Contractor, and concrete manufacturer any failure of Work to comply with Contract Documents.
3. Testing agency to report results of tests and inspections, in writing, to Department, Architect, Contractor, and concrete manufacturer within 48 hours of inspections and tests.

    a. Test reports to include reporting requirements of ASTM C31/C31M, ASTM C39/C39M, and ACI 301, including the following as applicable to each test and inspection:

        1) Project name.
        2) Name of testing agency.
        3) Names and certification numbers of field and laboratory technicians performing inspections and testing.
        4) Name of concrete manufacturer.
        5) Date and time of inspection, sampling, and field testing.
        6) Date and time of concrete placement.
        7) Location in Work of concrete represented by samples.
        8) Date and time sample was obtained.
        9) Truck and batch ticket numbers.
        10) Design compressive strength at 28 days.
        11) Concrete mixture designation, proportions, and materials.
        12) Field test results of fresh concrete, including slump or slump flow, air content, temperature and density.
        13) Information on storage and curing of samples at the Project site, including curing method and maximum and minimum temperatures during initial curing period.
        14) Type of fracture and compressive break strengths at seven days and 28 days.

4. Provide a space and source of power or other resources for curing and access to test specimens by the testing agency.

C. Delivery Tickets: comply with ASTM C94/C94M.

D. Inspections:

1. Concrete anchors.
2. Verification of use of required design mixture.
3. Concrete placement, including conveying and depositing.
4. Curing procedures and maintenance of curing temperature.
5. Verification of concrete strength before removal of shores and forms from beams and slabs.
6. Batch Plant Inspections: On a random basis, as determined by Architect.

E. Concrete Tests: Testing of composite samples of fresh concrete obtained in accordance with ASTM C 172/C 172M to be performed in accordance with the following requirements:

1. Testing Frequency: Obtain one composite sample for each day's pour of each concrete mixture, plus one set for each additional 150 cu. yd. or fraction thereof.

    a. When frequency of testing provides fewer than five compressive-strength

tests for each concrete mixture, testing is to be conducted from at least five randomly selected batches or from each batch if fewer than five are used.

2. Slump: ASTM C143/C143M:

   a. One test at point of delivery for each composite sample, but not less than one test for each day's pour of each concrete mixture.
   b. Perform additional tests as needed.

3. Slump Flow: ASTM C1611/C1611M:

   a. One test at point of delivery for each composite sample when strength test specimens are cast, but not less than one test for each day's pour of each concrete mixture.
   b. Perform additional tests as needed.

4. Air Content: ASTM C231/C231M pressure method, for normal-weight concrete.

   a. One test for each composite sample when strength test specimens are cast, but not less than one test for each day's pour of each concrete mixture.

5. Concrete Temperature: ASTM C1064/C1064M:

   a. One test hourly when air temperature is 40 deg F and below, and one test for each composite sample when strength test specimens are cast.

6. Concrete Density: ASTM C138/C138M:

   a. One test for each composite sample when strength test specimens are cast.

7. Compression Test Specimens: ASTM C31/C31M:

   a. Cast and standard cure three sets of three 6 inches by 12-inches.

8. Compressive-Strength Tests: ASTM C39/C39M.

   a. Test one set of two standard cured specimens at seven days, one set of two standard cured specimens at fourteen days, and one set of two specimens at 28 days. If the concrete has achieved its full design strength by 14 days, the 28-day test need not be performed.
   b. A compressive-strength test to be the average compressive strength from a set of two specimens obtained from same composite sample and tested at age indicated.

9. Strength of each concrete mixture will be satisfactory if every average of any consecutive compressive-strength tests of standard cured cylinders equals or exceeds specified compressive strength, and no compressive-strength test value falls below specified compressive strength by more than 500 psi
10. Additional Tests:

    a. Testing and inspecting agency to make additional tests of concrete when

test results indicate that slump, air entrainment, compressive strengths, or other requirements have not been met, as directed by Architect.

b. Testing and inspecting agency may conduct tests to determine adequacy of concrete by cored cylinders complying with ASTM C42/C42M or by other methods as directed by Architect.

1) Acceptance criteria for concrete strength to be in accordance with ACI 301, Section 1.7.6.3.

11. Additional testing and inspecting, at Contractor's expense, will be performed to determine compliance of replaced or additional work with specified requirements.
12. Correct deficiencies in the Work that test reports and inspections indicate do not comply with the Contract Documents.

3.12 PROTECTION

A. Protect concrete surfaces as follows:

1. Protect from petroleum stains.
2. Diaper hydraulic equipment used over concrete surfaces.
3. Prohibit placement of steel items on concrete surfaces.

END OF SECTION

STRUCTURAL STEEL FRAMING

PART 1. GENERAL

1.01 NOTIFICATIONS OF POTENTIAL HAZARDS

A. Notification of Potential Hazards: Asbestos, lead and other potentially hazardous materials are present in the building that may impact the work of all trades. Regulated air contaminates, including asbestos and lead are also present in the settled and concealed dust in and on architectural, structural, mechanical, and electrical components and systems throughout the building. All trades shall coordinate with other trades and conduct their work to prevent worker exposure or site. Refer to Divisions 0, 1 and 2 for specific information concerning disturbing, removing, and disposing of these materials and the installation of new materials or components. This notification is provided in accordance with the EPA and OSHA requirements.

B. Notification of Child Occupied Facility: Portions of this building are classified as a Child Occupied Facility in accordance with 40 CFR 745 and lead-based paints may be present on components to be disturbed in those areas. Personnel performing work in these areas must comply with the requirements of 40 CFR 745, including training, work practices and cleaning of the work area. Refer to Specification Divisions 0, 1 and 2 for specific information concerning disturbing, removing, and disposing of lead materials and the installation of new materials or components. This notification is provided in accordance with the EPA and OSHA requirements.

1.02 SUMMARY

A. Section Includes:

1. Structural-steel materials.
2. Shrinkage-resistant grout.
3. Prefabricated building columns.
4. Shear stud connectors.

B. Related Requirements:

1. Section 05 31 00 "Steel Decking" for field installation of shear stud connectors through deck.
2. Section 09 91 13 "Exterior Painting" for painting requirements.

1.03 DEFINITIONS

A. Structural Steel: Elements of the structural frame indicated on Drawings and as described in ANSI/AISC 303.

B. Seismic-Load-Resisting System: Elements of structural-steel frame designated as "SLRS" or along grid lines designated as "SLRS" on Drawings, including columns, beams, and braces and their connections.

C. Demand-Critical Welds: Those welds, the failure of which would result in significant degradation of the strength and stiffness of the seismic-load-resisting system and which are indicated as "demand critical" or "seismic critical" on Drawings.

1.04 COORDINATION

A. Coordinate selection of shop primers with topcoats to be applied over them. Comply with paint and coating manufacturers' written recommendations to ensure that shop primers and topcoats are compatible with one another.

B. Coordinate installation of anchorage items to be embedded in or attached to other construction without delaying the Work. Provide setting diagrams, sheet metal templates, instructions, and directions for installation.

1.05 PREINSTALLATION MEETINGS

A. Preinstallation Conference: Conduct conference using video conferencing.

1.06 ACTION SUBMITTALS

A. See Division 1 for submittal procedures.

B. Product Data:

1. High-strength, bolt-nut-washer assemblies.
2. Anchor rods.
3. Shrinkage-resistant grout.

C. Shop Drawings: Show fabrication of structural-steel components.

1. Include details of cuts, connections, splices, camber, holes, and other pertinent data.
2. Include embedment Drawings.
3. Indicate welds by standard AWS symbols, distinguishing between shop and field welds, and show size, length, and type of each weld. Show backing bars that are to be removed and supplemental fillet welds where backing bars are to remain.
4. Indicate type, size, and length of bolts, distinguishing between shop and field bolts. Identify pretensioned and slip-critical, high-strength bolted connections.
5. Identify members and connections of the seismic-load-resisting system.
6. Indicate locations and dimensions of protected zones.
7. Identify demand-critical welds.
8. Identify members not to be shop primed.

1.07 INFORMATIONAL SUBMITTALS

A. Qualification Data: For Installer and fabricator.

B. Paint Compatibility Certificates: From manufacturers of topcoats applied over shop primers, certifying that shop primers are compatible with topcoats.

C. Product Test Reports: For the following:

1. Bolts, nuts, and washers, including mechanical properties and chemical analysis.
2. Direct-tension indicators.
3. Tension-control, high-strength, bolt-nut-washer assemblies.

D. Survey of existing conditions.

1.08 QUALITY ASSURANCE

A. Fabricator Qualifications: A qualified fabricator that participates in the AISC Quality Certification Program and is designated an AISC-Certified Plant, Category BU or is accredited by the IAS Fabricator Inspection Program for Structural Steel (Acceptance Criteria 172); or a fabricator whose name is listed on the acceptable fabricators list at the building department.

B. Installer Qualifications: A qualified Installer who participates in the AISC Quality Certification Program and is designated an AISC-Certified Erector.

1.09 DELIVERY, STORAGE, AND HANDLING

A. Store materials to permit easy access for inspection and identification. Keep steel members off ground and spaced by using pallets, dunnage, or other supports and spacers. Protect steel members and packaged materials from corrosion and deterioration.

1. Do not store materials on structure in a manner that might cause distortion, damage, or overload to members or supporting structures. Repair or replace damaged materials or structures as directed.

B. Store fasteners in a protected place in sealed containers with manufacturer's labels intact.

1. Fasteners may be repackaged provided Owner's testing and inspecting agency observes repackaging and seals containers.
2. Clean and relubricate bolts and nuts that become dry or rusty before use.
3. Comply with manufacturers' written recommendations for cleaning and lubricating ASTM F3125/F3125M, Grade F1852 bolt assemblies and for retesting bolt assemblies after lubrication.

PART 2. PRODUCTS

2.01 PERFORMANCE REQUIREMENTS

A. Comply with applicable provisions of the following specifications and documents:

1. ANSI/AISC 303.
2. ANSI/AISC 341.
3. ANSI/AISC 360.
4. RCSC's "Specification for Structural Joints Using High-Strength Bolts."

B. Connection Design Information:

1. Option 1: Connection designs have been completed and prescriptive connections are indicated on the Drawings.

2.02 STRUCTURAL-STEEL MATERIALS

A. W-Shapes: ASTM A992/A992M or ASTM A572/A572M, Grade 50.

B. Channels, Angles, M-Shapes: ASTM A36/A36M, ASTM A572/A572M, Grade 50

C. Channels, Angles, ASTM A36/A36M, ASTM A572/A572M, Grade 50

D. Materials complying with first option in "Plate and Bar" Paragraph below are widely available; those complying with second option are less so. Third option is a specialty-steel material; verify availability if required.

E. Plate and Bar: ASTM A36/A36M, ASTM A572/A572M, Grade 50.

F. Cold-Formed Hollow Structural Sections: ASTM A500/A500M, Grade B

G. Steel Pipe: ASTM A53/A53M, Type E or Type S, Grade B.

1. Finish: Black.

H. Welding Electrodes: Comply with AWS requirements.

2.03 BOLTS AND CONNECTORS

A. Tension-Control, High-Strength Bolt-Nut-Washer Assemblies: ASTM F3125/F3125M, Grade F1852, Type 1, round head assemblies, consisting of steel structural bolts with splined ends; ASTM A563, Grade DH, heavy-hex carbon-steel nuts; and ASTM F436/F436M, Type 1, hardened carbon-steel washers.

1. Finish: Plain.

2.04 RODS

A. Unheaded Anchor Rods: ASTM F1554, Grade 55, weldable.

1. Nuts: ASTM A563 heavy-hex carbon steel.
2. Plate Washers: ASTM A36/A36M carbon steel.
3. Washers: ASTM F436, Type 1, hardened carbon steel.
4. Finish: Plain.

B. Headed Anchor Rods: ASTM F1554, Grade 55, weldable, straight.

1. Nuts: ASTM A563 [heavy-]hex carbon steel.
2. Plate Washers: ASTM A36/A36M carbon steel.
3. Washers: ASTM F436, Type 1, hardened carbon steel.
4. Finish: Plain

2.05 PRIMER

A. Steel Primer:

1. Comply with Section 09 91 13 "Exterior Painting."
2. Fabricator's standard lead- and chromate-free, nonasphaltic, rust-inhibiting primer complying with MPI#79 and compatible with topcoat.

2.06 SHRINKAGE-RESISTANT GROUT

A. Nonmetallic, Shrinkage-Resistant Grout: ASTM C1107/C1107M, factory-packaged,

nonmetallic aggregate grout, noncorrosive and nonstaining, mixed with water to consistency suitable for application and a 30-minute working time.

2.07 FABRICATION

A. Structural Steel: Fabricate and assemble in shop to greatest extent possible. Fabricate in accordance with ANSI/AISC 303 and to ANSI/AISC 360.

1. Fabricate beams with rolling camber up.
2. Identify high-strength structural steel in accordance with ASTM A6/A6M and maintain markings until structural-steel framing has been erected.
3. Mark and match-mark materials for field assembly.
4. Complete structural-steel assemblies, including welding of units, before starting shop- priming operations.

B. Thermal Cutting: Perform thermal cutting by machine to greatest extent possible.

1. Plane thermally cut edges to be welded to comply with requirements in AWS D1.1/D1.1M.

C. Bolt Holes: Cut, drill, or punch standard bolt holes perpendicular to metal surfaces.

D. Finishing: Accurately finish ends of columns and other members transmitting bearing loads.

E. Cleaning:

1. Clean and prepare all steel surfaces other than HSS columns in accordance with SSPC- SP 3.
2. Clean and prepare all HSS steel column in accordance with SSPC-SP 5.

2.08 SHOP CONNECTIONS

A. High-Strength Bolts: Shop install high-strength bolts in accordance with RCSC's "Specification for Structural Joints Using High-Strength Bolts" for type of bolt and type of joint specified.

1. Joint Type: Snug tightened except where indicated on the drawings.

B. Weld Connections: Comply with AWS D1.1/D1.1M and AWS D1.8/D1.8M for tolerances, appearances, welding procedure specifications, weld quality, and methods used in correcting welding work.

1. Assemble and weld built-up sections by methods that maintain true alignment of axes without exceeding tolerances in ANSI/AISC 303 for mill material.

2.09 SHOP PRIMING

A. Shop prime steel surfaces, except the following:

1. Surfaces embedded in concrete or mortar. Extend priming of partially embedded members to a depth of 2 inches.
2. Surfaces to be field welded.
3. Surfaces of high-strength bolted, slip-critical connections.

B. Surface Preparation of Steel: Clean surfaces to be painted. Remove loose rust and mill scale and spatter, slag, or flux deposits. Prepare surfaces in accordance with the following specifications and standards:

1. SSPC-SP 5 (WAB)/NACE WAB-1.

C. Priming: Immediately after surface preparation, apply primer in accordance with manufacturer's written instructions and at rate recommended by SSPC to provide a minimum dry film thickness of 1.5 mils. Use priming methods that result in full coverage of joints, corners, edges, and exposed surfaces.

1. Stripe paint corners, crevices, bolts, welds, and sharp edges.
2. Apply two coats of shop paint to surfaces that are inaccessible after assembly or erection. Change color of second coat to distinguish it from first.

PART 3. EXECUTION

3.01 EXAMINATION

A. Verify, with certified steel erector present, elevations of concrete- and masonry-bearing surfaces and locations of anchor rods, bearing plates, and other embedments for compliance with requirements.

1. Prepare a certified survey of existing conditions. Include bearing surfaces, anchor rods, bearing plates, and other embedments showing dimensions, locations, angles, and elevations.

B. Proceed with installation only after unsatisfactory conditions have been corrected.

3.02 PREPARATION

A. Provide temporary shores, guys, braces, and other supports during erection to keep structural steel secure, plumb, and in alignment against temporary construction loads and loads equal in intensity to design loads. Remove temporary supports when permanent structural steel, connections, and bracing are in place unless otherwise indicated on Drawings.

1. Do not remove temporary shoring supporting composite deck construction and structural- steel framing until cast-in-place concrete has attained its design compressive strength.

3.03 ERECTION

A. Set structural steel accurately in locations and to elevations indicated and in accordance with ANSI/AISC 303 and ANSI/AISC 360.

B. Baseplates, Bearing Plates, and Leveling Plates: Clean concrete- and masonry-bearing surfaces of bond-reducing materials, and roughen surfaces prior to setting plates. Clean bottom surface of plates.

1. Set plates for structural members on wedges, shims, or setting nuts as required.

2. Weld plate washers to top of baseplate.
3. Snug-tighten anchor rods after supported members have been positioned and plumbed. Do not remove wedges or shims but, if protruding, cut off flush with edge of plate before packing with grout.
4. Promptly pack shrinkage-resistant grout solidly between bearing surfaces and plates, so no voids remain. Neatly finish exposed surfaces; protect grout and allow to cure. Comply with manufacturer's written installation instructions for grouting.

C. Maintain erection tolerances of structural steel within ANSI/AISC 303.

D. Align and adjust various members that form part of complete frame or structure before permanently fastening. Before assembly, clean bearing surfaces and other surfaces that are in permanent contact with members. Perform necessary adjustments to compensate for discrepancies in elevations and alignment.

1. Level and plumb individual members of structure. Slope roof framing members to slopes indicated on Drawings.

E. Splice members only where indicated.

F. Do not use thermal cutting during erection unless approved by Architect. Finish thermally cut sections within smoothness limits in AWS D1.1/D1.1M.

G. Do not enlarge unfair holes in members by burning or using drift pins. Ream holes that must be enlarged to admit bolts.

3.04 FIELD CONNECTIONS

A. High-Strength Bolts: Install high-strength bolts in accordance with RCSC's "Specification for Structural Joints Using High-Strength Bolts" for bolt and joint type specified.

1. Joint Type: as indicated on the Drawings..

B. Weld Connections: Comply with AWS D1.1/D1.1M and AWS D1.8/D1.8M for tolerances, appearances, welding procedure specifications, weld quality, and methods used in correcting welding work.

1. Comply with ANSI/AISC 303 and ANSI/AISC 360 for bearing, alignment, adequacy of temporary connections, and removal of paint on surfaces adjacent to field welds.

3.05 REPAIR

A. Galvanized Surfaces: Clean areas where galvanizing is damaged or missing, and repair galvanizing to comply with ASTM A780/A780M.

B. Touchup Painting:

1. Immediately after erection, clean exposed areas where primer is damaged or missing, and paint with the same material as used for shop painting to comply with SSPC-PA 1 for touching up shop-painted surfaces.

a. Clean and prepare surfaces by SSPC-SP 2 hand-tool cleaning or SSPC-SP 3 power-tool cleaning.

2. Cleaning and touchup painting are specified in Section 099113 "Exterior Painting."

C. Touchup Priming: Cleaning and touchup priming are specified in Section 099600 "High-Performance Coatings."

3.06 FIELD QUALITY CONTROL

A. Special Inspections: Owner will engage a special inspector to perform the following special inspections:

1. Verify structural-steel materials and inspect steel frame joint details.
2. Verify weld materials and inspect welds.
3. Verify connection materials and inspect high-strength bolted connections.

B. Testing Agency: Owner will engage a qualified testing agency to perform tests and inspections.

1. Bolted Connections: Inspect bolted connections in accordance with RCSC's "Specification for Structural Joints Using High-Strength Bolts."
2. Welded Connections: Visually inspect field welds in accordance with AWS D1.1/D1.1M.

END OF SECTION

STEEL DECKING

PART 1. GENERAL

1.01 NOTIFICATIONS OF POTENTIAL HAZARDS

A. Notification of Potential Hazards: Asbestos, lead and other potentially hazardous materials are present in the building that may impact the work of all trades. Regulated air contaminates, including asbestos and lead are also present in the settled and concealed dust in and on architectural, structural, mechanical, and electrical components and systems throughout the building. All trades shall coordinate with other trades and conduct their work to prevent worker exposure or site. Refer to Divisions 0, 1 and 2 for specific information concerning disturbing, removing, and disposing of these materials and the installation of new materials or components. This notification is provided in accordance with the EPA and OSHA requirements.

B. Notification of Child Occupied Facility: Portions of this building are classified as a Child Occupied Facility in accordance with 40 CFR 745 and lead-based paints may be present on components to be disturbed in those areas. Personnel performing work in these areas must comply with the requirements of 40 CFR 745, including training, work practices and cleaning of the work area. Refer to Specification Divisions 0, 1 and 2 for specific information concerning disturbing, removing, and disposing of lead materials and the installation of new materials or components. This notification is provided in accordance with the EPA and OSHA requirements.

1.02 SUMMARY

A. Section Includes:

1. Roof deck.

B. Related Requirements:

1. Div 0-1 Department Requirements.
2. Section 05 12 00 "Structural Steel Framing"

1.03 ACTION SUBMITTALS

A. See Division 1 for submittal procedures.

B. Product Data:

1. Roof deck.

C. Shop Drawings:

1. Include layout and types of deck panels, anchorage details, reinforcing channels, pans, cut deck openings, special jointing, accessories, and attachments to other construction.

1.04 INFORMATIONAL SUBMITTALS

A. Welding certificates.

B. Product Certificates: For each type of steel deck.

C. Test and Evaluation Reports:

1. Research Reports: For steel deck, from ICC-ES showing compliance with the building code.

D. Field Quality-Control Submittals:

1. Field quality-control reports.

E. Qualification Statements: For welding personnel and testing agency.

1.05 QUALITY ASSURANCE

A. Welding Qualifications: Qualify procedures and personnel in accordance with SDI QA/QC and the following welding codes:

1. AWS D1.3/D1.3M.

1.06 DELIVERY, STORAGE, AND HANDLING

A. Protect steel deck from corrosion, deformation, and other damage during delivery, storage, and handling.

B. Store products in accordance with SDI MOC3. Stack steel deck on platforms or pallets and slope to provide drainage. Protect with a waterproof covering and ventilate to avoid condensation.

PART 2. PRODUCTS

2.01 PERFORMANCE REQUIREMENTS

A. AISI Specifications: Comply with calculated structural characteristics of steel deck in accordance with AISI S100.

2.02 ROOF DECK

A. Fabrication of Roof Deck: Fabricate panels, without top-flange stiffening grooves, to comply with SDI RD and with the following:

1. Galvanized-Steel Sheet: ASTM A653/A653M, Structural Steel (SS), Grade 50 G90 zinc coating.

2.03 ACCESSORIES

A. Provide manufacturer's standard accessory materials for deck that comply with requirements indicated.

B. Mechanical Fasteners: Corrosion-resistant, self-drilling, self-threading screws.

C. Recessed Sump Pans: Single-piece steel sheet, 0.0747 inch thick, of same material and

finish as deck, with 3-inch- wide flanges and level recessed pans of 1-1/2-inch minimum depth. For drains, cut holes in the field.

PART 3. EXECUTION

3.01 EXAMINATION

A. Examine supporting frame and field conditions for compliance with requirements for installation tolerances and other conditions affecting performance of the Work.

B. Proceed with installation only after unsatisfactory conditions have been corrected.

3.02 INSTALLATION, GENERAL

A. Install deck panels and accessories in accordance with SDI C; manufacturer's written instructions; and requirements in this Section.

B. Locate deck bundles to prevent overloading of supporting members.

C. Place deck panels on supporting frame and adjust to final position with ends accurately aligned and bearing on supporting frame before being permanently fastened. Do not stretch or contract side-lap interlocks.

D. Place deck panels flat and square and fasten to supporting frame without warp or deflection.

E. Cut and neatly fit deck panels and accessories around openings and other work projecting through or adjacent to deck.

F. Provide additional reinforcement and closure pieces at openings as required for strength, continuity of deck, and support of other work.

G. Comply with AWS requirements and procedures for manual shielded metal arc welding, appearance and quality of welds, and methods used for correcting welding work.

3.03 INSTALLATION OF ROOF DECK

A. Fasten roof-deck panels to steel supporting members by arc spot (puddle) welds of the surface diameter indicated.

B. Side-Lap and Perimeter Edge Fastening: as indicated.

C. End Bearing: Install deck ends over supporting frame with a minimum end bearing of 1-1/2 inches, with end joints as follows:

1. End Joints: Lapped 2 inches minimum.

D. Roof Sump Pans and Sump Plates: Install over openings provided in roof deck and weld or mechanically fasten flanges to top of deck. Space welds or mechanical fasteners not more than 6 inches apart with at least one weld or fastener at each corner.

3.04 REPAIR

A. Galvanizing Repairs: Prepare and repair damaged galvanized coatings on both surfaces of deck with galvanized repair paint in accordance with ASTM A780/A780M and manufacturer's written instructions.

B. Repair Painting:

1. Wire brush and clean rust spots, welds, and abraded areas on bottom surface of deck immediately after installation, and apply repair paint.

3.05 FIELD QUALITY CONTROL

A. Testing Agency: Department will engage a qualified testing agency to perform tests and inspections.

B. Tests and Inspections:

1. Special inspections and qualification of welding special inspectors for cold-formed steel roof deck in accordance with quality-assurance inspection requirements of SDI QA/QC.

a. Field welds will be subject to inspection.

2. Steel decking will be considered defective if it does not pass tests and inspections.

C. Prepare test and inspection reports.

END OF SECTION

METAL FABRICATIONS

PART 1. GENERAL

1.01 NOTIFICATIONS OF POTENTIAL HAZARDS

A. Notification of Potential Hazards: Asbestos, lead and other potentially hazardous materials are present in the building that may impact the work of all trades. Regulated air contaminates, including asbestos and lead are also present in the settled and concealed dust in and on architectural, structural, mechanical, and electrical components and systems throughout the building. All trades shall coordinate with other trades and conduct their work to prevent worker exposure or site. Refer to Divisions 0, 1 and 2 for specific information concerning disturbing, removing, and disposing of these materials and the installation of new materials or components. This notification is provided in accordance with the EPA and OSHA requirements.

B. Notification of Child Occupied Facility: Portions of this building are classified as a Child Occupied Facility in accordance with 40 CFR 745 and lead-based paints may be present on components to be disturbed in those areas. Personnel performing work in these areas must comply with the requirements of 40 CFR 745, including training, work practices and cleaning of the work area. Refer to Specification Divisions 0, 1 and 2 for specific information concerning disturbing, removing, and disposing of lead materials and the installation of new materials or components. This notification is provided in accordance with the EPA and OSHA requirements.

1.02 SUMMARY

A. Section Includes:

1. Miscellaneous framing and supports.
2. Metal bollards.
3. Abrasive metal nosings, treads, and thresholds.

B. Related Requirements:

1. Div 0-1 Department Requirements.
2. Section 05 12 00 "Structural Steel Framing" for steel framing, supports, elevator machine beams, hoist beams, divider beams, door frames, and other steel items attached to the structural-steel framing.

1.03 COORDINATION

A. Coordinate selection of shop primers with topcoats to be applied over them. Comply with paint and coating manufacturers' written instructions to ensure that shop primers and topcoats are compatible with one another.

B. Coordinate installation of metal fabrications that are anchored to or that receive other work. Furnish setting drawings, templates, and directions for installing anchorages, including sleeves, concrete inserts, anchor bolts, and items with integral anchors, that are to be embedded in concrete or masonry. Deliver such items to Project site in time for installation.

1.04 ACTION SUBMITTALS

A. Refer to Division 1 for submittal procedures.

B. Product Data:

1. Fasteners.
2. Shop primers.
3. Shrinkage-resisting grout.
4. Metal bollards.
5. Abrasive metal nosings.

C. Shop Drawings: Show fabrication and installation details. Include plans, elevations, sections, and details of metal fabrications and their connections. Show anchorage and accessory items. Provide Shop Drawings for the following:

1. Miscellaneous framing and supports for applications where framing and supports are not specified in other Sections.
2. Metal bollards.

D. Samples for Verification: For each type and finish of extruded nosing.

1.05 INFORMATIONAL SUBMITTALS

A. Paint Compatibility Certificates: From manufacturers of topcoats applied over shop primers, certifying that shop primers are compatible with topcoats.

B. Research Reports: For post-installed anchors.

PART 2. PRODUCTS

2.01 METALS

A. Metal Surfaces, General: Provide materials with smooth, flat surfaces unless otherwise indicated. For metal fabrications exposed to view in the completed Work, provide materials without seam marks, roller marks, rolled trade names, or blemishes.

B. Steel Plates, Shapes, and Bars: ASTM A36/A36M.

C. Steel Pipe: ASTM A53/A53M, Standard Weight (Schedule 40) unless otherwise indicated.

2.02 FASTENERS

A. General: Unless otherwise indicated, provide Type 304 stainless steel fasteners for exterior use

B. Post-Installed Anchors: Torque-controlled expansion anchors, Type 304 stainless steel.

2.03 MISCELLANEOUS MATERIALS

A. Shop Primers: Provide primers that comply with Section 099113 "Exterior Painting."

B. Shrinkage-Resistant Grout: Factory-packaged, nonmetallic, nonstaining, noncorrosive, nongaseous grout complying with ASTM C1107/C1107M. Provide grout specifically recommended by manufacturer for interior and exterior applications.

C. Concrete: Comply with requirements in Section 033000 "Cast-in-Place Concrete".

2.04 FABRICATION, GENERAL

A. Shop Assembly: Preassemble items in the shop to greatest extent possible. Disassemble units only as necessary for shipping and handling limitations. Use connections that maintain structural value of joined pieces. Clearly mark units for reassembly and coordinated installation.

B. Cut, drill, and punch metals cleanly and accurately. Remove burrs and ease edges to a radius of approximately 1/16 inch unless otherwise indicated. Remove sharp or rough areas on exposed surfaces.

C. Form bent-metal corners to smallest radius possible without causing grain separation or otherwise impairing work.

D. Form exposed work with accurate angles and surfaces and straight edges.

E. Weld corners and seams continuously to comply with the following:

1. Use materials and methods that minimize distortion and develop strength and corrosion resistance of base metals.
2. Obtain fusion without undercut or overlap.
3. Remove welding flux immediately.

F. Form exposed connections with hairline joints, flush and smooth, using concealed fasteners or welds where possible. Where exposed fasteners are required, use Phillips flat-head (countersunk) fasteners unless otherwise indicated. Locate joints where least conspicuous.

G. Fabricate seams and other connections that are exposed to weather in a manner to exclude water. Provide weep holes where water may accumulate.

H. Cut, reinforce, drill, and tap metal fabrications as indicated to receive finish hardware, screws, and similar items.

I. Provide for anchorage of type indicated; coordinate with supporting structure. Space anchoring devices to secure metal fabrications rigidly in place and to support indicated loads.

2.05 MISCELLANEOUS FRAMING AND SUPPORTS

A. General: Provide steel framing and supports not specified in other Sections as needed to complete the Work.

B. Fabricate units from steel shapes, plates, and bars of welded construction unless otherwise indicated. Fabricate to sizes, shapes, and profiles indicated and as necessary to receive adjacent construction.

C. Prime miscellaneous framing and supports in conformance with Section 09 91 13 "Exterior Painting" Where indicated.

2.06 METAL BOLLARDS

A. Fabricate metal bollards from steel shapes, as indicated.

1. Cap bollards as indicated.

B. Prime steel bollards with Section 09 91 13 "Exterior Painting."

2.07 ABRASIVE METAL NOSINGS, TREADS, AND THRESHOLDS

A. Cast-Metal Units: Cast iron, with an integral-abrasive, as-cast finish consisting of aluminum oxide, silicon carbide, or a combination of both. Fabricate units in lengths necessary to accurately fit openings or conditions.

1. Source Limitations: Obtain units from single source from single manufacturer.
2. Cross-hatched nosings, 4 inches wide, with 1/4-inch- thick 1-inch lip, for casting into concrete.

B. Provide anchors for embedding units in concrete, either integral or applied to units, as standard with manufacturer.

2.08 GENERAL FINISH REQUIREMENTS

A. Finish metal fabrications after assembly.

B. Finish exposed surfaces to remove tool and die marks and stretch lines, and to blend into surrounding surface.

2.09 STEEL AND IRON FINISHES

A. Galvanizing: Hot-dip galvanize or spray metalize items as indicated to comply with ASTM A153/A153M for steel and iron hardware and with ASTM A123/A123M for other steel and iron products.

1. Do not quench or apply post galvanizing treatments that might interfere with paint adhesion.

B. Preparation for Shop Priming Galvanized Items: After galvanizing, thoroughly clean galvanized surfaces of grease, dirt, oil, flux, and other foreign matter, and treat with metallic phosphate process.

C. Shop prime iron and steel items not indicated to be galvanized unless they are to be embedded in concrete, sprayed-on fireproofing, or masonry, or unless otherwise indicated.

1. Shop prime with primers specified in Section 09 91 13 "Exterior Painting" indicated.

D. Preparation for Shop Priming: Prepare surfaces to comply with [SSPC-SP 6/NACE No. 3, "Commercial Blast Cleaning."] [SSPC-SP 3, "Power Tool Cleaning."] [requirements indicated below:]

1. Exterior Items: SSPC-SP 6/NACE No. 3, "Commercial Blast Cleaning."
2. Items Indicated to Receive Primers Specified in Section 099113 "Exterior Painting": SSPC-SP 6/NACE No. 3, "Commercial Blast Cleaning."
3. Other Steel Items: SSPC-SP 3, "Power Tool Cleaning."

E. Shop Priming: Apply shop primer to comply with SSPC-PA 1, "Paint Application Specification No. 1: Shop, Field, and Maintenance Painting of Steel," for shop painting.

1. Stripe paint corners, crevices, bolts, welds, and sharp edges.

PART 3. EXECUTION

3.01 INSTALLATION, GENERAL

A. Cutting, Fitting, and Placement: Perform cutting, drilling, and fitting required for installing metal fabrications. Set metal fabrications accurately in location, alignment, and elevation; with edges and surfaces level, plumb, true, and free of rack; and measured from established lines and levels.

B. Fit exposed connections accurately together to form hairline joints. Weld connections that are not to be left as exposed joints but cannot be shop welded because of shipping size limitations. Do not weld, cut, or abrade surfaces of exterior units that have been hot-dip galvanized after fabrication and are for bolted or screwed field connections.

C. Field Welding: Comply with the following requirements:

1. Use materials and methods that minimize distortion and develop strength and corrosion resistance of base metals.
2. Obtain fusion without undercut or overlap.
3. Remove welding flux immediately.
4. At exposed connections, finish exposed welds and surfaces smooth and blended so no roughness shows after finishing and contour of welded surface matches that of adjacent surface.

D. Fastening to In-Place Construction: Provide anchorage devices and fasteners where metal fabrications are required to be fastened to in-place construction. Provide threaded fasteners for use with concrete, through bolts, and other connectors.

E. Provide temporary bracing or anchors in formwork for items that are to be built into concrete, masonry, or similar construction.

3.02 INSTALLATION OF MISCELLANEOUS FRAMING AND SUPPORTS

A. General: Install framing and supports to comply with requirements of items being supported, including manufacturers' written instructions and requirements indicated on Shop Drawings.

3.03 INSTALLATION OF MISCELLANEOUS STEEL TRIM

A. Anchor to concrete construction to comply with manufacturer's written instructions.

3.04 INSTALLATION OF METAL BOLLARDS

A. Anchor bollards in place with concrete footings as indicated in the Drawings.

3.05 INSTALLATION OF ABRASIVE METAL NOSINGS, TREADS, AND THRESHOLDS

A. Center nosings on tread widths unless otherwise indicated.

B. Align nosings flush with riser faces and level with tread surfaces.

3.06 REPAIRS

A. Touchup Painting:

1. Immediately after erection, clean field welds, bolted connections, and abraded areas. Paint uncoated and abraded areas with same material as used for shop painting to comply with SSPC-PA 1 for touching up shop-painted surfaces.

a. Apply by brush or spray to provide a minimum 2.0-mil dry film thickness.

2. Cleaning and touchup painting of field welds, bolted connections, and abraded areas of shop paint are specified in Section 09 91 13 "Exterior Painting."

B. Galvanized Surfaces: Clean field welds, bolted connections, and abraded areas and repair galvanizing to comply with ASTM A780/A780M.

END OF SECTION

PIPE AND TUBE RAILINGS

PART 1. GENERAL

1.01 NOTIFICATIONS OF POTENTIAL HAZARDS

A. Notification of Potential Hazards: Asbestos, lead and other potentially hazardous materials are present in the building that may impact the work of all trades. Regulated air contaminates, including asbestos and lead are also present in the settled and concealed dust in and on architectural, structural, mechanical, and electrical components and systems throughout the building. All trades shall coordinate with other trades and conduct their work to prevent worker exposure or site. Refer to Divisions 0, 1 and 2 for specific information concerning disturbing, removing, and disposing of these materials and the installation of new materials and components. This notification is provided in accordance with the EPA and OSHA requirements.

B. Notification of Child Occupied Facility: Portions of this building are classified as a Child Occupied Facility in accordance with 40 CFR 745 and lead-based paints may be present on components to be disturbed in those areas. Personnel performing work in these areas must comply with the requirements of 40 CFR 745, including training, work practices and cleaning of the work area. Refer to Specification Divisions 0, 1 and 2 for specific information concerning disturbing, removing and disposing of lead materials and the installation of new materials or components. This notification is provided in accordance with the EPA and OSHA requirements.

1.02 SECTION INCLUDES

A. Wall mounted handrails.

B. Stair railings and guardrails.

1.03 RELATED REQUIREMENTS

A. Section 03 30 00 - Cast-in-Place Concrete: Placement of anchors in concrete.

B. Section 09 91 13 - Exterior Painting: Paint finish.

1.04 REFERENCE STANDARDS

A. ADA Standards - 2010 ADA Standards for Accessible Design; 2010.

B. AISC 201 - AISC Certification Program for Structural Steel Fabricators, Standard for Steel Building Structures; 2006.

C. ASTM A53/A53M - Standard Specification for Pipe, Steel, Black and Hot-Dipped, Zinc-Coated, Welded and Seamless; 2022.

D. ASTM A500/A500M - Standard Specification for Cold-Formed Welded and Seamless Carbon Steel Structural Tubing in Rounds and Shapes; 2021a.

E. ASTM E935 - Standard Test Methods for Performance of Permanent Metal Railing Systems and Rails for Buildings; 2021.

F. AWS A2.4 - Standard Symbols for Welding, Brazing, and Nondestructive Examination; 2020.

G. AWS B2.1/B2.1M - Specification for Welding Procedure and Performance Qualification; 2021.

H. AWS D1.1/D1.1M - Structural Welding Code - Steel; 2020, with Errata (2023).

I. AWS D1.6/D1.6M - Structural Welding Code - Stainless Steel; 2017, with Amendment (2021).

1.05 SUBMITTALS

A. Shop Drawings: Indicate profiles, sizes, connection attachments, anchorage, size and type of fasteners, and accessories.

1. Indicate welded connections using standard AWS A2.4 welding symbols. Indicate net weld lengths.

B. Welders' Qualification Statement: Welders' certificates in accordance with AWS B2.1/B2.1M and dated within the previous 12 months.

C. Designer's Qualification Statement.

D. Fabricator's Qualification Statement.

1.06 QUALITY ASSURANCE

A. Structural Designer Qualifications: Professional Structural Engineer experienced in design of this work and licensed in the State in which the Project is located, or personnel under direct supervision of such an engineer.

B. Welder Qualifications: Welding processes and welding operators qualified within previous 12 months.

C. Fabricator Qualifications:

1. A qualified steel fabricator that is certified by the American Institute for Steel Construction (AISC) under AISC 201.

PART 2. PRODUCTS

2.01 RAILINGS - GENERAL REQUIREMENTS

A. Design, fabricate, and test railing assemblies in accordance with the most stringent requirements of applicable local code.

B. Distributed Loads: Design railing assembly, wall rails, and attachments to resist distributed force of 75 pounds per linear foot (1095 N/m) applied to the top of the assembly and in any direction, without damage or permanent set. Test in accordance with ASTM E935

C. Concentrated Loads: Design railing assembly, wall rails, and attachments to resist a concentrated force of 200 pounds (890 N) applied at any point on the top of the assembly and in any direction, without damage or permanent set. Test in accordance with ASTM E935

D. Allow for expansion and contraction of members and building movement without damage to connections or members.

E. Dimensions: See drawings for configurations and heights.

1. Top Rails and Wall Rails: 1-1/4 inch diameter, round.
2. Intermediate Rails: 1-1/4 by 1 inch (32 by 25 mm) rectangular.
3. Posts: 1-1/2 inches (38 mm) diameter, round.

F. Provide anchors and other components as required to attach to structure, made of same materials as railing components unless otherwise indicated; where exposed fasteners are unavoidable provide flush countersunk fasteners.

1. For anchorage to concrete, provide inserts to be cast into concrete, for bolting anchors.

G. Provide welding fittings to join lengths, seal open ends, and conceal exposed mounting bolts and nuts, including but not limited to elbows, T-shapes, splice connectors, flanges, escutcheons, and wall brackets.

H. Welded and Brazed Joints: Make visible joints butt tight, flush, and hairline; use methods that avoid discoloration and damage of finish; grind smooth, polish, and restore to required finish.

1. Ease exposed edges to a small uniform radius.
2. Welded Joints:

a. Carbon Steel: Perform welding in accordance with AWS D1.1/D1.1M.
b. Stainless Steel: Perform welding in accordance with AWS D1.6/D1.6M.

2.02 STEEL RAILING SYSTEM

A. Steel Tube: ASTM A500/A500M Grade B cold-formed structural tubing.

B. Steel Pipe: ASTM A53/A53M Grade B Schedule 80, black finish.

C. Welding Fittings: Factory- or shop-welded from matching pipe or tube; seams continuously welded; joints and seams ground smooth.

2.03 FABRICATION

A. Accurately form components to suit specific project conditions and for proper connection to building structure.

B. Fit and shop assemble components in largest practical sizes for delivery to site.

C. Fabricate components with joints tightly fitted and secured. Provide spigots and sleeves to accommodate site assembly and installation.

D. Welded Joints:

1. Exterior Components: Continuously seal joined pieces by continuous welds. Drill condensate drainage holes at bottom of members at locations that will not encourage water intrusion.
2. Grind exposed joints flush and smooth with adjacent finish surface. Make exposed joints butt tight, flush, and hairline. Ease exposed edges to small uniform radius.

PART 3. EXECUTION

3.01 INSTALLATION

A. Install in accordance with manufacturer's instructions.

B. Install components plumb and level, accurately fitted, free from distortion or defects, with tight joints.

C. Install railings in compliance with ADA Standards for accessible design at applicable locations.

D. Anchor railings securely to structure.

E. Conceal anchor bolts and screws whenever possible. Where not concealed, use flush countersunk fastenings.

3.02 TOLERANCES

A. Maximum Variation From Plumb: 1/4 inch (6 mm) per floor level, non-cumulative.

B. Maximum Offset From True Alignment: 1/4 inch (6 mm).

C. Maximum Out-of-Position: 1/4 inch (6 mm).

END OF SECTION

ROUGH CARPENTRY

PART 1. GENERAL

1.01 NOTIFICATIONS OF POTENTIAL HAZARDS

A. Notification of Potential Hazards: Asbestos, lead and other potentially hazardous materials are present in the building that may impact the work of all trades. Regulated air contaminates, including asbestos and lead are also present in the settled and concealed dust in and on architectural, structural, mechanical, and electrical components and systems throughout the building. All trades shall coordinate with other trades and conduct their work to prevent worker exposure or site. Refer to Divisions 0, 1 and 2 for specific information concerning disturbing, removing, and disposing of these materials and the installation of new materials and components. This notification is provided in accordance with the EPA and OSHA requirements.

B. Notification of Child Occupied Facility: Portions of this building are classified as a Child Occupied Facility in accordance with 40 CFR 745 and lead-based paints may be present on components to be disturbed in those areas. Personnel performing work in these areas must comply with the requirements of 40 CFR 745, including training, work practices and cleaning of the work area. Refer to Specification Divisions 0, 1 and 2 for specific information concerning disturbing, removing and disposing of lead materials and the installation of new materials or components. This notification is provided in accordance with the EPA and OSHA requirements.

1.02 SECTION INCLUDES

A. Fire retardant treated wood materials.

B. Concealed wood blocking, nailers, and supports.

1.03 REFERENCE STANDARDS

A. ASTM A153/A153M - Standard Specification for Zinc Coating (Hot-Dip) on Iron and Steel Hardware; 2023.

B. ASTM D2898 - Standard Practice for Accelerated Weathering of Fire-Retardant-Treated Wood for Fire Testing; 2010 (Reapproved 2017).

C. ASTM E84 - Standard Test Method for Surface Burning Characteristics of Building Materials; 2023b.

D. AWPA U1 - Use Category System: User Specification for Treated Wood; 2023.

E. PS 20 - American Softwood Lumber Standard; 2021.

1.04 SUBMITTALS

A. Product Data: Provide technical data on fire treated lumber.

B. Manufacturer's Certificate: Certify that wood products supplied for rough carpentry meet or exceed specified requirements.

1.05 DELIVERY, STORAGE, AND HANDLING

A. General: Cover wood products to protect against moisture. Support stacked products to prevent deformation and to allow air circulation.

B. Fire Retardant Treated Wood: Prevent exposure to precipitation during shipping, storage, and installation.

PART 2. PRODUCTS

2.01 GENERAL REQUIREMENTS

A. Dimension Lumber: Comply with PS 20 and requirements of specified grading agencies.

1. If no species is specified, provide species graded by the agency specified; if no grading agency is specified, provide lumber graded by grading agency meeting the specified requirements.
2. Grading Agency: Grading agency whose rules are approved by the Board of Review, American Lumber Standard Committee at www.alsc.org, and who provides grading service for the species and grade specified; provide lumber stamped with grade mark unless otherwise indicated.

2.02 DIMENSION LUMBER FOR CONCEALED APPLICATIONS

A. Sizes: Nominal sizes as indicated on drawings, S4S.

B. Moisture Content: S-dry or MC19.

2.03 ACCESSORIES

A. Fasteners and Anchors:

1. Metal and Finish: Hot-dipped galvanized steel complying with ASTM A153/A153M for high humidity and preservative-treated wood locations, unfinished steel elsewhere.

2.04 FACTORY WOOD TREATMENT

A. Treated Lumber and Plywood: Comply with requirements of AWPA U1 - Use Category System for wood treatments determined by use categories, expected service conditions, and specific applications.

1. Fire-Retardant Treated Wood: Mark each piece of wood with producer's stamp indicating compliance with specified requirements.

B. Fire Retardant Treatment:

1. Exterior Type: AWPA U1, Category UCFB, Commodity Specification H, chemically treated and pressure impregnated; capable of providing a maximum flame spread index of 25 when tested in accordance with ASTM E84, with no evidence of significant combustion when test is extended for an additional 20 minutes both before and after accelerated weathering test performed in accordance with ASTM D2898.

a. Kiln dry wood after treatment to a maximum moisture content of 19 percent for lumber and 15 percent for plywood.
b. Do not use treated wood in direct contact with the ground.

PART 3. EXECUTION

3.01 INSTALLATION - GENERAL

A. Select material sizes to minimize waste.

B. Reuse scrap to the greatest extent possible; clearly separate scrap for use on site as accessory components, including: shims, bracing, and blocking.

3.02 BLOCKING, NAILERS, AND SUPPORTS

A. Provide framing and blocking members as indicated or as required to support finishes, fixtures, specialty items, and trim.

3.03 ROOF-RELATED CARPENTRY

A. Coordinate installation of roofing carpentry with roofing assembly installation.

END OF SECTION

SHEET WATERPROOFING

PART 1. GENERAL

1.01 NOTIFICATION OF POTENTIAL HAZARDS

A. Notification of Potential Hazards: Asbestos, lead and other potentially hazardous materials are present in the building that may impact the work of all trades. Regulated air contaminates, including asbestos and lead are also present in the settled and concealed dust in and on architectural, structural, mechanical, and electrical components and systems throughout the building. All trades shall coordinate with other trades and conduct their work to prevent worker exposure or site. Refer to Divisions 0, 1 and 2 for specific information concerning disturbing, removing, and disposing of these materials and the installation of new materials and components. This notification is provided in accordance with the EPA and OSHA requirements.

B. Notification of Child Occupied Facility: Portions of this building are classified as a Child Occupied Facility in accordance with 40 CFR 745 and lead-based paints may be present on components to be disturbed in those areas. Personnel performing work in these areas must comply with the requirements of 40 CFR 745, including training, work practices and cleaning of the work area. Refer to Specification Divisions 0. 1 and 2 for specific information concerning disturbing, removing and disposing of lead materials and the installation of new materials or components. This notification is provided in accordance with the EPA and OSHA requirements.

1.02 SECTION INCLUDES

A. Self-adhered waterproofing sheet membrane.

B. Drainage mat

1.03 RELATED REQUIREMENTS

A. Section 03 30 00 - Cast-in-Place Concrete: Concrete substrate.

1.04 REFERENCE STANDARDS

A. ASTM D412 - Standard Test Methods for Vulcanized Rubber and Thermoplastic Elastomers--Tension; 2016 (Reapproved 2021).

B. ASTM D1876 - Standard Test Method for Peel Resistance of Adhesives (T-Peel Test); 2008 (Reapproved 2023).

C. ASTM E96/E96M - Standard Test Methods for Gravimetric Determination of Water Vapor Transmission Rate of Materials; 2022a, with Editorial Revision (2023).

1.05 SUBMITTALS

A. See Section 01300 - Administrative Requirements for submittal procedures.

B. Product Data: Provide data for membrane and drainage mat.

C. Shop Drawings: Indicate special joint or termination conditions and conditions of interface with other materials.

1.06 FIELD CONDITIONS

A. Maintain ambient temperatures above 40 degrees F (5 degrees C) for 24 hours before and during application and until liquid or mastic accessories have cured.

PART 2. PRODUCTS

2.01 SHEET WATERPROOFING APPLICATIONS

A. At existing wall where new concrete abuts

2.02 SHEET WATERPROOFING MATERIALS

A. Rubberized asphalt/polyethylene membrane

1. Bituthene 3000 or approved Equal

B. Drainage Mat

1. GCP Hydroduct or approved Equal

C. Self-Adhered Rubberized Asphalt Sheet Membrane:

1. Thickness: 63 mil, 0.061 inch (1.6 mm), minimum.
2. Sheet Width: 3.28 feet (1 m), minimum.
3. Adhesives, Sealants, Tapes, and Accessories: As recommended by membrane manufacturer.

END OF SECTION

EXTERIOR INSULATION AND FINISH SYSTEMS

PART 1. GENERAL

1.01 NOTIFICATION OF POTENTIAL HAZARDS

A. Notification of Potential Hazards: Asbestos, lead and other potentially hazardous materials are present in the building that may impact the work of all trades. Regulated air contaminates, including asbestos and lead are also present in the settled and concealed dust in and on architectural, structural, mechanical, and electrical components and systems throughout the building. All trades shall coordinate with other trades and conduct their work to prevent worker exposure or site. Refer to Divisions 0, 1 and 2 for specific information concerning disturbing, removing, and disposing of these materials and the installation of new materials and components. This notification is provided in accordance with the EPA and OSHA requirements.

B. Notification of Child Occupied Facility: Portions of this building are classified as a Child Occupied Facility in accordance with 40 CFR 745 and lead-based paints may be present on components to be disturbed in those areas. Personnel performing work in these areas must comply with the requirements of 40 CFR 745, including training, work practices and cleaning of the work area. Refer to Specification Divisions 0, 1 and 2 for specific information concerning disturbing, removing and disposing of lead materials and the installation of new materials or components. This notification is provided in accordance with the EPA and OSHA requirements.

1.02 SECTION INCLUDES

A. Composite wall cladding of expanded polystyrene insulation board, reinforced base and finish coating, installed over a water-resistive barrier, applied to glass mat gypsum sheathing. Class PB.

B. Drainage and water-resistive barriers behind insulation board.

1.03 RELATED REQUIREMENTS

A. Section 07 62 00 - Sheet Metal Flashing and Trim: Perimeter flashings.

1.04 REFERENCE STANDARDS

A. ASTM B117 - Standard Practice for Operating Salt Spray (Fog) Apparatus; 2019.

B. ASTM C297/C297M - Standard Test Method for Flatwise Tensile Strength of Sandwich Constructions; 2016.

C. ASTM C578 - Standard Specification for Rigid, Cellular Polystyrene Thermal Insulation; 2022.

D. ASTM C1177/C1177M - Standard Specification for Glass Mat Gypsum Substrate for Use as Sheathing; 2017.

E. ASTM C1397 - Standard Practice for Application of Class PB Exterior Insulation and Finish Systems (EIFS) and EIFS with Drainage; 2013 (Reapproved 2019).

F. ASTM D968 - Standard Test Methods for Abrasion Resistance of Organic Coatings by Falling Abrasive; 2022.

G. ASTM D2247 - Standard Practice for Testing Water Resistance of Coatings in 100 % Relative Humidity; 2015 (Reapproved 2020).

H. ASTM D3273 - Standard Test Method for Resistance to Growth of Mold on the Surface of Interior Coatings in an Environmental Chamber; 2021.

I. ASTM E84 - Standard Test Method for Surface Burning Characteristics of Building Materials; 2023b.

J. ASTM E331 - Standard Test Method for Water Penetration of Exterior Windows, Skylights, Doors, and Curtain Walls by Uniform Static Air Pressure Difference; 2000 (Reapproved 2023).

K. ASTM E2273 - Standard Test Method for Determining the Drainage Efficiency of Exterior Insulation and Finish Systems (EIFS) Clad Wall Assemblies; 2018.

L. ASTM E2486/E2486M - Standard Test Method for Impact Resistance of Class PB and PI Exterior Insulation and Finish Systems (EIFS); 2022.

M. ASTM G153 - Standard Practice for Operating Enclosed Carbon Arc Light Apparatus for Exposure of Nonmetallic Materials; 2013 (Reapproved 2021).

N. ASTM G155 - Standard Practice for Operating Xenon Arc Lamp Apparatus for Exposure of Materials; 2021.

O. ICC-ES AC219 - Acceptance Criteria for Exterior Insulation and Finish Systems; 2009, with Editorial Revision (2022).

P. ICC-ES AC235 - Acceptance Criteria for EIFS Clad Drainage Wall Assemblies; 2015, with Editorial Revision (2022).

Q. ISO 9001 - Quality Management Systems — Requirements; 2015.

R. NFPA 259 - Standard Test Method for Potential Heat of Building Materials; 2023, with Errata.

S. NFPA 268 - Standard Test Method for Determining Ignitability of Exterior Wall Assemblies Using a Radiant Heat Energy Source; 2022.

T. NFPA 285 - Standard Fire Test Method for Evaluation of Fire Propagation Characteristics of Exterior Wall Assemblies Containing Combustible Components; 2023.

1.05 SUBMITTALS

A. Product Data: Provide data on system materials, product characteristics, performance criteria, and system limitations.

B. Shop Drawings: Indicate wall joint patterns, joint details, and molding profiles.

C. Selection Samples: Submit manufacturer's standard range of samples illustrating available coating colors and textures.

D. Manufacturer's Installation Instructions: Indicate preparation required, installation techniques, and jointing requirements.

E. Installer's qualification statement.

1.06 QUALITY ASSURANCE

A. Maintain copy of specified installation standard and manufacturer's installation instructions at project site during installation.

B. EIFS Manufacturer Qualifications: Provide EIFS products other than insulation from the same manufacturer with qualifications as follows:

1. Manufacturing facilities ISO 9001 certified.

C. Insulation Manufacturer Qualifications: Approved by manufacturer of EIFS and approved and labeled under third party quality program as required by applicable building code.

D. Installer Qualifications: Company specializing in the type of work specified and with at least three years of documented experience.

1.07 MOCK-UPS

A. Construct mock-up of typical EIFS application on specified substrate, size as required to include examples of all key conditions, and including flashings, joints, and edge conditions.

B. Locate mock-up at approved location convenient for comparison to finished work.

1.08 DELIVERY, STORAGE, AND HANDLING

A. Delivery: Deliver materials to project site in manufacturer's original, unopened containers with labels intact. Inspect materials and notify manufacturer of any discrepancies.

B. Storage: Store materials as directed by manufacturer's written instructions.

1.09 FIELD CONDITIONS

A. Do not prepare materials or apply EIFS under conditions other than those described in the manufacturer's written instructions.

B. Do not prepare materials or apply EIFS during inclement weather unless areas of installation are protected. Protect installed EIFS areas from inclement weather until dry.

C. Do not install coatings or sealants when ambient temperature is below 40 degrees F (5 degrees C).

D. Do not leave installed insulation board exposed to sunlight for extended periods of time.

1.10 WARRANTY

A. See Section 01700 - Closeout Submittals for additional warranty requirements.

B. Provide manufacturer's standard material warranty, covering a period of not less than 5 years.

C. Provide separate warranty from installer covering labor for repairs or replacement for a period of not less than 5 years.

PART 2. PRODUCTS

2.01 EXTERIOR INSULATION AND FINISH SYSTEM

A. Exterior Insulation and Finish System: DRAINAGE type; reinforced finish coating on insulation board with drainage grooves adhesive-applied to water-resistive coating over substrate; provide a complete system that has been tested to show compliance with the following characteristics; include all components of specified system and substrate(s) in tested samples.

B. Allowable Wind Loading: As indicated on Structural Drawings.

C. Fire Characteristics:

1. Flammability: Pass, when tested in accordance with NFPA 285.
2. Ignitibility: No sustained flaming when tested in accordance with NFPA 268.
3. Fire Resistance: Complies with fire resistance requirements indicated on the drawings as part of an exterior non-load-bearing exterior wall assembly when tested in accordance with NFPA 285.
4. Potential Heat of Foam Plastic Insulation Tested Independently of Assembly: No portion of the assembly having potential heat that exceeds that of the insulation sample tested for flammability (above), when tested in accordance with NFPA 259 with results expressed in Btu per square foot (mJ/sq m).

D. Adhesion of Water-Resistive Coating to Substrate: For each combination of coating and substrate, minimum flatwise tensile bond strength of 15 psi (105 kPa), when tested in accordance with ASTM C297/C297M.

E. Adhesion to Water-Resistive Coating: For each combination of insulation board and substrate, when tested in accordance with ASTM C297/C297M, maximum adhesive failure of 25 percent unless flatwise tensile bond strength exceeds 15 psi (105 kPa) in all samples.

F. Water Penetration Resistance: No water penetration beyond the plane of the base coat/insulation board interface after 15 minutes, when tested in accordance with ASTM E331 at 6.24 psf (299 Pa) differential pressure with tracer dye in the water spray; include in tested sample at least two vertical joints and one horizontal joint of same type to be used in construction; disassemble sample if necessary to determine extent of water penetration.

G. Drainage Efficiency: Average minimum efficiency of 90 percent, when tested in accordance with ASTM E2273 for 75 minutes.

H. Salt Spray Resistance: No cracking, checking, crazing, erosion, blistering, peeling, delamination, or corrosion of finish coating after 300 hours exposure in accordance with ASTM B117, using at least three samples matching intended assembly, at least 4 by 6 inches (100 by 150 mm) in size.

I. Freeze-Thaw Resistance: No cracking, checking, crazing, erosion, blistering, peeling, delamination, or corrosion of finish coating when viewed under 5x magnification after 10 cycles, when tested in accordance with ICC-ES AC219 or ICC-ES AC235.

J. Weathering Resistance: No cracking, checking, crazing, erosion, blistering, peeling, delamination, or corrosion of finish coating when viewed under 5x magnification after 2000 hours of accelerated weathering conducted in accordance with ASTM G153 Cycle 1 or ASTM G155 Cycles 1, 5, or 9.

K. Water Degradation Resistance: No cracking, checking, crazing, erosion, blistering, peeling, delamination, or corrosion of finish coating after 14 days exposure, when tested in accordance with ASTM D2247.

L. Mildew Resistance: No growth supported on finish coating during 28 day exposure period, when tested in accordance with ASTM D3273.

M. Abrasion Resistance Of Finish: No cracking, checking or loss of film integrity when tested in accordance with ASTM D968 with 113.5 gallons (500 liters) of sand.

N. Impact Resistance: Construct system to provide the following impact resistance without exposure of broken reinforcing mesh, when tested in accordance with ASTM E2486/E2486M:

1. Standard: 25 to 49 in-lb (2.83 to 5.54 J), for areas not indicated as requiring higher impact resistance.
2. High: 90 to 150 in-lb (10.2 to 17 J), for areas indicated on the drawings.

2.02 MATERIALS

A. Finish Coating Top Coat: Water-based, air curing, polymer-based finish with integral color and texture.

1. Texture: Match exisitng building EIFS finish.

B. Base Coat: Fiber-reinforced, acrylic or polymer-based product compatible with insulation board and reinforcing mesh, Class PB.

C. Reinforcing Mesh: Balanced, open weave glass fiber fabric, treated for compatibility and improved bond with coating, weight, strength, and number of layers as required to meet required system impact rating.

D. Expanded Polystyrene (EPS) Board Insulation: Complies with ASTM C578.

1. Grooved Board: Back side of board adjacent to sheathing grooved with vertical channels designed to allow moisture to drain; at drainage points provide board configuration that permits drainage to the exterior.
2. Board Size: 24 by 48 inches (610 by 1220 mm).
3. Board Size Tolerance: Plus/minus 1/16 inch (1.5 mm) from square and dimension.
4. Board Thickness 1 inch.
5. Type and Compressive Resistance: Type I, 10 psi (69 kPa), minimum.
6. Surface Burning Characteristics: Flame spread/Smoke developed index of 25/450, when tested in accordance with ASTM E84.

E. Glass Mat Gypsum Sheathing: Glass mat gypsum substrate used as sheathing; ASTM C1177/C1177M; square edges.

1. Mold Resistance: Rating of 10, when tested in accordance with ASTM D3273.
2. Type X: 5/8 inch (15.9 mm) thick.

F. Water-Resistive Barrier Coating: Fluid-applied air and water barrier membrane; applied to sheathing; furnished or approved by EIFS manufacturer.

2.03 ACCESSORIES

A. Insulation Adhesive: Type required by EIFS manufacturer for project substrate.

B. Metal Flashings: See Section 07 62 00.

C. Trim: EIFS manufacturer's standard PVC or galvanized steel trim accessories, as required for a complete project and including starter track and drainage accessories.

D. Sealant Materials: Compatible with EIFS materials and as recommended by EIFS manufacturer.

PART 3. EXECUTION

3.01 EXAMINATION

A. Verify that substrate is sound and free of oil, dirt, other surface contaminants, efflorescence, loose materials, or protrusions that could interfere with EIFS installation and is of a type and construction that is acceptable to EIFS manufacturer. Do not begin work until substrate and adjacent materials are complete and thoroughly dry.

B. Verify that substrate surface is flat, with no deviation greater than 1/4 in (6 mm) when tested with a 10 ft (3 m) straightedge.

3.02 PREPARATION

A. Apply primer to substrate as recommended by EIFS manufacturer for project conditions.

3.03 INSTALLATION - GENERAL

A. Install in accordance with EIFS manufacturer's instructions and ASTM C1397.

1. Where different requirements appear in either document, comply with the most stringent.
2. Neither of these documents supercedes provisions of Contract Documents that defines contractual relationships between parties or scope of this work.

3.04 INSTALLATION - WATER-RESISTIVE BARRIER

A. Apply barrier coating as recommended by coating manufacturer; prime substrate as required before application.

B. Seal substrate transitions and intersections with other materials to form continuous water-resistive barrier on exterior of sheathing, using method recommended by manufacturer.

C. At door and window rough openings and other wall penetrations, seal water-resistive barrier and flexible flashings to rough opening before installation of metal flashings, sills, or frames, using method recommended by manufacturer.

D. Lap flexible flashing or flashing tape at least 2 inches (50 mm) on each side of joint or transition.

3.05 INSTALLATION - INSULATION

A. Install in accordance with manufacturer's instructions.

B. Install back wrap reinforcing mesh at all openings and terminations that are not to be protected with trim.

C. On wall surfaces, install boards horizontally.

D. Place boards in a method to maximize tight joints. Stagger vertical joints and interlock at corners. Butt edges and ends tight to adjacent board and to protrusions. Achieve a continuous flush insulation surface, with no gaps in excess of 1/16 inch (1.6 mm).

E. Fill gaps greater than 1/16 inch (1.6 mm) with strips or shims cut from the same insulation material.

F. Rasp irregularities off surface of installed insulation board.

G. Adhesive Attachment: Use method recommended by EIFS manufacturer.

3.06 INSTALLATION - CLASS PB FINISH

A. Base Coat: Apply in thickness as necessary to fully embed reinforcing mesh, wrinkle free, including back-wrap at terminations of EIFS. Install reinforcing fabric as recommended by EIFS manufacturer.

1. Lap reinforcing mesh edges and ends as indicated on Drawings.
2. Allow base coat to dry a minimum of 24 hours before next coating application.

B. At areas subject to abuse, install second layer of reinforcing mesh embedded in second coat of base coating, tightly butting ends and edges of mesh.

C. Install expansion joints at floor lines as recommended by EIFS manufacturer.

D. Apply finish coat after base coat has dried not less than 24 hours, embed finish aggregate, and finish to a uniform texture and color.

E. Finish Coat Thickness: As recommended by manufacturer.

F. Seal control and expansion joints within the field of exterior finish and insulation system, using procedures recommended by sealant and finish system manufacturers.

3.07 CLEANING

A. Clean EIFS surfaces and work areas of foreign materials resulting from EIFS operations.

3.08 PROTECTION

A. Protect completed work from damage and soiling by subsequent work.

END OF SECTION

FIBER-CEMENT SIDING

PART 1. GENERAL

1.01 NOTIFICATIONS OF POTENTIAL HAZARDS

A. Notification of Potential Hazards: Asbestos, lead and other potentially hazardous materials are present in the building that may impact the work of all trades. Regulated air contaminates, including asbestos and lead are also present in the settled and concealed dust in and on architectural, structural, mechanical, and electrical components and systems throughout the building. All trades shall coordinate with other trades and conduct their work to prevent worker exposure or site. Refer to Divisions 0, 1 and 2 for specific information concerning disturbing, removing, and disposing of these materials and the installation of new materials and components. This notification is provided in accordance with the EPA and OSHA requirements.

B. Notification of Child Occupied Facility: Portions of this building are classified as a Child Occupied Facility in accordance with 40 CFR 745 and lead-based paints may be present on components to be disturbed in those areas. Personnel performing work in these areas must comply with the requirements of 40 CFR 745, including training, work practices and cleaning of the work area. Refer to Specification Divisions 0, 1 and 2 for specific information concerning disturbing, removing and disposing of lead materials and the installation of new materials or components. This notification is provided in accordance with the EPA and OSHA requirements.

1.02 SECTION INCLUDES

A. Fiber-cement siding.

1.03 RELATED REQUIREMENTS

A. Section 09 91 13 - Exterior Painting: Field painting.

1.04 REFERENCE STANDARDS

A. ASTM C1186 - Standard Specification for Flat Fiber-Cement Sheets; 2022, with Editorial Revision (2023).

1.05 SUBMITTALS

A. Product Data: Submit manufacturer's data sheets on each product to be used, including:

1. Manufacturer's requirements for related materials to be installed by others.
2. Preparation instructions and recommendations.
3. Storage and handling requirements and recommendations.
4. Installation methods, including nail patterns.

B. Shop Drawings: Indicate dimensions, layout, joints, construction details, and methods of anchorage.

PART 2. PRODUCTS

2.01 FIBER-CEMENT SIDING

A. Panel Siding: Vertically oriented panels made of cement and cellulose fiber formed under high pressure with integral surface texture, complying with ASTM C1186, Type A, Grade II; with machined edges, for nail attachment.

1. Texture: Stucco patterned.
2. Length (Height): 96 inches (2400 mm), nominal.
3. Width: 48 inches (1220 mm).

4. Thickness: 5/16 inch (8 mm), nominal.
5. Finish: Factory applied primer.
6. Warranty: 50 year limited; transferable.

2.02 ACCESSORIES

A. Trim: Same material and texture as siding.

B. Fasteners: Galvanized or corrosion resistant; length as required to penetrate, 1-1/4 inches (31.8 mm), minimum.

C. Sealant: Elastomeric, polyurethane or silyl-terminated polyether/polyurethane, and capable of being painted.

PART 3. EXECUTION

3.01 INSTALLATION

A. Install in accordance with manufacturer's instructions and recommendations.

1. Read warranty and comply with terms necessary to maintain warranty coverage.
2. Use trim details as indicated on drawings.
3. Touch up field cut edges before installing.
4. Pre-drill nail holes if necessary to prevent breakage.

B. Joints in Vertical Siding: Install Z-flashing in horizontal joints between successive courses of vertical siding.

C. Do not install siding less than 6 inches (152 mm) from ground surface, or closer than 1 inch (25.4 mm) to roofs, patios, porches, and other surfaces where water may collect.

D. After installation, seal joints except lap joints of lap siding; seal around penetrations, and paint exposed cut edges.

E. Finish Painting: Within one week after installation, paint siding and trim with one coat primer and two coats finish paint.

3.02 PROTECTION

A. Protect installed products until Date of Substantial Completion.

B. Touch-up, repair or replace damaged products before Date of Substantial Completion.

END OF SECTION

EPDM ROOFING SYSTEM

PART 1. GENERAL

1.01 NOTIFICATIONS OF POTENTIAL HAZARDS

A. Notification of Potential Hazards: Asbestos, lead and other potentially hazardous materials are present in the building that may impact the work of all trades. Regulated air contaminates, including asbestos and lead are also present in the settled and concealed dust in and on architectural, structural, mechanical, and electrical components and systems throughout the building. All trades shall coordinate with other trades and conduct their work to prevent worker exposure or site. Refer to Divisions 0, 1 and 2 for specific information concerning disturbing, removing, and disposing of these materials and the installation of new materials and components. This notification is provided in accordance with the EPA and OSHA requirements.

B. Notification of Child Occupied Facility: Portions of this building are classified as a Child Occupied Facility in accordance with 40 CFR 745 and lead-based paints may be present on components to be disturbed in those areas. Personnel performing work in these areas must comply with the requirements of 40 CFR 745, including training, work practices and cleaning of the work area. Refer to Specification Divisions 0. 1 and 2 for specific information concerning disturbing, removing and disposing of lead materials and the installation of new materials or components. This notification is provided in accordance with the EPA and OSHA requirements.

1.02 SECTION INCLUDES

A. Adhered roof system with ethylene propylene diene monomer (EPDM) roofing membrane.

B. Bio-based polyurethane top coat.

C. Insulation, tapered.

D. Deck and parrapet sheathing.

E. Roofing stack boots.

1.03 RELATED REQUIREMENTS

A. Section 05 31 00 - Steel Decking.

B. Section 07 62 00 - Sheet Metal Flashing and Trim: Counterflashing and reglets.

C. Section 07 71 00-Roof Specialties

D. REFERENCE STANDARDS

E. ASCE 7 - Minimum Design Loads and Associated Criteria for Buildings and Other Structures; Most Recent Edition Cited by Referring Code or Reference Standard.

F. ASTM C578 - Standard Specification for Rigid, Cellular Polystyrene Thermal Insulation; 2022.

G. ASTM C1177/C1177M - Standard Specification for Glass Mat Gypsum Substrate for Use as Sheathing; 2017.

H. ASTM D4637/D4637M - Standard Specification for EPDM Sheet Used in Single-Ply Roof Membrane; 2015, with Editorial Revision (2022).

I. FM DS 1-28 - Wind Design; 2015, with Editorial Revision (2022).

J. NRCA (RM) - The NRCA Roofing Manual; 2024.

K. NRCA (WM) - The NRCA Waterproofing Manual; 2021.

L. UL 790 - Standard for Standard Test Methods for Fire Tests of Roof Coverings; Current Edition, Including All Revisions.

1.04 ADMINISTRATIVE REQUIREMENTS

A. Preinstallation Meeting: Convene one week before starting work of this section.

1. Review preparation and installation procedures and coordinating and scheduling required with related work.

1.05 SUBMITTALS

A. Product Data: Provide manufacturer's written information listed below.

1. Product data indicating membrane materials, top coat, flashing materials, insulation, and fasteners.

B. Shop Drawings: Indicate joint or termination detail conditions, conditions of interface with other materials, setting plan for tapered insulation, and mechanical fastener layout.

C. Manufacturer's Certificate: Certify that products meet or exceed specified requirements. Include current written certification by independent third-party control test or U.L. to verify insulation quality control.

D. Manufacturer's Field Reports: Indicate procedures followed, ambient temperatures, humidity, wind velocity during application, and other supplementary instructions.

E. Manufacturer's Installation Instructions: Indicate membrane seaming precautions, finish coating installation, and perimeter conditions requiring special attention.

F. Warranty:

1. Submit manufacturer warranty and ensure that forms have been completed in Owner's name and registered with manufacturer.
2. Submit installer's certification that installation complies with all warranty conditions for the waterproof membrane.

G. Manufacturer's Qualification Statement.

H. Installer's Qualification Statement.

I. Include roofing warranty documents in the Operations and Maintenance Manual submittal.

1.06 QUALITY ASSURANCE

A. Manufacturer Qualifications: Company specializing in manufacturing the products specified in this section with minimum twenty (25) years of documented experience. Manufacturer shall be listed in FM Global RoofNav standards for roofing system indicated.

B. Materials: Provide primary products of each type required from a single manufacturer to the greatest extent possible. Provide secondary materials only as recommended by the manufacturer of primary materials.

C. Installation: Perform work in accordance with the National Roofing Contractors Association (NRCA) Roofing and Waterproofing Manual.

D. Installer Qualifications: Company specializing in performing work of this section:

1. With minimum five years documented experience in similar systems, installed in the State of Alaska.

2. Approved by membrane and insulation manufacturer for similar roof system installations in the State of Alaska.
3. Approved by topcoat manufacturer for application of products specified.

1.07 DELIVERY, STORAGE, AND HANDLING

A. Deliver products in manufacturer's original containers, dry, undamaged, with seals and labels intact.

B. Protect products in weather protected environment, clear of ground and moisture.

C. Protect foam insulation from direct exposure to sunlight.

D. Keep Safety Data Sheets (SDS) at the project site at all times during transportation, storage, and installation of materials.

E. Comply with requirements from Owner to prevent overloading or disturbance of the structure when loading materials onto the roof.

1.08 FIELD CONDITIONS

A. Do not apply roofing membrane during unsuitable weather. Refer to manufacturer's written instructions.

B. Do not apply roofing membrane when ambient temperature is below 40 degrees F (5 degrees C).

C. Do not apply roofing membrane to damp or frozen deck surface or when precipitation is expected or occurring.

D. Do not expose materials vulnerable to water or sun damage in quantities greater than can be weatherproofed the same day.

E. Proceed with work so new roofing materials are not subject to construction traffic as work progresses.

F. Do not allow grease, oil, fats, or other contaminants to come into direct contact with membrane.

1.09 WARRANTY

A. See Section 01700 - Closeout Submittals for additional warranty requirements.

B. Installer Warranty: Provide installer's warranty agreeing to replace material that shows defects in workmanship within 2 years after installation.

C. System Warranty: Provide manufacturer's system warranty agreeing to repair or replace roofing (including, but not limited to, the roof and parapet) assembly that leaks or is damaged due to wind or other natural causes.

1. Warranty Term: 30 years.
2. Warranty shall include top coat wear layer system and roofing membrane as one roof system.
3. For repair and replacement include costs of both material and labor in warranty.
4. Exceptions NOT Permitted:

a. Damage due to roof traffic.
b. Damage due to wind of speed greater than 56 mph (90 km/h) but less than 90 mph (145 km/h).

PART 2. PRODUCTS

2.01 MANUFACTURERS

A. Subject to compliance with requirements, available manufacturers that may be incorporated into the Work include:

1. Carlisle SynTec Systems: www.carlisle-syntec.com/#sle.
2. Holcim Elevate (previously Firestone): www.holcimelevate.com
3. Tremco CPG Inc.: www.tremcoroofing.com

2.02 ROOFING APPLICATIONS

A. EPDM Membrane Roofing: One ply membrane, glass mat sheathing cover board, over insulation.

B. Roofing Assembly Performance Requirements and Design Criteria:

1. Roof Covering External Fire Resistance Classification: Class A when tested per UL 790.

2. Wind Uplift:

a. Designed to withstand wind uplift forces calculated with ASCE 7.
b. Design Wind Speed: As indicated on Structural Drawings.

2.03 ROOFING MEMBRANE AND ASSOCIATED MATERIALS

A. Bio-Based Polyurethane Top Coat: Bio High Performance, Two-Component, Bio-Based Polyurethane Top Coat Wear Layer System

1. Provide fully reinforced application to include Bio Base Coat with fully imbedded Glass Mat reinforcement and Bio Top Coat.
2. Application Rate: In accordance with manufacturer's written instructions.
3. Color: Grey
4. Basis of Design: Tremco; AlphaGuard or Approved Equal

B. Membrane:

1. Material: Ethylene propylene diene monomer (EPDM); ASTM D4637/D4637M, Type I (non-reinforced), talc-free.
2. Thickness: 60 mil, 0.060 inch (1.5 mm), minimum.
3. Sheet Width: Factory fabricated into largest sheets possible.
4. Color: Black.

C. Seaming Materials: As recommended by membrane manufacturer.

D. Flexible Flashing Material: Same material as membrane.

E. Base Flashing: Provide waterproof, fully adhered base flashing system at all penetrations, plane transitions, and terminations.

2.04 SHEATHING AND COVER BOARDS

A. Deck and Parapet Sheathing, and Cover Board: Glass mat faced gypsum panels, ASTM C1177/C1177M, fire resistant type, 5/8 inch (16 mm) thick.

2.05 INSULATION

A. Expanded Polystyrene (EPS) Board Insulation: Complies with ASTM C578.

1. Tapered Board: Slope as indicated; minimum thickness 1/2 inch (13 mm); fabricate of fewest layers possible.
2. Type and Compressive Resistance: Type IX, 25 psi (173 kpa), minimum.

2.06 ACCESSORIES

A. Prefabricated Flashing Accessories:

1. Corners and Seams: Same material as membrane, in manufacturer's standard thicknesses.
2. Penetrations: Same material as membrane, with manufacturer's standard cut-outs, rigid inserts, clamping rings, and flanges.
3. Sealant Pockets: Same material as membrane, with manufacturer's standard accessories, in manufacturer's standard configuration.
4. Pressure-Sensitive Reinforced Universal Securement Strip (RUSS):

B. Insulation Adhesive: Two component polyurethane, expanding foam.

C. Fasteners: Appropriate for purpose intended and approved by roofing manufacturer.

1. Length as required for thickness of deck substrate, with metal washers.

D. Surface Conditioner for Adhesives: Compatible with membrane and adhesives.

E. Strip Reglet Devices: Galvanized steel, maximum possible lengths per location, with attachment flanges.

F. Sealants: As recommended by membrane manufacturer.

G. Cleaner: Manufacturer's standard, clear, solvent-based cleaner.

H. Primer: Manufacturer's recommended product.

I. Edgings and Terminations: Manufacturer's standard edge and termination accessories.

PART 3. EXECUTION

3.01 EXAMINATION

A. Verify that surfaces and site conditions are ready to receive work.

B. Verify deck is supported and secure.

C. Verify deck is clean and smooth, flat, free of depressions, waves, or projections, properly sloped and suitable for installation of roof system.

D. Verify deck surfaces are dry and free of snow or ice.

E. Verify that roof openings, curbs, and penetrations through roof are solidly set, and cant strips are in place.

3.02 PREPARATION, GENERAL

A. Clean substrate thoroughly prior to roof application.

B. Apply manufacturer's recommended vapor retarder or temporary roof before roof installation.

3.03 METAL DECK PREPARATION

A. Install deck sheathing on metal deck:

1. Lay with long side at right angle to flutes; stagger end joints; provide support at ends.
2. Cut sheathing cleanly and accurately at roof breaks and protrusions to provide smooth surface.
3. Tape joints.

B. Mechanically fasten sheathing to roof deck, in accordance with Factory Mutual FM DS 1-28 recommendations and roofing manufacturer's instructions.

1. Over entire roof area, fasten sheathing using six fasteners with washers per sheathing board.

3.04 INSTALLATION - GENERAL

A. Perform work in accordance with manufacturer's instructions, NRCA (RM) applicable requirements, and NRCA (WM) applicable requirements.

B. Do not apply roofing membrane or top coat during unsuitable weather.

C. Do not apply roofing membrane or top coat when ambient temperature is outside the temperature range recommended by manufacturer.

D. Do not apply roofing membrane to damp or frozen deck surface or when precipitation is expected or occurring.

E. Do not expose materials vulnerable to water or sun damage in quantities greater than can be weatherproofed the same day.

F. Coordinate the work with installation of associated counterflashings installed by other sections as the work of this section proceeds.

3.05 INSULATION APPLICATION

A. Attachment of Cover Board: Mechanically fasten cover board to metal deck in accordance with applicable requirements of membrane manufacturer.

B. Attachment of Insulation: Embed insulation in adhesive in full contact, in accordance with roofing and insulation manufacturer's instructions.

C. Lay subsequent layers of insulation with joints staggered minimum 6 inches (152 mm) from joints of preceding layer.

D. Lay boards with edges in moderate contact without forcing, and gap between boards no greater than 1/4 inch (6.4 mm). Cut insulation to fit neatly to perimeter blocking and around penetrations through roof.

E. At roof drains, use factory-tapered boards to slope down to roof drains over 18 inches (457 mm).

F. Do not apply more insulation than can be completely waterproofed in the same day.

3.06 MEMBRANE APPLICATION

A. Roll out membrane, free from wrinkles or tears. Place sheet into place without stretching.

B. Shingle joints on sloped substrate in direction of drainage.

C. Overlap edges and ends and seal seams by contact adhesive, minimum 3 inches (76 mm). Seal permanently waterproof.

D. At intersections with vertical surfaces:

1. Extend membrane over cant strips and up over parapet cap as indicated on Drawings.

E. Coordinate installation of roof drains and sumps and related flashings, locate field splices away from low areas and roof drains, and lap upslope sheet over downslope sheet.

F. Daily Seal: Install daily seal per manufacturer's instructions at the end of each workday. Prevent infiltration of water at incomplete flashings, terminations, and at unfinished membrane edges.

3.07 TOP COAT INSTALLATION

A. Install top coat in accordance with manufacturer's approved application method and detail guidelines.

B. Comply with manufacturer's recommended application rate. Use wet mil gauges during applications to monitor application rate to ensure compliance.

C. Fully Reinforced Application:

3.08 FIELD QUALITY CONTROL

A. Require site attendance of roofing and insulation material manufacturers daily during installation of this work.

B. Require site attendance of roofing topcoat material manufacturer representative during all topcoat system installation work.

3.09 CLEANING

A. Remove wrappings, empty containers, paper, and other debris from the roof daily. Dispose of debris in compliance with local, State, and Federal regulations.

B. Remove bituminous markings from finished surfaces.

C. In areas where finished surfaces are soiled by work of this section, consult manufacturer of surfaces for cleaning advice and conform to their documented instructions.

D. Repair or replace defaced or damaged finishes caused by work of this section.

3.10 PROTECTION

A. Protect installed roofing and flashings from construction operations.

B. Where traffic must continue over finished roof membrane, protect surfaces using durable materials.

END OF SECTION

SHEET METAL FLASHING AND TRIM

PART 1. GENERAL

1.01 NOTIFICATIONS OF POTENTIAL HAZARDS

A. Notification of Potential Hazards: Asbestos, lead and other potentially hazardous materials are present in the building that may impact the work of all trades. Regulated air contaminates, including asbestos and lead are also present in the settled and concealed dust in and on architectural, structural, mechanical, and electrical components and systems throughout the building. All trades shall coordinate with other trades and conduct their work to prevent worker exposure or site. Refer to Divisions 0, 1 and 2 for specific information concerning disturbing, removing, and disposing of these materials and the installation of new materials and components. This notification is provided in accordance with the EPA and OSHA requirements.

B. Notification of Child Occupied Facility: Portions of this building are classified as a Child Occupied Facility in accordance with 40 CFR 745 and lead-based paints may be present on components to be disturbed in those areas. Personnel performing work in these areas must comply with the requirements of 40 CFR 745, including training, work practices and cleaning of the work area. Refer to Specification Divisions 0, 1 and 2 for specific information concerning disturbing, removing and disposing of lead materials and the installation of new materials or components. This notification is provided in accordance with the EPA and OSHA requirements.

1.02 SECTION INCLUDES

A. Fabricated sheet metal items, including flashings, counterflashings, exterior penetrations, and other items indicated in Schedule.

B. Sealants for joints within sheet metal fabrications.

1.03 RELATED REQUIREMENTS

A. Section 07 71 00-Roof Specialties, Roof Edge Flashings, Roof Expansion Joint Cover.

1.04 REFERENCE STANDARDS

A. AAMA 2605 - Voluntary Specification, Performance Requirements and Test Procedures for Superior Performing Organic Coatings on Aluminum Extrusions and Panels (with Coil Coating Appendix); 2022.

B. ASTM A653/A653M - Standard Specification for Steel Sheet, Zinc-Coated (Galvanized) or Zinc-Iron Alloy-Coated (Galvannealed) by the Hot-Dip Process; 2023.

C. ASTM B32 - Standard Specification for Solder Metal; 2020.

D. ASTM C920 - Standard Specification for Elastomeric Joint Sealants; 2018.

E. ASTM D226/D226M - Standard Specification for Asphalt-Saturated Organic Felt Used in Roofing and Waterproofing; 2017 (Reapproved 2023).

F. ASTM D4586/D4586M - Standard Specification for Asphalt Roof Cement, Asbestos-Free; 2007 (Reapproved 2018).

G. SMACNA (ASMM) - Architectural Sheet Metal Manual; 2012.

1.05 SUBMITTALS

A. Shop Drawings: Indicate material profile, jointing pattern, jointing details, fastening methods, flashings, terminations, and installation details.

B. Samples: Submit two samples, 4 inches by 4 in in size, illustrating metal finish color.

1.06 QUALITY ASSURANCE

A. Perform work in accordance with SMACNA (ASMM) requirements and standard details, except as otherwise indicated.

B. Maintain one copy of document on site.

C. Fabricator and Installer Qualifications: Company specializing in sheet metal work with 5 years of experience.

1.07 DELIVERY, STORAGE, AND HANDLING

A. Stack material to prevent twisting, bending, and abrasion, and to provide ventilation. Slope metal sheets to ensure drainage.

B. Prevent contact with materials that could cause discoloration or staining.

PART 2. PRODUCTS

2.01 SHEET MATERIALS

A. Galvanized Steel: ASTM A653/A653M, with G90/Z275 zinc coating; minimum thickness indicated in Schedule or Drawings, base metal.

B. Pre-Finished Galvanized Steel: ASTM A653/A653M, with G90/Z275 zinc coating; minimum thickness indicated in Schedule or Drawings, base metal, shop pre-coated with PVDF coating.

1. Polyvinylidene Fluoride (PVDF) Coating: Superior performing organic powder coating, AAMA 2605; multiple coat, thermally cured fluoropolymer finish system.
2. Color: As selected by Architect from manufacturer's full colors.

2.02 FABRICATION

A. Form sections true to shape, accurate in size, square, and free from distortion or defects.

B. Form pieces in longest possible lengths.

C. Hem exposed edges on underside 1/2 inch (13 mm); miter and seam corners.

D. Form material with flat lock seams, except where otherwise indicated; at moving joints, use sealed lapped, bayonet-type or interlocking hooked seams.

E. Fabricate corners from one piece with minimum 18-inch (450 mm) long legs; seam for rigidity, seal with sealant.

2.03 EXTERIOR PENETRATION FLASHING PANELS

A. Flashing Panels for Exterior Wall Penetrations: Premanufactured components and accessories as required to preserve integrity of building envelope; suitable for conduits and facade materials to be installed.

2.04 ACCESSORIES

A. Fasteners: Galvanized steel, with soft neoprene washers.

B. Snow Splitter Fasteners: Roof accessory attachment system for standing seam metal roofs, allowing attachment of snow splitters without penetration of metal seams or panels.

1. Material: 6061-T6 aluminum extrusions conforming to ASTM B221 or aluminum castings conforming to ASTM B85 and AA Aluminum Standards and Data.
2. Set Screws: 300 Series stainless steel, 18-8 alloy, 3/8 inch diameter.
3. Attachment Bolts: 300 Series
4. Basis of Design Product: Metal Roof Innovations Ltd.; S-5 Clamp.

C. Underlayment: ASTM D226/D226M, organic roofing felt, Type I, No. 15.

D. Primer Type: Zinc chromate.

E. Concealed Sealants: Non-curing butyl sealant.

F. Exposed Sealants: ASTM C920; elastomeric sealant, with minimum movement capability as recommended by manufacturer for substrates to be sealed; color to match adjacent material.

G. Asphalt Roof Cement: ASTM D4586/D4586M, Type I, asbestos-free.

H. Solder: ASTM B32, Alloy Grade - Sn50 (50/50).

PART 3. EXECUTION

3.01 INSTALLATION

A. Secure flashings in place using concealed fasteners, and use exposed fasteners only where permitted.

B. Apply plastic cement compound between metal flashings and felt flashings.

C. Fit flashings tight in place; make corners square, surfaces true and straight in planes, and lines accurate to profiles.

D. Seal metal joints watertight.

E. Install snow splitters with S5 clamps in accordance with Contractor's approved shop drawings.

1. Place both set screws on same side of clamp.
2. Tighten set screws to manufacturer's recommended torque.

3.02 FIELD QUALITY CONTROL

A. Snow Splitter Fasteners: Test set screw torque using torque wrench at randomly selected locations. Provide testing of 10% of total set screw locations.

3.03 SCHEDULE

A. Flashings Associated with Roofing: 24 gauge unless indicated otherwise on Drawings, factory prefinished.

B. Continuous Cleat: 24 gauge

C. Base Flashings: 24 gauge unless indicated otherwise on Drawings, factory prefinished

D. Snow Splitters: Metal gauge indicated on Drawings, field painted finish.

END OF SECTION

ROOF SPECIALTIES

PART 1. GENERAL

1.01 NOTIFICATIONS OF POTENTIAL HAZARDS

A. Notification of Potential Hazards: Asbestos, lead and other potentially hazardous materials are present in the building that may impact the work of all trades. Regulated air contaminates, including asbestos and lead are also present in the settled and concealed dust in and on architectural, structural, mechanical, and electrical components and systems throughout the building. All trades shall coordinate with other trades and conduct their work to prevent worker exposure or site. Refer to Divisions 0, 1 and 2 for specific information concerning disturbing, removing, and disposing of these materials and the installation of new materials and components. This notification is provided in accordance with the EPA and OSHA requirements.

B. Notification of Child Occupied Facility: Portions of this building are classified as a Child Occupied Facility in accordance with 40 CFR 745 and lead-based paints may be present on components to be disturbed in those areas. Personnel performing work in these areas must comply with the requirements of 40 CFR 745, including training, work practices and cleaning of the work area. Refer to Specification Divisions 0, 1 and 2 for specific information concerning disturbing, removing and disposing of lead materials and the installation of new materials or components. This notification is provided in accordance with the EPA and OSHA requirements.

1.02 SECTION INCLUDES

A. Manufactured roof specialties, including fascia cap.

B. Roof expansion joint covers.

C. Rain leader anti-climb covers.

1.03 RELATED REQUIREMENTS

A. Section 07 62 00-Sheet Metal Flashing and Trim: Fabricated snow splitters and attachment device.

1.04 REFERENCE STANDARDS

A. AAMA 611 - Voluntary Specification for Anodized Architectural Aluminum; 2020.

B. AAMA 2603 - Voluntary Specification, Performance Requirements and Test Procedures for Pigmented Organic Coatings on Aluminum Extrusions and Panels (with Coil Coating Appendix); 2022.

C. AAMA 2605 - Voluntary Specification, Performance Requirements and Test Procedures for Superior Performing Organic Coatings on Aluminum Extrusions and Panels (with Coil Coating Appendix); 2022.

D. ANSI/SPRI/FM 4435/ES-1 - Test Standard for Edge Systems Used with Low Slope Roofing Systems; 2017.

E. ASTM B221 - Standard Specification for Aluminum and Aluminum-Alloy Extruded Bars, Rods, Wire, Profiles, and Tubes; 2021.

F. NRCA (RM) - The NRCA Roofing Manual; 2024.

1.05 SUBMITTALS

A. Product Data: Provide data on shape of components, materials and finishes, anchor types and locations.

B. Shop Drawings: Indicate configuration and dimension of components, adjacent construction, required clearances and tolerances, and other affected work.

PART 2. PRODUCTS

2.01 COMPONENTS

A. Roof Edge Flashings: Factory fabricated to sizes required; corners mitered; concealed fasteners.

1. Configuration: Fascia, cant, and edge securement for roof membrane.
2. Pull-Off Resistance: Tested in accordance with ANSI/SPRI/FM 4435/ES-1 using test methods RE-1 and RE-2 to positive and negative design wind pressure as defined by applicable local building code.
3. Exposed Face Height: As indicated on drawings.
4. Material: Formed steel sheet, galvanized, 22 gauge, 0,03 inch (0.75 mm) thick, minimum.
5. Finish: 70 percent polyvinylidene fluoride.
6. Color: Match existing metal roof color.

B. Expansion Joint Covers: Composite construction of wide flexible UV grade, 40-50 shore A durometer, 0.060 inch thick, EPDM rubber primary flashing and secondary flashing of closed cell foam, each edge fastened into frame of 6063-T5, ASTM B 221, .032 inch thick aluminum extrusions. Provide an expansion joint cover assembly designed for 100% movement.

1. Basis of Design Product: Expand-O-Flash Expansion Joint Cover from Johns Manville.
2. Color: As selected by Architect from Manufacturer's full range.

C. Rain Leader Anti Climb Protection Covers

1. Provide Anti Climb shroud at exposed rain leaders within 8 feet of grade.
2. Acceptable materials include:
    a. Prefinished steel intended for exterior exposure
    b. Aluminum
    c. Synthetic Materials
3. Attachment
    a. Must include provision to attach to structural steel column via concealed plate or other secure methods as approved by Architect.
4. Basis of Design Product: Guttercrest High Security Downspout
    a. Or approved equal pre manufactured product designed and utilized for similar use.

2.02 FINISHES

A. Mil Finish for concealed expansion joint frame: As manufactured.

B. PVDF (Polyvinylidene Fluoride) Coating for Fascia Cap: Superior Performance Organic Finish, AAMA 2605; multiple coat, thermally cured fluoropolymer finish system; color as indicated.

2.03 ACCESSORIES

A. Fasteners: Manufacturer's recommended fasteners, suitable for application and designed to withstand design loads.

PART 3. EXECUTION

3.01 INSTALLATION

A. Install components in accordance with manufacturer's instructions and NRCA (RM) applicable requirements.

B. Seal joints within components when required by component manufacturer.

C. Anchor components securely.

D. Coordinate installation of components of this section with installation of roofing membrane and base flashings.

E. Coordinate installation of sealants and roofing cement with work of this section to ensure water tightness.

END OF SECTION

FIRESTOPPING

PART 1. GENERAL

1.01 NOTIFICATIONS OF POTENTIAL HAZARDS

A. Notification of Potential Hazards: Asbestos, lead and other potentially hazardous materials are present in the building that may impact the work of all trades. Regulated air contaminates, including asbestos and lead are also present in the settled and concealed dust in and on architectural, structural, mechanical, and electrical components and systems throughout the building. All trades shall coordinate with other trades and conduct their work to prevent worker exposure or site. Refer to Divisions 0, 1 and 2 for specific information concerning disturbing, removing, and disposing of these materials and the installation of new materials and components. This notification is provided in accordance with the EPA and OSHA requirements.

B. Notification of Child Occupied Facility: Portions of this building are classified as a Child Occupied Facility in accordance with 40 CFR 745 and lead-based paints may be present on components to be disturbed in those areas. Personnel performing work in these areas must comply with the requirements of 40 CFR 745, including training, work practices and cleaning of the work area. Refer to Specification Divisions 0, 1 and 2 for specific information concerning disturbing, removing and disposing of lead materials and the installation of new materials or components. This notification is provided in accordance with the EPA and OSHA requirements.

1.02 SECTION INCLUDES

A. Firestopping systems.

B. Firestopping of joints and penetrations in fire-resistance-rated and smoke-resistant assemblies, whether indicated on drawings or not, and other openings indicated.

1.03 REFERENCE STANDARDS

A. ASTM E119 - Standard Test Methods for Fire Tests of Building Construction and Materials; 2022.

B. ASTM E814 - Standard Test Method for Fire Tests of Penetration Firestop Systems; 2023a.

C. ASTM E2174 - Standard Practice for On-Site Inspection of Installed Firestop Systems; 2020a.

D. ASTM E2393 - Standard Practice for On-Site Inspection of Installed Fire Resistive Joint Systems and Perimeter Fire Barriers; 2020a.

E. ITS (DIR) - Directory of Listed Products; Current Edition.

F. FM (AG) - FM Approval Guide; Current Edition.

G. UL 1479 - Standard for Fire Tests of Penetration Firestops; Current Edition, Including All Revisions.

H. UL (FRD) - Fire Resistance Directory; Current Edition.

1.04 SUBMITTALS

A. Schedule of Firestopping: List each type of penetration, fire rating of the penetrated assembly, and firestopping test or design number.

B. Product Data: Provide data on product characteristics, performance ratings, and limitations.

1.05 QUALITY ASSURANCE

A. Fire Testing: Provide firestopping assemblies of designs that provide the scheduled fire ratings when tested in accordance with methods indicated.

1. Listing in UL (FRD), FM (AG), or ITS (DIR) will be considered as constituting an acceptable test report.

PART 2. PRODUCTS

2.01 MATERIALS

A. Firestopping Materials: Any materials meeting requirements.

B. Primers, Sleeves, Forms, Insulation, Packing, Stuffing, and Accessories: Provide type of materials as required for tested firestopping assembly.

2.02 FIRESTOPPING SYSTEMS

A. Firestopping: Any material meeting requirements.

1. Fire Ratings: Use system that is listed by FM (AG), ITS (DIR), or UL (FRD) and tested in accordance with ASTM E814, ASTM E119, or UL 1479 with F Rating equal to fire rating of penetrated assembly and minimum T Rating Equal to F Rating and in compliance with other specified requirements.

PART 3. EXECUTION

3.01 PREPARATION

A. Clean substrate surfaces of dirt, dust, grease, oil, loose material, or other materials that could adversely affect bond of firestopping material.

B. Remove incompatible materials that could adversely affect bond.

3.02 INSTALLATION

A. Install materials in manner described in fire test report and in accordance with manufacturer's instructions, completely closing openings.

3.03 FIELD QUALITY CONTROL

A. Independent Testing Agency: Inspection agency employed and paid by Owner, will examine penetration firestopping in accordance with ASTM E2174 and ASTM E2393.

B. Repair or replace penetration firestopping and joints at locations where inspection results indicate firestopping or joints do not meet specified requirements.

3.04 CLEANING

A. Clean adjacent surfaces of firestopping materials.

3.05 PROTECTION

A. Protect adjacent surfaces from damage by material installation.

END OF SECTION

JOINT SEALANTS

PART 1. GENERAL

1.01 NOTIFICATIONS OF POTENTIAL HAZARDS

A. Notification of Potential Hazards: Asbestos, lead and other potentially hazardous materials are present in the building that may impact the work of all trades. Regulated air contaminates, including asbestos and lead are also present in the settled and concealed dust in and on architectural, structural, mechanical, and electrical components and systems throughout the building. All trades shall coordinate with other trades and conduct their work to prevent worker exposure or site. Refer to Divisions 0, 1 and 2 for specific information concerning disturbing, removing, and disposing of these materials and the installation of new materials and components. This notification is provided in accordance with the EPA and OSHA requirements.

B. Notification of Child Occupied Facility: Portions of this building are classified as a Child Occupied Facility in accordance with 40 CFR 745 and lead-based paints may be present on components to be disturbed in those areas. Personnel performing work in these areas must comply with the requirements of 40 CFR 745, including training, work practices and cleaning of the work area. Refer to Specification Divisions 0, 1 and 2 for specific information concerning disturbing, removing and disposing of lead materials and the installation of new materials or components. This notification is provided in accordance with the EPA and OSHA requirements.

1.02 SECTION INCLUDES

A. Nonsag gunnable joint sealants.

B. Self-leveling pourable joint sealants.

C. Joint backings and accessories.

1.03 REFERENCE STANDARDS

A. ASTM C661 - Standard Test Method for Indentation Hardness of Elastomeric-Type Sealants by Means of a Durometer; 2015 (Reapproved 2022).

B. ASTM C794 - Standard Test Method for Adhesion-in-Peel of Elastomeric Joint Sealants; 2018 (Reapproved 2022).

C. ASTM C920 - Standard Specification for Elastomeric Joint Sealants; 2018.

D. ASTM C1087 - Standard Test Method for Determining Compatibility of Liquid-Applied Sealants with Accessories Used in Structural Glazing Systems; 2023.

E. ASTM C1193 - Standard Guide for Use of Joint Sealants; 2016 (Reapproved 2023).

F. SCAQMD 1168 - Adhesive and Sealant Applications; 1989, with Amendment (2022).

G. SWRI (VAL) - SWR Institute Validated Products Directory; Current Edition.

1.04 SUBMITTALS

A. Product Data: Submit manufacturer's technical datasheets for each product to be used; include the following:

1. Physical characteristics, including movement capability, VOC content, hardness, cure time, and color availability.
2. List of backing materials approved for use with the specific product.
3. Backing material recommended by sealant manufacturer.

4. Substrates that product is known to satisfactorily adhere to and with which it is compatible.
5. Substrates the product should not be used on.
6. Substrates for which use of primer is required.
7. Substrates for which laboratory adhesion and/or compatibility testing is required.
8. SWRI Validation: Provide currently available sealant product validations as listed by SWRI (VAL) for specified sealants.

B. Product Data for Accessory Products: Submit manufacturer's technical data sheet for each product to be used, including physical characteristics, installation instructions, and recommended tools.

C. Preconstruction Laboratory Test Reports: Submit at least four weeks prior to start of installation.

D. Executed warranty.

1.05 QUALITY ASSURANCE

A. Preconstruction Laboratory Testing: Arrange for sealant manufacturer(s) to test each combination of sealant, substrate, backing, and accessories.

1. Adhesion Testing: In accordance with ASTM C794.
2. Compatibility Testing: In accordance with ASTM C1087.
3. Allow sufficient time for testing to avoid delaying the work.
4. Deliver sufficient samples to manufacturer for testing.
5. Report manufacturer's recommended corrective measures, if any, including primers or techniques not indicated in product data submittals.
6. Testing is not required if sealant manufacturer provides data showing previous testing, not older than 24 months, that shows satisfactory adhesion, lack of staining, and compatibility.

PART 2. PRODUCTS

2.01 MANUFACTURERS

A. Nonsag Sealants:

1. Bostik Inc: www.bostik-us.com/#sle.
2. Dow: www.dow.com/#sle.
3. Pecora Corporation: www.pecora.com/#sle.
4. Sika Corporation: www.usa.sika.com/#sle.
5. Tremco Commercial Sealants & Waterproofing: www.tremcosealants.com/#sle.
6. W.R. Meadows, Inc: www.wrmeadows.com/#sle.

B. Self-Leveling Sealants:

1. Bostik Inc: www.bostik-us.com/#sle.
2. Dow: www.dow.com/#sle.
3. Pecora Corporation: www.pecora.com/#sle.
4. Sika Corporation: www.usa.sika.com/#sle.
5. Tremco Commercial Sealants & Waterproofing: www.tremcosealants.com/#sle.
6. W.R. Meadows, Inc: www.wrmeadows.com/#sle.

2.02 JOINT SEALANT APPLICATIONS

A. Scope:

1. Exterior Joints:

a. Seal the following joints:

1) Wall expansion and control joints.
2) Joints between doors, windows, and other frames or adjacent construction.
3) Joints between different exposed materials.
4) Joints involved with roof construction.
5) Other joints indicated on Drawings.

B. Exterior Joints: Use nonsag polyurethane sealant, unless otherwise indicated.

1. Lap Joints in Sheet Metal Fabrications: Butyl rubber, noncuring.

2.03 JOINT SEALANTS - GENERAL

A. Sealants and Primers: Provide products to be used within the interior of the building having lower volatile organic compound (VOC) content than indicated in SCAQMD 1168.

B. Colors: As indicated on drawings, if not indicated match color of adjacent materials.

2.04 NONSAG JOINT SEALANTS

A. Polyurethane Sealant: ASTM C920, Grade NS, Uses M and A; single or multi-component; not expected to withstand continuous water immersion or traffic.

1. Movement Capability: Plus 100 percent, minus 50 percent, minimum.
2. Color: To be selected by Architect from manufacturer's standard range.
3. Service Temperature Range: Minus 40 to 180 degrees F (Minus 40 to 82 degrees C).

B. Nonsag Traffic-Grade Polyurethane Sealant: ASTM C920, Grade NS, Uses M and A; single or multi-component; explicitly approved by manufacturer for continuous water immersion and traffic without the necessity to recess sealant below traffic surface.

1. Movement Capability: Plus and minus 25 percent, minimum.
2. Hardness Range: 20 to 30, Shore A, when tested in accordance with ASTM C661.
3. Color: Match adjacent finished surfaces.

C. Type Nonsag - Noncuring Butyl Sealant: Solvent-based, single component, nonsag, nonskinning, nonhardening, nonbleeding; nonvapor permeable; intended for fully concealed applications.

2.05 ACCESSORIES

A. Sealant Backing Materials, General: Materials placed in joint before applying sealants; assists sealant performance and service life by developing optimum sealant profile and preventing three-sided adhesion; type and size recommended by sealant manufacturer for compatibility with sealant, substrate, and application.

B. Backing Tape: Self-adhesive polyethylene tape with surface that sealant will not adhere to and recommended by tape and sealant manufacturers for specific application.

C. Masking Tape: Self-adhesive, nonabsorbent, nonstaining, removable without adhesive residue, and compatible with surfaces adjacent to joints and sealants.

D. Joint Cleaner: Noncorrosive and nonstaining type, type recommended by sealant manufacturer; compatible with joint forming materials.

PART 3. EXECUTION

3.01 EXAMINATION

A. Verify that joints are ready to receive work.

B. Verify that backing materials are compatible with sealants.

3.02 PREPARATION

A. Remove loose materials and foreign matter that could impair adhesion of sealant.

B. Clean joints, and prime as necessary, in accordance with manufacturer's instructions.

C. Perform preparation in accordance with manufacturer's instructions and ASTM C1193.

D. Mask elements and surfaces adjacent to joints from damage and disfigurement due to sealant work; be aware that sealant drips and smears may not be completely removable.

3.03 INSTALLATION

A. Install this work in accordance with sealant manufacturer's requirements for preparation of surfaces and material installation instructions.

B. Provide joint sealant installations complying with ASTM C1193.

C. Install bond breaker backing tape where backer rod cannot be used.

D. Install sealant free of air pockets, foreign embedded matter, ridges, and sags, and without getting sealant on adjacent surfaces.

E. Do not install sealant when ambient temperature is outside manufacturer's recommended temperature range, or will be outside that range during the entire curing period, unless manufacturer's approval is obtained and instructions are followed.

F. Nonsag Sealants: Tool surface concave, unless otherwise indicated; remove masking tape immediately after tooling sealant surface.

END OF SECTION

HOLLOW METAL DOORS AND FRAMES

PART 1. GENERAL

1.01 NOTIFICATIONS OF POTENTIAL HAZARDS

A. Notification of Potential Hazards: Asbestos, lead and other potentially hazardous materials are present in the building that may impact the work of all trades. Regulated air contaminates, including asbestos and lead are also present in the settled and concealed dust in and on architectural, structural, mechanical, and electrical components and systems throughout the building. All trades shall coordinate with other trades and conduct their work to prevent worker exposure or site. Refer to Divisions 0, 1 and 2 for specific information concerning disturbing, removing, and disposing of these materials and the installation of new materials and components. This notification is provided in accordance with the EPA and OSHA requirements.

B. Notification of Child Occupied Facility: Portions of this building are classified as a Child Occupied Facility in accordance with 40 CFR 745 and lead-based paints may be present on components to be disturbed in those areas. Personnel performing work in these areas must comply with the requirements of 40 CFR 745, including training, work practices and cleaning of the work area. Refer to Specification Divisions 0, 1 and 2 for specific information concerning disturbing, removing and disposing of lead materials and the installation of new materials or components. This notification is provided in accordance with the EPA and OSHA requirements.

1.02 SECTION INCLUDES

A. Non-fire-rated hollow metal doors and frames.

B. Thermally insulated hollow metal doors with frames.

1.03 RELATED REQUIREMENTS

A. Section 09 91 13 - Exterior Painting: Field painting.

1.04 REFERENCE STANDARDS

A. ADA Standards - 2010 ADA Standards for Accessible Design; 2010.

B. ANSI/SDI A250.4 - Test Procedure and Acceptance Criteria for Physical Endurance for Steel Doors, Frames and Frame Anchors; 2022.

C. ANSI/SDI A250.6 - Recommended Practice for Hardware Reinforcing on Standard Steel Doors and Frames; 2020.

D. ANSI/SDI A250.8 - Specifications for Standard Steel Doors and Frames (SDI-100); 2023.

E. ANSI/SDI A250.10 - Test Procedure and Acceptance Criteria for Prime Painted Steel Surfaces for Steel Doors and Frames; 2020.

F. ASTM A653/A653M - Standard Specification for Steel Sheet, Zinc-Coated (Galvanized) or Zinc-Iron Alloy-Coated (Galvannealed) by the Hot-Dip Process; 2023.

G. ASTM A1008/A1008M - Standard Specification for Steel, Sheet, Cold-Rolled, Carbon, Structural, High-Strength Low-Alloy, High-Strength Low-Alloy with Improved Formability, Required Hardness, Solution Hardened, and Bake Hardenable; 2021a.

H. ASTM A1011/A1011M - Standard Specification for Steel, Sheet and Strip, Hot-Rolled, Carbon, Structural, High-Strength Low-Alloy, High-Strength Low-Alloy with Improved Formability, and Ultra-High Strength; 2023.

I. ASTM E84 - Standard Test Method for Surface Burning Characteristics of Building Materials; 2023b.

J. BHMA A156.115 - Hardware Preparation in Steel Doors and Frames; 2016.

K. ICC A117.1 - Accessible and Usable Buildings and Facilities; 2017.

L. NAAMM HMMA 830 - Hardware Selection for Hollow Metal Doors and Frames; 2002.

M. NAAMM HMMA 831 - Hardware Locations for Hollow Metal Doors and Frames; 2011.

N. NAAMM HMMA 840 - Guide Specifications For Receipt, Storage and Installation of Hollow Metal Doors and Frames; 2017.

O. NAAMM HMMA 861 - Guide Specifications for Commercial Hollow Metal Doors and Frames; 2014.

P. SDI 117 - Manufacturing Tolerances for Standard Steel Doors and Frames; 2023.

1.05 SUBMITTALS

A. Product Data: Materials and details of design and construction, hardware locations, reinforcement type and locations, anchorage and fastening methods, and finishes; and one copy of referenced standards/guidelines.

B. Installation Instructions: Manufacturer's published instructions, including any special installation instructions relating to this project.

C. Manufacturer's Certificate: Certification that products meet or exceed specified requirements.

1.06 QUALITY ASSURANCE

A. Maintain at project site copies of reference standards relating to installation of products specified.

1.07 DELIVERY, STORAGE, AND HANDLING

A. Comply with NAAMM HMMA 840 or ANSI/SDI A250.8 (SDI-100) in accordance with specified requirements.

B. Protect with resilient packaging; avoid humidity build-up under coverings; prevent corrosion and adverse effects on factory applied painted finish.

PART 2. PRODUCTS

2.01 MANUFACTURERS

A. Hollow Metal Doors and Frames:

1. Ceco Door, an Assa Abloy Group company: www.assaabloydss.com/#sle.
2. Curries, an Assa Abloy Group company: www.assaabloydss.com/#sle.
3. Steelcraft, an Allegion brand: www.allegion.com/#sle.

2.02 PERFORMANCE REQUIREMENTS

A. Requirements for Hollow Metal Doors and Frames:

1. Steel Sheet: Comply with one or more of the following requirements; galvannealed steel complying with ASTM A653/A653M, cold-rolled steel complying with ASTM A1008/A1008M, or hot-rolled pickled and oiled (HRPO) steel complying with ASTM A1011/A1011M, commercial steel (CS) Type B, for each.
2. Accessibility: Comply with ICC A117.1 and ADA Standards.

3. Exterior Door Top Closures: Flush end closure channel, with top and door faces aligned.
4. Door Edge Profile: Manufacturers standard for application indicated.
5. Typical Door Face Sheets: Flush.
6. Hardware Preparations, Selections and Locations: Comply with NAAMM HMMA 830 and NAAMM HMMA 831 or BHMA A156.115 and ANSI/SDI A250.8 (SDI-100) in accordance with specified requirements.
7. Zinc Coating for Typical Interior and/or Exterior Locations: Provide metal components zinc-coated (galvanized) and/or zinc-iron alloy-coated (galvannealed) by the hot-dip process in accordance with ASTM A653/A653M, with manufacturer's standard coating thickness, unless noted otherwise for specific hollow metal doors and frames.

    a. Based on SDI Standards: Provide at least A60/ZF180 (galvannealed).

B. Combined Requirements: If a particular door and frame unit is indicated to comply with more than one type of requirement, comply with the specified requirements for each type; for instance, an exterior door that is also indicated as being sound-rated must comply with the requirements specified for exterior doors and for sound-rated doors; where two requirements conflict, comply with the most stringent.

2.03 HOLLOW METAL DOORS

A. Door Finish: Factory primed and field finished.

B. Exterior Doors: Thermally insulated.

1. Based on SDI Standards: ANSI/SDI A250.8 (SDI-100).

    a. Level 3 - Extra Heavy-duty.
    b. Physical Performance Level C, 250,000 cycles; in accordance with ANSI/SDI A250.4.
    c. Model 1 - Full Flush and Seamless.
    d. Door Face Metal Thickness: 14 gauge (.0785 inches)
    e. Zinc Coating: A60/ZF180 galvannealed coating; ASTM A653/A653M.
    f. Beveled Edge.

2. Door Core Material: Polyisocyanurate, 2 lbs/cu ft minimum density.

    a. Foam Plastic Insulation: Manufacturer's standard board insulation with maximum flame spread index (FSI) of 75, and maximum smoke developed index (SDI) of 450 in accordance with ASTM E84, and completely enclosed within interior of door.

3. Door Thermal Resistance: R-Value of 9.9, minimum, for installed thickness of polyisocyanurate.
4. Door Thickness: 1-3/4 inches (44.5 mm), nominal.

2.04 HOLLOW METAL FRAMES

A. Comply with standards and/or custom guidelines as indicated for corresponding door in accordance with applicable door frame requirements.

B. Exterior Door Frames: Full profile/continuously welded type.

1. Galvanizing: Components hot-dipped zinc-iron alloy-coated (galvannealed) in accordance with ASTM A653/A653M, with A60/ZF180 coating.
2. Frame Metal Thickness: 14 gauge, 0.067 inch (1.7 mm), minimum.
3. Weatherstripping: Separate, see Section 08 71 00.

2.05 FINISHES

A. Primer: Rust-inhibiting, complying with ANSI/SDI A250.10, door manufacturer's standard.

2.06 ACCESSORIES

A. Silencers: Resilient rubber, fitted into drilled hole; provide three on strike side of single door, three on center mullion of pairs, and two on head of pairs without center mullions.

B. Temporary Frame Spreaders: Provide for factory- or shop-assembled frames.

PART 3. EXECUTION

3.01 INSTALLATION

A. Install doors and frames in accordance with manufacturer's instructions and related requirements of specified door and frame standards or custom guidelines indicated.

B. Coordinate frame anchor placement with wall construction.

C. Install door hardware as specified in Section 08 71 00.

1. Comply with recommended practice for hardware placement of doors and frames in accordance with ANSI/SDI A250.6 or NAAMM HMMA 861.

3.02 TOLERANCES

A. Clearances Between Door and Frame: Comply with related requirements of specified frame standards or custom guidelines indicated in accordance with SDI 117 or NAAMM HMMA 861.

B. Maximum Diagonal Distortion: 1/16 inch (1.6 mm) measured with straight edge, corner to corner.

3.03 ADJUSTING

A. Adjust for smooth and balanced door movement.

3.04 SCHEDULE

A. Refer to Door and Frame Schedule on the drawings.

END OF SECTION

DOOR HARDWARE

PART 1. GENERAL

1.01 SECTION INCLUDES

A. Hardware for doors.

1.02 REFERENCE STANDARDS

A. ADA Standards - 2010 ADA Standards for Accessible Design; 2010.

B. BHMA (CPD) - Certified Products Directory; Current Edition.

C. ICC A117.1 - Accessible and Usable Buildings and Facilities; 2017.

D. NFPA 70 - National Electrical Code; Most Recent Edition Adopted by Authority Having Jurisdiction, Including All Applicable Amendments and Supplements.

E. NFPA 101 - Life Safety Code; Most Recent Edition Adopted by Authority Having Jurisdiction, Including All Applicable Amendments and Supplements.

PART 2. PRODUCTS

2.01 DESIGN AND PERFORMANCE CRITERIA

A. Provide specified door hardware as required to make doors fully functional, compliant with applicable codes, and secure to extent indicated.

B. Provide individual items of single type, of same model, and by same manufacturer.

C. Meet or exceed requirements of existing door being replaced.

D. Confirm all hardware complies with ASD standards.

E. Door Hardware for Replacement Door 145

1. 1 Exit Device 98 EO AL/626 VO.
2. 1 Door Closer 4040XP EDA AL LCN.
3. 1 Continuous Hinge A5500 SS ABH.
4. 1 Pair Jamb Gaskets 2891 APK PE.
5. 1 Head Gasket 2891 APK PE.
6. 1 Door Sweep 315CN AL PE.
7. 1 Kickplate K1050 B4ELTDW 630 RW.
8. 1 Threshold WS437-150 626/US26D.
9. Reuse door contacts per the owner’s request

PART 3. EXECUTION

3.01 EXAMINATION

A. Verify that doors and frames are ready to receive this work; labeled, fire-rated doors and frames are properly installed, and dimensions are as indicated on shop drawings.

3.02 INSTALLATION

A. Install hardware in accordance with manufacturer's instructions and applicable codes.

B. Use templates provided by hardware item manufacturer.

C. Set exterior door thresholds with full-width bead of elastomeric sealant at each point of contact with floor providing a continuous weather seal, anchor thresholds with stainless steel countersunk screws.

3.03 ADJUSTING

A. Adjust work under provisions of Section 01700 - Execution and Closeout Requirements.

B. Adjust hardware for smooth operation.

C. Adjust gasketing for complete, continuous seal; replace if unable to make complete seal.

3.04 PROTECTION

A. Protect finished Work under provisions of Section 01700 - Execution and Closeout Requirements.

B. Do not permit adjacent work to damage hardware or finish.

END OF SECTION

EXTERIOR PAINTING

PART 1. GENERAL

1.01 NOTIFICATIONS OF POTENTIAL HAZARDS

A. Notification of Potential Hazards: Asbestos, lead and other potentially hazardous materials are present in the building that may impact the work of all trades. Regulated air contaminates, including asbestos and lead are also present in the settled and concealed dust in and on architectural, structural, mechanical, and electrical components and systems throughout the building. All trades shall coordinate with other trades and conduct their work to prevent worker exposure or site. Refer to Divisions 0, 1 and 2 for specific information concerning disturbing, removing, and disposing of these materials and the installation of new materials and components. This notification is provided in accordance with the EPA and OSHA requirements.

B. Notification of Child Occupied Facility: Portions of this building are classified as a Child Occupied Facility in accordance with 40 CFR 745 and lead-based paints may be present on components to be disturbed in those areas. Personnel performing work in these areas must comply with the requirements of 40 CFR 745, including training, work practices and cleaning of the work area. Refer to Specification Divisions 0, 1 and 2 for specific information concerning disturbing, removing and disposing of lead materials and the installation of new materials or components. This notification is provided in accordance with the EPA and OSHA requirements.

1.02 SECTION INCLUDES

A. Surface preparation.

B. Field application of paints.

C. Scope: Finish exterior surfaces exposed to view, unless fully factory-finished and unless otherwise indicated, including the following:

1. Hollow metal doors and frames.
2. Steel handrails and guardrails.
3. Steel structural framing.
4. Metal flashings, roof snow splitters, and supports, not indicated to receive a factory-finish.
5. Fiber cement sheathing.

D. Do Not Paint or Finish the Following Items:

1. Items factory-finished unless otherwise indicated; materials and products having factory-applied primers are not considered factory finished.
2. Items indicated to receive other finishes.
3. Items indicated to remain unfinished.
4. Fire rating labels, equipment serial number and capacity labels, and operating parts of equipment.
5. Exterior insulation and finish system (EIFS).
6. Glass.
7. Concealed pipes, ducts, and conduits.

1.03 REFERENCE STANDARDS

A. MPI (APSM) - Master Painters Institute Architectural Painting Specification Manual; Current Edition.

B. SSPC-SP 1 - Solvent Cleaning; 2015, with Editorial Revision (2016).

1.04 SUBMITTALS

A. Product Data: Provide complete list of products to be used, with the following information for each:

1. Manufacturer's name, product name and/or catalog number, and general product category (e.g. "alkyd enamel").
2. MPI product number (e.g. MPI #47).
3. Cross-reference to specified paint system(s) product is to be used in; include description of each system.
4. Manufacturer's installation instructions.

B. Samples: Submit three paper "draw down" samples, 8-1/2 by 11 inches (216 by 279 mm) in size, illustrating range of colors available for each finishing product specified.

1. Where sheen is specified, submit samples in only that sheen.
2. Where sheen is not specified, submit each color in each sheen available.

C. Manufacturer's Instructions: Indicate special surface preparation procedures.

1.05 DELIVERY, STORAGE, AND HANDLING

A. Deliver products to site in sealed and labeled containers; inspect to verify acceptability.

B. Container Label: Include manufacturer's name, type of paint, brand name, lot number, brand code, coverage, surface preparation, drying time, cleanup requirements, color designation, and instructions for mixing and reducing.

C. Paint Materials: Store at minimum ambient temperature of 45 degrees F (7 degrees C) and a maximum of 90 degrees F (32 degrees C), in ventilated area, and as required by manufacturer's instructions.

1.06 FIELD CONDITIONS

A. Do not apply materials when surface and ambient temperatures are outside the paint product manufacturer's temperature ranges.

B. Follow manufacturer's recommended procedures for producing best results, including testing of substrates, moisture in substrates, and humidity and temperature limitations.

C. Do not apply exterior paint and finishes during rain or snow, or when relative humidity is outside the humidity ranges required by the paint product manufacturer.

D. Minimum Application Temperatures for Latex Paints: 50 degrees F (10 degrees C) for exterior; unless required otherwise by manufacturer's instructions.

E. Provide lighting level of 80 ft candles (860 lx) measured mid-height at substrate surface.

PART 2. PRODUCTS

2.01 MANUFACTURERS

A. Provide paints and finishes used in any individual system from the same manufacturer; no exceptions.

B. Paints:

1. Behr Process Corporation: www.behr.com/#sle.
2. Dunn-Edwards Corporation: www.dunnedwards.com/#sle.
3. Kelly-Moore Paints: www.kellymoore.com/#sle.
4. PPG Paints: www.ppgpaints.com/#sle.
5. Rodda Paint Company: www.roddapaint.com/#sle.
6. Sherwin-Williams Company: www.sherwin-williams.com/#sle.

2.02 PAINTS AND FINISHES - GENERAL

A. Paints and Finishes: Ready-mixed, unless required to be a field-catalyzed paint.

1. Provide paints and finishes of a soft paste consistency, capable of being readily and uniformly dispersed to a homogeneous coating, with good flow and brushing properties, and capable of drying or curing free of streaks or sags.
2. Provide materials that are compatible with one another and the substrates indicated under conditions of service and application, as demonstrated by manufacturer based on testing and field experience.
3. Supply each paint material in quantity required to complete entire project's work from a single production run.
4. Do not reduce, thin, or dilute paint or finishes or add materials unless such procedure is described explicitly in manufacturer's product instructions.

B. Sheens: Provide the sheens specified; where sheen is not specified, sheen will be selected later by Architect from the manufacturer's full line.

C. Colors: To be selected from manufacturer's full range of available colors.

1. Selection to be made by Architect after award of contract.

2.03 PAINT SYSTEMS - EXTERIOR

A. Exterior Surfaces to be Painted, Unless Otherwise Indicated: Including fiber cement siding and primed metal.

1. Two top coats and one coat primer.
2. Top Coat(s): Exterior Latex.
    a. Products:
        1) Sherwin-Williams Pro Industrial Acrylic, Eg-Shel.
        2) Sherwin-Williams Pro Industrial Acrylic, Semi-Gloss.
3. Top Coat(s): Modified Polyurethane, High Performance Architectural.
    a. Products:
        1) Sherwin Williams, Acrolon Ultra.
4. Top Coat Sheen:
    a. Flat: MPI gloss level 1; use this sheen when required to match existing conditions.
    b. Velvet: MPI gloss level 2; use this sheen when required to match existing conditions.
    c. Eggshell: MPI gloss level 3; use this sheen when required to match existing conditions.
    d. Satin: MPI gloss level 4; use this sheen on fiber cement sheathing.
    e. Semi-Gloss: MPI gloss level 5; use this sheen at metal doors and frames, bollards and handrails and guardrails.
    f. Gloss: MPI gloss level 6; use this sheen at steel structural framing.

2.04 PRIMERS

A. Primers: Provide the following unless other primer is required or recommended by manufacturer of top coats.

1. Water Based Primer for Galvanized Metal and other surfaces indicated; MPI #134.
    a. Products:

1) Sherwin-Williams Pro Industrial Pro-Cryl Universal Primer. (MPI #134)

2.05 ACCESSORY MATERIALS

A. Accessory Materials: Provide primers, sealers, cleaning agents, cleaning cloths, sanding materials, and clean-up materials as required for final completion of painted surfaces.

B. Patching Material: Latex filler.

C. Fastener Head Cover Material: Latex filler.

PART 3. EXECUTION

3.01 PREPARATION

A. Clean surfaces thoroughly and correct defects prior to application.

B. Prepare surfaces using the methods recommended by the manufacturer for achieving the best result for the substrate under the project conditions.

C. Remove or mask surface appurtenances, including electrical plates, hardware, light fixture trim, escutcheons, and fittings, prior to preparing surfaces for finishing.

D. Seal surfaces that might cause bleed through or staining of topcoat.

E. Remove mildew from impervious surfaces by scrubbing with solution of tetra-sodium phosphate and bleach. Rinse with clean water and allow surface to dry.

F. Fiber Cement Siding: Remove dirt, dust and other foreign matter with a stiff fiber brush. Do not coat surfaces if moisture content or alkalinity of surfaces to be coated exceeds that permitted in manufacturer's written instructions.

G. Galvanized Surfaces:

1. Remove surface contamination and oils and wash with solvent according to SSPC-SP 1.

3.02 APPLICATION

A. Apply products in accordance with manufacturer's written instructions and recommendations in "MPI Architectural Painting Specification Manual".

B. Do not apply finishes to surfaces that are not dry. Allow applied coats to dry before next coat is applied.

C. Apply each coat to uniform appearance.

D. Vacuum clean surfaces of loose particles. Use tack cloth to remove dust and particles just prior to applying next coat.

E. Reinstall electrical cover plates, hardware, light fixture trim, escutcheons, and fittings removed prior to finishing.

END OF SECTION

PLASTIC COLUMN COVERS

PART 1. GENERAL

1.01 NOTIFICATIONS OF POTENTIAL HAZARDS

A. Notification of Potential Hazards: Asbestos, lead and other potentially hazardous materials are present in the building that may impact the work of all trades. Regulated air contaminates, including asbestos and lead are also present in the settled and concealed dust in and on architectural, structural, mechanical, and electrical components and systems throughout the building. All trades shall coordinate with other trades and conduct their work to prevent worker exposure or site. Refer to Divisions 0, 1 and 2 for specific information concerning disturbing, removing, and disposing of these materials and the installation of new materials and components. This notification is provided in accordance with the EPA and OSHA requirements.

B. Notification of Child Occupied Facility: Portions of this building are classified as a Child Occupied Facility in accordance with 40 CFR 745 and lead-based paints may be present on components to be disturbed in those areas. Personnel performing work in these areas must comply with the requirements of 40 CFR 745, including training, work practices and cleaning of the work area. Refer to Specification Divisions 0, 1 and 2 for specific information concerning disturbing, removing and disposing of lead materials and the installation of new materials or components. This notification is provided in accordance with the EPA and OSHA requirements.

1.02 SECTION INCLUDES

A. Protective column covers.

1.03 RELATED REQUIREMENTS

A. Section 05 12 00 - Structural Steel Framing: Steel columns to receive column covers.

1.04 SUBMITTALS

A. Product Data: Indicate physical dimensions, features, and anchorage details.

B. Shop Drawings: Include plans, elevation, sections, and attachment details.

PART 2. PRODUCTS

2.01 MANUFACTURERS

A. Column Protectors Basis of Design: Subject to compliance with requirements provide: Beacon Industries; Beacon BVB Series, or a comparable product from a manufacturer including but not limited to the following:

1. Construction Specialties, Inc: www.c-sgroup.com/#sle.
2. Diversified Plastics Inc:
3. Innoplast:
4. Inpro: www.inprocorp.com/#sle.
5. MDC Interior Solutions: www.mdcwall.com/#sle.
6. Pawling Corp: www.pawling.com/#sle.
7. Seton

2.02 PRODUCT TYPES

A. Protective Column Covering:

1. Material: Polyethylene, UV protected.
2. Outside Width: 24 inches.

3. Overall Height: 42 inches.
4. Capacity: 7000 lbs at 6 mph.
5. Color: As selected by Architect from manufacturer's standard range of colors and finishes.
6. Accessories: Provide manufacturer's standard nylon fasteners for assembly.

2.03 FABRICATION

A. Coordinate fabrication of protective column covers with the approved structural steel shop drawings.

B. Fabricate components with tight joints, corners and seams.

PART 3. EXECUTION

3.01 INSTALLATION

A. Install components in accordance with manufacturer's instructions, level and plumb, secured rigidly in position to supporting construction.

END OF SECTION

HEAT TRACING FOR PLUMBING PIPING

PART 1. GENERAL

1.01 RELATED REQUIREMENTS

A. Section 22 05 53 - Identification for Plumbing Piping and Equipment

B. Section 26 05 19 - Low-Voltage Electrical Power Conductors and Cables.

C. Section 26 05 33.13 - Conduit for Electrical Systems.

D. Section 26 05 33.16 - Boxes for Electrical Systems.

1.02 REFERENCE STANDARDS

A. IEEE 515.1 - IEEE Standard for the Testing, Design, Installation, and Maintenance of Electrical Resistance Trace Heating for Commercial Applications; 2022.

B. ITS (DIR) - Directory of Listed Products; Current Edition.

C. NFPA 70 - National Electrical Code; Most Recent Edition Adopted by Authority Having Jurisdiction, Including All Applicable Amendments and Supplements.

D. UL (DIR) - Online Certifications Directory; Current Edition.

1.03 SUBMITTALS

A. Shop Drawings: Indicate electric heat tracing layout, electrical terminations, thermostats, controls, and branch circuit connections.

B. Field Quality Control Submittals: Indicate test reports and inspection reports.

C. Project Record Documents: Record actual locations of electric heat tracing lines and thermostats.

D. Operation and Maintenance Data: Include manufacturer's descriptive literature, operating instructions of equipment and controls, maintenance and repair data, and parts listings.

1.04 QUALITY ASSURANCE

A. Manufacturer Qualifications: Company specializing in manufacturing products specified in this section with minimum three years of documented experience.

1.05 WARRANTY

A. See Section 01700 - Closeout Submittals, for additional warranty requirements.

B. Provide two year manufacturer warranty for cables, connection kits, accessories, and controls.

PART 2. PRODUCTS

2.01 SELF-REGULATING PARALLEL RESISTANCE ELECTRIC HEATING CABLE

A. Manufacturers:

1. Chromalox, Inc: www.chromalox.com/#sle.
2. Pentair: www.pentairthermal.com/#sle.
3. Thermon Manufacturing Company: www.thermon.com/#sle.

B. Provide products listed, classified, and labeled by UL (DIR), ITS (DIR), or testing firm acceptable to authorities having jurisdiction (AHJ).

C. Factory Rating and Testing: Comply with IEEE 515.1.

D. Heating Element:

1. Provide pair of parallel No.16 tinned or nickel coated stranded copper bus wires embedded in cross linked conductive polymer core with varying heat output in response to temperature along its length.
2. Terminations: Waterproof, factory assembled, non-heating leads with connector at one end and water-tight seal at opposite end.
3. Capable of crossing over itself without overheating.

E. Insulated Jacket: Flame retardant polyolefin.

F. Cable Cover: Provide tinned copper and polyolefin outer jacket with UV inhibitor.

G. Maximum Power-On Operating Temperature: 150 degrees F (65 degrees C).

H. Maximum Power-Off Exposure Temperature: 185 degrees F (85 degrees C).

I. Electrical Characteristics:

1. 5 W/lineal ft.
2. 208 volts, single phase, 60 Hz.

2.02 CABLE OUTER JACKET MARKINGS

A. Name of manufacturer, trademark, or other recognized symbol of identification.

B. Catalog number, reference number, or model.

C. Month and year of manufacture, date coding, applicable serial number, or equivalent.

D. Agency listing or approval.

2.03 CONNECTION KITS

A. Provide power connection, splice/tee, and end seal kits compatible with the heating cable and without requiring cutting of the cable core to expose bus wires.

B. Provide with NEMA 4X rating for prevention of corrosion and water ingress.

2.04 ACCESSORIES

A. Provide Accessories As Indicated or As Required for Complete Installation, Including but Not Limited To:

1. Aluminum self-adhesive tape for attachment of heating cable to plastic piping.
2. Heat-conductive putty.
3. Cable ties.
4. Silicone end seals and splice kits.
5. Installation clips.
6. Warning labels for attachment to exterior of piping insulation.

2.05 CONTROLS

A. Provide minimum 30 ampere contactor to indicate operational status and on/off control.

B. Line sensing high-limit temperature control and high-limit alarm.

C. Programmable Controller:

1. Micro-processor based.
2. On/Off/Auto switch.
3. 365 day calendar with 20 programmable holidays.

PART 3. EXECUTION

3.01 EXAMINATION

A. Verify that piping and equipment are ready to receive work.

B. Verify field measurements are as indicated on shop drawings.

C. Verify required power is available, in proper location, and ready for use.

3.02 PREPARATION

A. Clean exposed surfaces prior to installation.

B. Prepare surfaces using approved methods as recommended by manufacturer.

3.03 INSTALLATION

A. Install in accordance with manufacturer's written installation instructions.

B. Comply with installation requirements of IEEE 515.1 and NFPA 70, Article 427.

C. Apply heating cable linearly on pipe with fiberglass tape only after piping has successfully completed any required pressure testing.

D. Comply with applicable local building codes and requirements of authorities having jurisdiction.

E. Identification:

1. After thermal insulation installation, apply external pipeline decals to indicate presence of the thermal insulation cladding at intervals not to exceed 20 ft (6 m) including cladding over each valve or other equipment that may require maintenance.

F. Equipment Wiring: Refer to Section 26 05 19.

3.04 FIELD QUALITY CONTROL

A. Perform start-up by factory technician or factory representative as per Owner's requirements.

B. Field Testing and Inspections:

1. Commission system in accordance with installation and operation manual.
2. Inspect for sources of water entry and proper sealing.
3. Inspect weather barrier to confirm that no sharp edges are contacting the trace heating.
4. Insulation Resistance: Greater than 20 megohms at a test voltage of 2500 VDC for polymer insulated trace heaters.
5. Test heating cable integrity with megohmmeter at the following intervals:
    a. Before installing the cable.
    b. After cable has been installed onto the piping.
    c. After installing the connection kits.
    d. After the installation of thermal insulation onto the piping.
    e. Prior to initial start-up (commissioning).
6. Measure voltage and current at each unit.
7. Controls:
    a. Verify control parameters are set to the application requirements.
    b. Verify factory provided digital temperature controller is correctly configured with the building automation system.
8. Submit written test report showing values measured on each test for each cable.

3.05 PROTECTION

A. Protect installed products from damage until Date of Substantial Completion.

END OF SECTION

LOW-VOLTAGE ELECTRICAL POWER CONDUCTORS AND CABLES

PART 1. GENERAL

1.01 SECTION INCLUDES

A. Wiring connectors.

B. Electrical tape.

C. Wire pulling lubricant.

D. Cable ties.

1.02 RELATED REQUIREMENTS

A. Section 07 84 00 - Firestopping.

1.03 REFERENCE STANDARDS

A. ASTM B3 - Standard Specification for Soft or Annealed Copper Wire; 2013 (Reapproved 2018).

B. ASTM B8 - Standard Specification for Concentric-Lay-Stranded Copper Conductors, Hard, Medium-Hard, or Soft; 2011 (Reapproved 2017).

C. ASTM B33 - Standard Specification for Tin-Coated Soft or Annealed Copper Wire for Electrical Purposes; 2010, with Editorial Revision (2020).

D. ASTM B787/B787M - Standard Specification for 19 Wire Combination Unilay-Stranded Copper Conductors for Subsequent Insulation; 2004 (Reapproved 2020).

E. ASTM D3005 - Standard Specification for Low-Temperature Resistant Vinyl Chloride Plastic Pressure-Sensitive Electrical Insulating Tape; 2017.

F. NECA 1 - Standard for Good Workmanship in Electrical Construction; 2015.

G. NEMA WC 70 - Power Cables Rated 2000 Volts or Less for the Distribution of Electrical Energy; 2021.

H. NFPA 70 - National Electrical Code; Most Recent Edition Adopted by Authority Having Jurisdiction, Including All Applicable Amendments and Supplements.

I. UL 44 - Thermoset-Insulated Wires and Cables; Current Edition, Including All Revisions.

J. UL 83 - Thermoplastic-Insulated Wires and Cables; Current Edition, Including All Revisions.

K. UL 267 - Outline of Investigation for Wire-Pulling Compounds; Current Edition, Including All Revisions.

L. UL 486A-486B - Wire Connectors; Current Edition, Including All Revisions.

M. UL 486C - Splicing Wire Connectors; Current Edition, Including All Revisions.

N. UL 510 - Polyvinyl Chloride, Polyethylene, and Rubber Insulating Tape; Current Edition, Including All Revisions.

PART 2. PRODUCTS

2.01 CONDUCTOR AND CABLE GENERAL REQUIREMENTS

A. Provide products that comply with requirements of NFPA 70.

B. Provide products listed, classified, and labeled as suitable for the purpose intended.

C. Unless specifically indicated to be excluded, provide all required conduit, boxes, wiring, connectors, etc. as required for a complete operating system.

D. Comply with NEMA WC 70.

E. Thermoplastic-Insulated Conductors and Cables: Listed and labeled as complying with UL 83.

F. Thermoset-Insulated Conductors and Cables: Listed and labeled as complying with UL 44.

G. Conductor Material:

1. Copper Conductors: Soft drawn annealed, 98 percent conductivity, uncoated copper conductors complying with ASTM B3, ASTM B8, or ASTM B787/B787M unless otherwise indicated.
2. Tinned Copper Conductors: Comply with ASTM B33.

H. Conductor Color Coding:

1. Color code conductors as indicated unless otherwise required by the authority having jurisdiction. Maintain consistent color coding throughout project.
2. Color Coding Method: Integrally colored insulation.
3. Color Code:

a. Equipment Ground, All Systems: Green.

2.02 WIRING CONNECTORS

A. Description: Wiring connectors appropriate for the application, suitable for use with the conductors to be connected, and listed as complying with UL 486A-486B or UL 486C as applicable.

2.03 ACCESSORIES

A. Electrical Tape:

1. Vinyl Insulating Electrical Tape: Complying with ASTM D3005 and listed as complying with UL 510; minimum thickness of 7 mil (0.18 mm); resistant to abrasion, corrosion, and sunlight; conformable for application down to 0 degrees F (-18 degrees C) and suitable for continuous temperature environment up to 221 degrees F (105 degrees C).

B. Wire Pulling Lubricant:

1. Listed and labeled as complying with UL 267.
2. Suitable for use with conductors/cables and associated insulation/jackets to be installed.
3. Suitable for use at installation temperature.

C. Cable Ties: Material and tensile strength rating suitable for application.

PART 3. EXECUTION

3.01 INSTALLATION

A. Install products in accordance with manufacturer's instructions.

B. Perform work in accordance with NECA 1 (general workmanship).

C. Installation in Raceway:

1. Tape ends of conductors and cables to prevent infiltration of moisture and other contaminants.

2. Pull all conductors and cables together into raceway at same time.
3. Do not damage conductors and cables or exceed manufacturer's recommended maximum pulling tension and sidewall pressure.
4. Use suitable wire pulling lubricant where necessary, except when lubricant is not recommended by the manufacturer.

D. Paralleled Conductors: Install conductors of the same length and terminate in the same manner.

E. Secure and support conductors and cables in accordance with NFPA 70 using suitable supports and methods approved by the authority having jurisdiction. Provide independent support from building structure. Do not provide support from raceways, piping, ductwork, or other systems.

F. Install conductors with a minimum of 12 inches (300 mm) of slack at each outlet.

G. Neatly train and bundle conductors inside boxes, wireways, panelboards and other equipment enclosures.

H. Group or otherwise identify neutral/grounded conductors with associated ungrounded conductors inside enclosures in accordance with NFPA 70.

I. Make wiring connections using specified wiring connectors.

1. Make splices and taps only in accessible boxes. Do not pull splices into raceways or make splices in conduit bodies or wiring gutters.
2. Remove appropriate amount of conductor insulation for making connections without cutting, nicking or damaging conductors.
3. Do not remove conductor strands to facilitate insertion into connector.
4. Clean contact surfaces on conductors and connectors to suitable remove corrosion, oxides, and other contaminates. Do not use wire brush on plated connector surfaces.

J. Insulate splices and taps that are made with uninsulated connectors using methods suitable for the application, with insulation and mechanical strength at least equivalent to unspliced conductors.

K. Insulate ends of spare conductors using vinyl insulating electrical tape.

L. Install firestopping to preserve fire resistance rating of partitions and other elements, using materials and methods specified in Section 07 84 00.

M. Unless specifically indicated to be excluded, provide final connections to all equipment and devices, including those furnished by others, as required for a complete operating system.

END OF SECTION

CONDUIT FOR ELECTRICAL SYSTEMS

PART 1. GENERAL

1.01 SECTION INCLUDES

A. Galvanized steel rigid metal conduit (RMC).

B. Galvanized steel intermediate metal conduit (IMC).

C. Liquidtight flexible metal conduit (LFMC).

D. Galvanized steel electrical metallic tubing (EMT).

1.02 RELATED REQUIREMENTS

A. Section 07 84 00 - Firestopping.

B. Section 26 05 33.16 - Boxes for Electrical Systems.

1.03 REFERENCE STANDARDS

A. ANSI C80.1 - American National Standard for Electrical Rigid Steel Conduit (ERSC); 2020.

B. ANSI C80.3 - American National Standard for Electrical Metallic Tubing -- Steel (EMT-S); 2020.

C. ANSI C80.6 - American National Standard for Electrical Intermediate Metal Conduit; 2018.

D. NECA 1 - Standard for Good Workmanship in Electrical Construction; 2015.

E. NEMA FB 1 - Fittings, Cast Metal Boxes, and Conduit Bodies for Conduit, Electrical Metallic Tubing, and Cable; 2014.

F. NFPA 70 - National Electrical Code; Most Recent Edition Adopted by Authority Having Jurisdiction, Including All Applicable Amendments and Supplements.

G. UL 6 - Electrical Rigid Metal Conduit-Steel; Current Edition, Including All Revisions.

H. UL 360 - Liquid-Tight Flexible Metal Conduit; Current Edition, Including All Revisions.

I. UL 514B - Conduit, Tubing, and Cable Fittings; Current Edition, Including All Revisions.

J. UL 797 - Electrical Metallic Tubing-Steel; Current Edition, Including All Revisions.

K. UL 1242 - Electrical Intermediate Metal Conduit-Steel; Current Edition, Including All Revisions.

L. UL 2419 - Outline of Investigation for Electrically Conductive Corrosion Resistant Compounds; Current Edition, Including All Revisions.

PART 2. PRODUCTS

2.01 CONDUIT APPLICATIONS

A. Do not use conduit and associated fittings for applications other than as permitted by NFPA 70, manufacturer's instructions, and product listing.

B. Unless otherwise indicated and where not otherwise restricted, use conduit types indicated for specified applications. Where more than one listed application applies, comply with most restrictive requirements. Where conduit type for particular application is not specified, use galvanized steel rigid metal conduit.

C. Interior, Damp or Wet Locations: Use galvanized steel rigid metal conduit (RMC) or galvanized steel intermediate metal conduit (IMC).

D. Exposed, Interior, Not Subject to Physical Damage: Use galvanized steel rigid metal conduit (RMC), galvanized steel intermediate metal conduit (IMC), or galvanized steel electrical metallic tubing (EMT).

E. Exposed, Interior, Subject to Physical Damage: Use galvanized steel rigid metal conduit (RMC) or galvanized steel intermediate metal conduit (IMC).

F. Exposed, Exterior: Use galvanized steel rigid metal conduit (RMC).

2.02 CONDUIT - GENERAL REQUIREMENTS

A. Comply with NFPA 70.

B. Existing Work: Where existing conduits are indicated to be reused, they may be reused only where they comply with specified requirements, are free from corrosion, and integrity is verified by pulling mandrel through them.

C. Provide conduit, fittings, supports, and accessories required for complete raceway system.

D. Provide products listed, classified, and labeled as suitable for purpose intended.

E. Minimum Conduit Size, Unless Otherwise Indicated:

1. Feeders and Branch Circuits: 3/4-inch (21 mm) trade size.

F. Where conduit size is not indicated, size to comply with NFPA 70 but not less than applicable minimum size requirements specified.

2.03 GALVANIZED STEEL RIGID METAL CONDUIT (RMC)

A. Description: NFPA 70, Type RMC galvanized steel rigid metal conduit complying with ANSI C80.1 and listed and labeled as complying with UL 6.

B. Fittings:

1. Nonhazardous Locations: Use fittings complying with NEMA FB 1 and listed and labeled as complying with UL 514B or UL 6.
2. Material: Use steel.
3. Connectors and Couplings: Use threaded type fittings only. Threadless fittings, including set screw and compression/gland types, are not permitted.

2.04 GALVANIZED STEEL INTERMEDIATE METAL CONDUIT (IMC)

A. Description: NFPA 70, Type IMC galvanized steel intermediate metal conduit complying with ANSI C80.6 and listed and labeled as complying with UL 1242.

B. Fittings:

1. Nonhazardous Locations: Use fittings complying with NEMA FB 1 and listed and labeled as complying with UL 514B or UL 1242.
2. Material: Use steel.
3. Connectors and Couplings: Use threaded type fittings only. Threadless fittings, including set screw and compression/gland types, are not permitted.

2.05 LIQUIDTIGHT FLEXIBLE METAL CONDUIT (LFMC)

A. Description: NFPA 70, Type LFMC polyvinyl chloride (PVC) jacketed steel flexible metal conduit listed and labeled as complying with UL 360.

B. Fittings:

1. Description: Fittings complying with NEMA FB 1 and listed and labeled as complying with UL 514B.
2. Material: Use steel or malleable iron.

2.06 GALVANIZED STEEL ELECTRICAL METALLIC TUBING (EMT)

A. Description: NFPA 70, Type EMT galvanized steel electrical metallic tubing complying with ANSI C80.3 and listed and labeled as complying with UL 797.

B. Fittings:

1. Description: Fittings complying with NEMA FB 1 and listed and labeled as complying with UL 514B.
2. Material: Use steel.
3. Connectors and Couplings: Use compression/gland or set-screw type.
    a. Do not use indenter type connectors and couplings.

2.07 ACCESSORIES

A. Conduit Joint Compound: Corrosion-resistant, electrically conductive compound listed as complying with UL 2419; suitable for use with conduit to be installed.

B. Pull Strings: Use nylon or polyester tape with average breaking strength of not less than 1,250 lbf (5.6 kN).

PART 3. EXECUTION

3.01 EXAMINATION

A. Verify that field measurements are as indicated.

B. Verify that mounting surfaces are ready to receive conduits.

C. Verify that conditions are satisfactory for installation prior to starting work.

3.02 INSTALLATION

A. Install products in accordance with manufacturer's instructions.

B. Install conduit in accordance with NECA 1.

C. Conduit Routing:

1. Arrange conduit to maintain adequate headroom, clearances, and access.
2. Arrange conduit to provide no more than equivalent of three 90-degree bends between pull points.
3. Route conduits above water and drain piping where possible.
4. Maintain minimum clearance of 6 inches (150 mm) between conduits and piping for other systems.

D. Conduit Support:

1. Secure and support conduits in accordance with NFPA 70 using suitable supports and methods approved by authorities having jurisdiction.
2. Provide independent support from building structure. Do not provide support from piping, ductwork, or other systems.
3. Use conduit strap to support single surface-mounted conduit.
    a. Use clamp back spacer with conduit strap for damp and wet locations to provide space between conduit and mounting surface.
4. Use metal channel/strut with accessory conduit clamps to support multiple parallel surface-mounted conduits.

5. Use conduit clamp to support single conduit from beam clamp or threaded rod.
6. Use trapeze hangers assembled from threaded rods and metal channel/strut with accessory conduit clamps to support multiple parallel suspended conduits.
7. Use of spring steel conduit clips for support of conduits is not permitted.

E. Connections and Terminations:

1. Use approved zinc-rich paint or conduit joint compound on field-cut threads of galvanized steel conduits prior to making connections.
2. Where two threaded conduits must be joined and neither can be rotated, use three-piece couplings or split couplings. Do not use running threads.
3. Use suitable adapters where required to transition from one type of conduit to another.
4. Provide drip loops for liquidtight flexible conduit connections to prevent drainage of liquid into connectors.
5. Terminate threaded conduits in boxes and enclosures using threaded hubs or double lock nuts for dry locations and raintight hubs for wet locations.
6. Provide insulating bushings, insulated throats, or listed metal fittings with smooth, rounded edges at conduit terminations to protect conductors.
7. Secure joints and connections to provide mechanical strength and electrical continuity.

F. Penetrations:

1. Do not penetrate or otherwise notch or cut structural members, including footings and grade beams, without approval of Structural Engineer.
2. Make penetrations perpendicular to surfaces unless otherwise indicated.
3. Conceal bends for conduit risers emerging above ground.
4. Where conduits penetrate waterproof membrane, seal as required to maintain integrity of membrane.
5. Install firestopping to preserve fire resistance rating of partitions and other elements; see Section 07 84 00.

G. Conduit Movement Provisions: Where conduits are subject to movement, provide expansion and expansion/deflection fittings to prevent damage to enclosed conductors or connected equipment. This includes, but is not limited to:

1. Where conduits cross structural joints intended for expansion, contraction, or deflection.

H. Conduit Sealing:

1. Where conduits cross barriers between areas of potential substantial temperature differential, use removable duct seal at accessible point near penetration to prevent condensation. This includes, but is not limited to:

a. Where conduits pass from outdoors into conditioned interior spaces.
b. Where conduits pass from unconditioned interior spaces into conditioned interior spaces.

I. Provide pull string in each empty conduit and in conduits where conductors and cables are to be installed by others. Leave minimum slack of 12 inches (300 mm) at each end.

J. Provide grounding and bonding in accordance with locally adopted codes and amendments.

3.03 FIELD QUALITY CONTROL

A. Repair cuts and abrasions in galvanized finishes using zinc-rich paint recommended by manufacturer. Replace components that exhibit signs of corrosion.

B. Correct deficiencies and replace damaged or defective conduits.

3.04 CLEANING

A. Clean interior of conduits to remove moisture and foreign matter.

3.05 PROTECTION

A. Immediately after installation of conduit, use suitable manufactured plugs to provide protection from entry of moisture and foreign material and do not remove until ready for installation of conductors.

END OF SECTION

BOXES FOR ELECTRICAL SYSTEMS

PART 1. GENERAL

1.01 SECTION INCLUDES

A. Outlet and device boxes up to 100 cubic inches (1,650 cu cm), including those used as junction and pull boxes.

B. Cabinets and enclosures, including junction and pull boxes larger than 100 cubic inches (1,650 cu cm).

C. Boxes and enclosures for integrated power, data, and audio/video.

D. Underground boxes/enclosures.

E. Accessories.

1.02 RELATED REQUIREMENTS

A. Section 03 30 00 - Cast-in-Place Concrete.

1.03 REFERENCE STANDARDS

A. NECA 1 - Standard for Good Workmanship in Electrical Construction; 2015.

B. NECA 130 - Standard for Installing and Maintaining Wiring Devices; 2016.

C. NEMA 250 - Enclosures for Electrical Equipment (1000 Volts Maximum); 2020.

D. NEMA FB 1 - Fittings, Cast Metal Boxes, and Conduit Bodies for Conduit, Electrical Metallic Tubing, and Cable; 2014.

E. NEMA OS 1 - Sheet-Steel Outlet Boxes, Device Boxes, Covers, and Box Supports; 2013 (Reaffirmed 2020).

F. NFPA 70 - National Electrical Code; Most Recent Edition Adopted by Authority Having Jurisdiction, Including All Applicable Amendments and Supplements.

G. SCTE 77 - Specifications for Underground Enclosure Integrity; 2017.

H. UL 50 - Enclosures for Electrical Equipment, Non-Environmental Considerations; Current Edition, Including All Revisions.

I. UL 50E - Enclosures for Electrical Equipment, Environmental Considerations; Current Edition, Including All Revisions.

J. UL 508A - Industrial Control Panels; Current Edition, Including All Revisions.

K. UL 514A - Metallic Outlet Boxes; Current Edition, Including All Revisions.

1.04 ADMINISTRATIVE REQUIREMENTS

A. Coordination:

1. Coordinate the work with other trades to avoid placement of ductwork, piping, equipment, or other potential obstructions within the dedicated equipment spaces and working clearances for electrical equipment required by NFPA 70.
2. Coordinate arrangement of electrical equipment with the dimensions and clearance requirements of the actual equipment to be installed.
3. Coordinate minimum sizes of boxes with the actual installed arrangement of conductors, clamps, support fittings, and devices, calculated according to NFPA 70.
4. Coordinate minimum sizes of pull boxes with the actual installed arrangement of connected conduits, calculated according to NFPA 70.

5. Coordinate the placement of boxes with millwork, furniture, devices, equipment, etc. installed under other sections or by others.
6. Coordinate the work with other trades to preserve insulation integrity.
7. Coordinate the work with other trades to provide walls suitable for installation of flush-mounted boxes where indicated.
8. Notify Architect of any conflicts with or deviations from Contract Documents. Obtain direction before proceeding with work.

1.05 SUBMITTALS

A. See Section 01300 - Administrative Requirements, for submittal procedures.

B. Product Data: Provide manufacturer's standard catalog pages and data sheets for .

C. Project Record Documents: Record actual locations for outlet and device boxes, pull boxes, cabinets and enclosures, floor boxes, and underground boxes/enclosures.

D. Maintenance Materials: Furnish the following for Owner's use in maintenance of project.

1. See Section 01600 - Product Requirements, for additional provisions.
2. Keys for Lockable Enclosures: Two of each different key.

1.06 QUALITY ASSURANCE

A. Comply with requirements of NFPA 70.

B. Maintain at the project site a copy of each referenced document that prescribes execution requirements.

C. Product Listing Organization Qualifications: An organization recognized by OSHA as a Nationally Recognized Testing Laboratory (NRTL) and acceptable to authorities having jurisdiction.

1.07 DELIVERY, STORAGE, AND HANDLING

A. Receive, inspect, handle, and store products in accordance with manufacturer's instructions.

PART 2. PRODUCTS

2.01 BOXES

A. General Requirements:

1. Do not use boxes and associated accessories for applications other than as permitted by NFPA 70 and product listing.
2. Provide all boxes, fittings, supports, and accessories required for a complete raceway system and to accommodate devices and equipment to be installed.
3. Provide products listed, classified, and labeled as suitable for the purpose intended.
4. Where box size is not indicated, size to comply with NFPA 70 but not less than applicable minimum size requirements specified.
5. Provide grounding terminals within boxes where equipment grounding conductors terminate.

B. Outlet and Device Boxes Up to 100 cubic inches (1,650 cu cm), Including Those Used as Junction and Pull Boxes:

1. Use sheet-steel boxes for dry locations unless otherwise indicated or required.
2. Use cast iron boxes or cast aluminum boxes for damp or wet locations unless otherwise indicated or required; furnish with compatible weatherproof gasketed covers.

3. Use cast iron boxes or cast aluminum boxes where exposed galvanized steel rigid metal conduit or exposed intermediate metal conduit (IMC) is used.
4. Use cast aluminum boxes where aluminum rigid metal conduit is used.
5. Use suitable concrete type boxes where flush-mounted in concrete.
6. Use suitable masonry type boxes where flush-mounted in masonry walls.
7. Use raised covers suitable for the type of wall construction and device configuration where required.
8. Use shallow boxes where required by the type of wall construction.
9. Do not use "through-wall" boxes designed for access from both sides of wall.
10. Sheet-Steel Boxes: Comply with NEMA OS 1, and list and label as complying with UL 514A.
11. Cast Metal Boxes: Comply with NEMA FB 1, and list and label as complying with UL 514A; furnish with threaded hubs.
12. Boxes for Supporting Luminaires and Ceiling Fans: Listed as suitable for the type and weight of load to be supported; furnished with fixture stud to accommodate mounting of luminaire where required.
13. Boxes for Ganged Devices: Use multigang boxes of single-piece construction. Do not use field-connected gangable boxes unless specifically indicated or permitted.
14. Wall Plates: Wall Plates: Use stainless steel or cast metal gasketed weatherproof wall plates rated for the installed environment.
15. Manufacturers:
    a. Cooper Crouse-Hinds, a division of Eaton Corporation : www.cooperindustries.com/#sle.
    b. Hubbell Incorporated; Bell Products: www.hubbell-rtb.com/#sle.
    c. Hubbell Incorporated; RACO Products: www.hubbell-rtb.com/#sle.
    d. O-Z/Gedney, a brand of Emerson Electric Co: www.emerson.com/#sle.
    e. Thomas & Betts Corporation: www.tnb.com/#sle.

C. Cabinets and Enclosures, Including Junction and Pull Boxes Larger Than 100 cubic inches (1,650 cu cm):

1. Comply with NEMA 250, and list and label as complying with UL 50 and UL 50E, or UL 508A.
2. NEMA 250 Environment Type, Unless Otherwise Indicated:
3. Junction and Pull Boxes Larger Than 100 cubic inches (1,650 cu cm):
    a. Provide screw-cover or hinged-cover enclosures unless otherwise indicated.
    b. Boxes 6 square feet (0.56 sq m) and Larger: Provide sectionalized screw-cover or hinged-cover enclosures.
4. Cabinets and Hinged-Cover Enclosures, Other Than Junction and Pull Boxes:
    a. Provide lockable hinged covers, all locks keyed alike unless otherwise indicated.
    b. Back Panels: Painted steel, removable.
    c. Terminal Blocks: Provide voltage/current ratings and terminal quantity suitable for purpose indicated, with 25 percent spare terminal capacity.
5. Finish for Painted Steel Enclosures: Manufacturer's standard grey unless otherwise indicated.
6. Manufacturers:
    a. Hoffman, a brand of Pentair Technical Products : www.hoffmanonline.com/#sle.
    b. Hubbell Incorporated; Wiegmann Products: www.hubbell-wiegmann.com/#sle.

c. Substitutions: See Section 016000 - Product Requirements.

D. Underground Boxes/Enclosures:

1. Description: In-ground, open bottom boxes furnished with flush, non-skid covers with legend indicating type of service and stainless steel tamper resistant cover bolts.
2. Size: As indicated on drawings.
3. Depth: As required to extend below frost line to prevent frost upheaval, but not less than 12 inches (300 mm).
4. Provide logo on cover to indicate type of service.
5. Applications:

a. Do not use polymer concrete enclosures in areas subject to deliberate vehicular traffic.

PART 3. EXECUTION

3.01 EXAMINATION

A. Verify that field measurements are as indicated.

B. Verify that mounting surfaces are ready to receive boxes.

C. Verify that conditions are satisfactory for installation prior to starting work.

3.02 INSTALLATION

A. Install products in accordance with manufacturer's instructions.

B. Install boxes in accordance with NECA 1 (general workmanship) and, where applicable, NECA 130, including mounting heights specified in those standards where mounting heights are not indicated.

C. Arrange equipment to provide minimum clearances in accordance with manufacturer's instructions and NFPA 70.

D. Provide separate boxes for emergency power and normal power systems.

E. Unless otherwise indicated, provide separate boxes for line voltage and low voltage systems.

F. Flush-mount boxes in finished areas unless specifically indicated to be surface-mounted.

G. Unless otherwise indicated, boxes may be surface-mounted where exposed conduits are indicated or permitted.

H. Box Locations:

1. Locate boxes to be accessible. Provide access panels in as required where approved by the Architect.
2. Unless dimensioned, box locations indicated are approximate.
3. Locate boxes as required for devices installed under other sections or by others.
4. Locate boxes so that wall plates do not cross masonry joints.
5. Unless otherwise indicated, where multiple outlet boxes are installed at the same location at different mounting heights, install along a common vertical center line.
6. Do not install flush-mounted boxes on opposite sides of walls back-to-back. Provide minimum 6 inches (150 mm) horizontal separation unless otherwise indicated.
7. Fire Resistance Rated Walls: Install flush-mounted boxes such that the required fire resistance will not be reduced.

a. Do not install flush-mounted boxes on opposite sides of walls back-to-back; provide minimum 24 inches (610 mm) separation where wall is constructed with individual noncommunicating stud cavities or protect both boxes with listed putty pads.

8. Locate junction and pull boxes in the following areas, unless otherwise indicated or approved by the Architect:

a. Concealed above accessible suspended ceilings.
b. Within joists in areas with no ceiling.
c. Mechanical equipment rooms.

I. Box Supports:

1. Secure and support boxes in accordance with NFPA 70 using suitable supports and methods approved by the authority having jurisdiction.
2. Provide independent support from building structure except for cast metal boxes (other than boxes used for fixture support) supported by threaded conduit connections in accordance with NFPA 70. Do not provide support from piping, ductwork, or other systems.
3. Installation Above Suspended Ceilings: Do not provide support from ceiling grid or ceiling support system.
4. Use far-side support to secure flush-mounted boxes supported from single stud in hollow stud walls. Repair or replace supports for boxes that permit excessive movement.

J. Install boxes plumb and level.

K. Flush-Mounted Boxes:

1. Install boxes in noncombustible materials such as concrete, tile, gypsum, plaster, etc. so that front edge of box or associated raised cover is not set back from finished surface more than 1/4 inch (6 mm) or does not project beyond finished surface.
2. Install boxes in combustible materials such as wood so that front edge of box or associated raised cover is flush with finished surface.
3. Repair rough openings around boxes in noncombustible materials such as concrete, tile, gypsum, plaster, etc. so that there are no gaps or open spaces greater than 1/8 inch (3 mm) at the edge of the box.

L. Install boxes as required to preserve insulation integrity.

M. Underground Boxes/Enclosures:

1. Install enclosure on gravel base, minimum 6 inches (150 mm) deep.
2. Flush-mount enclosures located in concrete or paved areas.
3. Mount enclosures located in landscaped areas with top at 1 inch (25 mm) above finished grade.
4. Provide cast-in-place concrete collar constructed in accordance with Section 033000, minimum 10 inches wide by 12 inches deep (250 mm wide by 300 mm deep), around enclosures that are not located in concrete areas.
5. Install additional bracing inside enclosures in accordance with manufacturer's instructions to minimize box sidewall deflections during backfilling. Backfill with cover bolted in place.

N. Install permanent barrier between ganged wiring devices when voltage between adjacent devices exceeds 300 V.

O. Install firestopping to preserve fire resistance rating of partitions and other elements, using materials and methods specified in Section 078400.

P. Close unused box openings.

Q. Install blank wall plates on junction boxes and on outlet boxes with no devices or equipment installed or designated for future use.

R. Provide grounding and bonding in accordance with locally adopted codes and amendments

3.03 CLEANING

A. Clean interior of boxes to remove dirt, debris, plaster and other foreign material.

3.04 PROTECTION

A. Immediately after installation, protect boxes from entry of moisture and foreign material until ready for installation of conductors.

END OF SECTION

EXTERIOR LIGHTING

PART 1. GENERAL

1.01 SECTION INCLUDES

A. Exterior luminaires.

1.02 REFERENCE STANDARDS

A. IEEE C2 - National Electrical Safety Code(R) (NESC(R)); 2023.

B. IES LM-79 - Approved Method: Optical and Electrical Measurements of Solid-State Lighting Products; 2019.

C. IES LM-80 - Approved Method: Measuring Maintenance of Light Output Characteristics of Solid-State Light Sources; 2021.

D. NECA 1 - Standard for Good Workmanship in Electrical Construction; 2015.

E. NECA/IESNA 501 - Standard for Installing Exterior Lighting Systems; 2000 (Reaffirmed 2006).

F. NFPA 70 - National Electrical Code; Most Recent Edition Adopted by Authority Having Jurisdiction, Including All Applicable Amendments and Supplements.

G. UL 1598 - Luminaires; Current Edition, Including All Revisions.

H. UL 1598C - Light-Emitting Diode (LED) Retrofit Luminaire Conversion Kits; Current Edition, Including All Revisions.

I. UL 8750 - Light Emitting Diode (LED) Equipment for Use in Lighting Products; Current Edition, Including All Revisions.

1.03 SUBMITTALS

A. See Section 01300 - Administrative Requirements, for submittal procedures.

B. Shop Drawings:

1. Provide photometric calculations where luminaires are proposed for substitution upon request.

C. Product Data: Provide manufacturer's standard catalog pages and data sheets including detailed information on luminaire construction, dimensions, ratings, finishes, mounting requirements, listings, service conditions, photometric performance, weight, effective projected area (EPA), and installed accessories; include model number nomenclature clearly marked with all proposed features.

1. LED Luminaires:

a. Include estimated useful life, calculated based on IES LM-80 test data.

1.04 QUALITY ASSURANCE

A. Comply with requirements of NFPA 70.

1.05 DELIVERY, STORAGE, AND HANDLING

A. Receive, handle, and store products according to NECA/IESNA 501 and manufacturer's written instructions.

B. Keep products in original manufacturer's packaging and protect from damage until ready for installation.

PART 2. PRODUCTS

2.01 LUMINAIRE TYPES

A. Furnish products as indicated in luminaire schedule included on the drawings.

B. Substitutions: See Section 01600 - Product Requirements.

2.02 LUMINAIRES

A. Provide products that comply with requirements of NFPA 70.

B. Provide products that are listed and labeled as complying with UL 1598, where applicable.

C. Provide products listed, classified, and labeled as suitable for the purpose intended.

D. Unless otherwise indicated, provide complete luminaires including lamp(s) and all sockets, ballasts, reflectors, lenses, housings and other components required to position, energize and protect the lamp and distribute the light.

E. Unless specifically indicated to be excluded, provide all required conduit, boxes, wiring, connectors, hardware, poles, foundations, supports, trims, accessories, etc. as necessary for a complete operating system.

F. Provide products suitable to withstand normal handling, installation, and service without any damage, distortion, corrosion, fading, discoloring, etc.

G. LED Luminaires:

1. Components: UL 8750 recognized or listed as applicable.
2. Tested in accordance with IES LM-79 and IES LM-80.
3. LED Estimated Useful Life: Minimum of 50,000 hours at 70 percent lumen maintenance, calculated based on IES LM-80 test data.

PART 3. EXECUTION

3.01 EXAMINATION

A. Verify that field measurements are as indicated.

B. Verify that outlet boxes are installed in proper locations and at proper mounting heights and are properly sized to accommodate conductors in accordance with NFPA 70.

C. Verify that suitable support frames are installed where required.

D. Verify that branch circuit wiring installation is completed, tested, and ready for connection to luminaires.

E. Verify that conditions are satisfactory for installation prior to starting work.

3.02 PREPARATION

A. Provide extension rings to bring outlet boxes flush with finished surface.

B. Clean dirt, debris, plaster, and other foreign materials from outlet boxes.

3.03 INSTALLATION

A. Coordinate locations of outlet boxes provided under Section 260533.16 as required for installation of luminaires provided under this section.

B. Perform work in accordance with NECA 1 (general workmanship).

C. Install products in accordance with manufacturer's instructions.

D. Install luminaires in accordance with NECA/IESNA 501.

E. Provide required support and attachment in accordance with manufacturer's installation instructions.

F. Install luminaires plumb and square and aligned with building lines and with adjacent luminaires.

G. Wall-Mounted Luminaires: Unless otherwise indicated, specified mounting heights are to center of luminaire.

H. Install accessories furnished with each luminaire.

I. Bond products and metal accessories to branch circuit equipment grounding conductor.

J. Install lamps in each luminaire.

3.04 FIELD QUALITY CONTROL

A. Inspect each product for damage and defects.

B. Operate each luminaire after installation and connection to verify proper operation.

C. Correct wiring deficiencies and repair or replace damaged or defective products. Repair or replace excessively noisy ballasts as determined by Architect.

3.05 CLEANING

A. Clean surfaces according to NECA/IESNA 501 and manufacturer's instructions to remove dirt, fingerprints, paint, or other foreign material and restore finishes to match original factory finish.

3.06 CLOSEOUT ACTIVITIES

A. Demonstration: Demonstrate proper operation of luminaires to Architect, and correct deficiencies or make adjustments as directed.

3.07 PROTECTION

A. Protect installed luminaires from subsequent construction operations.

3.08 ATTACHMENTS

A. Luminaire schedule.

END OF SECTION

REFERENCE SPECIFICATION

PART 1. GENERAL

1.01 NOTIFICATIONS OF POTENTIAL HAZARDS

A. Notification of Potential Hazards: Asbestos, lead and other potentially hazardous materials are present in the building that may impact the work of all trades. Regulated air contaminates, including asbestos and lead are also present in the settled and concealed dust in and on architectural, structural, mechanical, and electrical components and systems throughout the building. All trades shall coordinate with other trades and conduct their work to prevent worker exposure or site. Refer to Divisions 0, 1 and 2 for specific information concerning disturbing, removing, and disposing of these materials and the installation of new materials or components. This notification is provided in accordance with the EPA and OSHA requirements.

B. Notification of Child Occupied Facility: Portions of this building are classified as a Child Occupied Facility in accordance with 40 CFR 745 and lead-based paints may be present on components to be disturbed in those areas. Personnel performing work in these areas must comply with the requirements of 40 CFR 745, including training, work practices and cleaning of the work area. Refer to Specification Divisions 0, 1 and 2 for specific information concerning disturbing, removing, and disposing of lead materials and the installation of new materials or components. This notification is provided in accordance with the EPA and OSHA requirements.

1.02 SUMMARY

A. This Section includes the following:

1. Incorporation of reference specifications as indicated for exterior improvements.
2. Nothing in this Section shall take precedence over or nullify requirements of the other specification divisions.

1.03 REFERENCED SPECIFICATIONS

A. This contract is subject to and hereby incorporates by reference the following documents as though physically contained herein:

1. The most current version of the Municipality of Anchorage Standard Specifications, hereinafter referred to as MASS as enumerated below, with modifications as contained herein.

B. When conflicts exist between MASS and other referenced documents, the requirements of MASS and the modifications (special provisions) contained herein shall govern.

C. When conflict exists between MASS and the Project Specifications, the Project Specifications shall govern.

D. Where an item of work is not addressed by the Project Specifications, but is addressed by MASS, then that item of work shall be in accordance with MASS, regardless of whether or not the MASS Section of relevance is specifically enumerated herein.

E. The incorporated reference documents are available from the following sources. Contact the listed source for current document fees.

1. MASS: Municipality of Anchorage (MOA) Project Management & Engineering Division, 4700 Elmore Road, Anchorage, Alaska, 99519 or http://www.muni.org/Departments/project_management/Pages/MASS.aspx.

1.04 REFERENCED MASS SPECIFICATIONS

A. DIVISION 10 - STANDARD GENERAL PROVISIONS

Section 10.01 Definitions
Section 10.04 Scope of Work

Article 4.7 Reference Stakes and Surveying
Article 4.9 Disposal Sites
Article 4.10 Protection of Persons and Property
Article 4.14 Maintenance and Drainage
Article 4.15 Temporary Erosion Control and Storm Water Pollution Prevention Plans for Construction
Article 4.17 Utilities

Section 10.05 Control of Work

Article 5.8 Testing of Materials
Article 5.12 Safeguarding of Excavations
Article 5.13 Duties of Inspector
Article 5.14 Inspection
Article 5.25 Final Trimming of Work

B. DIVISION 20 - EARTHWORK

Section 20.01 General
Section 20.02 Storm Water Pollution Prevention Plan
Section 20.04 Clearing and Grubbing
Section 20.07 Removal of Sidewalk and Concrete Apron
Section 20.09 Removal of Pavement
Section 20.13 Trench Excavation and Backfill
Section 20.16 Furnish Bedding Material
Section 20.21 Classified Fill and Backfill
Section 20.22 Leveling Course
Section 20.24 Riprap
Section 20.25 Geotextile Fabric
Section 20.26 Insulation
Section 20.27 Disposal of Unsuitable or Surplus Material

C. DIVISION 40 – ASPHALT SURFACING

Section 40.01 General
Section 40.04 Tack Coat
Section 40.06 Asphalt Concrete Pavement
Section 40.08 Recycled Asphalt Paving (RAP)

D. DIVISION 55 – STORM DRAIN SYSTEMS

Section 55.01 General

Section 55.02 Furnish and Install Pipe
Section 55.04 Connections to Existing Manholes or Catch Basins
Section 55.20 Culvert

E. DIVISION 65 - CONSTRUCTION SURVEYING

Section 65.01 General
Section 65.02 Construction Surveying

F. DIVISION 70 –MISCELLANEOUS

Section 70.13 Bollards

G. DIVISION 75 – LANDSCAPING IMPROVEMENTS

Section 75.01 General
Section 75.02 Landscaping
Section 75.03 Topsoil
Section 75.04 Seeding

1.05 MODIFICATIONS AND / OR ADDITIONS TO THE MASS

A. The following modifications and / or additions to the MASS take precedence over the Standard Specifications contained within MASS. These modifications and / or additions do not delete the referenced sections of the MASS unless specifically stated as a deletion.

B. ALL MASS DIVISIONS AND SECTIONS

1. All references to “Municipality of Anchorage” or “Municipality” throughout the MASS shall mean “Owner.”
2. Delete all articles of the MASS addressing “Measurement” and “Basis of Payment.” Measurement and payment shall be as specified in Division 0 of the General Provisions.
3. Replace all references to staking or surveys by the Owner or Engineer with an equivalent reference to completion by the Contractor.
4. The Contractor shall submit for review copies of the complete Product Data for all Contractor Furnished Items to be provided including specific performance data, material description, grade, gradation, source, rating, capacity, working pressure, material gage or thickness, brand name, catalog number, and operating and maintenance date in accordance with the procedures of Division 1 Section “Submittals”.
5. Replace all references to materials testing by the Engineer with an equivalent reference to material testing by the Contractor. The Contractor shall be responsible for all materials testing and quality control in accordance with Division 1 Section 01410 “Testing Laboratory”, Section 01400 “Quality Control” and individual specification sections.

C. DIVISION 10 STANDARD GENERAL PROVISIONS

SECTION 10.04 SCOPE OF WORK

Article 4.17 UTILITIES
Add the following sentence to the end of the seventh paragraph:
Utility locates are the responsibility of the Contractor to request, coordinate with the Work, maintain, and protect.

SECTION 10.05 CONTROL OF WORK

Article 5.8 Testing of Materials
Delete the 2nd sentence and replace with the following:
When tests of materials are required on site, such tests shall be provided by and at the expense of the Contractor.

D. DIVISION 20 STANDARD CONSTRUCTION SPECIFICATIONS FOR EARTHWORK

SECTION 20.01 GENERAL

Article 1.3 Applicable Standards
Add the following reference:
ASTM D 1557 - Standard Test Methods for Laboratory Compaction Characteristics of Soil Using Modified Effort
ASTM D 4833 - Standard Test Method for Index Puncture Resistance of Geomembranes and Related Products

E. DIVISION 55 – STORM DRAIN SYSTEMSTANDARD GENERAL PROVISIONS

SECTION 55.02 FURNISH AND INSTALL PIPE

Article 2.2D CORRUGATED POLYETHYLENE PIPE (CPEP)
Add the following sentence after the fifth paragraph:
Daylight storm drains shall include an animal screen/guard to prevent a plugged storm drain system. Animal guard shall be Agri-Drain Rat Guard or approved equal.

PART 2. PRODUCTS – (NOT APPLICABLE)

PART 3. EXECUTION – (NOT APPLICABLE)

END OF SECTION

MATERIALS TESTING SCHEDULE

PART 1. GENERAL

1.01 NOTIFICATION OF POTENTIAL HAZARDS

A. Notification of Potential Hazards: Asbestos, lead and other potentially hazardous materials are present in the building that may impact the work of all trades. Regulated air contaminates, including asbestos and lead are also present in the settled and concealed dust in and on architectural, structural, mechanical, and electrical components and systems throughout the building. All trades shall coordinate with other trades and conduct their work to prevent worker exposure or site. Refer to Divisions 0, 1 and 2 for specific information concerning disturbing, removing, and disposing of these materials and the installation of new materials or components. This notification is provided in accordance with the EPA and OSHA requirements.

B. Notification of Child Occupied Facility: Portions of this building are classified as a Child Occupied Facility in accordance with 40 CFR 745 and lead-based paints may be present on components to be disturbed in those areas. Personnel performing work in these areas must comply with the requirements of 40 CFR 745, including training, work practices and cleaning of the work area. Refer to Specification Divisions 0, 1 and 2 for specific information concerning disturbing, removing, and disposing of lead materials and the installation of new materials or components. This notification is provided in accordance with the EPA and OSHA requirements.

1.02 SUMMARY

A. This Section specifies general testing requirements and the minimum required frequency of material testing to be performed by the Contractor for work conducted under Division 32 Exterior Improvements.

B. Nothing in this Section shall take precedence over or nullify requirements of the other specification divisions. Testing methods and additional testing requirements are specified in the individual Specification Sections, and in MASS Sections 10.05 “Control of Work.” Where testing method is not specifically given, testing shall comply with current ASTM or AASHTO standards as directed by the Project Manager.

C. Related Sections include the following:

1. MASS Section 10.05 “Control of Work” for submittal and substitution procedures, as well as the requirements for testing of material.
2. MASS Division 20 “Earthwork” and related Special Provisions for related earthwork and material requirements.
3. MASS Division 40 “Asphalt Surfacing” and related Special Provisions for related paving and material requirements.

1.03 SUBMITTALS

A. Submit test results daily, or as required to obtain approval of the work prior to continuing operations. The Contractor shall rework or otherwise demonstrate contract compliance at the Engineer’s request for any portion of work for which the Contractor fails to obtain material testing or fails to obtain approval on submitted results prior to covering or obscuring the work.

B. Test results shall be submitted on testing laboratory’s standard forms.

PART 2 - PRODUCTS – (NOT APPLICABLE)

PART 3 – EXECUTION

3.01 TESTING

A. Contractor shall employ and pay for the services of an Independent Testing Laboratory in accordance with MASS Section 10.05 “Control of Work.”

1. Contractor is responsible for all costs incurred with retests, reinspection, and replacement of non-conforming work.

B. Contractor shall notify ASD Project Manager prior to required material testing and ensure laboratory is present for and completes required testing in a timely manner consistentwith the Contractors schedule and progress, to ensure that mandatory testing does not delay construction.

3.02 FREQUENCY

A. Material testing frequency shall be as specified in Table A of this Section.

B. The minimum number of field density tests required in the table shall be for an area that is compacted in one continuous operation. Areas compacted separately or at different times shall be tested individually.

C. Ensure that work is tested promptly. Any work that does not test acceptably shall be corrected promptly. Do not proceed or cover any work that does not test acceptably until the work is corrected and retested to the satisfaction of the Engineer.

TABLE A						
MATERIAL	**MASS REFERENCE**	**TYPE OF TEST**	**SAMPLE FREQUENCY**	**SAMPLING POINT**	**REPORT DUE**	**REMARKS**
Classified Fill and Backfill (e.g., Type II, Usable Excavation)	20.21	Gradation	1 per material type and notable change in characteristic	Prior to placement	Before use on Project	
		Moisture Density (Proctor)	1 per source, and as required by material changes			
		Field Compaction / Density / Moisture Content	1 per trench section 1 per 2,000 square feet all other	In place	Prior to next lift	Testing frequency is for each lift
		Analysis	1 per project			
Leveling Course	20.22	Gradation and Fracture	1 per material type and notable change in characteristics	Prior to placement	Before use on project	
		Moisture Density (Proctor)				
		Field Compaction / Density / Moisture Content	1 per 2,000 square feet	In place	Prior to next lift	
In Situ Material	20.11	Field Compaction / Density / Moisture Content	1 per area of a maximum of 2,000 sf until density stabilizes	During compaction	Report within 24hrs Verbal at time of test or observation	Perform roller pattern on in situ material. Continue compaction until no density increase is observed. For small hand compacted area alternate plan may be developed with Owner

TABLE A						
MATERIAL	**MASS REFERENCE**	**TYPE OF TEST**	**SAMPLE FREQUENCY**	**SAMPLING POINT**	**REPORT DUE**	**REMARKS**
Asphalt Cement Paving	40.06	Gradation	1 per placement, per day and every 700 tons thereafter	Behind paver and prior to compaction	Report within 24hrs Verbal at time of test or observation	
		Content				
		Compaction/Density	1 per 3,000 square feet	After final roll		
		Visual	Observe and document depth, aggregate size, voids in aggregate, oil pooling, etc. Verify batch ticket mix design and project	During placement		
Topsoil	75.03	Gradation / Organic Content	1 per project	Prior to placement	Before use on project	Provide 2nd test after soil amendments added if initial test results are unacceptable

END OF SECTION

Community Workforce Agreement

for the

_____ (Project name)

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PREAMBLE

The Anchorage School District (Public Entity/Owner, hereinafter referred to as "Owner" or "District"), is committed to securing the best value for public construction funds, and to putting such funds to work for the benefit and improved general welfare of residents of the community, and in particular, community members in focus categories such as military veterans, members of the National Guard and reservists; adults skilled in the construction trades; people of color; women; District graduates, young people and unskilled adults, socially and economically disadvantaged members of the community; and individuals facing reentry into the community after leaving a State of Alaska correctional facility. The Building and Construction Trades Council of Southcentral Alaska (hereinafter, the "Council") is committed to preserving work traditionally performed by community members represented by the Council and its member organizations, and to creating employment opportunities for such individuals as well as for community members in the Owner's priority categories.

The Owner seeks to expand training and employment opportunities for District graduates, to gain ready access to a competent workforce for current as well as future projects, and to secure cost savings by employing skilled apprentices to work with more experienced workers on public construction projects. The Council seeks to participate in creating the workforce of the future, and to making such cost savings available to the Owner on present and future construction projects.

To these ends, the Council and its member organizations agree to provide the Owner, its contractors and subcontractors, with viable tools, including bona fide apprenticeship and training programs with proven track records of graduating skilled apprentices, and hiring and job referral systems designed to prioritize area resident and special applicant employment preferences as described above in Paragraph 1. The Owner agrees the interests of the community will be served by the utilization of these tools, and that the Owner can effectively achieve the goals stated herein by utilizing a Community Workforce Agreement (hereinafter the "CWA") to build projects constructed with public funds.

ARTICLE 1
PRODUCTIVITY

1.1 This CWA is intended to ensure that all construction work on the _____ (Public Project, hereinafter, the "Project") proceeds without interruption or delay, that all participants work cooperatively in accordance with the highest standards of excellence and professionalism, and that disputes are resolved in an effective, expeditious manner.

ARTICLE 2
FAIR CONTRACTING OPPORTUNITIES

2.1 This CWA is intended to provide access to fair and competitive work opportunities for all contractors, and subcontractors. The Owner or Contractor, as appropriate, has the right to select all qualified bidders or subcontractors to perform work on the Project subject only to the Letter of Assent requirement set forth in Article 8.

2.2 The Council and all signatory labor organizations shall work cooperatively with the Owner, Contractor and all subcontractors awarded work on the Project regardless of whether the Contractor or subcontractors have performed or are performing work on other projects under contract with the Council or any labor organization signatory to this CWA (hereinafter, “signatory labor organization”).

2.3 The Owner and/or the Project Contractor have the absolute right to select any qualified bidder for the award of contracts on this Project without reference to the existence or non-existence of any agreements between such bidder and any party to this Agreement; provided, however, only that such bidder is willing, ready and able to become a party to and comply with this Project Agreement, should it be designated the successful bidder.

ARTICLE 3
THE PARTIES

3.1 This CWA is entered into by Contractor selected by the Owner to be responsible for construction of the Project (hereinafter, the “Contractor”), for and on behalf of itself and its subcontractors of any tier, the Building and Construction Trades Council of South-Central Alaska (hereinafter, the “Council”) and all signatory labor organizations. The Owner, Contractor, all subcontractors, the Council and signatory labor organizations may be referred to individually as a "Party" and collectively as the “Parties.”

ARTICLE 4
TERM OF AGREEMENT

4.1 This CWA shall become effective on the ___day of _____, 20__ and shall continue in full force and effect until completion of all Covered Work. Termination of this CWA shall occur upon receipt by the Council of written notice from the Owner, of Project completion.

ARTICLE 5
CONSTRUCTION OF THE PROJECT

5.1 This CWA shall apply to all phases of construction of the Project, from site preparation, startup through clean-up, including rework, change orders and extensions of the Project, to completion certified in writing by the Owner. Construction of the Project will be undertaken pursuant to a contract between the Owner and the Contractor pursuant to contract documents executed between the Owner and the Contractor (hereinafter, the "Contract"). The Owner, at its sole option, may terminate, delay and/or suspend any or all portions of the Project at any time.

5.2 The Owner will implement this Article by including appropriate, binding provisions in the Contract and Solicitation documents establishing execution of and compliance with this CWA as conditions of the job award and construction of the Project.

ARTICLE 6
COVERED WORK AND SERVICES

6.1 This CWA shall apply to all activities engaged in or performed at the direction of the Contractor pursuant to the Contract, and by subcontractors awarded contracts to perform work on the Project (hereinafter, "Covered Work"). Covered work shall include all construction work traditionally performed by workers represented by the Council or members of the Council, including site preparation, dedicated off site lay down yard to the extent permitted by law, storage yard work, supply and delivery of concrete, and surveying. The site of construction is defined as _____ (hereinafter, the "Work Site") and shall refer to all locations at which the Contractor or subcontractors perform Covered Work.

6.2 This CWA applies only to covered work performed on the specific project Work Site listed above. It does not apply to, nor any rights of the parties under this agreement extended to, Contractors or sub-Contractors work on other projects outside the Covered Work of this agreement.

6.3 Nothing contained herein shall be construed to prohibit, restrict, or interfere with the performance of any other operation, work, or function which may occur at the Project site or be associated with the development of the Project.

6.4 This Agreement shall only be binding on the signatory parties hereto and shall not apply to their parents, affiliates, or subsidiaries.

ARTICLE 7
EXCLUDED WORK AND SERVICES

7.1 The following work is excluded from the scope of this CWA:

a. Non-manual work

b. Work performed by employees employed by the Owner.

c. Any work performed on, near, leading to, or into the Project Site by State, County, City or other governmental bodies, their contractors, or by public or private utilities or their contractors.

d. On and off-site maintenance of leased equipment and on-site supervision of such work.

e. Required equipment warranty work, and the onsite supervision of such work.

f. Startup, commissioning, specialty testing or inspections done by the Owner, Contractor or Subcontractors, unless such work is traditionally performed by employees represented by the Council or its members, in which case it is not excluded.

g. Off-site manufacture of materials, equipment, or machinery; the repair, maintenance, assembly, painting, handling or fabrication of components; or, work involved in deliveries to and from the Work Site; however, when subcontracting for prefabrication of materials to be installed on the Project, such prefabrication shall be subcontracted to fabricators who pay their employees engaged in such fabrication not less than the appropriate Alaska prevailing wage for comparable fabrication, as set by Alaska Statute Title 36, Public Contracts.

h. Furniture, fixture and equipment installation and other work performed after the Contractor and Subcontractors have completed construction work and or after the Contract completion date.

i. Any work within the historic jurisdiction of the Outside Construction Branch of the International Brotherhood of Electrical Workers Local Union 1547.

ARTICLE 8
COMPLIANCE WITH AGREEMENT

8.1 All Covered Work will be contracted only to the Contractor and those subcontractors who agree to become and remain signatory to this CWA for the duration of the Project. The Contractor and all subcontractors shall fulfill this commitment by executing a Letter of Assent (Attachment 1) prior to commencing Covered Work. A signed copy of the Letter of Assent shall be transmitted immediately upon execution to the President of the Council as condition of the dispatch of employees to the Work Site. The Contractor shall monitor and enforce compliance with this CWA by all subcontractors. The Council shall monitor compliance with this CWA of its member organizations.

8.2 The Project Contractor agrees that neither it nor any of its contractors or subcontractors will subcontract any Covered Work to be done on the Project except to a person, firm or corporation who is or agrees to become party to this Agreement. Any contractor or subcontractor working on the Project shall, as a condition to working on said Project, become signatory to and perform all work under the terms of this Agreement.

8.3 Audit rights contained in any collective bargaining agreement with the affected signatory labor organization that predominantly covers work associated with this CWA, shall be limited to the audit of the Contractor's or subcontractor's payroll records for non-exempt personnel assigned to this Project only.

ARTICLE 9
MANAGEMENT RIGHTS

9.1 The Contractor and the Contractor's subcontractors shall have full authority to manage their business operations, including but not limited to the authority to determine the number of workers and craft supervisory personnel, and their qualifications. The Contractor and its subcontractors also shall have full authority to direct the work force, hire, promote, transfer, lay-off, discipline or discharge for just cause, select foremen and general foremen, assign and schedule work, including overtime work and determine when it will be worked and the number and identity of employees to be engaged in such work. Project work rules are subject to the review by the Project Administrative Committee (hereinafter, the "PAC") as described in Article 12.

9.2 There shall be no limitation or restriction on the Owner's, Contractor's or subcontractor's choice of materials or design; or, regardless of source or location, on the full use, installation and utilization of equipment, machinery, package units, pre-casts, prefabricated, pre-finished, or pre-assembled materials, tools, or other labor-saving device. However, when subcontracting for prefabrication of materials for field installation on the Project, such prefabrication shall be subcontracted to fabricators who pay their employees engaged in such fabrication not less than the appropriate Alaska prevailing wage for comparable fabrication, as set by Alaska Statute Title 36, Public Contracts.

9.3 The on-site installation or application of such items shall be performed by employees represented by members of the Council, or labor organizations signatory to this CWA, if such employees traditionally perform such work; provided that other personnel having special talents or qualifications may participate in the installation, check-off or testing of specialized or unusual equipment.

If there is any disagreement between the Contractor, a subcontractor and the Council or a labor organization signatory to this CWA concerning the manner of installation, check-off or testing of such equipment, the work shall proceed as directed by the Contractor, or subcontractor and the labor organization shall have the right to dispute the matter and have it resolved in accordance with Article 21 of this CWA.

9.4 The rights of management enumerated in this Article are limited only by the Contract and the terms of this CWA.

9.5 If all crafts involved agree prior to commencing the work, the Contractor or Sub-Contractor may develop a composite crew for the performance of a particular task. So long as the crew consists of the required crafts in such proportions as the respective work being performed, the traditional craft jurisdictional boundaries will be waived by all Signatory Labor Organizations.

ARTICLE 10
REPRESENTATION OF EMPLOYEES

10.1 The Owner, Contractor and all subcontractors agree to recognize the Council and the labor organizations signatory to this CWA as the sole and exclusive bargaining representatives of all employees performing Covered Work on the Project with respect to wages or rates of pay, benefits, hours of work and other terms and conditions of employment.

10.2 Each labor organization signatory to this CWA shall be entitled to designate one (1) official representative and one (1) official alternate (hereinafter, “Employee Representatives”) as primary points of contact. It is understood that, depending upon the availability of these individuals, or the unique nature of a problem or dispute, other Employee Representatives may be designated on a short-term basis. Written notice of the designation of Employee Representatives (Attachment 3) shall be provided to the appropriate Contractor or subcontractor. Employee Representatives shall fully comply with the visitor, safety and security rules established for the Project.

10.3 The Contractor and/or subcontractors shall provide the Council or the appropriate labor organization with written notification of its chain of command for resolving issues or workplace disputes.

10.4 Employee Representatives shall be given fair and reasonable access to the Work Site. Employees performing Covered Work shall be permitted to consult and confer privately with their Employee Representatives. Employee Representatives shall work cooperatively with the Contractor's or subcontractor's representatives to prevent the escalation of Work Site problems and to resolve them at the lowest possible level.

10.5 Each labor organization signatory to this CWA also shall have the right to designate at least one (1) working journeyman as Steward. Written notice of the designation shall be provided to the appropriate Contractor or subcontractor. The Steward shall be recognized as the labor organization's Work Site employee representative. One (1) Steward also may be designated for each shift, should multiple shifts be utilized. Stewards shall be permitted on the Work Site at all times. A Steward's activities may not unreasonably interfere with the Steward's work for the Contractor or its subcontractors, or the work of other employees.

10.6 All Stewards shall be qualified workers assigned to a crew. Under no circumstances shall there be a non-working Steward on the Project.

10.7 The Steward shall be paid at the applicable prevailing wage rate for the job classification in which he or she is employed. The Steward shall be given all rights specified in the specific labor organization's CBA that covers construction work.

10.8 The Contractor shall notify the appropriate labor organization in reasonable advance of disciplining or discharging a Steward for just cause and as soon as possible after it becomes known to the Contractor that a Steward has voluntarily quit. In the case of a bona fide reduction in force, forty-eight (48) hours prior written notice shall be given the appropriate labor organization prior to the lay-off of a Steward. The Steward shall be laid off last in his classification and shall not be subjected to discrimination or discharge on account of providing employee representation.

10.9 No worker shall be required to become a member of a Union, or pay any dues or dues equivalent, to be eligible for employment under this SCWA. If elected by the employee, the Employer and subcontractors will deduct working membership dues, assessments and non-membership fees in the amount designated by the applicable labor organization, provided the employee has executed and provided the Contractor or subcontractor with a written assignment authorizing the deduction. All workers covered by this CWA who are Union members and working for a Contractor signatory to a collective bargaining agreement other than this CWA, shall remain members in said Union during the project. It is understood and agreed that the Contractor or subcontractor assumes no liability in connection with dues or fee collection, except for ordinary diligence and care in transmittal of the monies to the appropriate labor organization. The Contractor or subcontractor will remit to the appropriate labor organization, the dues deducted on or before the fifteenth (15th) day of each month following the month of accrual.

ARTICLE 11
PRE-JOB COOPERATION

11.1 The Contractor, all known subcontractors of all tiers, and the Council shall participate in a Pre-Job conference to be held within thirty (30) days after the award date, but not later than two (2) weeks prior to the commencement of Covered Work, and on an as needed basis for projects with multiple phases or start dates. Once the remaining subcontractors are selected, they shall participate in a Pre-Job conference with the Contractor and affected signatory labor organization(s) prior to starting their work.

11.2 The Pre-Job conference shall be arranged by the CWA Administrator pursuant to Article 12. Information about the scope of work and specific and detailed craft assignments will be presented by the Contractor or subcontractor so that all Parties can review proposed work assignments prior to the start of construction. The Contractor and subcontractors shall present all information available regarding the start date and duration of the Project, estimated peak employment periods, and any other information necessary to help ensure a successful, dispute-free Project.

11.3 Each Subcontractor shall submit a Pre-Job package addressing the matters described in Sections 11.2 and 11.4, to the Contractor for distribution to the Council in reasonable advance of the Pre-Job conference. The Pre-Job package shall include the signed Letter of Assent (Attachment 1), and if applicable, a Core Employee list (Attachment 2) together with supporting documentation pursuant to Article 14.6.

11.4 If the Contractor or any subcontractors at any tier fails to attend the Pre-Job conference prior to the commencement of Covered Work, or to submit the required materials, it shall be considered a violation of this CWA. The Council or signatory labor organization shall immediately notify the Contractor or Owner, as appropriate, of the violation. The Owner shall require the Contractor or subcontractor to take corrective action regarding this matter immediately. No Party shall commence Covered Work until the obligations set forth in this Article are satisfied. If the Contractor is the offending Party, the matter will be resolved by the PAC pursuant to Article 12, upon submission of a written complaint (Attachment 4) to the CWA Administrator.

ARTICLE 12
PROJECT ADMINISTRATIVE COMMITTEE (PAC)

12.1 The parties to this CWA recognize the necessity of cooperation, the prevention and elimination of disputes, misunderstandings, or unfair practices on the part of any party that may arise after award of the Contract or subcontract, or during construction of the Project.

12.2 A Project Administrative Committee (PAC) shall be established consisting of regular members, as follows:

a. One (1) Contractor representative who shall be appointed by the Contractor and who shall have the authority to speak for and make decisions on the Contractor's behalf

   Contractor Representative shall be: _____

b. The President of the Council shall preside as the PAC Representative and have the authority to speak for and make decisions on behalf of the Council after consultation with the appropriate signatory labor organization(s) as necessary.

   Council Representative shall be: _____

c. One (1) CWA Administrator representing the Owner who shall be appointed by the Owner and who shall have the authority to make decisions on the Owner's behalf. The Owner through the CWA Administrator, or Designee, shall initiate and participate in all proceedings of the PAC. The CWA Administrator or Designee shall chair all meetings of the PAC.

   CWA Administrator shall be: _____

12.3 The PAC shall monitor the progress of the project and be empowered to address Project wide issues and disputes such as, Project policies and work rules; Project safety; compliance with hiring requirements, apprenticeship utilization; job progress; job interruptions; core employee hire and other significant issues as may affect the Project. Furthermore, the PAC shall track the implementation of apprenticeship, military, and other hiring preferences and report progress to the Owner. The PAC's dispute resolution process does not supersede, nor is it a substitute for the grievance process. Complaints involving alleged violations of this CWA, or any signatory labor organization's CBA that predominantly covers their work associated with this CWA shall be resolved in accordance with the grievance process set forth in Article 20.

12.4 A Party or Parties may submit a dispute to the PAC for resolution, by providing a written copy of the Party's complaint (Attachment 4) to the CWA Administrator and all affected Parties. The CWA Administrator shall call a meeting to address any such complaint promptly upon receipt of it. One (1) representative of the Contractor, one (1) representative of each subcontractor(s) involved in the complaint, one (1) representative of the Council, and one (1) representative of each labor organization(s) involved in the complaint will be permitted to attend and participate in the complaint's resolution. Affected parties will be given an opportunity to present facts and witness testimony relevant to the complaint in accordance with general standards of due process. Proceedings of the PAC shall be informal and strict application of the rules of evidence shall not be required. If resolution of the complaint by mutual agreement of the Parties is not possible, the PAC shall decide the matter by open ballot, majority vote.

12.5 No decision or resolution reached by the PAC shall supersede, alter, modify, amend, add to or subtract from this CWA, or any signatory labor organization's CBAs except as the latter is modified or superseded by this CWA. The PAC's resolution of a complaint shall be reduced to writing and shall be signed by all the Parties. Decisions of the PAC shall be final and shall not be subject to appeal.

12.6 The PAC shall meet as needed to review the overall operation of the CWA on the Project. In the case of emergencies, the PAC shall be convened by the CWA Administrator, within forty-eight (48) hours of a written request submitted by any Party. All Parties acknowledge the importance of attendance and active support of the PAC and shall participate in meetings of the PAC as one of their responsibilities on the Project.

12.7 To promote day to day Work Site continuity, cooperation and information exchange, the Contractor and Council shall have Labor Management meetings monthly. The Contractor may also require the participation of any/all subcontractors who are working, or soon to be working on the Project. At these monthly Labor Management meetings, the topics of discussion will include job status, schedule updates, future work assignments, letter of assents, worker needs, and any other issue or concern that will help achieve a harmonious work site.

ARTICLE 13
CONTINUITY OF OPERATIONS

13.1 During the term of this CWA there shall be no strikes, picketing, work stoppages, slowdowns, or other disruptive activity for any reason by the Council, its signatory labor organizations, or by any employee employed on the Project.

13.2 There shall be no lockout of employees by the Contractor or subcontractors. In the event of action in violation of this Article, the Contractor may suspend all or any affected portion of the Work.

13.3 Any employee who participates in or encourages behavior that interferes with the performance of Covered Work may be subject to disciplinary action, up to and including discharge.

ARTICLE 14
HIRING PROCEDURES

14.1 The Contractor and subcontractors agree to comply with and exclusively use the appropriate signatory labor organization's referral system. All referral systems will be operated by the signatory labor organizations in a nondiscriminatory manner, in full compliance with federal, state, and local laws. Registration on out of work lists, or job referrals shall not be affected positively or negatively by membership or non-membership

in a labor organization and shall be open to all those who meet the respective crafts requirements.

14.2 By Contractor or subcontractor request, the appropriate signatory labor organization shall, to the greatest extent possible, prioritize the dispatch of applicants who are residents of the communities surrounding Project Work Sites. At the request of the Contractor or subcontractor, the appropriate signatory labor organization also shall, to the greatest extent possible, prioritize the dispatch of applicants falling within the focus categories set forth in the Preamble.

14.3 The Contractor may reject any applicant referred by a signatory labor organization for any lawful, nondiscriminatory reason, in accordance with the applicable labor organization's hiring hall rules and regulations. A written explanation shall be provided to the affected labor organization within forty-eight (48) hours of the rejection.

14.4 In the event any signatory labor organizations are unable to fill a request for referrals within forty-eight (48) hours after the request is made by the Contractor or a subcontractor (except for Saturdays, Sundays, and holidays), the Contractor or subcontractor may employ applicants from any other available source. The Contractor or subcontractor shall provide the appropriate labor organization with the name, address and phone number, or other viable contact information, in writing, for every applicant hired from other sources, and shall refer such applicants to the appropriate labor organization for dispatch to the Project before such applicant begins working on the Project. All successful applicants, whether referred by a signatory labor organization, or by another source, shall satisfy their financial obligations in accordance with the signatory labor organization hiring hall rules.

14.5 To ensure that the Contractor and all subcontractors have an opportunity to employ ("Core") employees on the Project, the Parties agree that in those situations where the successful Contractor or subcontractor is not a party to a current collective bargaining agreement with the affected signatory labor organization, the Contractor, or subcontractor, may request by name Core employees in accordance with the affected signatory labor organization's hiring hall rules. At the time of signing the letter of assent a list of all Core employees and classifications must be submitted (Attachment 2). All subsequent referrals will be made by the labor organization's hiring hall.

14.6 In order to be eligible to request a Core employee by name, the Contractor first must, demonstrate that the person possesses the following qualifications. Applicants, who cannot satisfy the following qualifications, will not be eligible for dispatch as Core employees:

a. Holds all licenses required by state or federal law for the Covered Work to be performed.

b. Has worked a total of at least one thousand (1,000) hours in the construction craft performing the Covered Work to be performed, during the previous year.

c. Has the ability to safely perform the essential functions of the job.

14.7 Complaints that the Core employee provisions of this Article have been violated shall be submitted in writing to the CWA Administrator and resolved by the PAC on an expedited basis. Any Contractor or subcontractors that attempt to or that are found to have circumvented the Core employee hiring provisions of this Article by misclassifying any of its employees as supervisors or foremen, or in any other way, shall, by Order of the PAC, forfeit their right to employ Core employees for the remaining duration of the Project.

ARTICLE 15
APPRENTICESHIP AND TRAINING

15.1 The Parties recognize the need for meaningful, continuing support of bona fide apprenticeship programs. Such programs enable community members and District graduates to enter the labor market qualified to earn a family wage on a construction job. They ensure that a diverse, well-trained workforce essential to the economic and social vitality of Alaska and in particular, the communities surrounding the Work Site, is cultivated on an ongoing basis. The signatory labor organizations agree to support and to enhance existing apprenticeship programs to provide training and job opportunities to District graduates, young people, and unskilled adults. The Contractors will employ apprentices to perform work customarily performed by the craft in which they are registered, within the capability of the apprentice.

15.2 Apprentices shall be utilized in accordance with the signatory labor organization's CBAs that predominantly covers the work associated with this CWA. Apprentices shall be indentured in bona fide training programs approved by the United States Department of Labor, Office of Apprenticeship Training, Employer Labor Services (formerly the Bureau of Apprenticeship & Training).

15.3 Consistent with Board Policy 3311.1.2 (Use of Apprentices), the Contractor shall ensure that no less than fifteen (15%) percent of the total Contract labor hours worked on the Project are worked by registered Apprentices.

15.4 The Contractor and each subcontractor shall estimate the total contract labor hours to be worked on the construction contract awarded to it and shall establish the anticipated apprenticeship participation by craft and hours. The Contractor shall submit a monthly report for itself and all subcontractors to the CWA Administrator identifying the number of apprentices and journey workers used by craft and trade at each tier and level of work. The CWA Administrator shall determine whether the Contractor or subcontractor is in compliance with the provisions of this Article and collaborate with Sr. Director of Purchasing-Warehouse on management of the District's Apprenticeship Utilization Program.

15.5 Funding for Apprenticeship and training shall be through hourly contributions to each respective Union's Joint Apprenticeship Training Committee (JATC) programs. Those contributions shall be in accordance with the appropriate Signatory Labor Organization's Schedule "A".

ARTICLE 16
DISTRICT GRADUATES AND PREFERRED ENTRY APPRENTICESHIP

16.1 The Parties are committed to expanding employment and training opportunities for District graduates and providing additional work opportunities for District graduates and students in career and technical education to the full extent permitted by law.

16.2 The Parties agree to construct and expand pathways to livable wage jobs and careers in the construction industry for community residents and District graduates through collaborative workforce development systems and bona fide apprenticeship programs maintained by the Council and its member organizations.

16.3 To the extent permitted by law and current Anchorage School Board policy regarding employment of sex offenders, preferred Entry programs will be utilized in an attempt to identify qualified individuals such as: District graduates, youth, unskilled adults, military veterans, members of the National Guard or reservists, people of color, women, socially/economically or otherwise disadvantaged members of the community, or individuals facing reentry after a period of State of Alaska incarceration, for preferred entrance into the regular apprenticeship programs maintained that have been or will be created by the labor organizations signatory to this CWA.

16.4 Identification, selection and mentorship of qualified applicants to be accepted into apprenticeship programs will be the sole responsibility of the Joint Apprenticeship Training Committee (JATC) of each bona fide Apprenticeship and Training program.

ARTICLE 17
MILITARY VETERANS, MEMBERS OF THE NATIONAL GUARD, AND RESERVISTS

17.1 The Contractor, subcontractors, the Council, and its member organizations have committed to facilitating entry into the building and construction trades of veterans, members of the National Guard and reservists who are interested in careers in the building and construction industry. The Contractors and Unions agree to utilize the services of the Center for Military Recruitment, Assessment and Veterans Employment (hereinafter "Center") and the Center's "Helmets to Hardhats" program and other appropriate veteran's programs. In furtherance of these efforts, the primary program to serve as a resource for preliminary orientation, assessment of construction aptitude, referral to apprenticeship programs or hiring halls, counseling and mentoring, and other needs identified by the Parties shall be VIPER.

17.2 The Contractor, subcontractors, and the labor organizations signatory to this CWA agree to coordinate with the Center and other appropriate veteran referral sources, to create and maintain an integrated database of veterans interested in working on the Project.

17.3 The labor organizations signatory to this CWA shall to the extent permitted by law, make reasonable, appropriate adjustments to their hiring hall rules and regulations to give credit to military veterans, members of the National Guard and reservists, for bona fide, provable past work experience.

ARTICLE 18
SOCIO-ECONOMICALLY DISADVANTAGED COMMUNITY MEMBERS

18.1 To the extent permitted by law and current Anchorage School Board policy regarding employment of sex offenders, employment opportunities shall be provided to eligible at-risk individuals, such as youth, unskilled adults, people of color, women, and those who experience a barrier to gaining employment due to their personal backgrounds. Those may include, socio-economically disadvantaged members of the community and individuals facing reentry into the community after leaving a State of Alaska correctional facility or incarceration.

ARTICLE 19
DRUG AND ALCOHOL-FREE WORKPLACE

19.1 The Contractor shall implement a fair and equitably administrated Drug Free Workplace Policy and Program (hereinafter, the “Policy”) for the duration of this CWA. The Policy will be administered in accordance with the provisions of its ALCOHOL AND DRUG POLICY which shall be included as an Exhibit 1 to this CWA. All positive or inconclusive drug or failed alcohol results must be verified by an independent third-party agency approved in advance by the CWA Administrator. The CWA Administrator has the right and authority to conduct an audit of the administration of the drug and alcohol testing procedures being implemented by the Contractor, upon request of any Party to this CWA.

19.2 Consistent with the Owner’s goals as forth in this CWA, persons with a history of alcohol or drug abuse shall not be denied employment on the Project so long as they can demonstrate their present ability to satisfy the requirements of the Drug Free Workplace Policy and Program applicable to the Project.

ARTICLE 20
STANDARDIZED GRIEVANCE PROCEDURE

20.1 This CWA is intended to provide close cooperation between labor and management, the Contractor, subcontractors, and signatory labor organizations with respect to the day-to-day performance of Covered Work. Alleged violations of this CWA or any signatory labor organizations CBA that predominantly covers work associated with this CWA, governing the performance of Covered Work by employees represented by a signatory labor organization, shall be resolved as follows.

a. **Step 1.** When any employee subject to the provisions of this CWA feels he or she has been adversely affected by a violation of this CWA or any signatory labor organizations CBA that predominantly covers work associated with this CWA, they shall, through their local Business Representative or job steward, give notice to the appropriate Contractor or subcontractor representative of the grievance. Notice shall be given within seven (7) calendar days after the employee become or should have become aware of the violation. The labor organization's representative or job steward and the Contractor's representative shall meet and endeavor to adjust the matter within three (3) calendar days after timely notice has been given. The representative of the Contractor shall respond to the Business Representative in writing at the conclusion of the meeting but not later than two (2) calendar days thereafter. If the Party's representatives fail to resolve the matter within the prescribed period, the grieving party may, within two (2) calendar days thereafter, pursue Step 2 of the Grievance Procedure, provided the grievance is reduced to writing, setting forth all relevant information, including a short description of the grievance the date on which the grievance occurred, and the provision(s) of the CWA alleged to have been violated.

b. Should a Party have a dispute with another Party they shall meet promptly to resolve it. If a settlement is not reached within three (3) calendar days of the meeting, the dispute may be reduced to writing and submitted at Step 2, in the same manner as outlined for the adjustment of an employee grievance.

c. **Step 2.** The Business Representative of the signatory labor organization or designee and the Contractor or subcontractor's representative, or designees shall meet within seven (7) calendar days after referral of a dispute to Step 2, to arrive at a satisfactory settlement. If the Parties' representatives fail to reach an agreement, the dispute may be appealed in writing in accordance with the provisions of Step 3 within seven (7) calendar days thereafter.

d. **Step 3.** If the grievance has been submitted but not adjusted at Step 2, either Party may within seven (7) calendar days thereafter, request in writing, that the grievance be submitted to a mutually acceptable Arbitrator. Alaskan arbitrators shall be utilized to the greatest extent possible. If an Arbitrator cannot be selected by mutual agreement, the selection shall be made by the PAC. The decision of the Arbitrator shall be final and binding on all Parties. The fee and expenses of Arbitration shall be borne equally be the Contractor or subcontractor and the labor organizations involved in the grievance regardless of the outcome.

e. Failure of a Party to adhere to the time limits established herein shall be deemed a default and shall resolve the grievance in favor or the non-defaulting party. The time limits established herein may be extended only by written consent of the Parties involved. The Arbitrator shall have the authority to make decisions only on the issues presented, and shall not have authority to change, amend, add to or detract from any of the provisions of this CWA, or any signatory labor organizations CBA that predominantly covers work associated with this CWA.

ARTICLE 21
CRAFT JURISDICTION & JURISDICTIONAL DISPUTES

21.1 The assignment of work is the sole responsibility of the Contractor performing the work involved; such work assignments will be under the Plan for the Settlement of Jurisdictional Disputes in the Construction Industry (the "Plan") or any successor Plan.

21.2 If there is a dispute over a work assignment on the Project, between or among signatory labor organizations and Contractors of any tier, representatives of the signatory labor organizations claiming the work shall first meet with the Council President, or designee, who will attempt to mediate a resolution on an expedited basis. If a resolution to the dispute cannot be reached, the signatory labor organizations claiming the work then shall notify the CWA Administrator and the dispute shall be settled and adjusted according to the Plan. Decisions rendered shall be final, binding, and conclusive on the Contractors and labor organizations that are parties to this Agreement.

21.3 All jurisdictional disputes shall be resolved without strike, work stoppage, or slow-down of any nature and the Contractor's assignment shall be adhered to until the dispute is resolved. Individuals violating this section may be subject to discipline up to and including discharge for just cause.

ARTICLE 22
WORK RULES

22.1 The Owner or the Contractor(s) may establish reasonable Project Rules, so long as such Rules are not inconsistent with this CWA. Project Rules will be explained at the pre-job conference and posted at the Project Site by the Contractor or appropriate subcontractor. Failure by any employee to observe these rules and regulations may be grounds for discipline, up to and including discharge for just cause.

22.2 Security procedures for control of tools, equipment and materials are solely the responsibility of the Contractor and its subcontractors. Employees having any company property or property of another employee in their possession without authorization may be subject to discipline, up to and including discharge for just cause. The Contractor or

subcontractor will be responsible for the establishment of reasonable job security measures for the protection of personal company and client property on the Work Site.

ARTICLE 23
SAFETY, HEALTH AND SANITATION

23.1 Employees shall be provided with a safe, drug and alcohol-free environment in which to work. All employees performing Covered Work on the Project shall be covered by a properly classified Alaska Workers' Compensation Policy. All required safety equipment shall be provided by the Contractor or subcontractors at no cost to employees.

23.2 The Contractor, subcontractors and employees performing Covered Work on the Project shall comply with all applicable provisions of District, local, state and federal laws, rules and regulations, relating to job safety and safe work practices (hereinafter, "Safety Rules'). Safety meetings will be scheduled and conducted weekly by the Contractor or subcontractor as appropriate, to discuss safety on the Project and to ensure adequate awareness and understanding of the manner of implementation and the application of all Safety Rules.

23.3 All employees shall be required to use appropriate, personal, protective equipment as is or may be prescribed by state or federal safety and health standards or by the Contractor. Adequate training shall be provided to all Project employees to ensure proper utilization of such equipment. Failure of employees to use such equipment properly may be grounds for disciplinary action, up to and including dismissal.

23.4 No employee shall be required to work under conditions or circumstances which place the employee in imminent danger of physical harm or injury, except that the employee may not make any such claim or refuse to perform Covered Work as a pretext for refusing to carry out a work assignment.

23.5 The Contractor or subcontractor may shut down a job, or a portion thereof, if in the Contractor's or subcontractor's judgment, an emergency arises which could endanger the life and safety of an employee. In such cases, employees will be compensated only for the actual time worked or for standby time if standby is required by the Contractor or subcontractor.

23.6 The Contractor and its subcontractors, as appropriate, shall provide a convenient and sanitary supply of drinking water and sanitary drinking cups, adequate sanitary toilet and clean up facilities for the employees, and dry shacks sufficient to accommodate employees during rest and meal breaks, and for storage of employee's personal clothing and equipment.

23.7 Where an unsafe condition is alleged to exist, the affected employee shall first notify his or her immediate supervisor who shall take any necessary corrective action. If the employee's immediate supervisor is not available, the employee may satisfy his or her duty to report unsafe conditions promptly, by notifying any available Shop Steward or

management representative of the Contractor or subcontractor. If the parties fail to resolve any difference or disagreement over the existence of an unsafe condition or the appropriate corrective measures to be taken, the issue shall be referred immediately, for final and binding, resolution to the CWA Administrator and resolved by the PAC pursuant to Article 12.

ARTICLE 24
PROTECTION OF PERSON AND PROPERTY

24.1 Employees shall use diligent care to perform their work in a safe manner and to protect themselves, the environment, and the property of the Employer. Failure to do so may, depending upon the severity of the offense, result in disciple up to and including dismissal. The Employer shall establish, post, and ensure employees are aware of and understand, reasonable visitor, security, and safety rules necessary to achieve this objective.

ARTICLE 25
WAGE SCALES AND FRINGE BENEFITS

25.1 All employees covered by this Agreement shall be classified in accordance with Alaska Statute Title 36, Public Contracts. This shall be applicable to all Contractors and subcontractors.

25.2 Wages and benefits for referenced project shall remain at the levels specified in the specific contract documents for twenty-four (24) months from the award date. After twenty-four (24) months, the wage and benefit will increase to the current prevailed rate as published by the Alaska State Statute Title 36.

25.3 The Contractor and all Sub-Contractors shall be required to pay into an appropriate joint labor/management employee benefit trust(s) ("Trust Fund") unless alternative benefit plans are approved by each affected Signatory Labor Organization as outlined Section 25.4 below. Contractor and subcontractors shall be required to complete trust documents and submit them to the Trust Fund for each employee and to pay into the Trust Fund as required by that Trust Fund's schedule.

25.4 **Alternative Benefits.** The Parties recognize the Owner's commitment to provide opportunities on the Project for all Contractors and subcontractors, including those which may not have previously had a relationship with the labor organizations signatory to this CWA. Each labor organization signatory to this CWA agrees to meet and confer with the Contractor or subcontractor to discuss alternative benefits for Pension and/or Health and Welfare to meet the needs of their core employees as defined in Article 15 above. To be eligible, Contractors or subcontractor's must have a qualifying Pension and/or Health and Welfare plan currently covering their core employees as outlined below. If such

Contractors or subcontractors do not have a qualifying company Pension and/or Health and Welfare plan, they shall be required to contribute to the appropriate Trust Fund for their core employees. All Contractors and subcontractors are required to pay the prevailed amount into the Training Trust Funds for the appropriate Signatory Labor Organization.

Qualifying Pension and/or Health and Welfare plan shall be one that satisfies the following requirements:

a. The Contractor's or subcontractor's company Pension and/or Health and Welfare plan must have been in existence for a period of at least one (1) year prior to the Contractor's or subcontractor's bid or proposal submission for work on the Project; and

b. The employees for whom continued coverage under the Contractor's or subcontractor's plan will be maintained must be qualified core employees as defined above and have been participants in such plans for the six (6) month period prior to their employment on the Project.

If the above requirements are met, the Contractor or subcontractor may request to meet and confer by submitting a written request to the Administrator for each affected signatory labor organization using (Attachment 5).

25.5 If any Contractor or subcontractor does not pay into the appropriate Trust Fund, the affected labor organization's trust administrator shall provide written notice to the Contractor.

a. The delinquent subcontractor, and the Contractor by mutual agreement, may identify other agreeable solutions that will assure timely payment to the Trust Fund. If the delinquent amounts are undisputed in whole or in part between the Trust Fund and the delinquent subcontractor, the Contractor shall issue a joint check to the Trust Fund and the subcontractor, in the amount of the undisputed delinquency.

25.6 If the Contractor is the delinquent Party, written notice of the alleged delinquency shall be provided by the affected labor organization to the CWA Administrator, and the delinquency shall be resolved by the PAC pursuant to Article 12.

25.7 Copies of applicable Trust Agreements will be made available upon request of the Contractor or subcontractor.

ARTICLE 26
WORK HOURS AND PAY

26.1 **Workweek and Workday.**

a. **Regular Workweek and Workday.** The regular workweek shall be five (5) consecutive days falling within Monday through Saturday. Where a single shift is worked, the regular workday shall be eight (8) consecutive hours between 6:00 AM and 6:00 PM; exclusive of a meal period of not less than one-half (1/2) hour. Nothing herein shall preclude the Contractor or subcontractor from scheduling any workday in excess of eight (8) hours or a workweek in excess of forty (40) hours. The Contractor or subcontractor shall determine and establish the work starting times at any time between 6:00 AM and 8:00 AM. All work performed before the regular starting time or after eight (8) consecutive hours shall be paid at the regular overtime rate, except that under conditions beyond the control of the parties to this Agreement (such as concrete paving, concrete pouring, asphalt paving, and road oiling work), or on work requiring special crews, or when the job or weather conditions warrant, the work starting time shall be mutually arranged to fit such conditions without penalty or premium payment. Other starting times, including staggering starting times, may be mutually agreed upon by the Parties without premium pay.

b. **Four-Ten Hour Workweek (4-10's).** With notification to the employees prior to the end of their workweek, the Contractor or subcontractor may schedule a workweek of four (4) consecutive ten (10) hour workdays between Monday and Saturday within the standard starting times as stated in Section 26.1 at the straight time rate of pay. Any work in excess of ten (10) hours on scheduled workdays shall be paid at the overtime rate of pay, and overtime shall be paid for any hours in excess of forty (40) in any workweek.

c. **Assembly Point.** The time of each Employee shall start in the morning at the designated Assembly Point, which shall be agreed upon at the pre-job conference. The Contractor or subcontractor shall make suitable and prompt transportation available from Assembly point to the job site and back. The time of the Employees shall end at quitting time on the job sites. It is intended that the lapse of time used to transport the Employees from normal quitting time at the job site to Assembly Point shall not exceed the lapse of time from starting time at Assembly Point in the morning to the Job site. In the event that the cumulative round-trip travel exceeds one (1) hour, then the employee's time exceeding the one (1) hour will be considered as time worked and compensation will be computed at the applicable rate. The Contractor or subcontractor will utilize Teamsters for all hours worked hauling employees to and from the agreed upon assembly point.

26.2 **Meal Period.** The Contractor or subcontractor will schedule a meal period of not less than one-half (1/2) hour, or more than one (1) hour's duration at approximately the mid-point of the scheduled shift regardless of such shift duration (8, 10, or 12 hours). The Contractor or subcontractor shall make an earnest effort not to work employees six (6) hours without a meal period. If the Contractor or subcontractor finds it is necessary to work employees beyond six (6) hours without a meal period, the employees shall be allowed a later meal period, and it shall be considered time worked and paid for at the proper overtime rate.

26.3 **Overtime.**

a. All work performed in excess of eight (8) consecutive hours (excess of ten (10) hours on a four-ten (4-10) schedule) in any one (1) day or forty (40) hours in any one (1) workweek shall be paid at one and one-half (1-1/2) times the straight time rate of pay. Employees shall be paid in accordance with the appropriate signatory labor organizations CBA that predominantly covers work associated with this CWA for all work performed on Saturdays and Sundays. An employee who was absent on their own accord, but work was made available during a regular straight time day, may be compensated at the straight time rate for hours worked on Saturday.

b. When a shift is started at a basic rate or at the appropriate overtime rate applicable on that day, it shall be completed at that rate. There will be no restrictions upon the Employer's scheduling of overtime or the non-discriminatory designation of employees that shall be worked. There will be no pyramiding of overtime.

26.4 **Holidays.**

a. All Holidays, except for Labor Day, may be worked. No work may be performed or scheduled on Labor Day unless an emergency exists.

b. If Saturday is not a normally scheduled workday, the holiday shall be observed on the preceding Friday. If Sunday is not a normally scheduled workday, the holiday shall be observed on the following Monday.

c. Employees shall be paid in accordance with the appropriate signatory labor organizations CBA that predominantly covers work associated with this CWA for all work performed on recognized holidays.

d. Recognized Holidays shall be:

New Year's Day (January 1st)
Presidents' Day (Third Monday of February)
Memorial Day (Last Monday in May)
Independence Day (July 4th)
Labor Day (First Monday of September)
Veteran's Day (November 11th)
Thanksgiving Day
Christmas Day (December 25th)

26.5 **Shift Work.**

a. Shift work may be performed at the option of the Contractor or subcontractor. The Contractor or subcontractor shall have the sole right to establish the starting time and duration of a shift, to designate the craft or crafts performing work on a shift

basis on the Project or any portion thereof, and to determine the number of employees required. Any time worked more than the regular shift shall be paid for at the normal overtime rate. The meal period provisions of Section 26.2 of this Article shall apply to both shifts.

b. On two- or three-shift operations, the work starting time for the first shift will not be established earlier than 5:00 AM, unless an earlier starting time is mutually agreed upon. If an earlier starting time is established without such mutual consent, overtime for those hours earlier than 5:00 AM will be paid. When an employee is moved from one shift to another, they shall be allowed a minimum of eight (8) consecutive hours off duty before they are required to begin work on the shift. An employee not having an eight (8) hour break between shifts shall be paid the overtime rate until such time as they receive an eight (8) hour break.

c. When changing shifts, the employee must be permitted to remain on that shift for at least fourteen (14) calendar days, unless this requirement is waived in writing by the employee's Employee Representative.

d. Employees shall be at their place of work at the starting time and shall remain at their place of work performing their assigned functions under the supervision of the Contractor or subcontractor until quitting time. The parties reaffirm their policy of a fair day’s work for a fair day’s wage.

e. Scheduling and premium pay for two- or three-shift operations shall be in accordance with the appropriate Signatory Labor Organization's Schedule “A”.

f. When two (2) or three (3) shifts are regularly established and the first or second shift cannot be worked due to conditions caused by weather, either shift may be worked in accordance with the applicable Signatory Labor Organization's Schedule “A”.

26.6 **Reporting Pay.**

a. If an employee reports to work for a regular or assigned shift and, weather permitting, is not put to work, he or she shall be paid two (2) hours reporting time and shall remain at the job site for two (2) hours if required by the Contractor or subcontractor.

b. An employee who starts to work shall be paid for not less than two (2) hours, and if the employee works beyond two (2) hours, the employee shall be paid for actual time worked. It shall be the Contractor or subcontractor’s prerogative whether or not to stop work.

c. No employee covered by this Agreement shall be called to work outside of their regular shift for less than two (2) hours paid for such work at the applicable rate.

d. Any employee who leaves the job or work location of his or her own volition, quits, or is discharged for cause, shall be paid only for the time worked.

26.7 **Payday.**

a. Wages will be paid weekly by check or direct deposit on a designated day during working hours and, in no case, shall more than five (5) days be held back in any one (1) payroll week. Each payday the Employee shall be given a check or stub and a statement showing hours, deductions, and hourly rates of pay, with the Contractor or subcontractor name and address clearly stated.

b. When an employee is separated from employment, wages become due within three (3) days after separation (excluding weekends and holidays). Where complete payroll information is not available and the check issued is less than the total amount due, a check for the balance shall be sent to the office of the appropriate signatory labor organization. Should the Contractor or subcontractor fail to comply with this provision, in whole or part, the employee will be entitled to eight (8) hours pay at the straight time rate of pay for each day full termination pay is delayed (excluding Saturdays, Sundays and holidays). Checks not picked up by the employee shall be delivered to the appropriate signatory labor organization.

26.8 **Travel and Subsistence.** There shall be no travel, daily travel, subsistence, or zone pay required under the provisions of this Agreement, but nothing in this Agreement prohibits the Contractor or subcontractor from providing any of the aforementioned items necessary to employ workers and payment of travel and subsistence is encouraged.

26.9 **Employee Access.** Employee access to the Work Site by private automobile may be limited to certain roads and/or parking areas. Parking at or near the Work Site will be provided to employees at no cost. If such parking cannot be provided, transportation between the parking area and the Work Site shall be provided by the Contractor or subcontractor, and employees will be given fifteen (15) minutes of pay each way, or compensation for actual transportation time, whichever is greater. Parking fees shall be reimbursed if employees are required to park in a private lot.

26.10 **Foremen and General Foremen.**

a. The selection of craft foremen and general foremen shall be the exclusive responsibility of the Contractor or subcontractor. Foremen and general foremen shall take directions from authorized Representatives of the Contractor or subcontractor.

b. Craft foremen may be required to perform covered work of the trade.

c. General foremen may perform incidental work of the trade.

d. Craft and general foremen shall be paid at the applicable foreman rate.

e. The number of craft foremen and general foremen shall be in accordance with the applicable signatory labor organizations CBA that predominantly covers work associated with this CWA.

f. All foremen shall have the authority and responsibility to terminate for just cause any employee working under their supervision who fails to perform satisfactorily, competently, and diligently his or her assigned duties.

ARTICLE 27
COMPLETE AGREEMENT

27.1 This CWA represents the complete agreement of the Parties. Neither the Contractor nor any subcontractor will be required to sign any other agreement with the Council, or its member labor organizations, as a condition of performing work on the Project. If this CWA is silent on an issue the applicable signatory labor organization's CBA that predominantly covers work associated with this CWA will be used to determine the outcome. Where there is a conflict, the terms of this CWA shall supersede the terms of all national, regional, or signatory labor organizations CBAs that predominantly covers work associated with this CWA, except for all work performed under the NTD Articles of Agreement, the National Stack/Chimney Agreement, the National Cooling Tower Agreement, the National Agreement of the International Union of Elevator Constructors; and all instrument calibration work and loop checking shall be performed under the terms of the UA/IBEW Joint National Agreement for Instrument and Control Systems Technicians; with the exception of Articles 13, 20, and 21 of this Project Agreement, which shall apply to such work. Nothing in this CWA requires employees to join a union or pay dues or fees to a union as a condition of working on the covered project. This CWA is not, however, intended to supersede independent requirements in applicable local union agreements as to contractors that are otherwise signatory to those agreements and as to employees of such employers performing covered work.

27.2 Nothing in this CWA shall modify, amend, or supersede any provisions of any other agreement between the Owner, Contractor, and its subcontractors, or between the Owner, Contractor, its subcontractors and the Council or individual members of the Council.

27.3 The liability of any employer and the liability of the separate unions under this Agreement shall be several and not joint. The unions agree that this Agreement does not have the effect of creating any joint employer status between or among the Owner, Contractor(s) or any employer.

ARTICLE 28
GENERAL SAVINGS CLAUSE

28.1 If any article or provision of this Agreement is declared invalid, inoperative, or unenforceable by any administrative agency, or court of competent jurisdiction, the remainder of this CWA shall not be affected thereby. Thereafter, any Party may, upon not less than thirty (30) days written notice to the others, have the right to open negotiations for the substitution of a new article or provision consistent with the decision of the board or court and the intent of the invalidated provision.

ENDORSEMENT

The authorized signature by the undersigned commemorates and affirms the approval of this CWA by all Parties and its adoption as a bid specification for contracts pertaining to all Covered Work on the Project.

FOR THE PARTIES:

By:

_____ _____
Anchorage School District Date

By:

_____ _____
Contractor Date

By:

_____ _____
Building and Construction Trades Council of South Central Alaska - President Date

Building and Construction Trades Council of South-Central Alaska - Affected trades:

By:

_____ _____
Bricklayers Local 1 Date

(206) 248-2456

By:

_____ _____
Boilermakers Local 502 Date
(253) 435-0330

By:

_____ _____
Cement Masons Local 528 Date
(907) 351-0151

By:

_____ _____
Heat & Frost Insulators Local 7 Date
(206) 812-0777By:

By:

_____ _____
IBEW Local 1547 Date
(907) 272-6571

By:

_____ _____
Ironworkers Local 751 Date
(907) 563-4766

By:

_____ _____
IUOE Local 302 Date
(907) 561-5288

By:

_____ _____
Laborers' Local 341 Date
(907) 341-0341

By:

_____ _____
Western States Regional Council of Carpenters
(907) 276-3533 Date

By:

_____ _____
Painters (IUPAT) Local 1959 Date
(907) 562-8843

By:

_____ _____
Plumbers & Steamfitters UA Local 367 Date
(907) 562-2810

By:

_____ _____
Roofers Local 189 Date
(509) 327-2322

By:

_____ _____
Sheet Metal Workers Local 23 Date
(907) 277-5313

By:

_____ _____
Sprinkler Fitters Local 669 Date
(907) 283-8198

By:

_____ _____
Teamster Local 959 Date
(907) 751-8500

ATTACHMENT 1 - LETTER OF ASSENT

COMMUNITY WORKFORCE AGREEMENT FOR THE

_____ PROJECT

The undersigned, as a Contractor or subcontractor on the _____ Project, for and in consideration of the award of a Contract to perform work on said Project, and in further consideration of the mutual promises made in the Community Workforce Agreement (CWA), a copy of which was received, reviewed, is understood, and acknowledged, hereby:

a. On behalf of itself and all its employees, accepts and agrees to be bound by the terms and conditions of the CWA, together with any and all amendments and supplements, such as individual signatory labor organization's Schedule A's, now existing or that are later made thereto, and understands that any act of non-compliance with all such terms and conditions, will subject the non-complying Contractor or employee(s) to being prohibited from the Project Site until full compliance is obtained.

b. Certifies that it has no commitments or agreements that would preclude its full compliance with the terms and conditions of said CWA.

c. Agrees to secure from any subcontractor, of any tier (as defined in the CWA), a duly executed Letter of Assent in form identical to this document prior to commencement of any Covered Work.

Dated: _____

(Name of Contractor/Company) _____

(Signature of Authorized Representative) _____

(Print Name and Title) _____

(Phone Number) _____

(Billing Address) _____

(City, State and Zip Code) _____

(General Contractor) _____

(Contract Number) _____

ATTACHMENT 2 – CORE EMPLOYEE ROSTER

COMMUNITY WORKFORCE AGREEMENT FOR THE

_____ PROJECT

Contractor or subcontractor Name: _____

Per Article 14, and in accordance with the qualifications listed in Section 14.6, the following shall be considered our core employees for this project:

	Name	Classification
1)	_____	_____
2)	_____	_____
3)	_____	_____
4)	_____	_____
5)	_____	_____
6)	_____	_____
7)	_____	_____
8)	_____	_____
9)	_____	_____
10)	_____	_____

Submitted By:

_____ _____
Contractor/subcontractor Date

Page _____ of _____

ATTACHMENT 3 – EMPLOYEE REPRESENTATIVES

COMMUNITY WORKFORCE AGREEMENT FOR THE

_____ PROJECT

Per Section 10.2, the following are the designated Employee Representatives:

Labor Organization: _____

Mailing Address: _____

City: _____ State: _____ Zip:_____

Physical Address: _____

City: _____ State: _____ Zip:_____

Primary Representative: _____

Cell Phone: _____ Office Phone: _____

Email Address: _____

Alternate Representative: _____

Cell Phone: _____ Office Phone: _____

Email Address: _____

By:

_____ _____
Signatory Labor Organization Date

ATTACHMENT 4 – PAC DISPUTE

COMMUNITY WORKFORCE AGREEMENT FOR THE

_____ PROJECT

CWA Administrator: _____

Party/Parties Filing Dispute: _____

Point of Contact: _____ Phone: _____

Date of Occurrence: _____

Statement of Dispute: _____

_____

_____

CWA Articles or sections that Apply: _____

_____

_____

Recommended Remedy: _____

_____

_____

By:

_____ _____
Signatory Date

ATTACHMENT 5 – ALTERNATIVE BENEFITS REQUEST

COMMUNITY WORKFORCE AGREEMENT FOR THE

_____ PROJECT

CWA Administrator: _____ Date: _____

Contractor/subcontractor requesting: _____

Point of Contact: _____ Phone: _____

Signatory Labor Organization Affected: _____

This request to meet and confer about alternative benefit arrangements for core employees shall also include the following:

1) A copy of the Contractor's or subcContractor's Health and Welfare and/or Pension plan; and

2) A list of the core employees who will be employed on the Project to whom the exemption will be applied and for whom the Contractor's or subcontractor's benefit plan coverage and payment of costs will be maintained; and

3) A calculation of the combined Contractor or subcontractor and employee costs for such programs expressed as an hourly cost based upon an assumed average monthly work hours of one hundred and sixty (160) hours.

The requested terms and conditions of alternative benefits for the requested core employees must be approved by the Signatory Labor Organization, and are as follows;

A. The core employees in this request shall be paid in accordance to the agreed terms for the duration of their employment on the Project. Any core employee may request in writing to cease participation in the Contractor's or subcontractor's plan. Effective on the date of the request, the Contractor or subcontractor shall make contributions on that employee's behalf to the appropriate Trust Fund for the duration of employment on the project.

B. For all other employees not submitted with this request, shall have their contributions paid to the applicable Trust Funds in accordance with the terms of the CWA.

C. Copies of all remittance forms confirming compliance with all Trust or benefit program requirements shall be submitted monthly to the Administrator.

D. If the Contractor or subcontractor has only one of the two qualifying benefits, either Pension or Health and Welfare plans, and not the other, the Contractor then must participate in the appropriate Trust Fund for the benefit that they do not provide.

E. Any difference between the Contractor or subcontractor benefit amount and the Signatory Labor organization benefit amount shall be paid on the check so that the total is equal to the appropriate prevailing wage determination.

F. The Contractor or subcontractors must pay the prevailed amount into the appropriate Training Trust Funds for the appropriate Signatory Labor Organization.

G. These conditions may be altered by mutual agreement, in writing, only by the Contractors or subcontractors signing this appendix and the signatory labor organization affected.

Submitted By:

_____ _____
Contractor or subcontractor Date

Alternative benefits as requested are Agreed and approved by:

_____ _____
Signatory Labor Organization Date

Stantec

Klatt Elementary School Loading Dock Awning

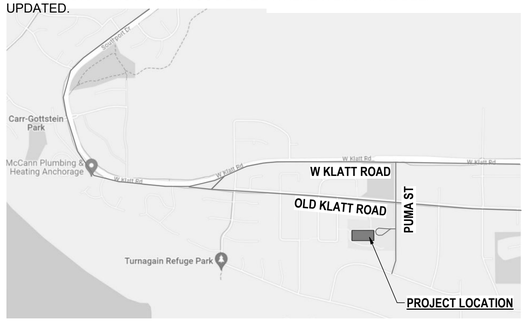
11900 Puma St
Anchorage, AK 99515

Anchorage School District
Project: 245011

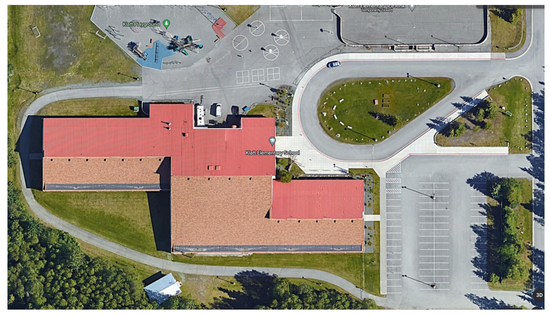
JULY 31, 2025

100% Construction Documents

THIS SET WAS ORIGINALLY PUBLISHED ON FEBRURY 21,2024 AND INCLUDES STAMPED DRAWINGS OF VARIOUS DATES WHERE ITEMS HAVE BEEN UPDATED.



VICINITY MAP



KLATT ELEMENTARY SCHOOL AERIAL

N

STANTEC TEAM

ARCHITECTURE
KAREN ZACCARO
725 EAST FIREWEED LANE SUITE 200
ANCHORAGE AK, 99503
TEL: 907-343-5215

STRUCTURAL ENGINEER
BRUCE HOPPER
725 EAST FIREWEED LANE SUITE 200
ANCHORAGE AK, 99503
TEL: 907-343-5231

CIVIL ENGINEER
JAKE ALWARD
725 EAST FIREWEED LANE SUITE 200
ANCHORAGE AK, 99503
TEL: 907- 231-0669

FIRE PROTECTION
KODY KENDALL
101 E DIAMOND ST SUITE 400,
BUTLER, PA 16001
TEL: 724 477 1240

MECHANICAL ENGINEER
MICHAEL MACEDO
725 EAST FIREWEED LANE SUITE 200
ANCHORAGE AK, 99503
TEL: 907-343- 5211

ELECTRICAL ENGINEER
COREY ROGERS
725 EAST FIREWEED LANE SUITE 200
ANCHORAGE AK, 99503
TEL: 907-343-5266

HAZMAT
DENNIS MORRIS
962 NORTH MERIDIAN PLACE, SUITE 1B
WASILLA AK, 99654-7215
TEL: (907) 343-5156

PROJECT DESCRIPTION

THIS PROJECT CONSISTS OF THE ADDITION OF AN INDEPENDENTLY SUPPORTED FLAT ROOF CANOPY OVER THE LOADING DOCK AREA OF THE EXISTING SCHOOL. THE PRIMARY PURPOSE OF THE CANOPY IS TO PROTECT PERSONS AND PROPERTY AT THE LOADING DOCK AREA FROM SNOW AND ICE FALLING FROM THE SLOPED ROOFS ABOVE.

THE RELATED SCOPE INCLUDES A STEEL FRAMED FLAT ROOF STRUCTURE WITH EPDM ROOF, REPLACEMENT OF CONCRETE STAIRS AND RAILING, ADDITION OF CONCRETE RAMP AND RAILING, REPLACEMENT OF ONE EXTERIOR DOOR AND FRAME, EXTERIOR FINISH OF CANOPY FASCIA WITH EIFS TO MATCH EXISTING EXTERIOR FINISH, PRIMARY ROOF DRAINS TO STORM DRAIN AND OVERFLOW DRAINS TO DAYLIGHT, PATCH AND REPAIR OF PAVEMENT, BOLLARD ADDITION/REPLACEMENTS AND MINOR REPAIRS OF THE EXISTING EIFS FINISH AT WALLS IMMEDIATELY ADJACENT TO THE NEW CANOPY AREA.

THERE ARE NO INCREASES TO INTERIOR AREAS AS A RESULT OF THIS PROJECT.

THE USE OF THE BUILDING AND THE SPACES WITHIN WILL NOT CHANGE DUE TO THIS PROJECT.

THE OCCUPANT LOAD WILL NOT CHANGE AS A RESULT OF THIS PROJECT.

SHEET INDEX

NUMBER	NAME
GENERAL	
G-001	COVER SHEET
G-002	ABBREVIATIONS AND GENERAL NOTES
CIVIL	
C-101	EXISTING AND DEMOLITION PLAN
C-102	SITE PLAN
C-201	SD PLAN AND PROFILE
C-501	DETAILS
STRUCTURAL	
S-001	GENERAL STRUCTURAL NOTES
S-002	TESTING AND INSPECTION
S-003	TESTING AND INSPECTIONS
S-004	AXONMETRIC VIEWS
S-101	CANOPY FOUNDATION PLAN
S-102	ORTHOGRAPHIC VIEW OF FOUNDATION
S-103	CANOPY RAMP AND STAIR PLAN
S-201	CANOPY ROOF FRAMING
S-202	CANOPY ROOF SNOW DRIFT LOAD PLAN
S-401	FRAMING ELEVATIONS
S-402	FRAMING ELEVATIONS
S-511	FOUNDATION DETAILS
S-512	CANOPY RAMP AND STAIR DETAILS
S-521	ROOF FRAMING DETAILS
S-522	ROOF FRAMING DETAILS
S-523	ROOF FRAMING DETAILS
S-524	ROOF FRAMING DETAILS
S-525	ROOF FRAMING DETAILS
ARCHITECTURAL	
A-101D	PLANS - DEMOLITION
A-102	PLANS - NEW
A-201D	EXISTING CONDITION IMAGES
A-202D	EXISTING CONDITION IMAGES
A-203	ELEVATIONS
A-301	SECTIONS
A-501	DETAILS
A-502	DETAILS
A-503	ENLARGED STAIRS AND RAMP
FIRE PROTECTION	
F001	FIRE PROTECTION LEGEND, SCHEDULES, AND ABBREVIATION
F002	FIRE PROTECTION SPECIFICATIONS
F102	CANOPY FIRE PROTECTION PLAN
MECHANICAL	
P001	LEGEND, SCHEDULES, AND ABBREVIATIONS
P101	CANOPY DEMOLITION PLAN - KLATT
P102	CANOPY PLUMBING PLAN - KLATT
P-201	SCHEDULES, SPECIFICATIONS, AND SEQUENCE
ELECTRICAL	
E-102	FLOOR PLAN ELECTRICAL DEMO - KLATT
E-103	CANOPY PLAN ELECTRICAL NEW WORK - KLATT
E-104	CANOPY ROOF PLAN ELECTRICAL - KLATT
E-105	ATS REPLACEMENT KLATT ALTERNATE 1
SURVEY	
SVRY-001	SURVEY CONTROL

PERMIT STAMP

Notification of Potential Hazards:

Asbestos, lead and other potentially hazardous materials are present in the building that may impact the work of all trades. Regulated air contaminants, including asbestos and lead, are also present in settled and concealed dust in and on architectural, structural, mechanical and electrical components or systems throughout the building. All trades shall coordinate with other trades and conduct their work to prevent worker exposure or site contamination. Refer to Specification Divisions 0, 1 and 2 for specific information concerning disturbing, removing and disposing of these materials and the installation of new materials or components. This notification is provided in accordance with EPA and OSHA requirements.

Notification of Child Occupied Facility:

Portions of this building are classified as a Child Occupied Facility in accordance with 40 CFR 745 and lead-based paints may be present on components to be disturbed in those areas. Personnel performing work in these areas must comply with the requirements of 40 CFR 745, including training, work practices and cleaning of the work area. Refer to Specification Divisions 0, 1 and 2 for specific information concerning disturbing, removing and disposing of lead materials and the installation of new materials or components. This notification is provided in accordance with EPA and OSHA requirements.

STATE OF ALASKA
49 TH
Karen Zaccaro
Karen Zaccaro
No. 13383
7/31/25
REGISTERED PROFESSIONAL ARCHITECT

G-001

The professional's seal on the cover sheet represents that the information on the cover sheet is accurate in designer's professional opinion but does not assume professional responsibility for documents sealed by others that are referenced on the cover sheet. All professionals sealing drawings as a part of the design are professionally responsible for their own sealed documents.

Stantec Project Number: 2014295940

GENERAL DEMOLITION

A. FIELD VERIFY EXISTING CONDITIONS WITHIN THE AREA OF WORK.

B. SCOPE OF DEMOLITION IS INDICATED TO THE GREATEST EXTENT POSSIBLE BASED ON THE INFORMATION PROVIDED TO THE DESIGN TEAM BY ASD AND OBSERVATIONS AT SITE VISITS; CONTRACT INCLUDES ALL DEMOLITION REQUIRED TO BE PERFORMED TO INSTALL NEW WORK.

C. COORDINATE DEMOLITION WORK WITH NEW WORK SHEETS. ALL ITEMS IDENTIFIED AS EXISTING TO REMAIN SHALL BE PROTECTED FROM DAMAGE FOR THE DURATION OF THE PROJECT. IF DAMAGE OCCURS, THE ITEMS WILL BE REPLACED WITH NEW AT NO ADDITIONAL COST TO THE OWNER.

D. REFER TO ELECTRICAL/MECHANICAL DRAWINGS FOR ADDITIONAL DEMOLITION AND NEW WORK REQUIREMENTS.

E. THE OWNER HAS FIRST RIGHTS OF SALVAGE OF ALL FIXTURES, EQUIPMENT AND BUILDING MATERIALS REMOVED AS PART OF THE DEMOLITION AND NOT REUSED IN THE NEW CONSTRUCTION. REMOVE ALL OTHER DEBRIS AND WASTE FROM THE SITE AND DISPOSE OF PROPERLY, IN ACCORDANCE WITH ANY APPLICABLE FEDERAL, STATE, AND LOCAL REGULATIONS.

F. PRIOR TO START OF DEMOLITION, SECURE FROM THE OWNER A LIST OF ADDITIONAL EXISTING BUILDING COMPONENTS TO BE SALVAGED AND DELIVERED TO THE OWNER. EXERCISE SUFFICIENT CARE IN SALVAGE OPERATIONS SUCH THAT SALVAGED COMPONENTS ARE DELIVERED TO THE OWNER IN THEIR EXISTING CONDITION.

G. PROTECT EXISTING SURFACES TO REMAIN DURING DEMOLITION AND NEW WORK. RESTORE TO ORIGINAL CONDITION ALL EXISTING PARTITIONS, CEILINGS, AND FINISHES TO REMAIN, WHICH HAVE BEEN AFFECTED BY DEMOLITION OR NEW WORK. ALL ITEMS INDICATED AS EXISTING TO REMAIN SHALL BE MAINTAINED AND REMAIN OPERATIONAL AT THE COMPLETION OF THE WORK.

H. PROVIDE MATERIALS FOR CUTTING AND PATCHING WHICH WILL RESULT IN EQUAL-OR-BETTER WORK THAN THAT BEING CUT OR PATCHED.

I. REMOVE EXISTING CONSTRUCTION SO AS NOT TO DAMAGE EXISTING CONSTRUCTION THAT IS TO REMAIN. PATCH IN A RECTANGULAR PATTERN TO MATCH EXISTING CONDITIONS AND MAKE THEM READY TO RECEIVE ANY NEW FINISHES INDICATED.

J. GENERAL CONTRACTOR TO COORDINATE WITH OWNER FOR LOCATION OF LAY-DOWN-AREA.

GENERAL NOTES

1. THE CONTRACTOR SHALL PROTECT THE EXISTING FACILITIES AND SURROUNDING GROUNDS DURING CONSTRUCTION. ALL AFFECTED AREAS SHALL BE RESTORED TO EXISTING CONDITIONS BY THE CONTRACTOR AT THE CONCLUSION OF CONSTRUCTION ACTIVITIES.
2. THE CONTRACTOR SHALL FIELD VERIFY ALL PROJECT-RELATED NEW AND/OR EXISTING CONDITIONS, INCLUDING DIMENSIONS, PRIOR TO THE COMMENCEMENT OF WORK. PROMPTLY NOTIFY THE ARCHITECT AND OWNER'S REPRESENTATIVE IN WRITING OF ALL DISCREPANCIES AND/OR UNANTICIPATED CONDITIONS OBSERVED.
3. DIMENSIONS TAKE PRECEDENCE OVER DRAWINGS. DO NOT SCALE DRAWINGS. THE OWNER SHALL BE NOTIFIED IF ANY DISCREPANCY OCCURS PRIOR TO CONTINUING WITH WORK.
4. THE CONTRACTOR SHALL BEAR ALL EXPENSE OF REPAIR OR REPLACEMENT OF PROPERTY DAMAGED BY OPERATIONS IN CONJUNCTION WITH THE PERFORMANCE OF THE WORK.
5. DO NOT OBSTRUCT STREETS, SIDEWALKS, OR OTHER RIGHT-OF-WAYS WITHOUT FIRST OBTAINING PROPER PERMITS.
6. ALL WORK SHALL BE ACCOMPLISHED WITH QUALITY WORKMANSHIP, AND TO INDUSTRY STANDARDS. ALL MATERIALS SHALL BE INSTALLED IN STRICT ACCORDANCE WITH MANUFACTURERS' INSTRUCTIONS RECOMMENDATIONS AND NATIONAL TRADE GROUP STANDARDS UON.
7. AHJ APPROVED PLANS SHALL BE KEPT ON SITE. ALL CONSTRUCTION SETS SHALL REFLECT SAME INFORMATION. AT LEAST ONE AS-BUILT/REDLINE RECORD SET SHALL BE KEPT UPDATED BY THE CONTRACTOR AS THE PROJECT PROGRESSES.
8. THE CONTRACTOR SHALL REMOVE ALL DEMOLISHED MATERIALS AND CONSTRUCTION DEBRIS FROM PREMISES AND ALL AREAS WITHIN THE AREA OF WORK SHALL BE LEFT IN A CLEAN (BROOM) CONDITION AT THE END OF EACH WORK DAY. COMBUSTIBLE DEBRIS SHALL NOT BE PERMITTED TO ACCUMULATE.
9. THE CONTRACTOR SHALL TAKE ALL NECESSARY PRECAUTIONS TO ENSURE THE SAFETY OF THE OCCUPANTS AND WORKERS AT ALL TIMES.
10. THESE DOCUMENTS HAVE BEEN PRODUCED AT DRAWING SCALES RELATED TO THEIR FULL-SIZE (22 INCH X 34 INCH). ANY DEVIATIONS FROM THIS FORMAT SIZE MAY PRODUCE DRAWING COPIES THAT ARE NOT TO SCALE. DO NOT SCALE THE DRAWINGS.
11. CONTRACTOR SHALL MINIMIZE THE AMOUNT OF DUST AND FUMES GENERATED AND SHALL PROHIBIT THE PASSAGE OF DUST AND FUMES BETWEEN THE WORK AREA AND THE AREAS THAT WILL BE REMAINING IN USE. CONTRACTOR SHALL SUBMIT AN INDOOR AIRQUALITY CONTROL PLAN TO THE OWNER AND ARCHITECT THAT WILL TAKE INTO ACCOUNT DUST AND FUME CONTROLS DURING BOTH DEMOLITION AND CONSTRUCTION.
12. CONTRACTOR SHALL MINIMIZE THE AMOUNT OF NOISE GENERATED DURING REGULARLY OCCUPIED HOURS. ACTIVITIES GENERATING EXCESSIVE SUSTAINED NOISE (ABOVE 60dB, NORMAL CONVERSATION LEVEL) SHALL BE COORDINATED WITH THE OWNER TO OCCUR OUTSIDE OF REGULAR HOURS. THIS INCLUDES SUCH ACTIVITIES, BUT IS NOT LIMITED TO: SAWCUTTING, JACK-HAMMERING, SCREW FASTENING WITH POWER TOOLS, HAMMERING, DRILLING, AND/OR USE OF AN AIR COMPRESSOR.
13. OWNER IS RESPONSIBLE FOR ALL MOVEABLE EQUIPMENT AND FURNITURE, AND SHALL HAVE THE AREA OF WORK CLEARED OF ALL SUCH ITEMS, AS WELL AS ALL AFFECTED EMPLOYEE'S PERSONAL EFFECTS AND SUPPLIES, PRIOR TO THE START OF CONSTRUCTION, AND IS RESPONSIBLE FOR RELOCATING SAID ITEMS AFTER SUBSTANTIAL COMPLETION.
14. THESE PLANS DOES NOT INCORPORATE ANY DETAILED PHASING REQUIREMENTS. IT IS ASSUMED THE AREA OF WORK WILL BE AVAILABLE IN ITS ENTIRETY TO THE CONTRACTOR FOR THE DURATION OF CONSTRUCTION, SUBJECT TO ANY OTHER RESTRICTIONS LISTED IN THE CONSTRUCTION DOCUMENTS OR IN THE CONSTRUCTION CONTRACT. THE CONTRACTOR SHALL SUBMIT A WORK PLAN INCLUDING A DETAILED SCHEDULE FOR APPROVAL BY THE OWNER.
15. GENERAL CONTRACTOR TO COORDINATE WITH OWNER FOR LOCATION OF LAY-DOWN-AREA.

BUILDING CODE DATA

CODE AT TIME OF ORIGINAL CONSTRUCTION
1979 UBC, 1979 UFC
SEISMIC ZONE 4
CONSTRUCTION TYPE V-N
OCCUPANCY E-1
TOTAL FLOOR AREA 50,160 SF

CURRENT CODES
2018 IBC ADOPTED BY THE MUNICIPALITY OF ANCHORAGE WITH AMENDMENTS.
2018 IEBC ADOPTED BY THE MUNICIPALITY OF ANCHORAGE WITH AMENDMENTS.
2018 IFC ADOPTED BY THE MUNICIPALITY OF ANCHORAGE WITH AMENDMENTS.
2020 NEC ADOPTED BY THE MUNICIPALITY OF ANCHORAGE WITH AMENDMENTS.
ANSI 117.1 2017 ACCESSIBILITY STANDARD
ASD B3000 - ROOFING STANDARDS 6-2021
ASD ARCHITECTURAL STANDARDS - 2023
ASD DESIGN STANDARDS 2021-2023

THE WORK OF THIS PROJECT IS EXTERIOR TO THE BUILDING AND THEREFORE NO UPDATES TO INTERIOR CODE REVIEW ARE INCLUDED.

THE PROJECT INCLUDES REPLACING ONE SET OF EXISTING STAIRS AND ADDING A RAMP TO SERVE THAT ONE EXISTING EXIT.
THESE EXTERIOR IMPROVEMENTS DO NOT AFFECT THE EXISTING INTERIOR EGRESS SAFETY PLAN.

THE ALLOWABLE AREA BY UBC AT TIME OF CONSTRUCTION = 54,600 SF
ACTUAL BUILDING AREA AT TIME OF CONSTRUCTION = 50,160 SF
NEW CANOPY = 1,500 SQ FT
TOTAL NEW BUILDING AREA = 51,660 SQ FT

ALLOWABLE AREA PER 2018 IBC
38,000 + 38,000 X 0.75 FRONTAGE INCREASE = 66,500 SQ FT.

THIS PROJECT COMPLIES WITH IEBC 2018 IEBC LEVEL 1 ALTERATION INCLUDING CHAPTERS 3, 4 AND 7 AND MOA AMENDMENTS.

NEW LIQUID APPLIED WEAR LAYER AND EPDM ROOF TO BE CLASS A
UL OR FM DATA FOR THE NEW ROOF WILL BE PROVIDED AS A DEFERRED SUBMITTAL BY THE CONTRACTOR.

THE RAMP IS LESS THAN 30 INCHES ABOVE GRADE. HANDRAILS AND EDGE PROTECTION WILL BE PROVIDED. GUARDS ARE NOT REQUIRED PER IBC 1012.9.

TITLE 21

THE WORK OF THIS PROJECT DOES NOT PROJECT ANY BUILDING ELEMENT, CANOPY OR OTHERWISE BEYOND THE EXISTING FOOTPRINT OF THE SCHOOL AND THEREFORE THERE ARE NO IMPACT TO EXISTING SETBACKS.

NO CHANGES TO PLAYGROUND, VEHICULAR OR PEDESTRIAN WALKWAYS

THIS ARE OF THE SCHOOL SITE DOES NOT ABUT A RESIDENTIAL AREA AND IS INTERNAL TO THE OVERALL SCHOOL SITE. NO ADDITIONAL VISUAL ENHANCEMENTS ARE REQUIRED.

NO CHANGES TO THE AMOUNT OF NON-PERMEABLE SURFACES WILL RESULT FROM THIS PROJECT.

NO CHANGES TO THE SNOW STORAGE REMOVAL PLAN AS A RESULT OF THIS PROJECT.

DUMPSTERS ARE MORE THAN 300 FEET OFF THE STREET OR RIGHT OF WAY AND ARE NOT REQUIRED TO BE SCREENED FROM STREETS AND RIGHT OF WAYS

MECHANICAL EQUIPMENT IS MORE THAN 40 FEET AWAY FROM ABUTTING RIGHT OF WAY OR STREET THEREFORE SCREENING IS NOT REQUIRED

PERMIT STAMP

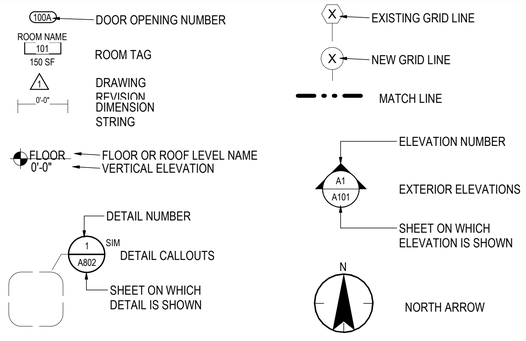
Notification of Potential Hazards:

Asbestos, lead and other potentially hazardous materials are present in the building that may impact the work of all trades. Regulated air contaminants, including asbestos and lead, are also present in settled and concealed dust in and on architectural, structural, mechanical and electrical components or systems throughout the building. All trades shall coordinate with other trades and conduct their work to prevent worker exposure or site contamination. Refer to Specification Divisions 0, 1 and 2 for specific information concerning disturbing, removing and disposing of these materials and the installation of new materials or components. This notification is provided in accordance with EPA and OSHA requirements.

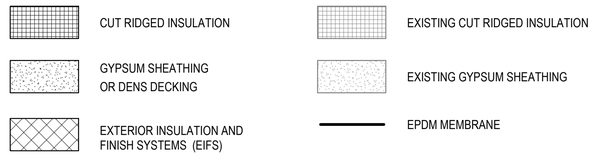
Notification of Child Occupied Facility:

Portions of this building are classified as a Child Occupied Facility in accordance with 40 CFR 745 and lead-based paints may be present on components to be disturbed in those areas. Personnel performing work in these areas must comply with the requirements of 40 CFR 745, including training, work practices and cleaning of the work area. Refer to Specification Divisions 0, 1 and 2 for specific information concerning disturbing, removing and disposing of lead materials and the installation of new materials or components. This notification is provided in accordance with EPA and OSHA requirements.

SYMBOL LEGEND



MATERIAL LEGEND



ABBREVIATIONS

ABV	Above
AHJ	Authority Having Jurisdiction
ARGWB	Abuse Resistant Gypsum Wall Board
A/IRGWB	Abuse & Impact Resistant Gypsum Wall Board
ALT.	Alternate
AL. ALUM	Aluminum
APPROX	Approximate
ARCH.	Architectural, Architect
BLW	Below
BLK	Black
BLKG	Blocking
BD	Board
BOB	Bottom of Beam
BOT	Bottom
BLDG	Building
CTR	Center
CIR	Circle
CONT	Construction
CONTR	Contractor
COORD	Coordinate
DEMO	Demolition
DET	Detail
DIFF	Difference
DIM.	Dimension
DIS	Distance
EA	Each
EIFS	Exterior Insulation and Finish Systems
ELEC	Electric
\EXIST, (E)	Existing
FOS	Face of Studs
FOW	Face of Wall
FT	Foot
GA	Gage (gauge)
GEN	General
GWB	Gypsum Wallboard
HM	Hollow Metal
IN	Inch
INSTL	Install
MFR	Manufacturer
MAX	Maximum
MECH	Mechanical
MTL	Metal
MIN	Minimum
MISC	Miscellaneous
NEC	National Electrical Code
N/A	Not Applicable
NIC	Not in Contract
NTS	Not to Scale
OC	On Center
RCPT	Receptacle
REF	Reference
REPL	Replace
REQD	Required
REV.	Revision
RM	Room
RO	Rough Opening
SIM	Similar
SPEC	Specifications
SQ FT	Square Foot
SQ IN	Square Inch
SSTL	Stainless Steel
STL	Steel
STRUCT	Structure, structural
SA	Supply Air
TYP	Typical
UON	Unless Otherwise Noted
VIF	Verify in Field
W/	With
W/O	Without
WD	Wood

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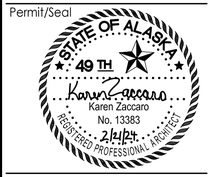
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No.	Revision	By	Appd	YYYY.MM.DD

No.	Issued	By	Appd	YYYY.MM.DD

Permit/Seal



Anchorage School District
ASD PROJECT #245011

Klatt ES
Loading Dock Canopy

100% CONSTRUCTION DOCUMENTS

11900 Puma Street
Anchorage, AK 99515

Project No.: 2014295940
File Name: N/A

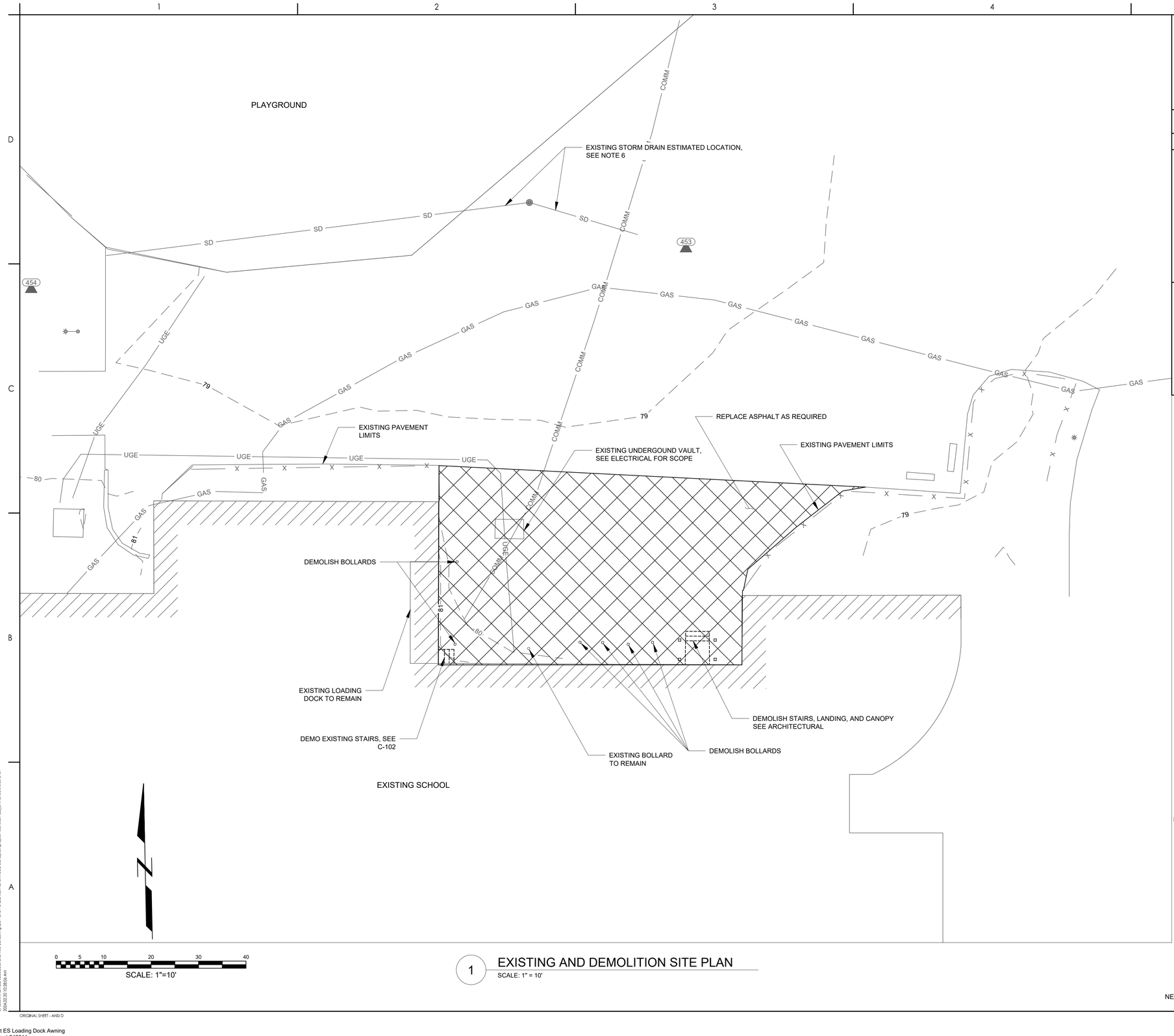
SO	KZ	EJD	02/21/2024
Dwn.	Dsgn.	Chkd.	YYYY.MM.DD

Title
ABBREVIATIONS AND GENERAL NOTES

Scale: As indicated
Revision:
Drawing No. **G-002**

<Pick location in Project Information>
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ORIGINAL SHEET - ANSI D



1 EXISTING AND DEMOLITION SITE PLAN

SCALE: 1" = 10'

NOTIFICATION OF POTENTIAL HAZARDS:

ASBESTOS, LEAD AND OTHER POTENTIALLY HAZARDOUS MATERIALS ARE PRESENT IN THE BUILDING THAT MAY IMPACT THE WORK OF ALL REGULATED AIR CONTAMINANTS, INCLUDING ASBESTOS AND LEAD, ARE ALSO PRESENT IN SETTLED AND CONCEALED DUST IN AND ON ARCHITECTURAL, STRUCTURAL, MECHANICAL AND ELECTRICAL COMPONENTS OR SYSTEMS THROUGHOUT THE BUILDING. ALL TRADES SHALL COORDINATE WITH OTHER TRADES AND CONDUCT THEIR WORK TO PREVENT WORKER EXPOSURE OR SITE CONTAMINATION. REFER TO SPECIFICATION DIVISIONS 0, 1 AND 2 FOR SPECIFIC INFORMATION CONCERNING DISTURBING, REMOVING AND DISPOSING OF THESE MATERIALS AND THE INSTALLATION OF NEW MATERIALS OR COMPONENTS. THIS NOTIFICATION IS PROVIDED IN ACCORDANCE WITH EPA AND OSHA REQUIREMENTS.

NOTIFICATION OF CHILD OCCUPIED FACILITY:

PORTIONS OF THIS BUILDING ARE CLASSIFIED AS A CHILD OCCUPIED FACILITY IN ACCORDANCE WITH 40 CFR 745 AND LEAD-BASED PAINTS MAY BE PRESENT ON COMPONENTS TO BE DISTURBED IN THOSE PERSONNEL PERFORMING WORK IN THESE AREAS MUST COMPLY WITH THE REQUIREMENTS OF 40 CFR 745, INCLUDING TRAINING, WORK PRACTICES AND CLEANING OF THE WORK AREA. REFER TO SPECIFICATION DIVISIONS 0, 1 AND 2 FOR SPECIFIC INFORMATION CONCERNING DISTURBING, REMOVING AND DISPOSING OF LEAD MATERIALS AND THE INSTALLATION OF NEW MATERIALS OR COMPONENTS. THIS NOTIFICATION IS PROVIDED IN ACCORDANCE WITH EPA AND OSHA REQUIREMENTS.

NOTES:

1. ALL CONSTRUCTION SHALL BE IN ACCORDANCE WITH THE MOST CURRENT VERSION OF THE MUNICIPALITY OF ANCHORAGE STANDARD SPECIFICATIONS (MASS) AND PROJECT SPECIFICATION.
2. CONTRACTOR SHALL BE RESPONSIBLE FOR EROSION AND SEDIMENT CONTROLS AN NECESSARY TO COMPLY WITH FEDERAL, STATE, AND LOCAL POLICY. THE CONTRACTOR SHALL MEET ALL REQUIREMENTS SET FORTH UNDER THE ADEC GENERAL PERMIT. THE CONTRACTOR SHALL CONDUCT ALL WORK SO SEDIMENT IS NOT TRANSPORTED ONTO THE ROADWAY OR ADJACENT PROPERTY.
3. CONCRETE SHALL BE 3000 PSI MINIMUM, CLASS A-3 OR BETTER.
4. DEBRIS SHALL BE DISPOSED OF OFFSITE AT A LEGAL LANDFILL SELECTED BY THE CONTRACTOR.
5. CONTRACTOR SHALL BE RESPONSIBLE FOR COORDINATING CONSTRUCTION ACTIVITIES WITH THE UTILITY AND OBTAINING ALL NECESSARY CONSTRUCTION PERMITS.
6. ALL UTILITY LOCATIONS SHALL BE FIELD VERIFIED PRIOR TO DEMOLITION ACTIVITIES.
7. DUMPSTER SHALL BE RELOCATED BY CONTRACTOR PER OWNER DIRECTION.
8. THE ORIGINAL SURVEY WAS DONE PRIOR TO 1988 AND LIKELY USED THE NATIONAL GEODETIC VERTICAL DATUM OF 1929 (NGVD29) OR A LOCAL SYSTEM WAS CREATED, WHEREAS THE CURRENT DATUM WAS COLLECTED IN THE NORTH AMERICA VERTICAL DATUM OF 1988 (NAVD88). THE LATEST SURVEY DATUM RESULTS IN DISCREPANCIES BETWEEN THE ORIGINAL AND LATEST SURVEY.

LEGEND

EXISTING BUILDING	
EDGE OF ASPHALT	
EXISTING CONTOURS	80
EXISTING FENCE	X X
EXISTING UG COMM	COMM
EXISTING UG ELECTRICAL	UGE
EXISTING UG GAS	GAS
EXISTING UG STORM DRAIN	SD SD
PROPOSED UG STORM DRAIN	SD SD
SET ALUMINUM CAP	
SPIKE/MAG NAIL	
COMM PEDESTAL	
ELECTRICAL CABINET	
ELECTRICAL PEDESTAL	
TRANSFORMER	
CATCH BASIN	
LIGHT POLE W/ MAST	
LIGHT POLE	
STORM DRAIN MANHOLE	
TRAFFIC SIGN	
NEW BOLLARD	
EXISTING BOLLARD	
DEMO BOLLARD	
NEW COLUMN AND PROTECTOR	

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Permit/Seal

STATE OF ALASKA
49TH
Nicholas Arnold
02/21/2024
No. CE14751
REGISTERED PROFESSIONAL ENGINEER

Client/Project
Anchorage School District
Project No. 245011

Klatt Elementary School
Loading Dock Canopy
100% Construction Documents
11900 Puma St
Anchorage, AK 99515

Project No.: 2014295940
File Name: KES-C101

Scale:

NRA	NRA	JA	2023.02.21
Dwn.	Dsgn.	Chkd.	YYYY.MM.DD

Title
EXISTING AND DEMOLITION PLAN

Revision:

Drawing No.
C-101

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ORIGINAL SHEET - ANSI D



PLAYGROUND

64.71 LF 12" CPEP, TYPE S, SEE C-201

CONNECT TO EXISTING STORM DRAIN MANHOLE

ELECTRICAL WORK ANTICIPATED PRIOR TO THIS PROJECT, COORDINATE WITH OWNER IF ADDITIONAL PATCH AND REPAIR ARE NEEDED

BELOW GRADE ELECTRICAL JUNCTION BOX, SEE ELECTRICAL

ROOF DRAIN TO STORM DRAIN OVERFLOW DRAIN DAYLIGHTS AT BASE OF COLUMN, SEE DETAIL A1/C-501

REPAIR OR PATCH (E) PAVEMENT AFTER NEW CONSTRUCTION AS REQUIRED. MAINTAIN 1% MIN SLOPE AWAY FROM BUILDING.

CANOPY ROOF OUTLINE, SEE ARCHITECTURAL

ENTRANCE RAMP AND STAIRS, SEE ARCHITECTURAL

EXISTING PAVEMENT

NEW STAIRS

NEW BOLLARD, TYP SEE DETAIL A4/C-501

EXISTING SCHOOL

STRUCTURAL COLUMN AND PROTECTOR, TYP SEE NOTE 2, 3, AND 4

C1 C-501

453

454

SD COMM GAS UGE 79 80 81

0 5 10 20 30 40

SCALE: 1"=10'

1 SITE PLAN

SCALE: 1" = 10'

NOTIFICATION OF POTENTIAL HAZARDS:

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NOTES:
1. ALL UTILITY LOCATIONS SHALL BE FIELD VERIFIED PRIOR TO DEMOLITION ACTIVITIES.
2. SAW CUT ASPHALT AS REQUIRED FOR COLUMN FOUNDATION CONSTRUCTION, SEE DETAIL C3/C-501
3. REPLACE ASPHALT AS REQUIRED FOR COLUMN FOUNDATION CONSTRUCTION, SEE DETAIL A5/C-501
4. SEE ARCHITECTURAL FOR COLUMN PROTECTION COVERS.

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Revision				
Issued				

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STATE OF ALASKA 49TH
Nicholas Arnold
02/21/2024
No. CE14751
REGISTERED PROFESSIONAL ENGINEER

Client/Project
Anchorage School District
Project No. 245011

Klatt Elementary School
Loading Dock Canopy
100% Construction Documents
11900 Puma St
Anchorage, AK 99515

Project No.: 2014295940

File Name: KES-C102

Scale:

NRA	NRA	JA	2023.02.21
Dwn.	Dsgn.	Chkd.	YYYY.MM.DD

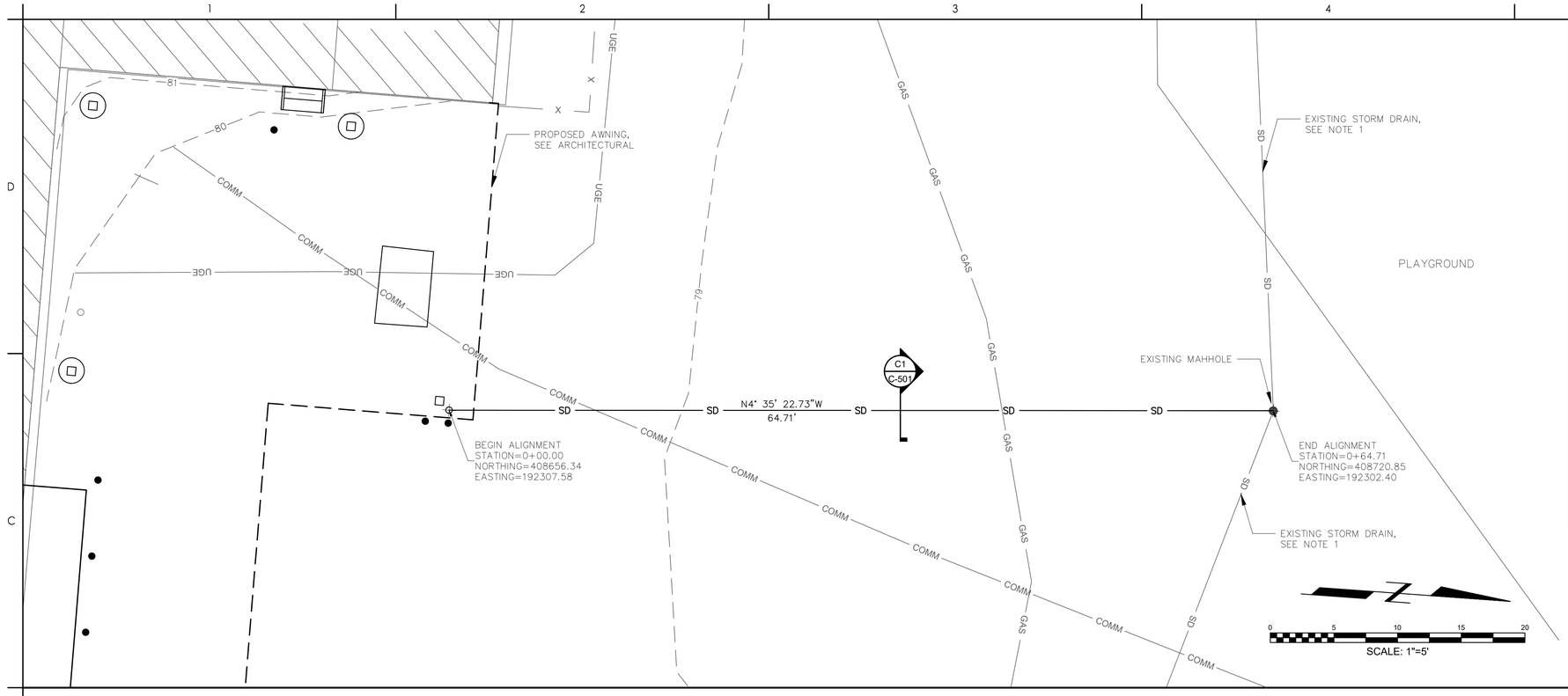
Title
SITE PLAN

Revision:

Drawing No.
C-102

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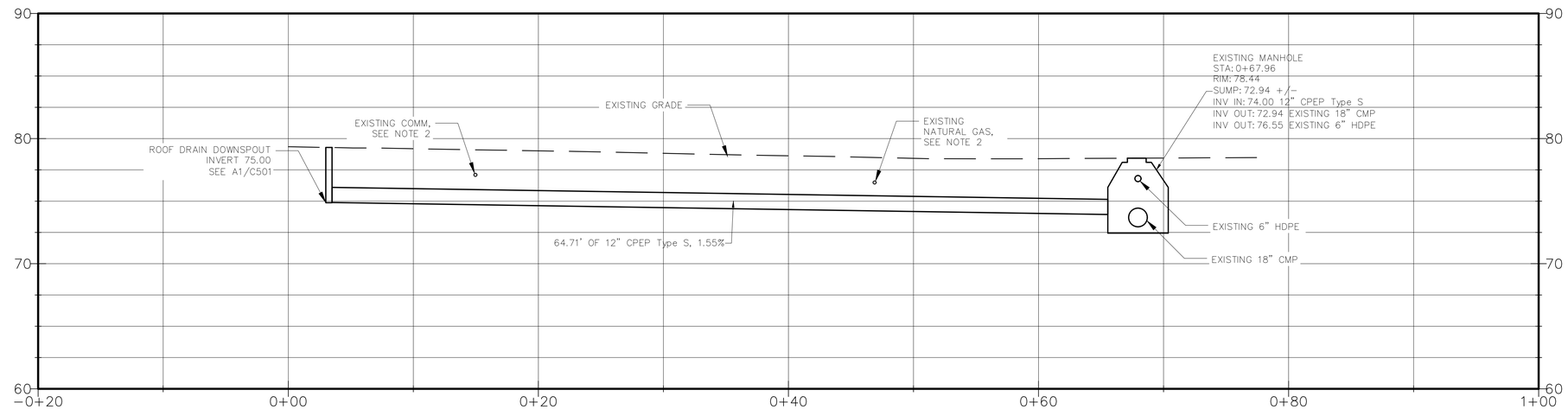
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NOTES:
1. EXISTING LOCATIONS OF STORM DRAIN IS UNKNOWN AND SHOWN USING BEST AVAILABLE INFORMATION. CONTRACTOR SHALL FIELD VERIFY.
2. EXISTING UTILITY LOCATIONS ARE SHOWN WITH APPROXIMATED DEPTH. CONTRACTOR SHALL FIELD VERIFY.



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Client/Project
Anchorage School District
Project No. 245011

Klatt Elementary School
Loading Dock Canopy
100% Construction Documents
11900 Puma St
Anchorage, AK 99515

Project No.: 2014295940
File Name: KES-C201

Scale:

NRA	NRA	JA	2023.02.21
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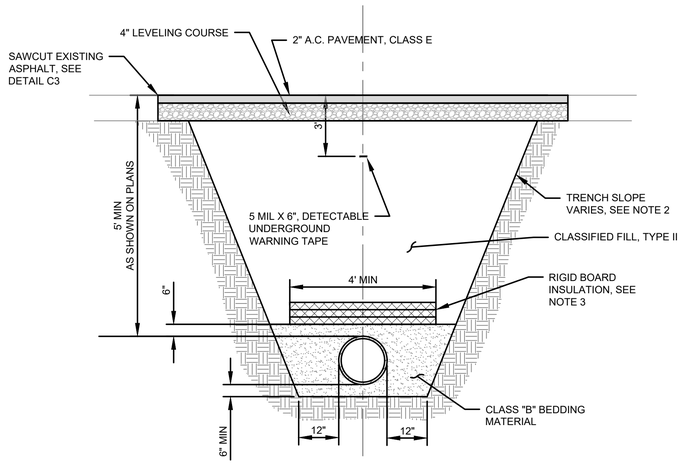
Title
STORM DRAIN
PLAN PROFILE

Revision:

Drawing No.
C-201

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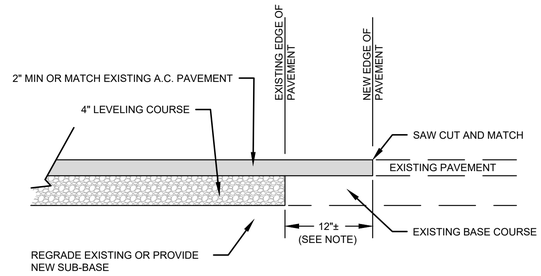
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C1 UTILITY TRENCH - PAVEMENT SECTION
SCALE: N.T.S.

UTILITY TRENCH NOTES:

1. TRENCH BACKFILL MATERIAL PLACED AND COMPACTED TO DEPTHS SHOWN IN THE DRAWINGS OR AS DETERMINED BY ENGINEER. PLACE TRENCH BACKFILL IN LIFTS AND COMPACT TO A MINIMUM OF 95% MAXIMUM DENSITY.
2. TRENCH WALL SLOPES WILL VARY WITH SOIL STRENGTHS AND CHARACTER. SLOPES SHALL CONFORM TO OSHA SAFETY STANDARDS.
3. THREE 2" THICK (UNLESS OTHERWISE NOTED) BY 4' WIDE SHEETS OF BOARD INSULATION, 60 PSI POLYSTYRENE, IS REQUIRED ON ALL PIPING. INSULATION SHALL BE CENTERED OVER THE WATER LINE AND EXTEND TWO ADDITIONAL FEET MINIMUM AT EACH END, SEE MASS DETAIL 20-9.
4. TRENCH EXCAVATION MEETING MATERIAL SPECIFICATIONS MAY BE USED AS BACKFILL.



NOTE: PAVEMENT SHALL BE CUT BACK AS SHOWN TO SOUND, CLEAN EDGE, AFTER PLACEMENT OF LEVELING COURSE. PROVIDE TACK COAT ON EXISTING ASPHALT PAVEMENT BEFORE PLACEMENT OF NEW ASPHALT.

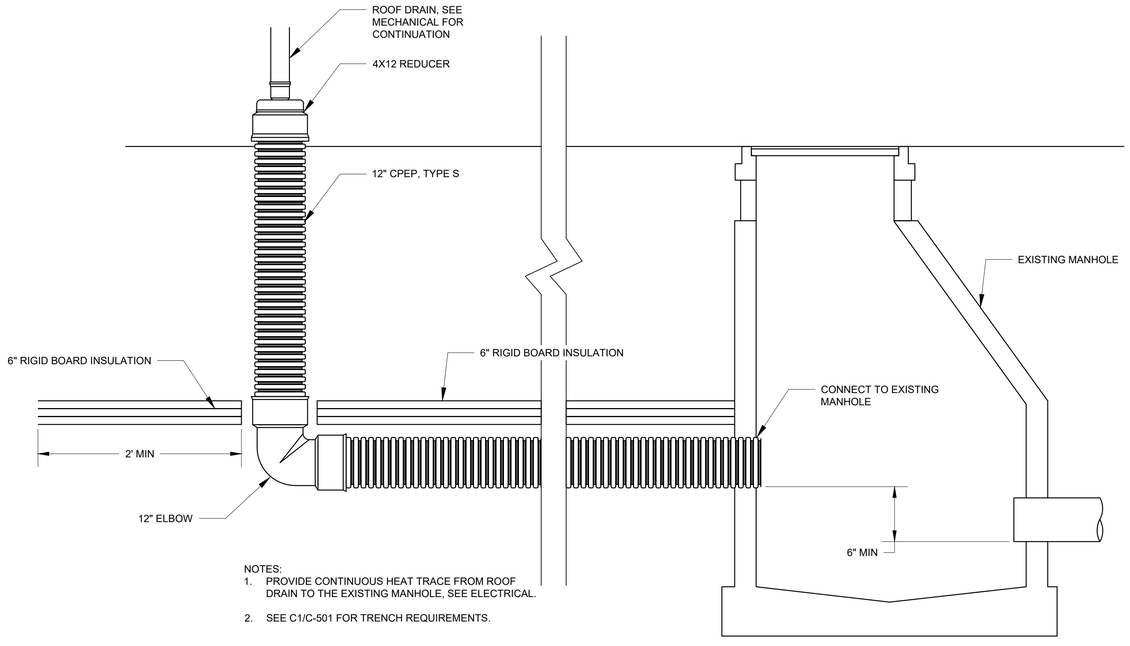
C3 PAVEMENT CUT AND MATCH
SCALE: N.T.S.

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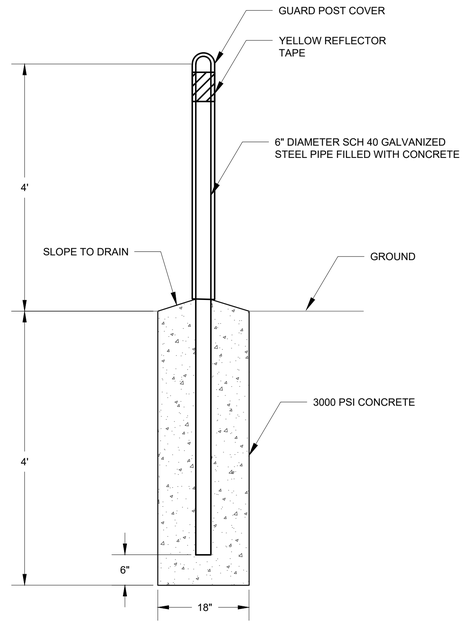
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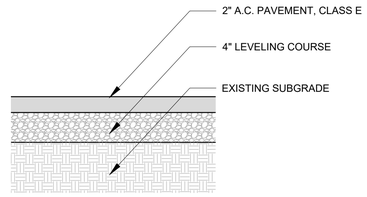


NOTES:
1. PROVIDE CONTINUOUS HEAT TRACE FROM ROOF DRAIN TO THE EXISTING MANHOLE, SEE ELECTRICAL.
2. SEE C1/C-501 FOR TRENCH REQUIREMENTS.

A1 ROOF DRAIN DOWNSPOUT AND MANHOLE CONNECTION
SCALE: N.T.S.



A4 BOLLARD
SCALE: N.T.S.



A5 PAVEMENT SECTION
SCALE: N.T.S.

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No.	Revision	By	Appd	YYYY.MM.DD

No.	Issued	By	Appd	YYYY.MM.DD

Permit/Seal

STATE OF ALASKA 49TH Nicholas Arnold 02/21/2024 No. CE14751 REGISTERED PROFESSIONAL ENGINEER

Client/Project
Anchorage School District
Project No. 245011

Klatt Elementary School
Loading Dock Canopy
100% Construction Documents
11900 Puma St
Anchorage, AK 99515

Project No.: 2014295940
File Name: KES-C501

Scale:

NRA	NRA	JA	2023.02.21
Dwn.	Dsgn.	Chkd.	YYYY.MM.DD

Title
DETAILS

Revision:

Drawing No.
C-501

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ORIGINAL SHEET - ANSI D

GENERAL STRUCTURAL NOTES

(APPLIES UNLESS NOTED OTHERWISE)

CODE

2018 EDITION OF THE INTERNATIONAL BUILDING CODE (IBC) AS AMENDED BY THE MUNICIPALITY OF ANCHORAGE

DESIGN LOADS:

RISK CATEGORY	III

SNOW LOAD

GROUND SNOW LOAD (P_g)	64 PSF
EXPOSURE FACTOR (C_e)	1.0
IMPORTANCE FACTOR (I_s)	1.1
THERMAL FACTOR (C_t)	1.2
SLOPE FACTOR (Cs)	1.0
ROOF DESIGN SNOW LOAD	60 PSF

WIND LOAD

BASIC WIND SPEED (ULTIMATE)	150 MPH
BASIC WIND SPEED (ALLOWABLE)	116 MPH
EXPOSURE	C
GC_{pi} (PARTIALLY ENCLOSED)	0.55

SEISMIC

S_S	1.50g	MOMENT-RESISTING FRAME-STEEL	
S_1	0.69g	- STEEL ORDINARY MOMENT FRAME	
F_a	1.2		
F_v	1.7	R	3.5
S_{DS}	1.20g	Ω_0	3
S_{D1}	0.78g	C_s	3
SITE CLASS	D -DEFAULT	C_d	0.43
		DESIGN CATEGORY	D
		IMPORTANCE FACTOR (I_e)	1.25
		BASE SHEAR	V_{SEIS} = 26.7 KIPS
		ANALYSIS PROCEDURE	EQUIVALENT LATERAL FORCE

SPECIAL CONDITIONS, REQUIREMENTS AND NOTES TO OWNER, DEVELOPER AND CONTRACTORS:

1. THE ENGINEER SHALL NOT BE RESPONSIBLE FOR VARIATIONS TO PLANS BETWEEN BID PROCESS AND FINALIZED APPROVED DOCUMENTS RELEASED FOR CONSTRUCTION. ADDITIONS AND ALTERATIONS MAY BE MADE BETWEEN RELEASE OF BID DOCUMENTS AND FINALIZED CONSTRUCTION DOCUMENTS.
2. DESIGNS HAVE BEEN COMPLETED USING THE CODE STATED IN THE BASIS FOR DESIGN. WHERE MORE THAN ONE REFERENCE IS LISTED, THE REFERENCE THAT CORRESPONDS TO THE CODE STATED IN THE BASIS OF DESIGN SHALL BE USED. OTHER SPECIALIZED CODES OR DIRECTIVES (HUD, OSHA, ETC.) ARE NOT USED IN THE PREPARATION OF THESE DOCUMENTS AND ARE NOT REFERENCED.
3. THESE DRAWINGS HAVE BEEN PREPARED USING STANDARDS OF PROFESSIONAL CARE AND COMPLETENESS NORMALLY EXERCISED UNDER SIMILAR CIRCUMSTANCES BY REPUTABLE STRUCTURAL ENGINEERS IN THIS OR SIMILAR LOCALITIES. THEY ASSUME THAT THE WORK DEPICTED WILL BE PERFORMED BY AN EXPERIENCED CONTRACTOR, SUBCONTRACTOR AND/OR WORKPERSONS WHO HAVE A WORKING KNOWLEDGE OF THE APPLICABLE CODE STANDARDS AND REQUIREMENTS AND OF INDUSTRY ACCEPTED STANDARD GOOD PRACTICE. AS NOT EVERY CONDITION OR ELEMENT IS (OR CAN BE) EXPLICITLY SHOWN ON THESE DRAWINGS, IT IS UNDERSTOOD THAT THE CONTRACTOR WILL USE INDUSTRY ACCEPTED STANDARD GOOD PRACTICE FOR ALL WORK NOT EXPLICITLY SHOWN.
4. THESE DRAWINGS REPRESENT THE FINISHED STRUCTURE. THEY DO NOT INDICATE THE METHOD OF CONSTRUCTION. THE CONTRACTOR SHALL BE SOLELY RESPONSIBLE FOR CONSTRUCTION MEANS, METHODS, TECHNIQUES, SEQUENCES AND PROCEDURES. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO DESIGN AND PROVIDE ADEQUATE SHORING, BRACING, FORMWORK, ETC. AS REQUIRED FOR THE PROTECTION OF LIFE AND PROPERTY DURING CONSTRUCTION. CONSTRUCTION MATERIALS SHALL BE UNIFORMLY SPREAD OUT SUCH THAT DESIGN LIVE LOAD PER SQUARE FOOT AS STATED HEREIN IS NOT EXCEEDED. VISITS TO THE SITE BY THE STRUCTURAL ENGINEER SHALL NOT INCLUDE INSPECTION OF THE ABOVE ITEMS.
5. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ALL EXCAVATION PROCEDURES INCLUDING SHORING AND PROTECTION OF STRUCTURES, FIRE LANES, AND UTILITIES IN ACCORDANCE WITH THE LOCAL BUILDING DEPARTMENT. ALL WORK OR CONSTRUCTION SHALL COMPLY WITH ALL APPLICABLE BUILDING CODES, REGULATIONS AND SAFETY REQUIREMENTS.
6. THE CONTRACTOR SHALL INFORM THE ARCHITECT IN WRITING OF ANY DISCREPANCIES OR OMISSIONS NOTED ON THE DRAWINGS. ANY SUCH DISCREPANCY, OMISSION, OR VARIATION NOT REPORTED BEFORE START OF CONSTRUCTION SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR.
9. WHERE REFERENCE IS MADE TO VARIOUS TEST STANDARDS FOR MATERIALS, SUCH STANDARDS SHALL BE THE LATEST EDITION AND/OR ADDENDA.
10. TYPICAL DETAILS AND NOTES SHALL APPLY, THOUGH NOT NECESSARILY INDICATED AT A SPECIFIC LOCATION ON PLANS. WHERE NO DETAILS ARE SHOWN, CONSTRUCTION SHALL CONFORM TO SIMILAR WORK ON THE PROJECT. DETAILS MAY SHOW ONLY ONE SIDE OF CONNECTION OR MAY OMIT INFORMATION FOR CLARITY. WHERE DISCREPANCIES OCCUR IN THESE DRAWINGS, NOTES AND DETAILS ON DRAWINGS SHALL TAKE PRECEDENCE OVER GENERAL STRUCTURAL NOTES AND TYPICAL DETAILS.
11. ALL OPENINGS ARE NOT SHOWN ON THESE DRAWINGS. ESTABLISH AND VERIFY ALL OPENINGS AND INSERTS FOR ARCHITECTURAL, MECHANICAL, PLUMBING AND ELECTRICAL WITH APPROPRIATE TRADES, DRAWINGS AND SUBCONTRACTORS PRIOR TO CONSTRUCTION. OPENINGS MAY REQUIRE ADDITIONAL REINFORCING OR SUPPORTS AS SHOWN ON TYPICAL DETAILS. IF TYPICAL DETAILS FOR ALL CONDITIONS ARE NOT INCLUDED HEREIN, IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO REQUEST IN WRITING ADDITIONAL INFORMATION.
12. ALL INSPECTIONS REQUIRED BY THE BUILDING CODES, LOCAL BUILDING OFFICIALS, OR BY THESE PLANS SHALL BE PROVIDED BY AN INDEPENDENT INSPECTION COMPANY, AGENCY OR, THE BUILDING DEPARTMENT. INSPECTION REQUIREMENTS STATED HEREIN ARE PARTIAL. COMPLETE INSPECTION REQUIREMENTS SHALL BE AS DIRECTED BY THE LOCAL BUILDING DEPARTMENT. SITE VISITS BY THE ENGINEER DO NOT CONSTITUTE AN INSPECTION.
13. SHOP DRAWINGS SHALL BE SUBMITTED FOR ALL STRUCTURAL ITEMS. SHOP DRAWINGS ARE REVIEWED ONLY FOR GENERAL COMPLIANCE WITH THE STRUCTURAL DRAWINGS. REVIEW DOES NOT INDICATE THAT THE SHOP DRAWINGS ARE CORRECT OR COMPLETE. RESPONSIBILITY FOR CORRECTNESS SHALL REST WITH THE CONTRACTOR. ANY CHANGES, SUBSTITUTIONS, OR DEVIATIONS FROM CONTRACT DRAWINGS SHALL BE CLOUDED. ANY OF THE AFOREMENTIONED SHALL NOT BE CONSIDERED APPROVED AFTER ENGINEER'S REVIEW UNLESS SPECIFICALLY NOTED ACCORDINGLY. THE SHOP DRAWINGS DO NOT SUPERSEDE OR REPLACE THE ORIGINAL CONTRACT DRAWINGS. ANY ENGINEERING PROVIDED BY OTHERS AND SUBMITTED FOR REVIEW SHALL BEAR THE SEAL OF AN APPROPRIATELY REGISTERED ENGINEER. THE ENGINEER SHALL NOT BE RESPONSIBLE FOR THE ADEQUACY OF ENGINEERING DESIGNS PERFORMED BY OTHERS. ALLOW FIVE WORKING DAYS FOR THE ENGINEER'S REVIEW.

FOUNDATION NOTES:

1. GEOTECHNICAL REPORT:
   "SUBSURFACE INVESTIGATION AND FOUNDATION RECOMMENDATIONS KLATT ROAD ELEMENTARY SCHOOL, ANCHORAGE, AK" BY DOWL ENGINEERS, AUGUST 1982, WO#13966
2. ALLOWABLE FOOTING BEARING: 2000 PSF.
3. SLAB-ON-GRADE SUPPORT: 6 INCH LAYER OF SELECT GRANULAR FILL MATERIAL (PER SOIL REPORT).
4. ALL FOOTINGS SHALL EXTEND TO DEPTH NOTED ON PLANS OR DETAILS. GRADE IS DEFINED AS TOP OF EXTERIOR PAVING.
5. EXCAVATE TO BOTTOM OF EXISTING FOUNDATIONS WHERE ADJACENT TO EXISTING CONSTRUCTION. PLACE THE STEEL FORM RING AT THE BASE OF THE EXCAVATION. CONTINUE EXCAVATIONG SOIL FROM WITHIN THE CONFINES OF THE STEEL RING USING A VACTOR TRUCK UNTIL THE REQUIRED BOTTOM OF FOOTING ELEVATION IS ACHIEVED. COMPACT ALL LOOSE MATERIAL AT THE BOTTOM OF THE EXCAVATION. FOOTING EXCAVATIONS SHALL BE CLEAN AND FREE FROM LOOSE DEBRIS, STANDING WATER, OR UNCOMPACTED MATERIAL AT TIME OF CONCRETE PLACEMENT.

FOUNDATION INSULATION

1. EXPANDED POLYSTYRENE, TYPE VI, 2" LAYERS. STAGGER JOINTS BETWEEN LAYERS.

CONCRETE NOTES:

1. MINIMUM 28 DAY STRENGTH (f'c) SHALL BE AS FOLLOWS:

FOUNDATIONS	4000 PSI, W/C = 0.50, ENTRAINED AIR = 6% ±1.5%
COLUMNS AND PIERS	4000 PSI, W/C = 0.45, ENTRAINED AIR = 6% ±1.5%
CLOSURE POURS AROUND STEEL COLUMNS:	5000 PSI, W/C = 0.40, ENTRAINED AIR = 6% ±1.5%, MASTERLIFE 300D WATERPROOFING
SLABS ON GROUND:	5000 PSI, W/C = 0.40, ENTRAINED AIR = 6% ±1.5%, MASTERLIFE 300D WATERPROOFING
FOUNDATION WALLS/STAIRS	5000 PSI, W/C = 0.40, ENTRAINED AIR = 6% ±1.5%, MASTERLIFE 300D WATERPROOFING

2. MAXIMUM SLUMP FOR EXTERIOR SLABS SHALL BE 4 INCHES. MAXIMUM SLUMP FOR ALL OTHER CONCRETE SHALL BE 3-1/2 INCHES. REQUIRED SLUMPS ARE PRIOR TO THE ADDITION OF WATER REDUCING ADDITIVES. WATER SHALL BE CLEAN AND POTABLE.
3. NO MORE THAN 90 MINUTES SHALL ELAPSE BETWEEN CONCRETE BATCHING AND CONCRETE PLACEMENT, UNLESS APPROVED BY THE ENGINEER OR AUTHORIZED TESTING AGENCY.
4. MECHANICALLY VIBRATE ALL CONCRETE WHEN PLACED, EXCEPT SLABS ON GRADE NEED ONLY BE VIBRATED OR THOROUGHLY RODDED AROUND EMBEDDED ITEMS. REMOVE ALL DEBRIS FROM FORMS BEFORE PLACING CONCRETE. CONCRETE SHALL NOT BE DROPPED THROUGH REINFORCING STEEL (AS IN WALLS AND COLUMNS) SO AS TO CAUSE SEGREGATION OF AGGREGATES. UNCONFINED FALL OF CONCRETE SHALL NOT EXCEED 5 FEET. CARE SHALL BE TAKEN IN PLACING SLABS ON GRADE SO AS NOT TO DISTURB FILL MATERIAL.
5. ALL ITEMS TO BE CAST IN CONCRETE SUCH AS REINFORCING, DOWELS, BOLTS, ANCHORS, PIPES, SLEEVES, STAIR NOSINGS, ETC. SHALL BE SECURELY POSITIONED IN THE FORMS BEFORE PLACING THE CONCRETE.
6. NO PIPES OR ELECTRICAL CONDUITS SHALL BE EMBEDDED IN STRUCTURAL CONCRETE EXCEPT WHERE SPECIFICALLY APPROVED BY THE ENGINEER. MAXIMUM PIPE SIZE SHALL BE 1/3 OF THE SLAB THICKNESS AND LOCATED AT THE MID-DEPTH. MINIMUM SPACING SHALL BE 3 TIMES THE PIPE DIAMETER. PIPES SHALL NOT IMPAIR THE STRENGTH OF THE MEMBER.
7. PROTECT CONCRETE FROM DAMAGE OR REDUCED STRENGTH DUE TO COLD OR HOT WEATHER IN ACCORDANCE WITH ACI 305 AND 306 AND ACI 318 SECTIONS 5.12 AND 5.13.

REINFORCING STEEL:

1. REINFORCEMENT STEEL SHALL CONFORM TO THE REQUIREMENTS OF ASTM A615. REINFORCING SHALL BE GRADE 60 (Fy = 60 KSI) DEFORMED BARS FOR ALL BARS.
2. ALL DIMENSIONS SHOWING THE LOCATION OF REINFORCING STEEL NOT NOTED AS "CLEAR" OR "CLR" ARE TO CENTER OF STEEL. MINIMUM COVER FOR CONCRETE REINFORCING SHALL BE AS FOLLOWS, UNLESS NOTED OTHERWISE ON PLANS OR DETAILS:

EXPOSURE CONDITION:	MINIMUM COVER:	TOLERANCES (+/-):
CAST AGAINST AND PERMANENTLY EXPOSED TO EARTH:	3"	3/8"
FORMED SURFACE EXPOSED TO EARTH OR WEATHER:		
#5 AND SMALLER:	1-1/2"	3/8"
#6 AND LARGER:	2"	3/8"

3. LAP SPLICES OF REINFORCING STEEL IN CONCRETE BEAMS, SLABS AND FOOTINGS SHALL BE LAPPED 40BAR DIAMETERS, UNLESS NOTED OTHERWISE. STAGGER SPLICES A MINIMUM OF ONE LAP LENGTH. NO TACK WELDING OF REINFORCING BARS ALLOWED. LATEST ACI CODE AND DETAILING MANUAL APPLY. PROVIDE BENT CORNER BARS TO MATCH AND LAP WITH HORIZONTAL BARS AT ALL CORNERS AND INTERSECTIONS PER TYPICAL DETAILS.
4. ALL REINFORCING SHALL BE BENT COLD. BARS SHALL NOT BE STRAIGHTENED AND RE-BENT. FIELD BENDING OF REBAR SHALL NOT BE ALLOWED UNLESS SPECIFICALLY NOTED.
5. WELDING OF REINFORCING BARS, METAL INSERTS, AND CONNECTIONS SHALL CONFORM WITH AWS D1.4 AND SHALL BE MADE ONLY AT LOCATIONS SHOWN ON PLANS OR DETAILS.
6. REINFORCING BAR SPACING SHOWN ON PLANS ARE AT MAXIMUM ON CENTERS. ALL BARS SHALL BE DETAILED AND PLACED PER CONCRETE REINFORCING STEEL INSTITUTE (CRSI) SPECIFICATIONS AND HANDBOOK. DOWEL ALL VERTICAL REINFORCING TO FOUNDATION. SECURELY TIE ALL BARS IN LOCATION BEFORE PLACING CONCRETE.

STRUCTURAL STEEL:

1. STRUCTURAL STEEL MEMBERS SHALL CONFORM WITH THE FOLLOWING STANDARDS AND MATERIAL PROPERTIES UNLESS NOTED OTHERWISE:

SHAPE	STANDARD	Fy
ROLLED WIDE FLANGE SECTIONS:	ASTM A992	50 KSI
OTHER STANDARD STEEL SHAPES AND ROLLED SECTIONS:	ASTM A36	36 KSI
BARS AND PLATES:	ASTM A36	36 KSI
PIPES:	ASTM A53 TYPE E OR S, GRADE B	35 KSI
TUBES:	ASTM A500 GRADE C	50 KSI
BOLTS AT STEEL CONNECTIONS:	ASTM A325 TYPE 1	
FOUNDATION ANCHOR BOLTS:	ASTM F1554	55 KSI

2. ALL BOLTS SHALL BE INSTALLED AS BEARING-TYPE CONNECTIONS WITH THREADS PERMITTED IN SHEAR PLANE, UNLESS NOTED OTHERWISE. HIGH-STRENGTH BOLTS SHALL BE TIGHTENED USING ANY AISC APPROVED METHOD. BOLTS IN SHEAR/BEARING CONNECTIONS ARE TO BE TIGHTENED ACCORDING TO THE FOLLOWING (UNLESS NOTED OTHERWISE):

BOLT TYPE	TIGHTENING
A307	SNUG TIGHT
A325	SNUG TIGHT

3. ALL EXPANSION OR EPOXY BOLTS SHALL HAVE CURRENT ICC RATING FOR MATERIAL INTO WHICH INSTALLATION OCCURS.
4. ALL STRUCTURAL AND MISCELLANEOUS STEEL SHALL BE FABRICATED AND ERECTED IN ACCORDANCE WITH AISC SPECIFICATIONS FOR THE DESIGN, FABRICATION AND ERECTION OF STRUCTURAL STEEL FOR BUILDINGS, 2016 EDITION.
5. WELDING SHALL BE PERFORMED BY WELDERS HOLDING VALID CERTIFICATES AND HAVING CURRENT EXPERIENCE IN THE TYPE OF WELD SHOWN ON THE DRAWINGS. ALL WELDING SHALL USE E70 SERIES LOW HYDROGEN ELECTRODES UNLESS NOTED OTHERWISE. ALL WELDS INVOLVING REINFORCING BARS SHALL USE E90 SERIES ELECTRODES. ALL WELDING SHALL CONFORM TO THE LATEST AMERICAN WELDING SOCIETY (AWS) STANDARDS. WELDS ON DRAWINGS ARE SHOWN AS SHOP WELDS. CONTRACTOR MAY SHOP WELD OR FIELD WELD AT HIS DISCRETION. ALL FULL PENETRATION WELDS SHALL BE TESTED AND CERTIFIED BY AN INDEPENDENT TESTING LABORATORY.
6. GROUT BENEATH COLUMN BASES OR BEARING PLATES SHALL BE 5,000 PSI (MIN) NON-SHRINK FLOWABLE GROUT OR DRYPACK. INSTALL GROUT UNDER BEARING PLATES BEFORE FRAMING MEMBER IS INSTALLED. AT COLUMNS, INSTALL GROUT UNDER BASE PLATES AFTER COLUMN HAS BEEN PLUMBED BUT PRIOR TO FLOOR OR ROOF INSTALLATION. GROUT DEPTH SHALL BE SUFFICIENT TO ALLOW GROUT OR DRYPACK TO BE PLACED BENEATH PLATE WITHOUT VOIDS.

STEEL DECK:

1. ROOF DECK SHALL BE AS NOTED ON PLAN. DECK SHALL BE ERECTED IN ACCORDANCE WITH MANUFACTURER'S RECOMMENDATIONS AS 3 SPAN MINIMUM.
2. STEEL DECK SHALL HAVE AN ICC EVALUATION SERVICE REPORT. SUBMIT THE REPORT WITH THE SHOP DRAWINGS.

COLD FORMED STEEL:

1. ALL COLD-FORMED STEEL FRAMING SHALL BE FABRICATED AND ERECTED IN ACCORDANCE WITH MANUFACTURER'S RECOMMENDATIONS AND IN ACCORDANCE WITH THE LATEST EDITION OF "SPECIFICATIONS FOR THE DESIGN OF COLD-FORMED STEEL STRUCTURAL MEMBERS" BY THE AMERICAN IRON AND STEEL INSTITUTE.
2. STRUCTURAL DRAWINGS TYPICALLY SHOW ONLY THE PRIMARY STRUCTURAL FRAMING ELEMENTS OF THE SYSTEM. CONTRACTOR SHALL PROVIDE ALL ACCESSORIES INCLUDING TRACKS, WEB STIFFENERS, BLOCKING, LINTELS, CLIP ANGLES, REINFORCEMENTS, FASTENING DEVICES, BRACING, AND OTHER ACCESSORIES AS RECOMMENDED BY THE MANUFACTURER TO PROVIDE A COMPLETE FRAMING SYSTEM.
3. STEEL FOR 12, 14 AND 16 GAGE STUDS AND JOISTS SHALL HAVE MINIMUM YIELD STRENGTH OF 50 KSI. STEEL FOR ALL 18, 20 AND 25 GAGE STUDS AND JOISTS, ALL GAGES OF TRACK, ALL DIAGONAL TENSION STRAPS OR BRACES, AND BRIDGING SHALL HAVE MINIMUM YIELD STRENGTH OF 33 KSI. STEEL SHALL BE GALVANIZED OR THOROUGHLY COATED WITH RUST INHIBITIVE PAINT AT ALL LOCATIONS.
4. FASTENING OF COMPONENTS SHALL BE WITH SELF-TAPPING SCREWS OR WELDS. ALL WELDS OF GALVANIZED STEEL SHALL BE TOUCHED UP WITH ZINC-RICH PAINT. ALL WELDS OF CARBON SHEET STEEL SHALL BE TOUCHED UP WITH PAINT.
5. ALL STUDS SHALL BE SECURELY SEATED FOR FULL END BEARING ON TOP AND BOTTOM TRACK. UNLESS NOTED OTHERWISE, PROVIDE DOUBLE STUDS AT ALL CORNERS.
6. SCREWS SHALL BE SELF-TAPPING PAN HEAD SHEET METAL SCREWS. A SCREW OF A LARGER DIAMETER SHALL REPLACE SCREWS, WHICH ARE REMOVED, WHERE THE REPLACEMENT IS MADE INTO AN EXISTING HOLE. REPLACE ALL SCREWS, WHICH STRIP OUT MATERIAL. SCREWS SHALL BE SPACED NO CLOSER THAN 5/8 INCH ON CENTER AND WITH A MINIMUM FREE EDGE DISTANCE OF 1/2 INCH. CLIP ANGLES OR FLAT CLIPS USED FOR ATTACHMENTS SHALL BE AS INDICATED. SIZE CLIP ANGLES AND FLAT CLIPS TO MAINTAIN MINIMUM SCREW SPACING AND EDGE DISTANCES NOTED ABOVE. ALL SCREWS #8 AND LARGER SHALL HAVE A MINIMUM HEAD SIZE OF 5/16 INCH.
7. POWDER-ACTUATED FASTENERS (PAF) MAY BE SUBSTITUTED FOR SCREW ATTACHMENTS WHERE SHOWN IN THE DRAIWNGS. FASTENERS SHALL BE HILTI EDS KNURLED PINS (ICC REPORT ESR-1663) INSTALLED IN CONFORMANCE WITH THE MANUFACTURER'S RECOMMENDATIONS. SUBSTITUTION REQUESTS FOR PRODUCTS OTHER THAN HILTI PRODUCTS MUST HAVE TENSION AND SHEAR DESIGN VALUES THAT MEET OR EXCEED THE DESIGN VALUES SHOW FOR HILTI PRODUCTS.

PERMIT STAMP

Notification of Potential Hazards:

Asbestos, lead and other potentially hazardous materials are present in the building that may impact the work of all trades. Regulated air contaminants, including asbestos and lead, are also present in settled and concealed dust in and on architectural, structural, mechanical and electrical components or systems throughout the building. All trades shall coordinate with other trades and conduct their work to prevent worker exposure or site contamination. Refer to Specification Divisions 0, 1 and 2 for specific information concerning disturbing, removing and disposing of these materials and the installation of new materials or components. This notification is provided in accordance with EPA and OSHA requirements.

Notification of Child Occupied Facility:

Portions of this building are classified as a Child Occupied Facility in accordance with 40 CFR 745 and lead-based paints may be present on components to be disturbed in those areas. Personnel performing work in these areas must comply with the requirements of 40 CFR 745, including training, work practices and cleaning of the work area. Refer to Specification Divisions 0, 1 and 2 for specific information concerning disturbing, removing and disposing of lead materials and the installation of new materials or components. This notification is provided in accordance with EPA and OSHA requirements.

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Consultant

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Revision			
Issued			

Permit/Seal

STATE OF ALASKA · 49 TH · BRUCE E. HOPPER · SE-14012 · 07/30/2025 · REGISTERED STRUCTURAL ENGINEER

ANCHORAGE SCHOOL DISTRICT
PROJECT #245011

KLATT ES LOADING
DOCK CANOPY
ASD Project No. 245011
100% CONSTRUCTION
DOCUMENTS
11900 Puma Street
Anchorage, AK 99515

Project No.: 2014295940
File Name: N/A

DJR	BEH	BEH	2025.07.30
Dwn.	Dsgn.	Chkd.	DATE

Title
GENERAL STRUCTURAL NOTES

Scale: 12" = 1'-0"
Revision:
Drawing No. **S-001**

<Plot location in Project Information>
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ORIGINAL SHEET - ANSI D

STRUCTURAL TESTING & INSPECTION REQUIREMENTS

	REQUIRED INSPECTION VERIFICATION, OR TEST	VERIFICATION MONITORING FREQUENCY	TYPE AND/OR FREQUENCY OF TESTING	IBC SECTION & REFERENCE CRITERIA	INSPECTOR QUALIFICATIONS
			1. SOILS		
A.	SITE PREPARATION			IBC 1704.7.1	
1.	VISUAL OBSERVATION	PERIODIC	AT THE CONTRACTOR'S EXPENSE, INSTRUMENT READINGS SHALL BE TAKEN BY A LICENSED SURVEYOR TO VERIFY FINAL SUBGRADE ELEVATIONS AND SLOPES.	GEOTECHNICAL REPORT; STRUCTURAL NOTES	QUALIFICATIONS BASED ON ASTM D3740 LICENSED SURVEYOR
2.	PROOFROLLING OBSERVATIONS	CONTINUOUS	PROOFROLLING SHALL BE MONITORED BY A GEOTECHNICAL ENGINEER.THE GEOTECHNICAL ENGINEER SHALL APPROVE THE TYPE OF ROOFROLLING EQUIPMENT AND PROCEDURES.	GEOTECHNICAL REPORT; STRUCTURAL NOTES	QUALIFICATIONS BASED ON ASTM D3740
3.	MOISTURE CONDITIONING & RECOMPACTION	CONTINUOUS OR PERIODIC	PROVIDE (1) ONE DENSITY TEST FOR EACH 2000 SQ. FT. REFER TO NOTES ON BUILDING PAD FOR TESTING SPECIFICATIONS AND AS REQUIRED BY TABLE 1705.6	GEOTECHNICAL REPORT; STRUCTURAL NOTES	QUALIFICATIONS BASED ON ASTM D3740
4.	SOIL BEARING CAPACITY	CONTINUOUS OR PERIODIC	SUITABLE BEARING CAPACITY AT SPECIFIED DEPTH MUST BE VERIFIED BY A GEOTECHNICAL ENGINEER USING TESTING METHODS SUITABLE FOR SOIL TYPE ENCOUNTERED	GEOTECHNICAL REPORT; STRUCTURAL NOTES	QUALIFICATIONS BASED ON ASTM D3740
B.	DURING FILL PLACEMENT	CONTINUOUS OR PERIODIC	VISUAL OBSERVATION: DURING PLACEMENT AND COMPACTION OF FILL,SPECIAL INSPECTOR SHALL DETERMINE THAT THE MATERIAL BEING USED AND THE MAXIMUM LIFT THICKNESS COMPLY WITH THE PROJECT REQUIREMENTS. PIT RUN MATERIALS SHALL BE VISUALLY MONITORED BY THE TESTING LAB WITH ADDITIONAL SAMPLES TESTED EACH DAY, OR MORE OFTEN IF MATERIAL APPEARS TO VARY.	IBC 1704.7.2 GEOTECHNICAL REPORT; STRUCTURAL NOTES	QUALIFICATIONS BASED ON ASTM D3740
C.	EVALUATION OF IN-PLACE DENSITY OF FILL	CONTINUOUS OR PERIODIC	PROVIDE (1) ONE DENSITY TEST FOR EACH 2000 SQ. FT. REFER TO NOTES ON BUILDING PAD FOR TESTING SPECIFICATIONS.	IBC 1704.7.3 GEOTECHNICAL REPORT; STRUCTURAL NOTES	QUALIFICATIONS BASED ON ASTM D3740
			2. CONCRETE CONSTRUCTION		
A.	REINFORCING STEEL	PERIODIC	PROVIDE PERIODIC INSPECTION OF REINFORCING SIZES, SPACING, GRADE OF REBAR; AND PLACEMENT AT THE FOLLOWING FREQUENCY: COLUMNS: 10% BEAMS: 30% JOIST: 10% OTHER MEMBERS: RANDOMLY @ 20% NO FIELD WELDING PERMITTED.	IBC 1704.4 ACI 318: CH. 3.5, 7.1-7.7; STRUCTURAL NOTES	QUALIFICATIONS BASED ON ASTM E329
B.	BOLTS TO BE INSTALLED IN CONCRETE PRIOR TO & DURING PLACEMENT OF CONCRETE WHERE ALLOWABLE LOADS HAVE BEEN INCREASED.	CONTINUOUS		IBC1704.4	TECHNICIAN TRAINED IN FIELD OF WORK AND HAS AT LEAST ONE YEAR OF EXPERIENCE.
C.	VERIFY USE OF CONCRETE MIX DESIGN	PERIODIC	EACH CONCRETE POUR	ACI 318 - CH. 4, 5.2 - 5.4	QUALIFICATIONS BASED ON ASTM C1077
D.	SAMPLING OF FRESH CONCRETE.	CONTINUOUS EACH POUR	1. ALL CONCRETE TESTING IS TO BE MADE AFTER WATER, IF ANY, IS ADDED AT SITE. 2. PROVIDE A SET OF (4) FOUR CYLINDERS TO BE TAKEN FOR EVERY 75 CUBIC YARDS OF CONCRETE, OR FRACTION THEREOF, BY TESTING LAB. 3. MONITOR SLUMP AND AIR CONTENT OF CONCRETE AND NOTIFY DELIVERY DRIVER IF SLUMP DEVIATES MORE THAN PERMITTED BY STRUCTURAL NOTES. CONTACT SUPPLIER FOR FURTHER DIRECTIONS.	ACI 318 - CH. 5.6, 5.8	QUALIFICATIONS BASED ON ASTM C1077
E.	PLACEMENT OF CONCRETE	CONTINUOUS		ACI 318 - CH. 5.9, 5.10	QUALIFICATIONS BASED ON ASTM C1077
F.	MAINTENANCE OF SPECIFIED CURING TEMPERATURE TECHNIQUES.	PERIODIC	EACH CONCRETE POUR	ACI 318 - CH. 5.11, 5.13.	QUALIFICATIONS BASED ON ASTM C1077
G.	REMOVAL OF SHORES AND FORMS FROM BEAMS AND STRUCTURAL SLABS.	PERIODIC	VERIFY IN-SITU CONCRETE STRENGTH PRIOR TO REMOVAL.	ACI 318: CH. 6.2; STRUCTURAL NOTES	QUALIFICATIONS BASED ON ASTM E329
			3. STEEL CONSTRUCTION		
A.	BOLTED CONNECTIONS	PERIODIC	BEFORE BOLTING: CHECK FOR THE CORRECT FASTENER DIAMETER AND LENGTH AND GRADE. AFTER BOLTING: VERIFY HARDENED WASHERS ARE INSTALLED, INSPECT BOLT TORQUE IS IN CONFORMANCE WITH THE RCSC "SPECIFICATION FOR STRUCTURAL STEEL JOINTS USING HIGH-STRENGTH BOLTS."	AISC 360, TABLE N5.6-1	QUALIFICATIONS BASED ON ASTM E329
			4. METAL DECK		
A.	METAL DECK - WELDED	PERIODIC	BEFORE INSTALLING DECK: VERIFY DECK PROFILE AND THICKNESS. WELDING EQUIPMENT AND FILLER METAL. BEFORE WELDING: VERIFY DECK LAP LENGTH AND MULTIPLE SPAN REQUIREMENT ARE MET AFTER WELDING: VISUAL INSPECTION OF ALL DECK WELDS.	SDI	AWS D1.3
B.	METAL DECK - DIRECT FASTENING	PERIODIC	BEFORE INSTALLING DECK: VERIFY DECK PROFILE AND THICKNESS. EQUIPMENT AND FASTENER TYPE. BEFORE FASTENING: VERIFY DECK LAP LENGTH AND MULTIPLE SPAN REQUIREMENT ARE MET. AFTER WELDING: VISUAL INSPECTION OF ALL FASTENER PROJECTIONS, VERIFY NO DECK RUPTURE WHERE WASHERS ARE USED, VERIFY DECK IS IN FULL CONTACT WITH FRAMING.	ICC	FASTENER CODE APPROVAL REPORT

STRUCTURAL ABBREVIATIONS

&	AND
@	AT
AB	ANCHOR BOLT
ADDTL	ADDITIONAL
ALT	ALTERNATE
ARCH	ARCHITECTURAL
BLDG	BUILDING
BM	BEAM
BOB	BOTTOM OF BEAM
BOD	BOTTOM OF DECK
BOS	BOTTOM OF STEEL
BOTT	BOTTOM
BRG	BEARING
BTWN	BETWEEN
CFMF	COLD-FORMED METAL FRAMING
CJ	CONTROL JOINT
CJP	COMPLETE JOINT PENETRATION
CL	CENTERLINE
CLR	CLEAR
CMU	CONCRETE MASONRY UNIT
COL	COLUMN
CONC	CONCRETE
CONT	CONTINUOUS
CTR	CENTERED
D, DIA	DIAMETER
DBA	DEFORMED BAR ANCHOR
DBL	DOUBLE
DET, DTL	DETAIL
DIAG	DIAGONAL
DN	DOWN
DWG	DRAWING
EA	EACH
EF	EACH FACE
EJ	EXPANSION JOINT
EL, ELEV	ELEVATION
ELEV	ELEVATOR
EOS	EDGE OF SLAB
EQ	EQUAL
EQ SPA	EQUALLY SPACED
EW	EACH WAY
EXIST	EXISTING
FD	FLOOR DRAIN
FF EL	FINISH FLOOR ELEVATION
FNDN	FOUNDATION
FOC	FACE OF CONCRETE
FOM	FACE OF MASONRY
FT	FEET
FTG	FOOTING
Fy	YIELD STRESS
GA	GAGE
GALV	GALVANIZED
GB	GRADE BEAM
GLULAM	GLUED-LAMINATED BEAM
H, HORIZ	HORIZONTAL
HK	HOOK
HSS	HOLLOW STEEL SECTION
INFO	INFORMATION
INT	INTERIOR
JST	JOIST
JT	JOINT
L	ANGLE SHAPE
LF	LINEAR FOOT
LLH	LONG LEG HORIZONTAL
LLV	LONG LEG VERTICAL
LO	LOW
MAX	MAXIMUM
MC	MOMENT CONNECTION
MECH	MECHANICAL
MEZZ	MEZZANINE
MFR	MANUFACTURER
MIN	MINIMUM
MISC	MISCELLANEOUS
MTL	METAL
N	NORTH
NTS	NOT TO SCALE
OC	ON CENTER
OH	OPPOSITE HAND
OPNG	OPENING
PL	PLATE
PLYWD	PLYWOOD
PSF	POUNDS PER SQUARE FOOT
PSI	POUNDS PER SQUARE INCH
REF	REFER, REFERENCE
REINF	REINFORCED, REINFORCEMENT
REQ'D	REQUIRED
REQMTS, REQMTS	REQUIREMENTS
SC	SLIP CRITICAL
SCHED	SCHEDULE
SCJ	SAWN CONTROL JOINT
SF	SQUARE FEET
SHT	SHEET
SIM	SIMILAR
SPA	SPACES
SQ	SQUARE
STD	STANDARD
STL	STEEL
STRUCT	STRUCTURE, STRUCTURAL
TEMP	TEMPERATURE, TEMPORARY
TOC	TOP OF CURB, TOP OF CONCRETE
TOM	TOP OF MASONRY
TOS	TOP OF STEEL
TOSC	TOP OF STRUCTURAL CONCRETE
TOW	TOP OF WALL
TYP	TYPICAL
UON	UNLESS OTHERWISE NOTED
V, VERT	VERTICAL
W/	WITH
WB	WIND BRACE
WBBP	WIND BRACE BASEPLATE
WP	WORKING POINT
WT	WEIGHT, WALL TYPE
WWF	WELDED-WIRE FABRIC

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ANCHORAGE SCHOOL DISTRICT
PROJECT #245011

KLATT ES LOADING DOCK CANOPY
ASD Project No. 245011
100% CONSTRUCTION DOCUMENTS
11900 Puma Street
Anchorage, AK 99515

Project No.: 2014295940
File Name: N/A

DJR	BEH	BEH	2025.07.30
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Title
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Scale: 3/4" = 1'-0"
Revision:
Drawing No. **S-002**

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ORIGINAL SHEET - ANSI D

INSPECTION TASKS PRIOR TO WELDING	
INSPECTION TASKS PRIOR TO WELDING	QA
WELDING PROCEDURE SPECIFICATIONS (WPS'S) AVAILABLE	P
MANUFACTURER CERTIFICATIONS FOR WELDING CONSUMABLES AVAILABLE	P
MATERIAL IDENTIFICATION (TYPE/GRADE)	O
WELDER IDENTIFICATION SYSTEM	O
FIT UP OF GROOVE WELDS (INCLUDING JOINT GEOMETRY) • JOINT PREPARATION • DIMENSIONS (ALIGNMENT, ROOT OPENING, ROOT FACE, BEVEL) • CLEANLINESS (CONDITION OF STEEL SURFACES) • TACKING (TACK WELD QUALITY AND LOCATION) • BACKING TYPE AND FIT (IF APPLICABLE)	O
CONFIGURATION AND FINISH OF ACCESS HOLES	O
FIT-UP OF FILLET WELDS • DIMENSIONS (ALIGNMENT, GAPS AT ROOT) • CLEANLINESS (CONDITION OF STEEL SURFACES) • TACKING (TACK WELD QUALITY AND LOCATION)	O

INSPECTION TASKS DURING WELDING	
INSPECTION TASKS PRIOR TO WELDING	QA
USE OF QUALIFIED WELDERS	O
CONTROL AND HANDLING OF WELDING CONSUMABLES • PACKAGING • EXPOSURE CONTROL	O
NO WELDING OVER CRACKED TACK WELDS	O
ENVIRONMENTAL CONDITIONS • WIND SPEED WITHIN LIMITS • PRECIPITATION AND TEMPERATURE	O
WPS FOLLOWED • SETTINGS ON WELDING EQUIPMENT • TRAVEL SPEED • SELECTED WELDING MATERIALS • SHIELDING GAS TYPE/FLOW RATE • PREHEAT APPLIED • INTERPASS TEMPERATURE MAINTAINED (MIN/MAX) • PROPER POSITION (F, V, H, OH) • INTERMIX OF FILLER METALS AVOIDED UNLESS APPROVED	O
WELDING TECHNIQUES • INTERPASS AND FINAL CLEANING • EACH PASS WITHIN PROFILE LIMITATIONS • EACH PASS MEETS QUALITY REQUIREMENTS	O

INSPECTION TASKS AFTER WELDING	
INSPECTION TASKS PRIOR TO WELDING	QA
WELDS CLEANED	O
SIZE, LENGTH, AND LOCATION OF WELDS	P
WELDS MEET VISUAL ACCEPTANCE CRITERIA • CRACK PROHIBITION • WELD/BASE-METAL FUSION • CRATER CROSS SECTION • WELD PROFILES • WELD SIZE • UNDERCUT • POROSITY	P
ARC STRIKES	P
K-AREA (WHEN WELDING OF DOUBLER PLATES, CONTINUITY PLATES, OR STIFFENERS HAS BEEN PERFORMED IN THE K-AREA, VISUALLY INSPECT THE WEB K-AREA FOR CRACKS WITHIN 3 IN. OF WELD)	P
PLACEMENT OF REINFORCING OR CONTOURING FILLET WELDS (IF REQUIRED)	P
BACKING REMOVED, WELD TABS REMOVED AND FINISHED, AND FILLET WELDS ADDED (IF REQUIRED)	P
REPAIR ACTIVITIES	P
DOCUMENT ACCEPTANCE OR REJECTION OF WELDED JOINT OR MEMBER	P

INSPECTION TASKS PRIOR TO BOLTING	
INSPECTION TASKS PRIOR TO BOLTING	QA
MANUFACTURER'S CERTIFICATIONS AVAILABLE FOR FASTENER MATERIALS	P
FASTENERS MARKED IN ACCORDANCE WITH ASTM REQUIREMENTS	O
PROPER FASTENERS SELECTED FOR THE JOINT DETAIL (GRADE, TYPE, BOLT LENGTH IF THREADS ARE TO BE EXCLUDED FROM SHEAR PLANE)	O
PROPER BOLTING PROCEDURE SELECTED FOR JOINT DETAIL	O
CONNECTING ELEMENTS, INCLUDING THE APPROPRIATE FAYING SURFACE CONDITION AND HOLE PREPARATION, IF SPECIFIED, MEET APPLICABLE REQUIREMENTS	O
PRE-INSTALLATION VERIFICATION TESTING BY INSTALLATION PERSONNEL OBSERVED AND DOCUMENTED FOR FASTENER ASSEMBLIES AND METHODS USED	O
PROPER STORAGE PROVIDED FOR BOLTS, NUTS, WASHERS, AND OTHER FASTENER COMPONENTS	O

INSPECTION TASKS DURING BOLTING	
INSPECTION TASKS PRIOR TO BOLTING	QA
FASTENER ASSEMBLIES, OF SUITABLE CONDITION, PLACED IN ALL HOLES AND WASHERS (IF REQUIRED) ARE POSITIONED AS REQURIED	O
JOINT BROUGHT TO THE SNUG-TIGHT CONDITION PRIOR TO THE PRETENSIONING OPERATION	O
FASTENER COMPONENT NOT TURNED BY THE WRENCH PREVENTED FROM ROTATING	O
FASTENERS ARE PRETENSIONED IN ACCORDANCE WITH THE RCSC SPECIFICATION, PROGRESSING SYSTEMATICALLY FROM THE MOST RIGID POINT TOWARD THE FREE EDGES	O

INSPECTION TASKS AFTER BOLTING	
INSPECTION TASKS PRIOR TO BOLTING	QA
DOCUMENT ACCEPTANCE OR REJECTION OF BOLTED CONNECTIONS	P

OTHER STRUCTURAL STEEL INSPECTION TASKS	
OTHER INSPECTION TASKS	QA
PROTECTED ZONE - NO HOLES OR UNAPPROVED ATTACHMENTS MADE BY FABRICATOR OR ERECTOR, AS APPLICABLE. PROTECTED ZONE TO BE INSPECTED AFTER WORK BY OTHER TRADES IS COMPLETE, INCLUDING THOSE INVOLVING CURTAINWALL, MECHANICAL, ELECTRICAL, PLUMBING, AND INTERIOR PARTITIONS.	P
ULTRASONIC TESTING SHALL BE PERFORMED ON ALL CJP GROOVE WELDS IN MATERIALS 5/16" OR THICKER. WELD DISCONTINUITIES SHALL BE ACCEPTED OR REJECTED ON THE BASIS OF CRITERIA OF AWS D1.1 TABLE 6.2	P

NOTES FOR STRUCTURAL STEEL WELDING, BOLTING, AND OTHER INSPECTION TASK TABLES:

THESE TABLE ARE BASED ON AISC 360-16 CHAPTER N AND AISC 341-16 CHAPTER J. SOME INFORMATION IS NOT REPEATED HERE. FOR MORE INFORMATION PERTAINING TO THESE INSPECTION TASKS, REFER TO THOSE CHAPTERS.

O - OBSERVE THESE ITEMS ON A RANDOM DAILY BASIS. OPERATIONS NEED NOT BE DELAYED PENDING THESE INSPECTIONS.

P - PERFORM THESE TASKS FOR EACH WELDED OR BOLTED JOINT OR MEMBER PRIOR TO FINAL ACCEPTANCE OF THE ITEM.

SEISMIC AND WIND QUALITY ASSURANCE PLAN

The purpose of this plan is to provide additional controls over the quality of work performed related to seismic and wind load force resisting systems in the building. This plan is required by the 2015 IBC, SECTION 1705.11 AND 1705.12.

Each contractor and/or subcontractor responsible for the construction of a seismic or wind-force-resisting system, designated seismic or wind system, seismic or wind resisting component listed in the Seismic and Wind Quality Assurance Plan shall complete a Contractor Responsibility Statement (see specifications) and submit to the building official and the owner prior to the commencement of work on the system or component.

Designated Seismic and Wind Systems Part of the Quality Assurance Plan

The following systems are part of the quality assurance plan:

1. Seismic and wind-force resisting system connections to the foundation (Foundation is excluded).
2. Vertical seismic and wind-force resisting systems including braced frames and steel shear panels, and associated connections.
3. Roof cladding and roof framing connections.
4. Wall connections to roof and floor diaphragms and framing.
5. Roof and floor diaphragm systems and connections, including collectors, drag struts, and boundary elements.
6. Fabrication and installation of components and assemblies required meeting the impact-resistance requirements of IBC Section 1609.
7. Exterior wall and cladding panels and their anchorage.
8. Suspended ceiling systems and their anchorage.
9. Anchorage of electrical equipment used for emergency or standby power systems.
10. Anchorage of equipment using combustible energy sources.
11. Anchorage of motors, transformers, switchgear units and motor control centers.
12. Anchorage of piping distribution systems 3 inches in diameter and larger.
13. Steel storage racks and their anchorage.

Special Inspections

The Owner or the Engineer of Record acting as the Owner's agent shall employ special inspectors as defined in Chapter 17 of the IBC. Special Inspections shall be performed for the systems included in the quality assurance plan. Type and frequency of required Special Inspections are noted in the General Structural Notes.

The Contractor will accommodate and cooperate with any and all Special Inspectors during site visits. The Special Inspector will issue a report after each Special Inspection to the Contractor, Owner, and Building Official. The report shall detail in writing any deficiencies noted by the Special Inspector. The Contractor shall be required to resolve any deficiencies noted in the Special Inspection report at the Contractor's own expense.

Structural Observations

The Engineer of Record or his representative will perform Structural Observations during construction as defined in Chapter 17 of the IBC. At a minimum the following stages will have structural observation but not limited to:

1. During construction of the grade beam system.
2. During erection of the steel frame.
3. Near end of steel erection before erector has left the job site.
4. During construction of the exterior wall system.
5. After major mechanical and electrical systems have been installed prior to covering of finishes.

The Contractor will accommodate and cooperate with the Structural Observer during his site visits. The structural observer will issue a report after each Structural Observation visit to the Contractor, Owner, and Building Official. The report shall detail in writing any deficiencies noted by the Structural Observer. The Contractor shall be required to resolve any deficiencies noted in the Structural Observation report at the Contractor'sown expense.

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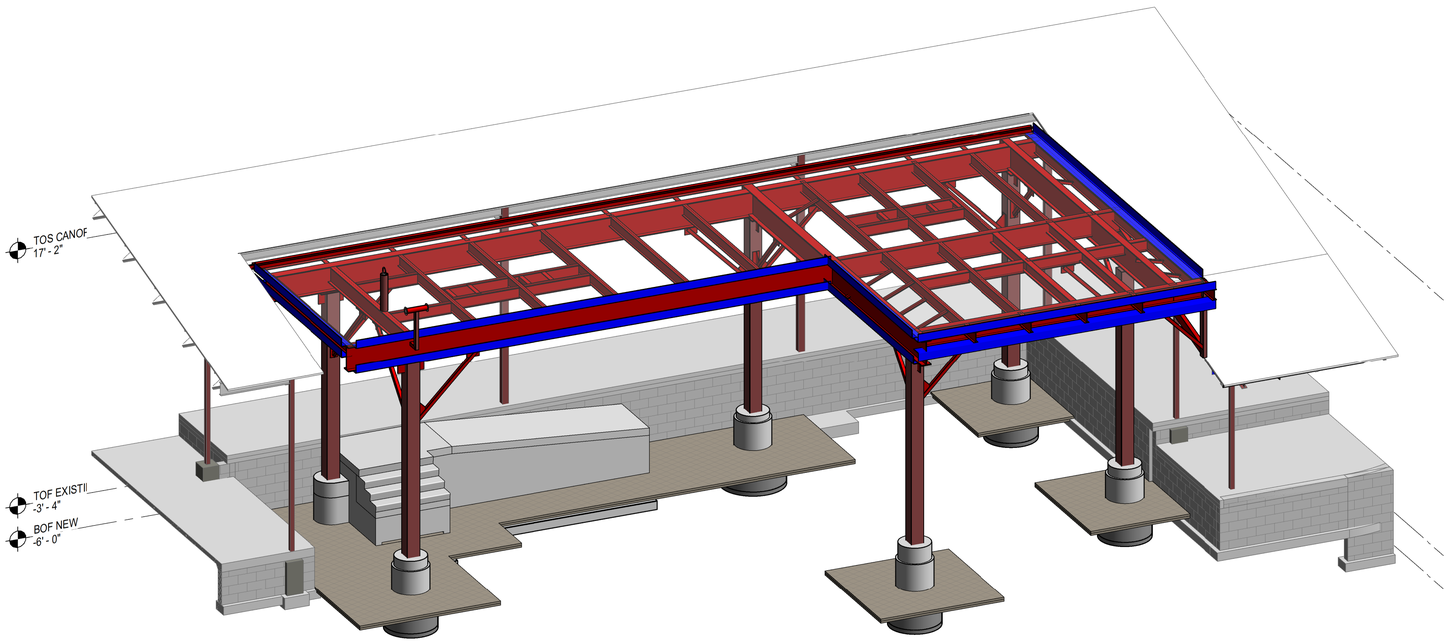
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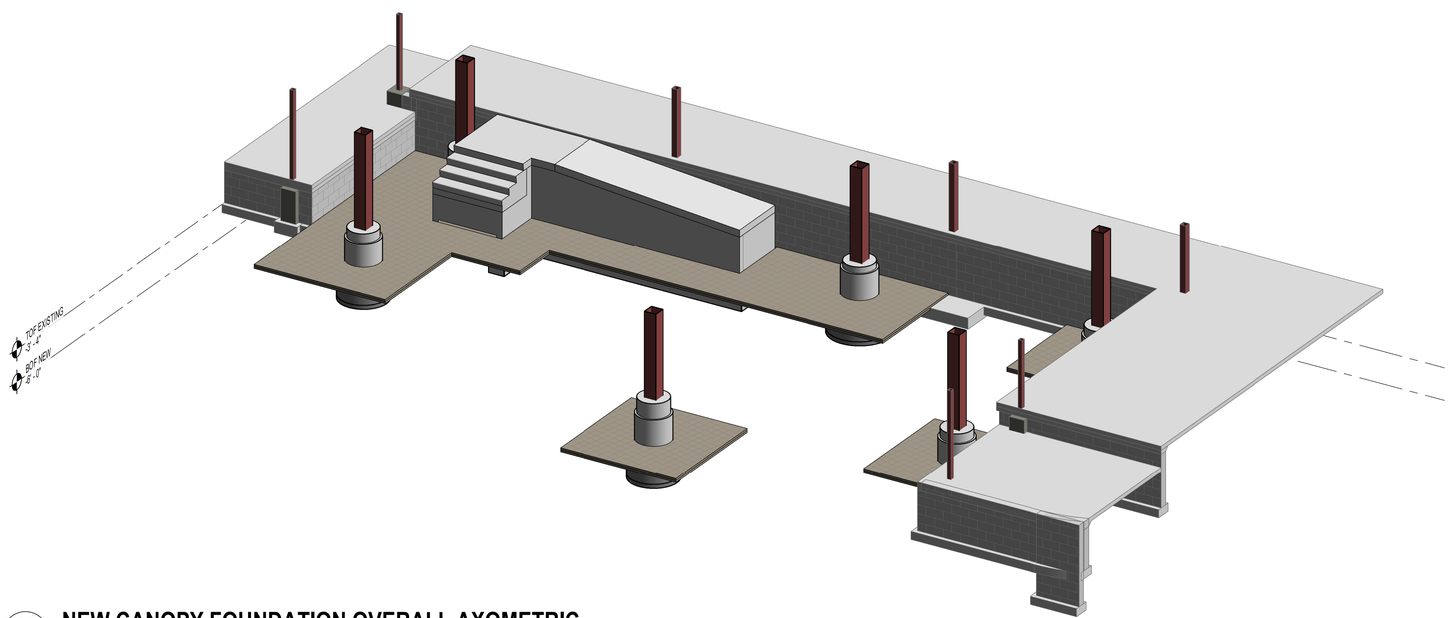
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C1
S-004

NEW CANOPY STRUCTURE OVERALL AXOMETRIC



A2
S-004

NEW CANOPY FOUNDATION OVERALL AXOMETRIC

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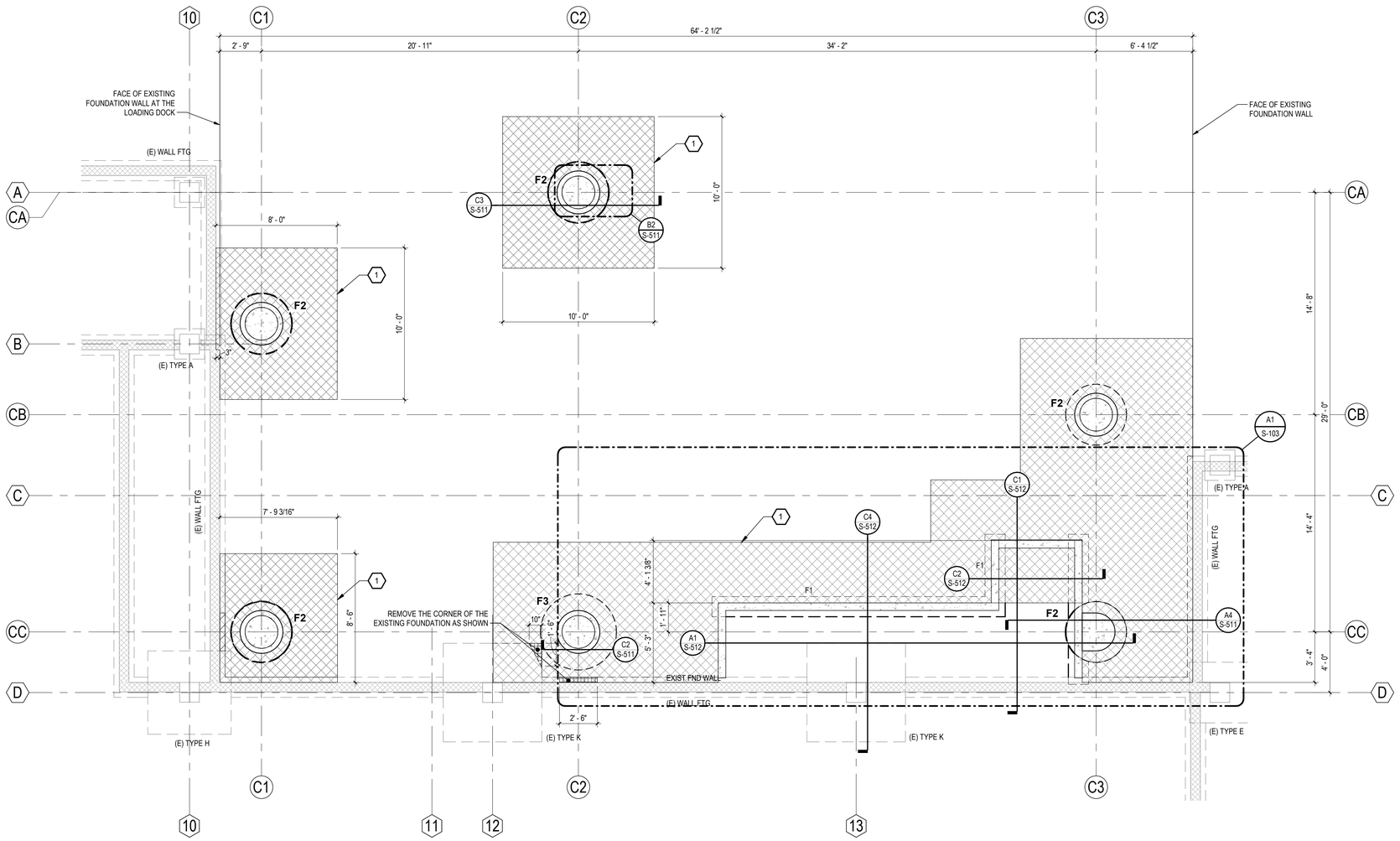
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FOUNDATION PLAN NOTES

1. (2) LAYERS OF 2" EXTRUDED POLYSTYRENE INSUALTION. STAGGER JOINTES BETWEEN LAYERS OF INSULATION.

B1 S-101 CANOPY FOUNDATION PLAN

1/4" = 1'-0"

FOUNDATION INSTALLATION SEQUENCE

1. EXCAVATE THE AREA SURROUND THE NEW FOUNDATION DOWNN TO THE LEVEL OF THE EXISTING FOUNDATIONS.
2. REMOVE PORTIONS OF EXISTING FOUNDATIONS WHERE SHOWN. THE EXISTING FOOTING CAN BE REMOVED USING SAW CUTTING, OR BY IMPACT HAMMERING WITH HAND TOOLS ONLY
3. PLACE THE RING FOR THE NEW FOUNDATION ON THE BOTTOM OF THE EXCAVATION AND CENTER ON THE GRID POINT. EXCAVATE INSIDE THE STEEL RING USING A VACTOR TRUCK. ADVANCE THE RING UNTIL THE BASE IS LEVEL AT THE REQUIRED ELEVATION. LEVEL THE AREA INSIDE THE RING AND HAND-TAMP THE GROUND UNTIL ALL LOOSE MATERIAL HAS BEEN COMPACTED.
4. PLACE EXCAVATED MATERIAL AROUND THE RING IN 6" LIFTS AND LIGHTLY TAMP WORKING AROUND THE CIRCUMFERENCE OF THE RING CAFEFULLY SO THE POSITION OF THE RING IS NOT DISTURBED. CONTINUE FILLING AND TAMPING UNTIL THE FILL IS APPROXIMATELY HALF THE HEIGHT OF THE RING.
5. PLACE THE REBAR CAGE IN THE FORM AND ADJUST AS NEEDED. SECURE THE REBAR CAGE IN THE FORM USING DOLBIES OR OTHER POSITIONING DEVICES.
6. FILL THE FOOTING WITH CONCRETE IN LAYERS NOT EXCEEDING 12", VIBRATE THE CONCRETE
   DURING PLACEMENT. CONTINUE FILLING INSID EAND OUTSIDE THE FORM UNTIL THE FORM IS FULL. PUSH CONCRETE FILL UNDER ANY AREAS OF EXISTING FOOTINGS THAT MAY HAVE BECOME UNDERMINED. FINISH TOP OF FOOTING AS REQUIRED.

SHEET NOTES

1. REFERENCE ELEVATION 0'-0" IS THE TOP OF EXISTING FLOOR SLAB EAST OF EXISTING GRID LINE 14. TOP OF FLOOR SLAB IN THE MULTIPURPOSE ROOM ELEVATION +1'-9"

FOUNDATION SCHEDULE		
MARK	**SIZE**	**REMARKS**
F1	16" WIDE x 8" DEEP	(2) #5 CONTINUOUS REINFORCING
F2	4'-0" DIAMETER	REINFORCE WITH (4) #5, ORTHOGONAL PATTERN, TOP AND BOTTOM
F3	5'-0" DIAMETER	REINFORCE WITH (9) #5, ORTHOGONAL PATTERN, TOP AND BOTTOM

TRUE NORTH

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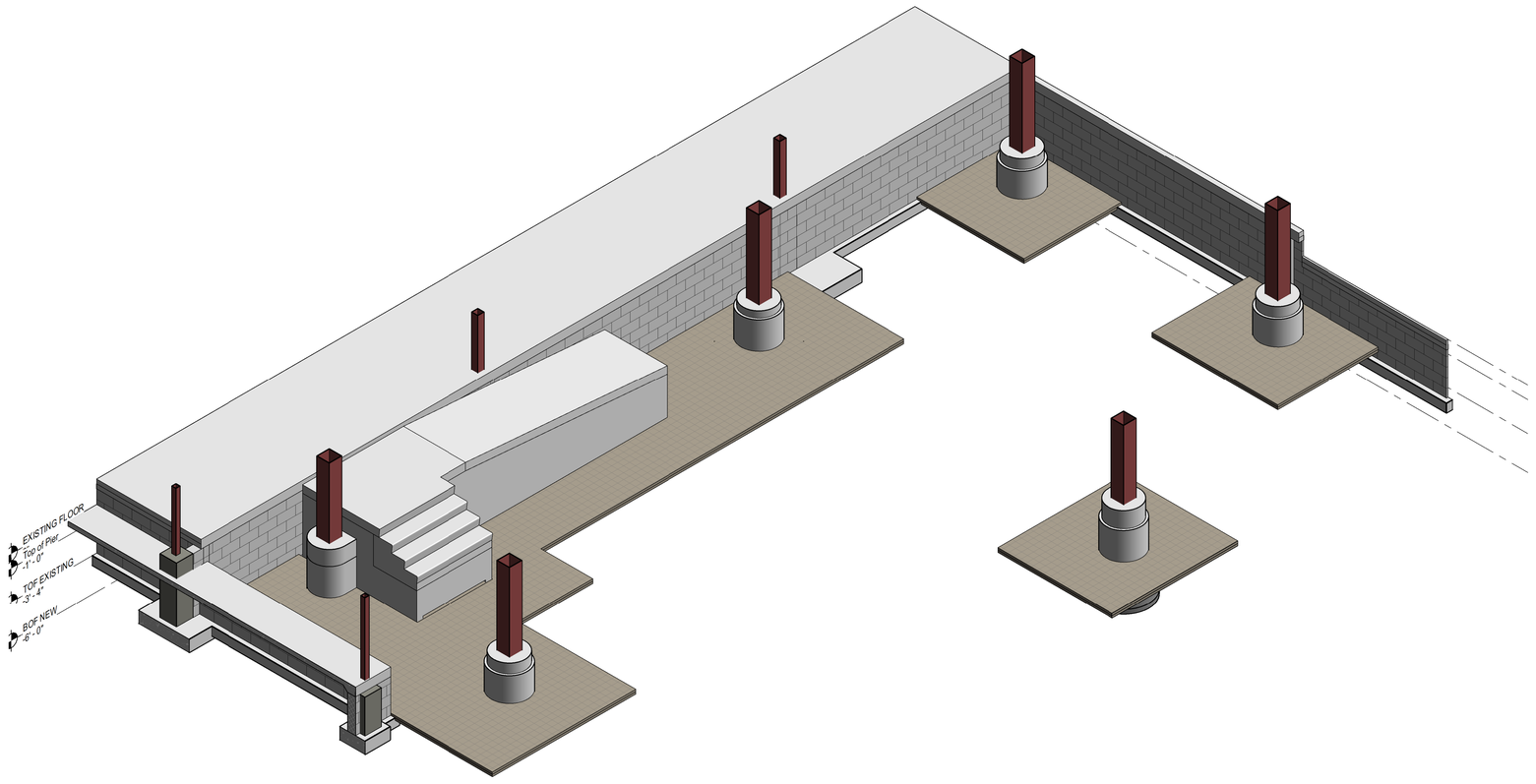
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CANOPY FOUNDATION PLAN

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ORTHOGRAPHIC VIEW OF FOUNDATIONS

PERMIT STAMP

FOUNDATION INSTALLATION SEQUENCE

1. EXCAVATE THE AREA SURROUND THE NEW FOUNDATION DOWNN TO THE LEVEL OF THE EXISTING FOUNDATIONS.
2. REMOVE PORTIONS OF EXISTING FOUNDATIONS WHERE SHOWN. THE EXISTING FOOTING CAN BE REMOVED USING SAW CUTTING, OR BY IMPACT HAMMERING WITH HAND TOOLS ONLY
3. PLACE THE RING FOR THE NEW FOUNDATION ON THE BOTTOM OF THE EXCAVATION AND CENTER ON THE GRID POINT. EXCAVATE INSIDE THE STEEL RING USING A VACTOR TRUCK. ADVANCE THE RING UNTIL THE BASE IS LEVEL AT THE REQUIRED ELEVATION. LEVEL THE AREA INSIDE THE RING AND HAND-TAMP THE GROUND UNTIL ALL LOOSE MATERIAL HAS BEEN COMPACTED.
4. PLACE EXCAVATED MATERIAL AROUND THE RING IN 6" LIFTS AND LIGHTLY TAMP WORKING AROUND THE CIRCUMFERENCE OF THE RING CAFEFULLY SO THE POSITION OF THE RING IS NOT DISTURBED. CONTINUE FILLING AND TAMPING UNTIL THE FILL IS APPROXIMATELY HALF THE HEIGHT OF THE RING.
5. PLACE THE REBAR CAGE IN THE FORM AND ADJUST AS NEEDED. SECURE THE REBAR CAGE IN THE FORM USING DOLBIES OR OTHER POSITIONING DEVICES.
6. FILL THE FOOTING WITH CONCRETE IN LAYERS NOT EXCEEDING 12". VIBRATE THE CONCRETE DURING PLACEMENT. CONTINUE FILLING INSID EAND OUTSIDE THE FORM UNTIL THE FORM IS FULL. PUSH CONCRETE FILL UNDER ANY AREAS OF EXISTING FOOTINGS THAT MAY HAVE BECOME UNDERMINED. FINISH TOP OF FOOTING AS REQUIRED.

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ORTHOGRAPHIC VIEW OF FOUNDATIONS

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Revision:
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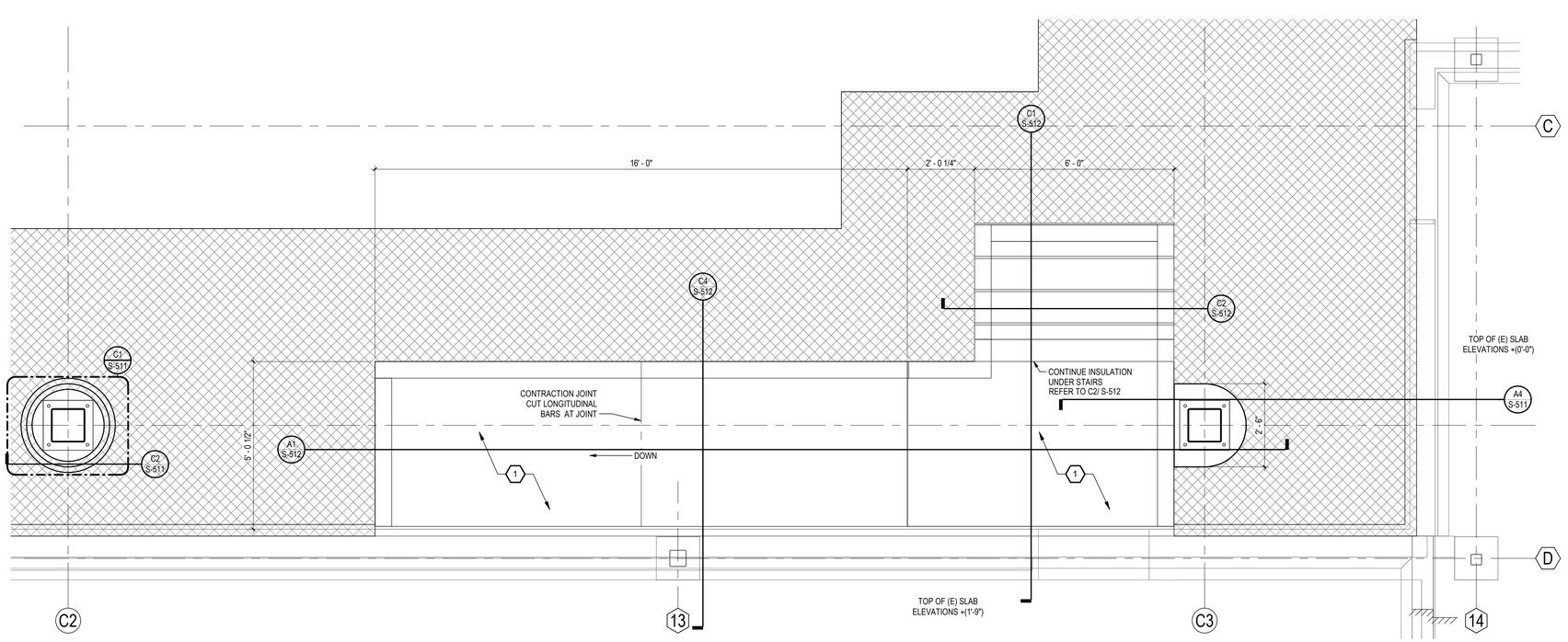
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CANOPY RAMP AND STAIR PLAN NOTES

1. 7" SLAB OV ER TAPERED EPS FOAM. REINFORCE SLAB WITH #4 AT 12 EACH WAY. FORM OR SAW-CUT JOINTS IN SLAB AT ±7'-0"



A1 S-103 **ENLARGED CANOPY RAMP AND STAIR PLAN**

1/2" = 1'-0"

TRUE NORTH

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DOCUMENTS
11900 Puma Street
Anchorage, AK 99515

Project No.: 2014295940
File Name: N/A

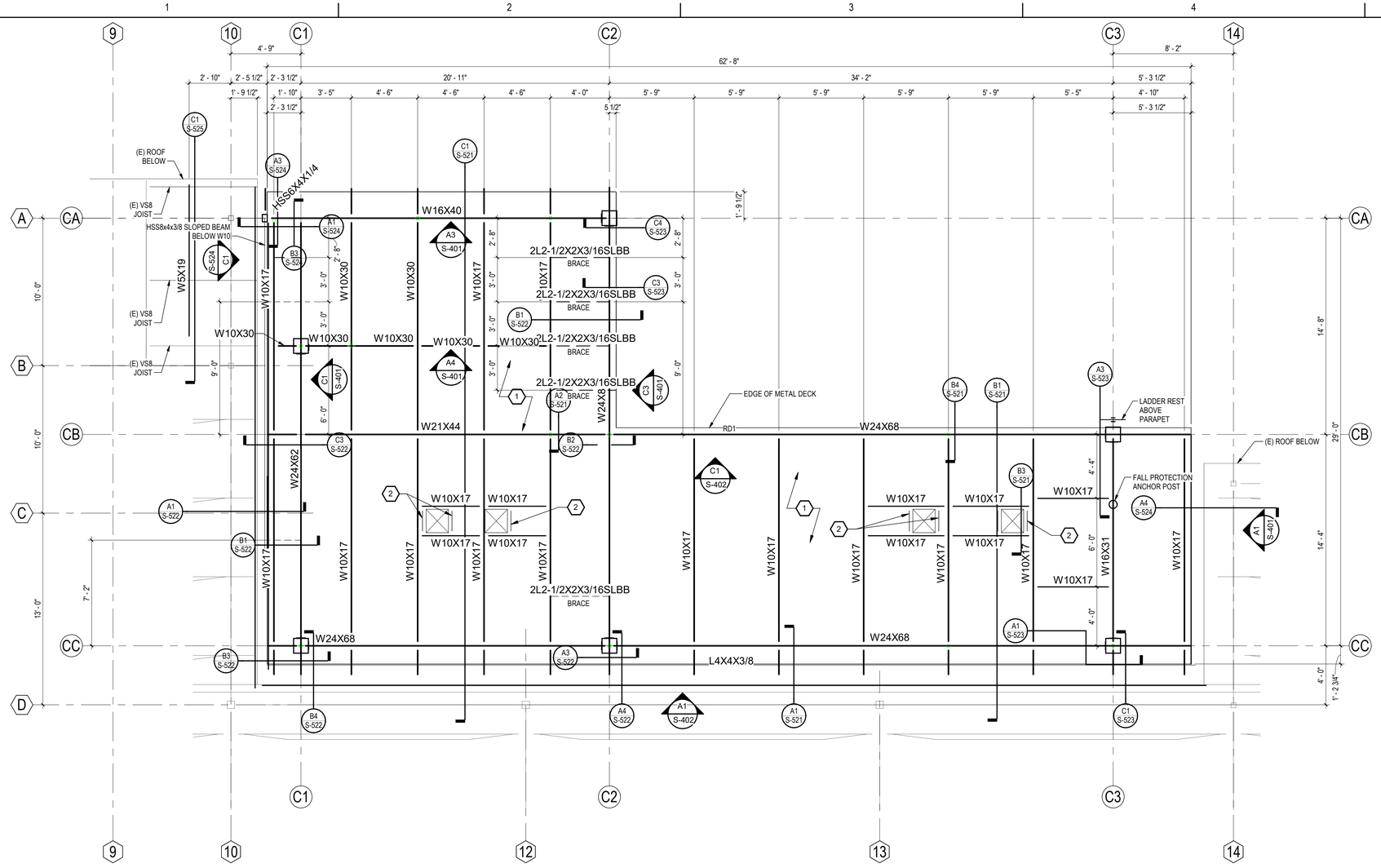
DJR	BEH	BEH	2025.07.30
Dwn.	Dsgn.	Chkd.	DATE

Title
CANOPY RAMP AND STAIR PLAN

Scale: As indicated
Revision:
Drawing No. **S-103**

<Pick location in Project Information>
7/30/2025 5:52:41 PM

ORIGINAL SHEET - ANSI D



B1 S-201 CANOPY ROOF FRAMING PLAN

1/4" = 1'-0"

PERMIT STAMP

CANOPY ROOF FRAMING PLAN NOTES

1. 1-1/2" TYPE B X 16 GAUGE METAL ROOF DECK, 50 KSI STEEL, 36-INCH WIDE SHEETS. MINIMUM 3-SPAN CONDITION. LAP ENDS 2" OVER FRAMING MEMBERS. WELD METAL DECKING TO END AND INTERMEDIATE FRAMING SUPPORTS USNG 3/4" DIAMETER PUDDLE WELDS USING A 36/7 PATTERN (EVERY FLUTE). WELD SIDE SEAMS USING 1-1/2" LONG SIDE SEAMS AT 24 INCHES. WELD METAL DECKING TO FRAMING PARALLEL TO THE LENGTH USING 3/4" PUDDLE WELDS AT 24 INCHES. MECHANICAL FASTENERS CAN BE USED IF SUPPORTING DOCUMENTATION IS SUBMITTED FOR REVIEW.
2. USE L4X4X1/4 ANGLE TO FRAME THE EDGES OF THE DECK AT ROOF DECK OPENINGS. ANGLE IS TO BE INSTALLED WITH THE VERTICAL LEG DOWN BELOW THE DECK.

TRUE NORTH

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ANCHORAGE SCHOOL DISTRICT
PROJECT #245011

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ASD Project No. 245011
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DOCUMENTS
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File Name: N/A

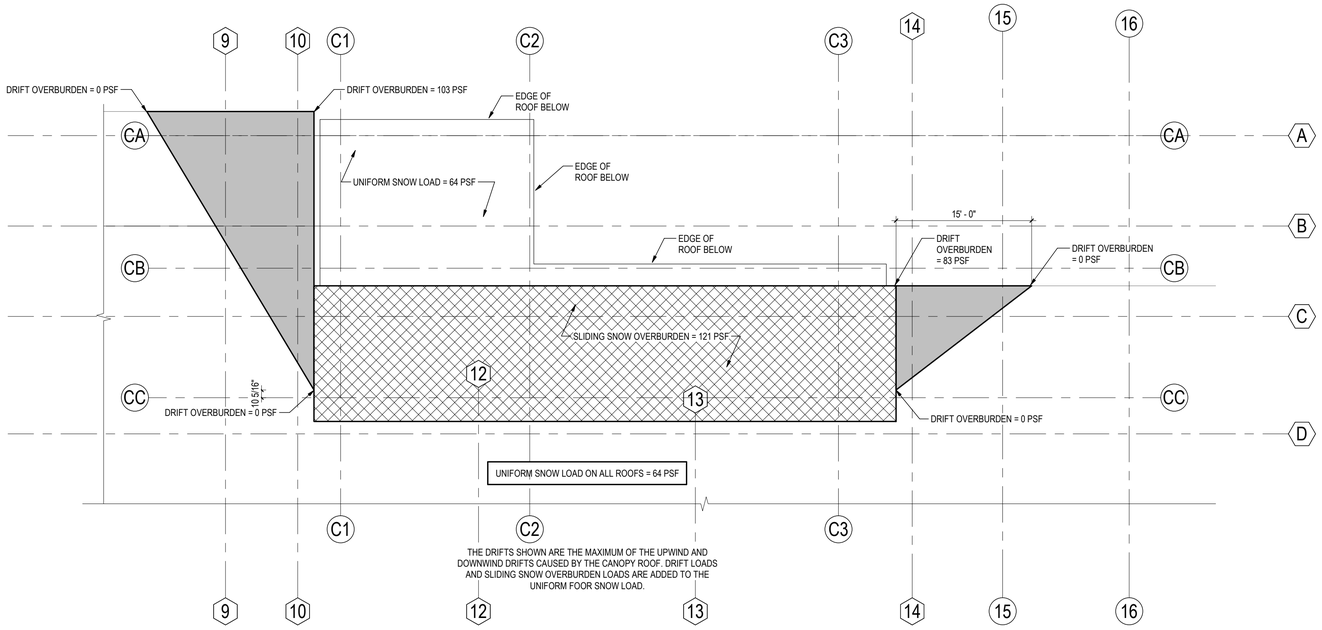
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CANOPY ROOF FRAMING PLAN

Scale: As indicated
Revision:
Drawing No. **S-201**

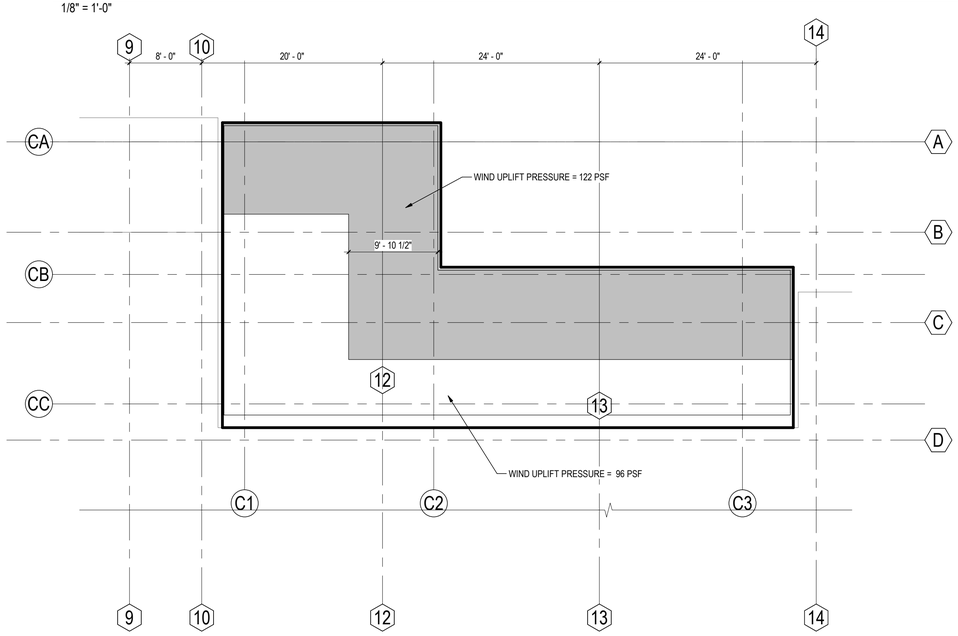
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ORIGINAL SHEET - ANSI D



ROOF SNOW DRIFTING LOAD PLAN

1/8" = 1'-0"



WIND PRESSURE MAP

1/8" = 1'-0"

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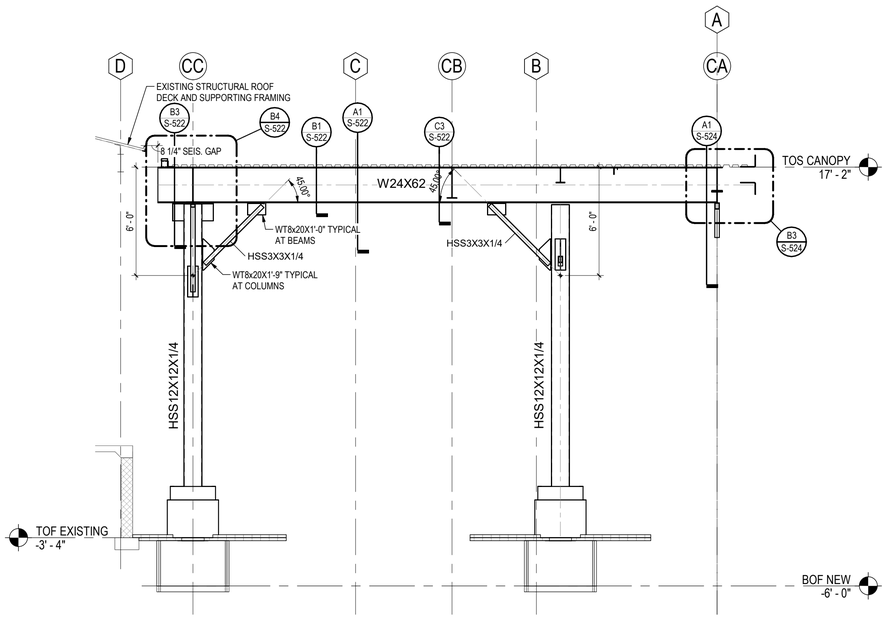
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Title
CANOPY ROOF LOAD PLANS

Scale: 1/8" = 1'-0"
Revision:
Drawing No. **S-202**

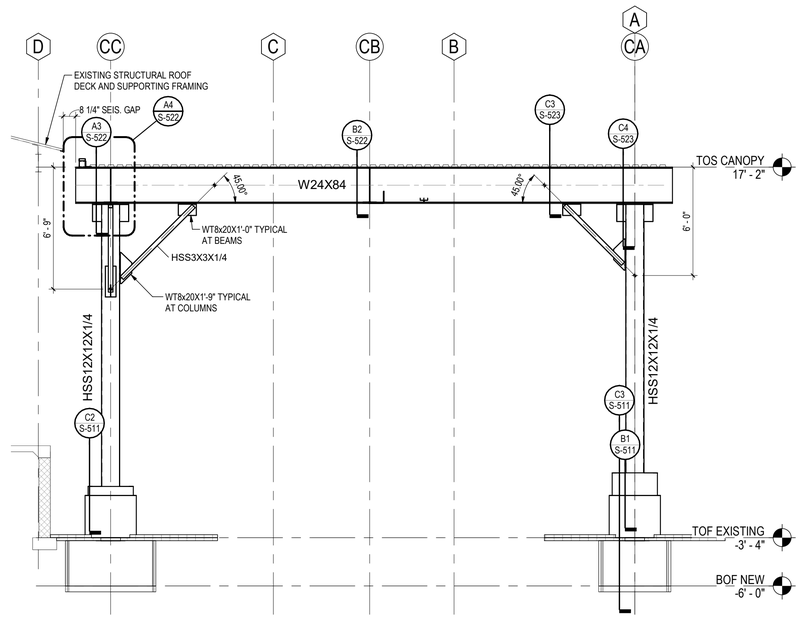
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ORIGINAL SHEET - ANSI D



C1 S-401 FRAMING ELEVATION AT GRID C1

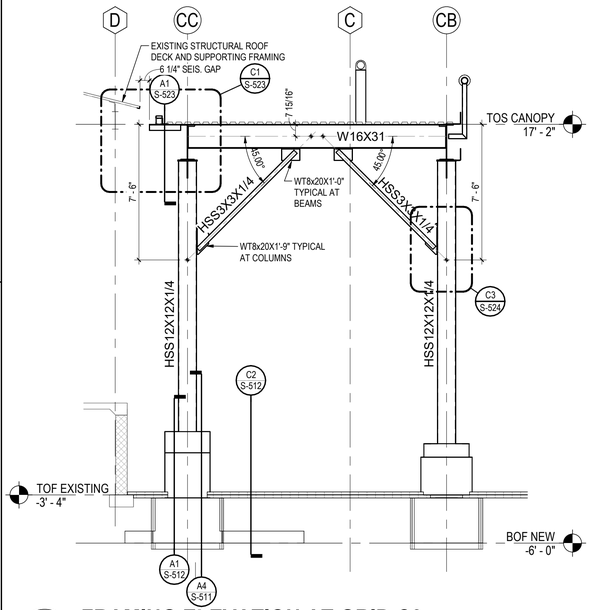
1/4" = 1'-0"



C3 S-401 FRAMING ELEVATION AT GRID C2

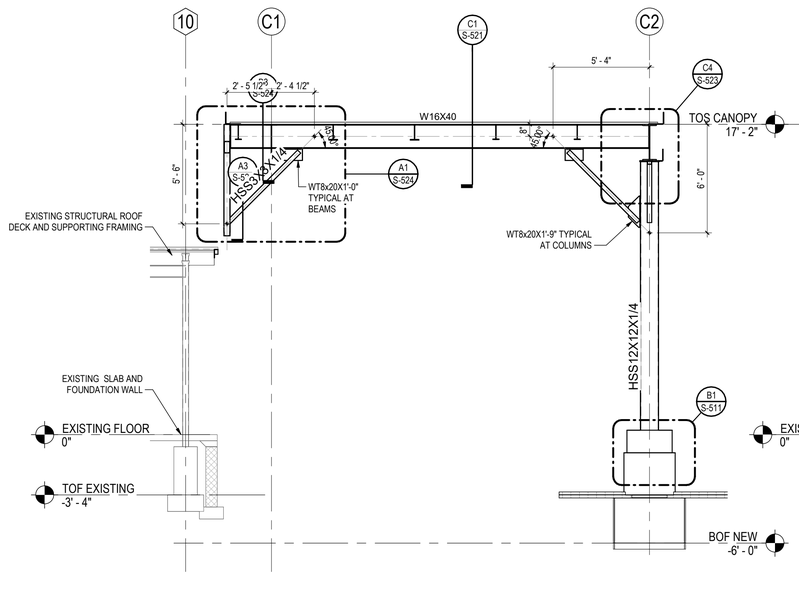
1/4" = 1'-0"

PERMIT STAMP



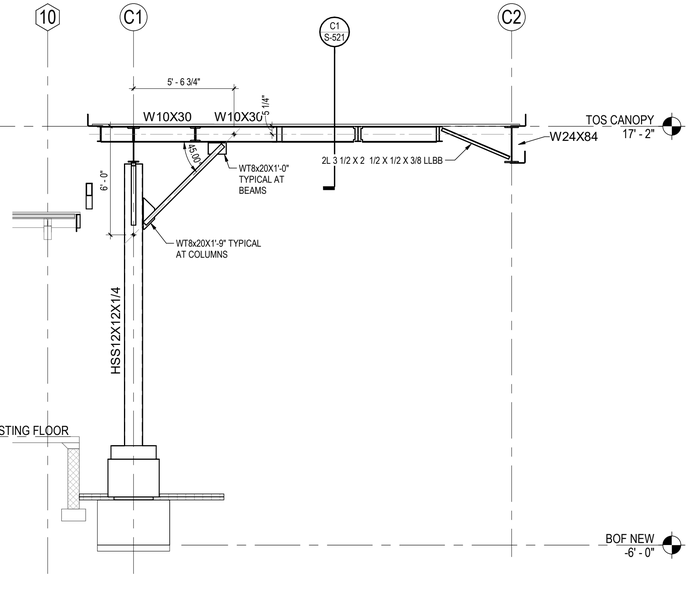
A1 S-401 FRAMING ELEVATION AT GRID C3

1/4" = 1'-0"



A3 S-401 FRAMING ELEVATION AT GRID CA

1/4" = 1'-0"



A4 S-401 FRAMING ELEVATION NEAR GIRD B

1/4" = 1'-0"

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Project No.: 2014295940
File Name: N/A

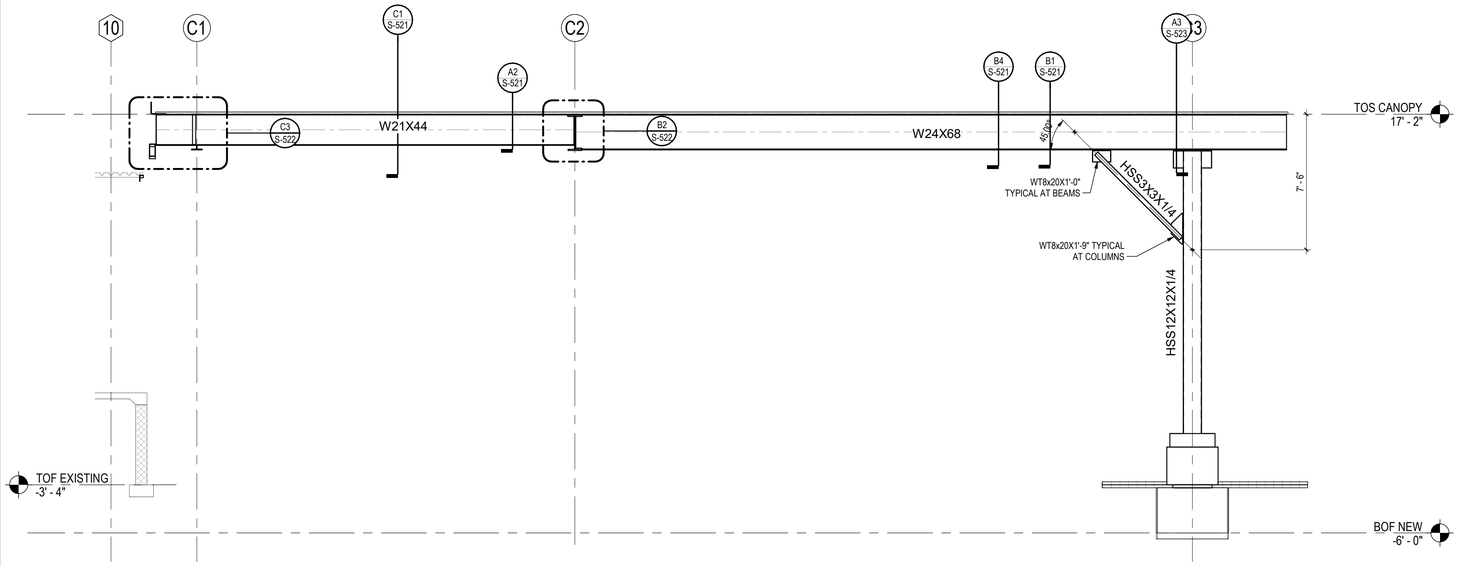
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Title
FRAMING ELEVATIONS

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Revision:
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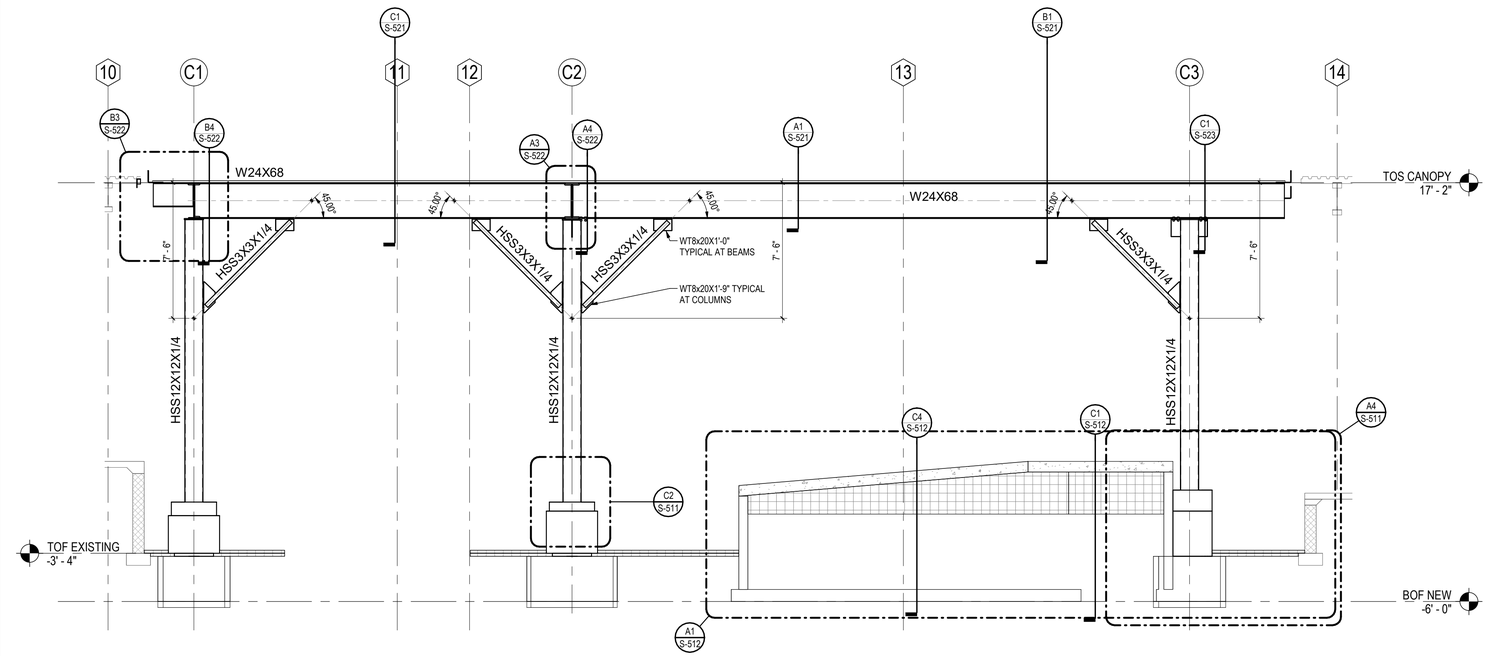
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ORIGINAL SHEET - ANSI D



C1 S-402 FRAMING ELEVATION AT GRID CB

1/4" = 1'-0"



A1 S-402 FRAMING ELEVATION AT GRID CC

1/4" = 1'-0"

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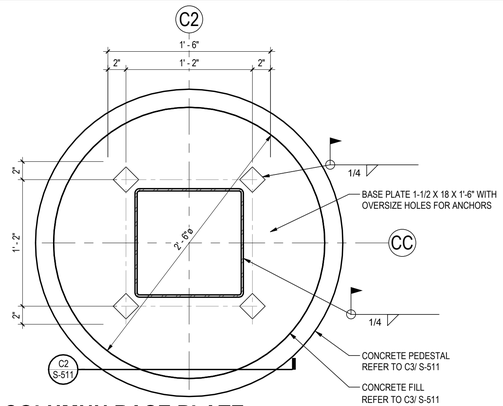
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Title
FRAMING ELEVATIONS

Scale: 1/4" = 1'-0"
Revision:
Drawing No. **S-402**

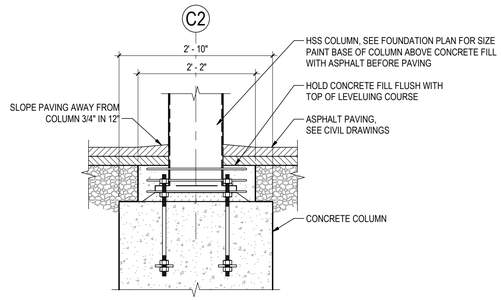
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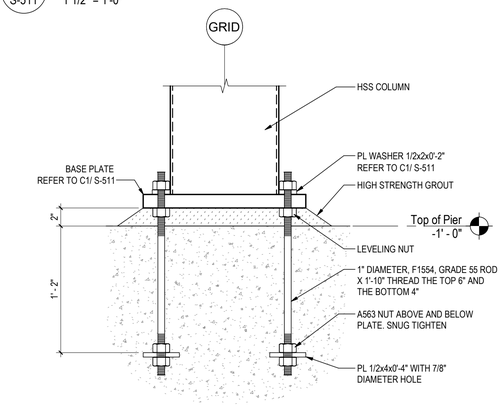
C1 S-511 COLUMNN BASE PLATE

1 1/2" = 1'-0"



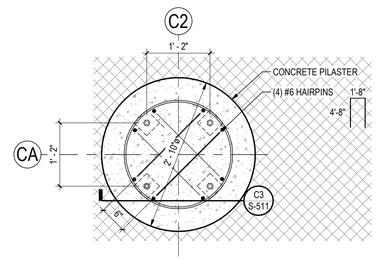
C2 S-511 INTERFACE WITH PAVING AT C2/CC

3/4" = 1'-0"



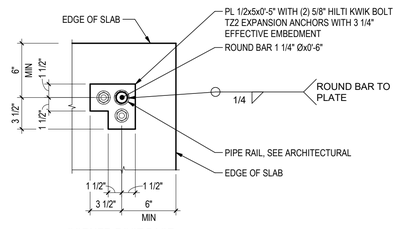
B1 S-511 ANCHOR ROD ASSEMBLY

1 1/2" = 1'-0"

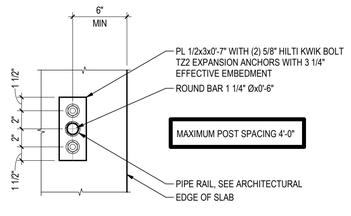


B2 S-511 SECTION THROUGH PEDESTAL

3/4" = 1'-0"



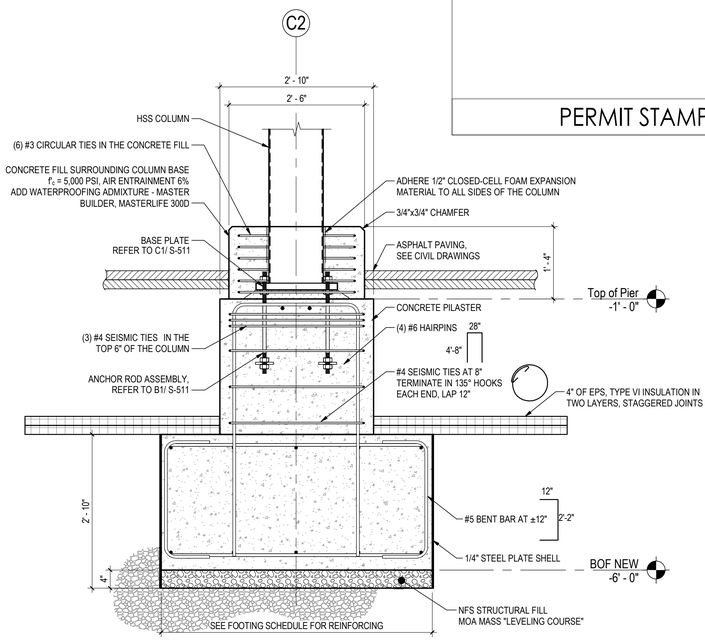
CORNER-POST BASE



LINE-POST BASE

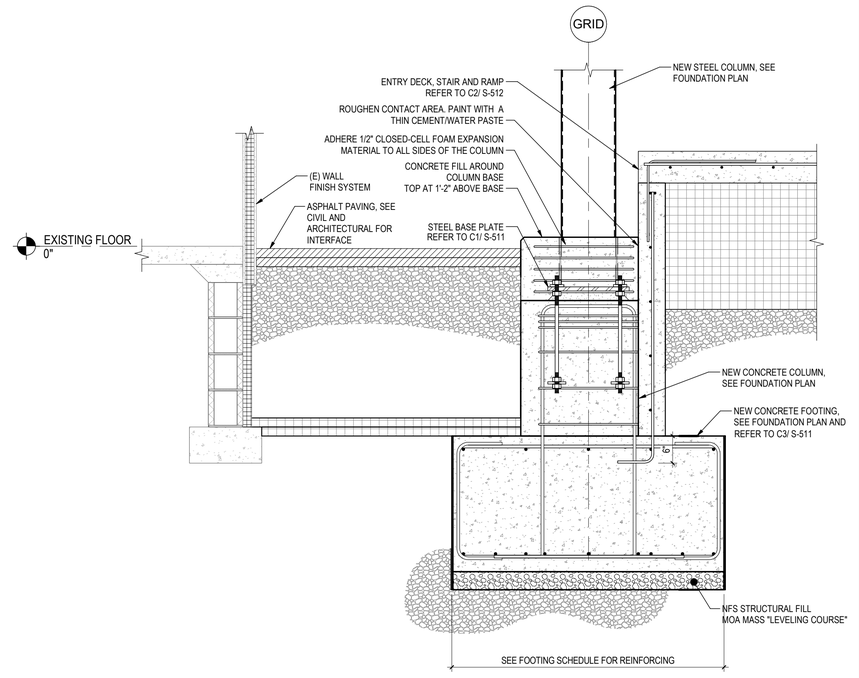
A2 S-511 GUARD RAIL POST BASES

1 1/2" = 1'-0"



C3 S-511 NEW COLUMN FOOTING

3/4" = 1'-0"



A4 S-511 NEW COLUMN FOOTING AT EXISTING

3/4" = 1'-0"

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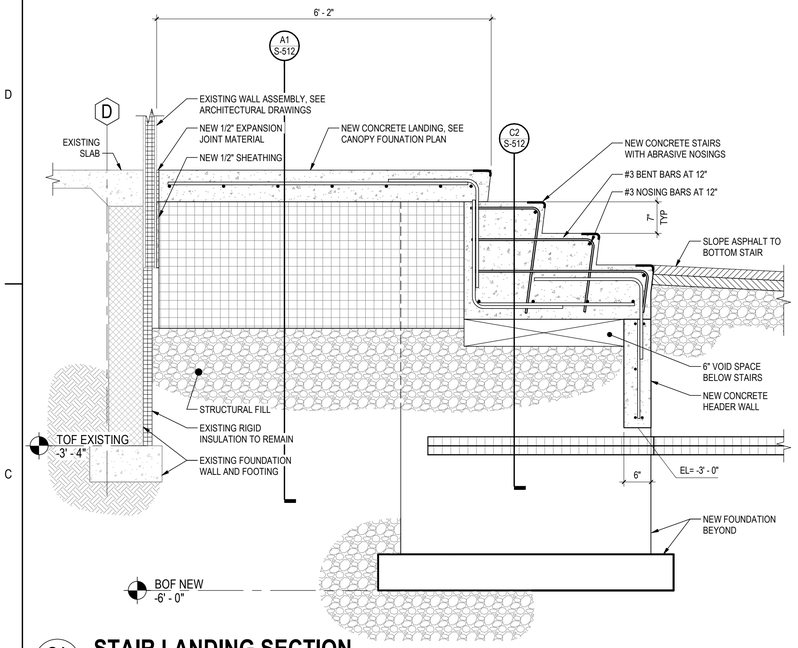
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Scale: As indicated

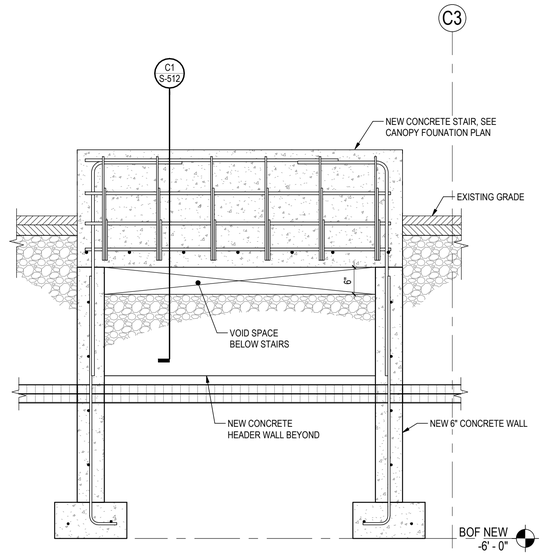
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Drawing No. **S-511**

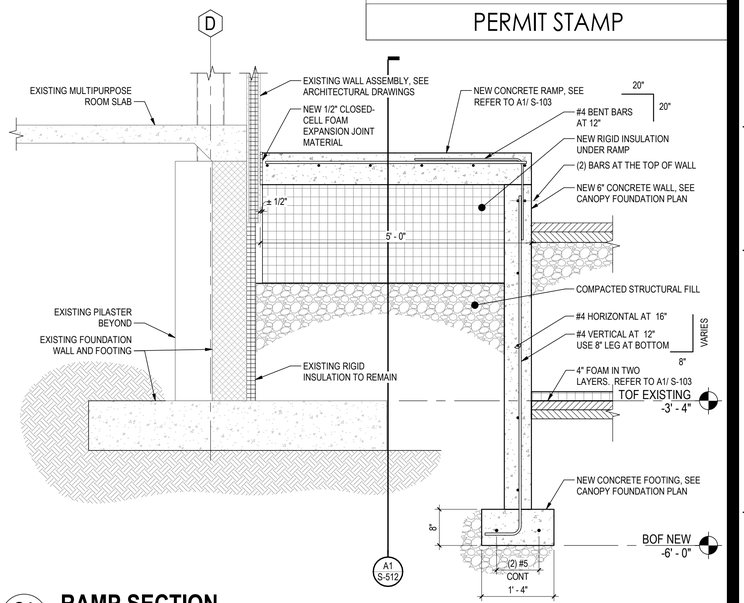
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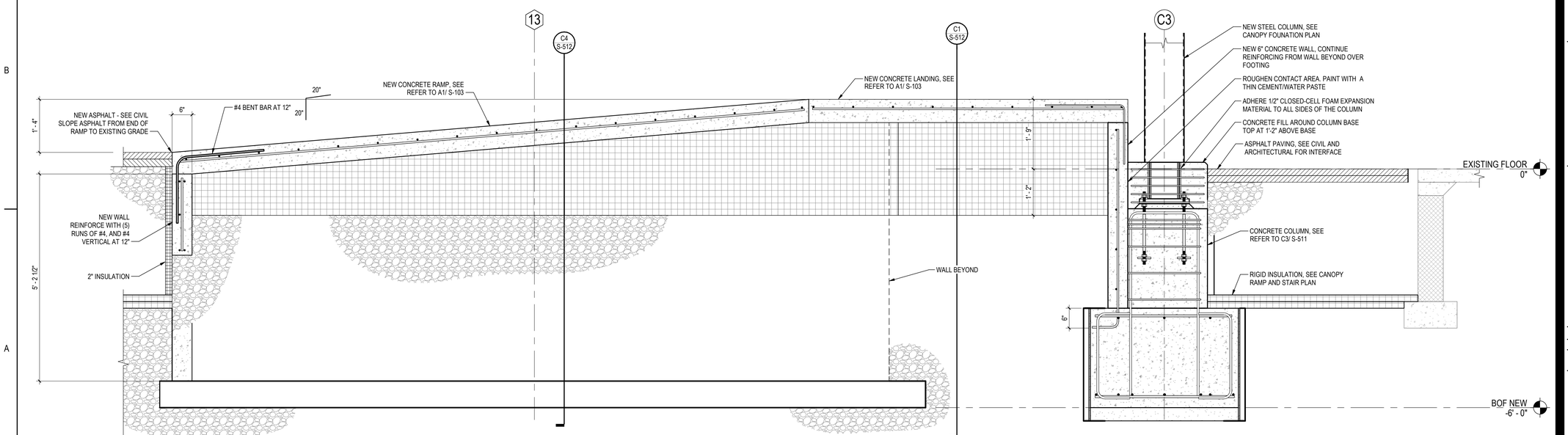
C1 / S-512 **STAIR LANDING SECTION**
3/4" = 1'-0"



C2 / S-512 **STAIR SECTION**
3/4" = 1'-0"



C4 / S-512 **RAMP SECTION**
3/4" = 1'-0"



A1 / S-512 **RAMP LONGITUDINAL SECTION**
3/4" = 1'-0"

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Project No.: 2014295940
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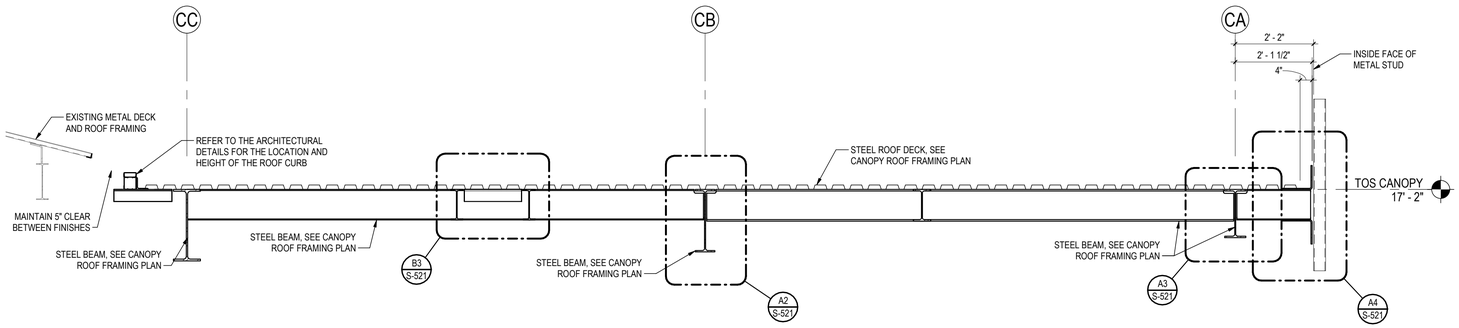
DJR	BEH	BEH	2025.07.30
Dwn.	Dsgn.	Chkd.	DATE

Title
CANOPY RAMP AND
STAIR DETAILS

Scale: 3/4" = 1'-0"
Revision:
Drawing No. **S-512**

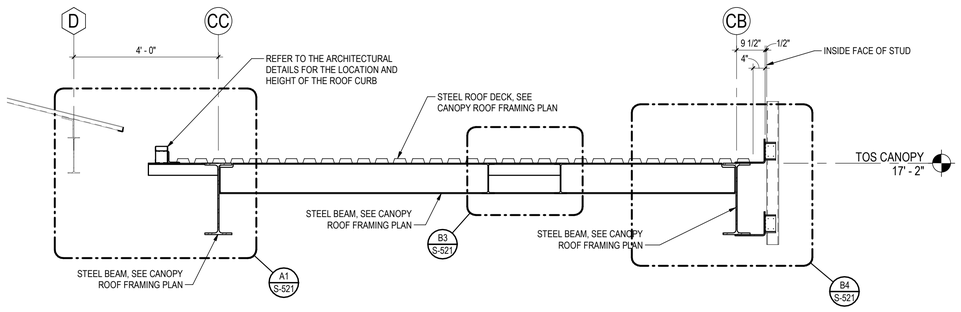
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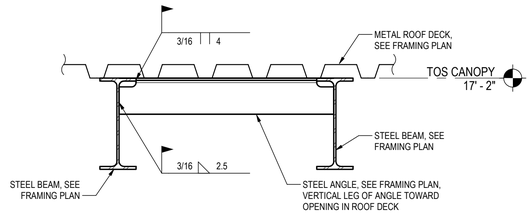
C1 S-521 NEW CANOPY BETWEEN C1 AND C2

1/2" = 1'-0"



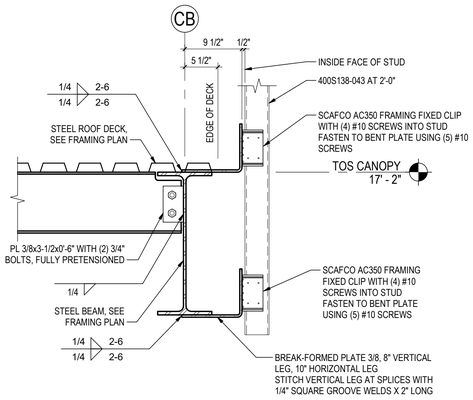
B1 S-521 NEW CANOPY BETWEEN C2 AND C3

1/2" = 1'-0"



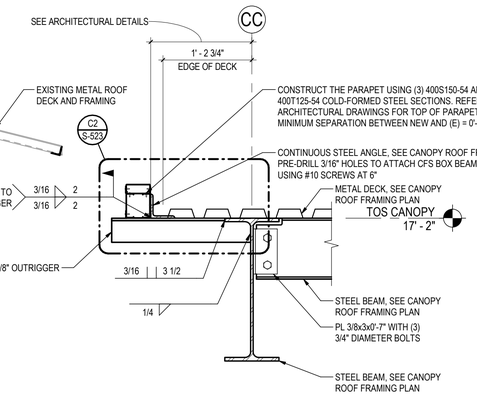
B3 S-521 FRAMING AT OPENINGS THROUGH DECK

1 1/2" = 1'-0"



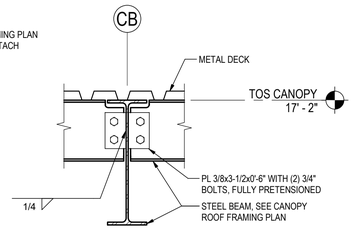
B4 S-521 EDGE OF CANOPY, GRID LINE C2 TO C3

1" = 1'-0"



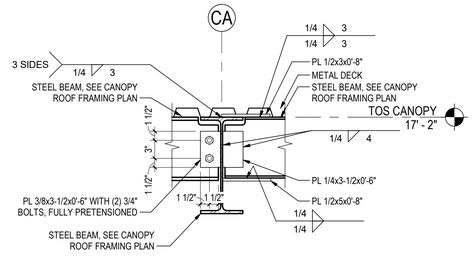
A1 S-521 CANOPY EDGE AT GRID LINE CC

1" = 1'-0"



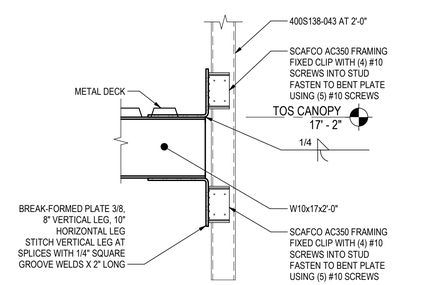
A2 S-521 FILLER BEAM CONNECTION

1" = 1'-0"



A3 S-521 CANTILEVER AT GRID LINE CA

1" = 1'-0"



A4 S-521 EDGE OF CANOPY AT GRID LINE CA

1" = 1'-0"

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11900 Puma Street
Anchorage, AK 99515

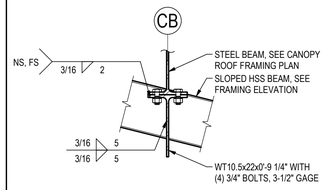
Project No.: 2014295940
File Name: N/A

DJR	BEH	BEH	2025.07.30
Dwn.	Dsgn.	Chkd.	DATE

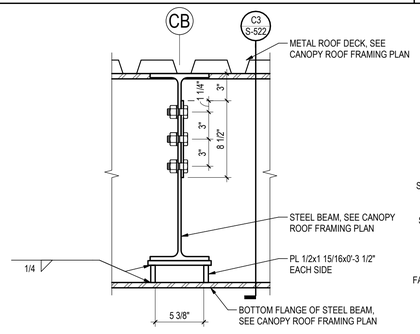
Title
ROOF FRAMING DETAILS

Scale: As indicated
Revision:
Drawing No. **S-521**

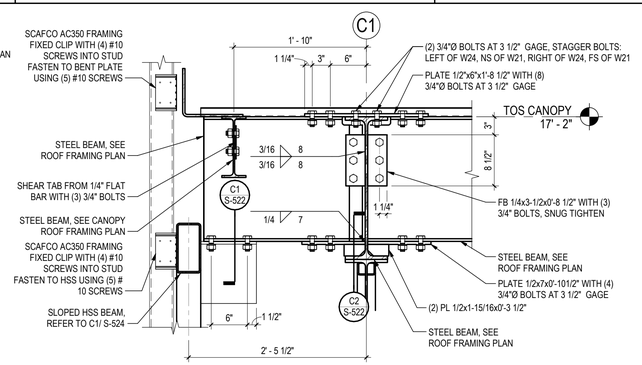
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ORIGINAL SHEET - ANSI D



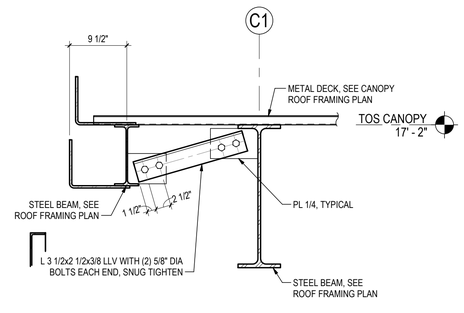
C1 S-522 SLOPED BEAM CONNECTION
1" = 1'-0"



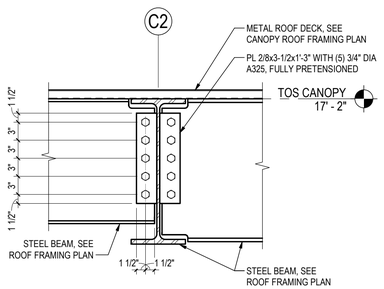
C2 S-522 BEAM SEAT
1 1/2" = 1'-0"



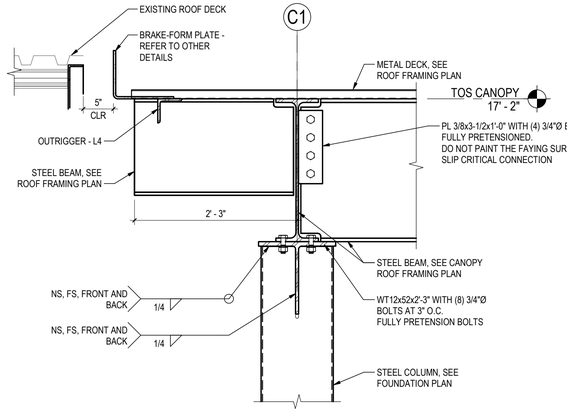
C3 S-522 MOMENT CONNECTION
1" = 1'-0"



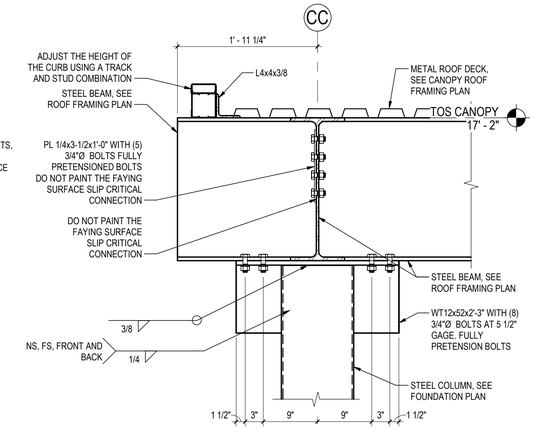
B1 S-522 LATERAL ANGLE BRACE
1" = 1'-0"



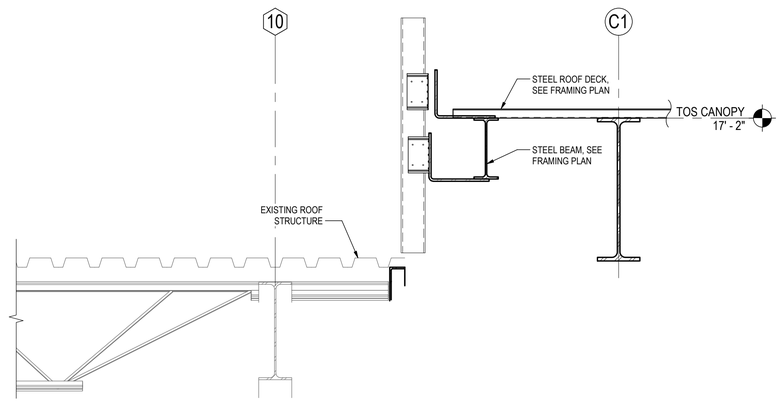
B2 S-522 OFFSET BEAMS AT STEEL BEAM
1" = 1'-0"



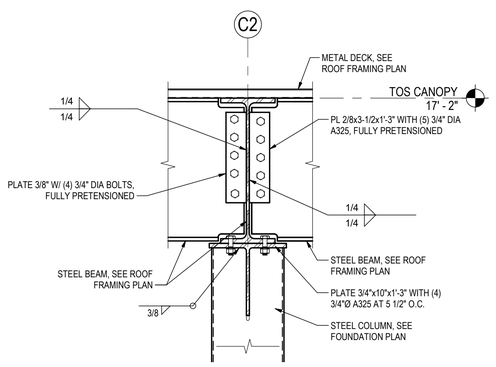
B3 S-522 BEAM OVER HSS COLUMN
1" = 1'-0"



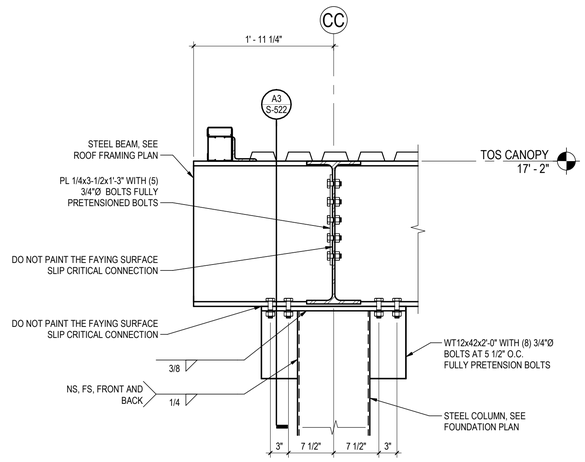
B4 S-522 CANOPY EDGE BEAMS AT STEEL COLUMN
1" = 1'-0"



A1 S-522 NEW CANOPY ROOF AT EXISTING LOADING DOCK
1" = 1'-0"



A3 S-522 BEAM OVER HSS COLUMN
1" = 1'-0"



A4 S-522 CANOPY EDGE AT HSS COLUMN
1" = 1'-0"

PERMIT STAMP

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No.	Revision	By	Appd	YYYY.MM.DD

No.	Issued	By	Appd	YYYY.MM.DD

Permit/Seal

STATE OF ALASKA
49 TH
BRUCE E. HOPPER
SE-14012
07/30/2025
REGISTERED STRUCTURAL ENGINEER

ANCHORAGE SCHOOL DISTRICT
PROJECT #245011

KLATT ES LOADING DOCK CANOPY
ASD Project No. 245011
100% CONSTRUCTION DOCUMENTS
11900 Puma Street
Anchorage, AK 99515

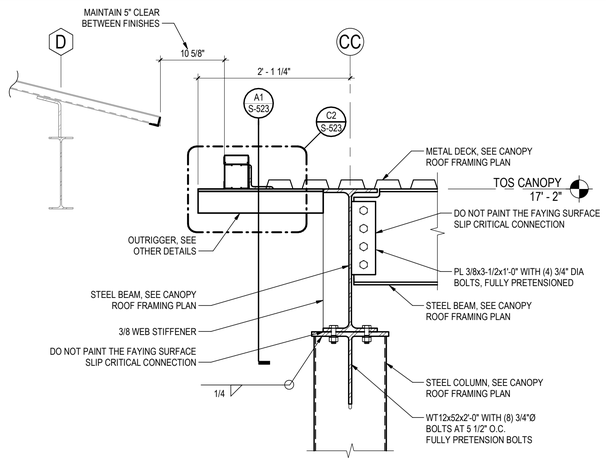
Project No.: 2014295940
File Name: N/A

DJR	BEH	BEH	2025.07.30
Dwn.	Dsgn.	Chkd.	DATE

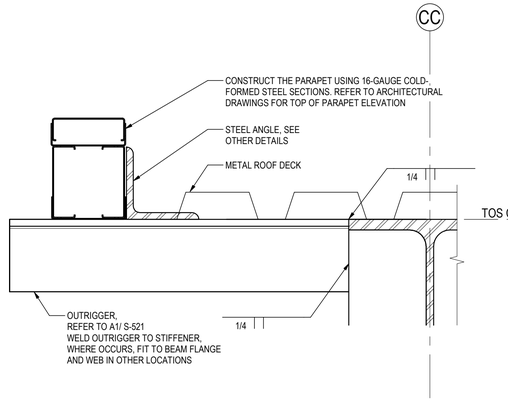
Title
ROOF FRAMING DETAILS

Scale: As indicated
Revision:
Drawing No. **S-522**

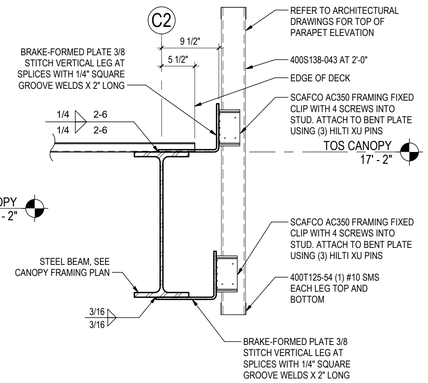
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ORGINAL SHEET - ANSI D



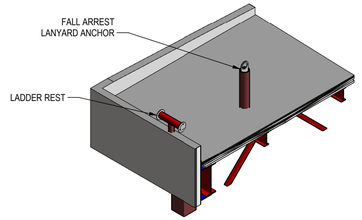
C1 / S-523 — **STEEL BEAMS AT CANOPY EDGE**
1" = 1'-0"



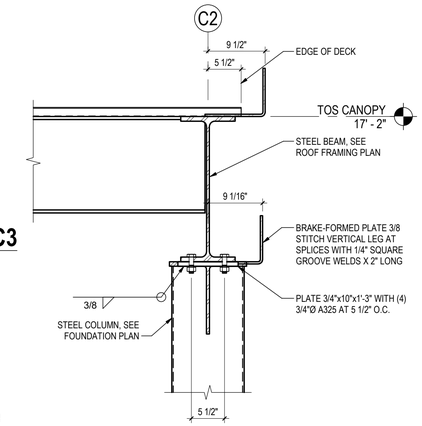
C2 / S-523 — **PARAPET AT OUTRIGGER**
3" = 1'-0"



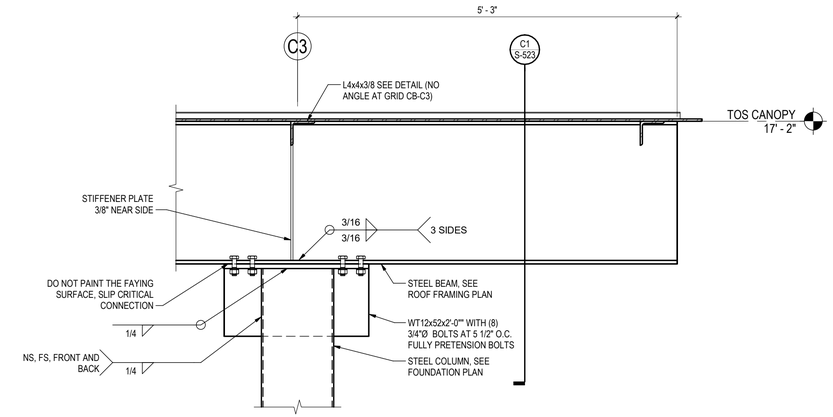
C3 / S-523 — **EDGE OF CANOPY BETWEEN C2 AND C3**
1" = 1'-0"



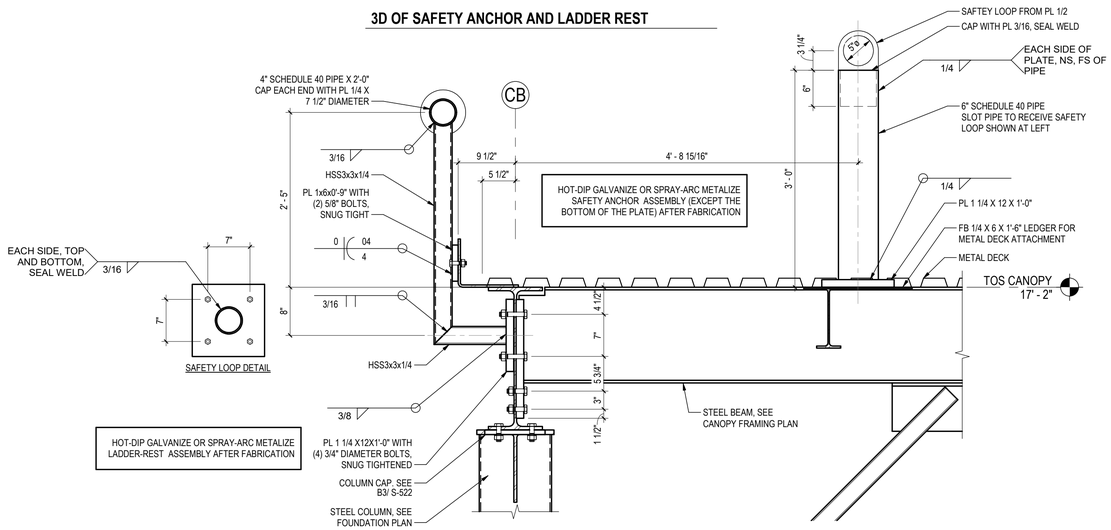
3D OF SAFETY ANCHOR AND LADDER REST



C4 / S-523 — **CANOPY EDGE**
1" = 1'-0"



A1 / S-523 — **BEAM OVER HSS COLUMN**
1" = 1'-0"



A3 / S-523 — **LADDER AND FALL PREVENTION ANCHORS**
1" = 1'-0"

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By	Appd	YYYY.MM.DD	Revision

By	Appd	YYYY.MM.DD	Issued

Permit/Seal



ANCHORAGE SCHOOL DISTRICT
PROJECT #245011

KLATT ES LOADING DOCK CANOPY
ASD Project No. 245011
100% CONSTRUCTION DOCUMENTS
11900 Puma Street
Anchorage, AK 99515

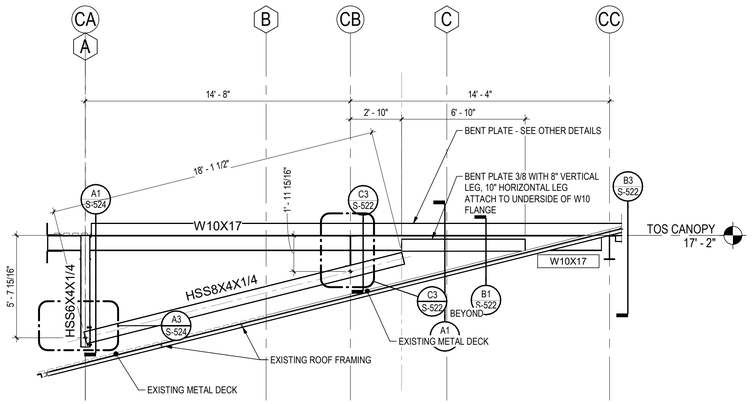
Project No.: 2014295940
File Name: N/A

Author	Designer	Checker	2025.07.30
Dwn.	Dsgn.	Chkd.	DATE

Title
ROOF FRAMING DETAILS

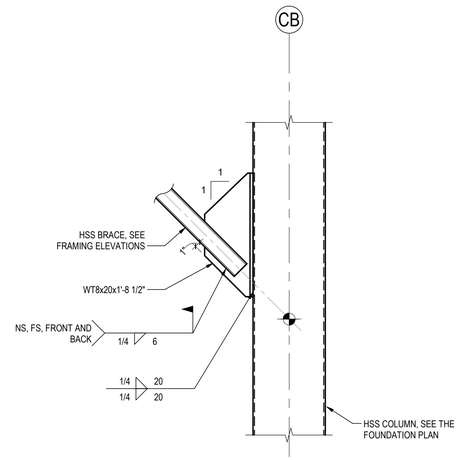
Scale: As indicated
Revision:
Drawing No. **S-523**

<Plot location in Project Information>
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ORGINAL SHEET - ANSI D



C1 FRAMING AT WEST EDGE OF CANOPY

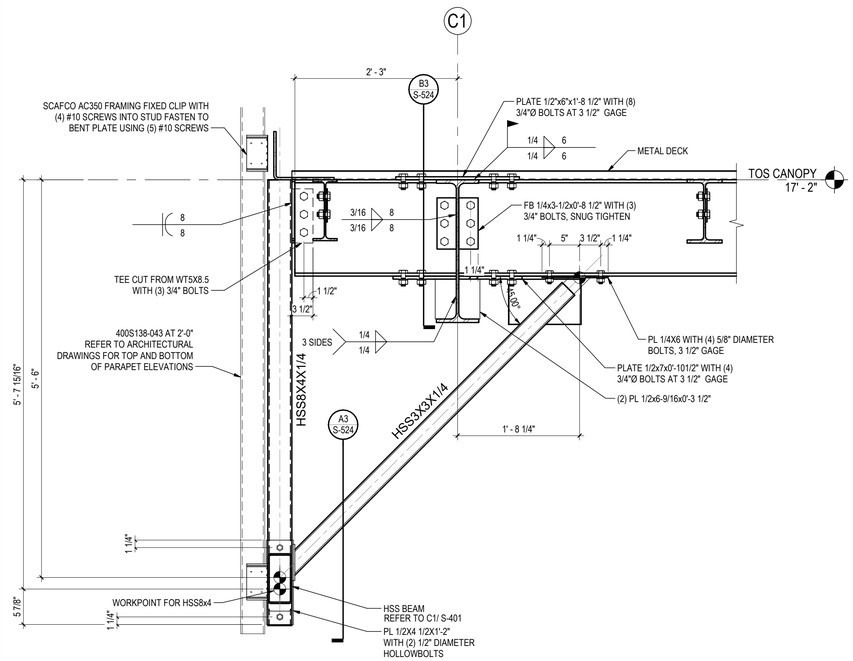
C1 / S-524 — 1/4" = 1'-0"



C3 KNEE-BRACE BOTTOM CONNECTION

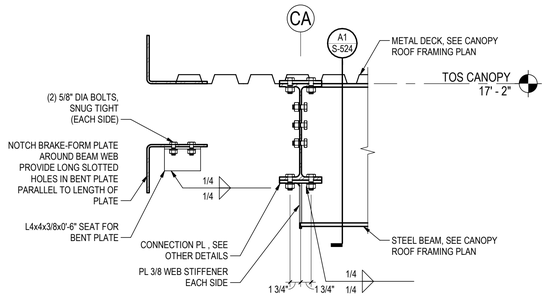
C3 / S-524 — 1" = 1'-0"

PERMIT STAMP



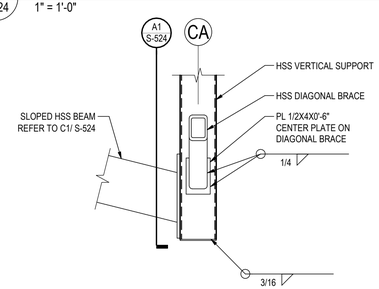
A1 SLOPED BEAM CONNECTION - NORTH

A1 / S-524 — 1" = 1'-0"



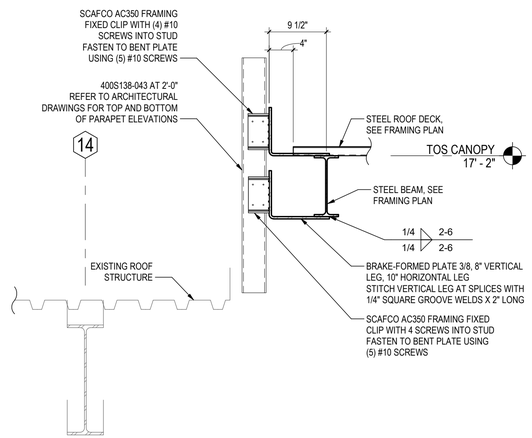
B3 W16 BEAM SEAT

B3 / S-524 — 1" = 1'-0"



A3 WIND BRACE CONNECTION

A3 / S-524 — 1" = 1'-0"



A4 EAST END WALL FRAMING

A4 / S-524 — 1" = 1'-0"

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No.	Revision	By	Appd	YYYY.MM.DD
1	Permit Issued			

Permit/Seal

STATE OF ALASKA 49 TH BRUCE E. HOPPER SE-14012 07/30/2025 REGISTERED STRUCTURAL ENGINEER

ANCHORAGE SCHOOL DISTRICT
PROJECT #245011

KLATT ES LOADING DOCK CANOPY
ASD Project No. 245011
100% CONSTRUCTION DOCUMENTS
11900 Puma Street
Anchorage, AK 99515

Project No.: 2014295940
File Name: N/A

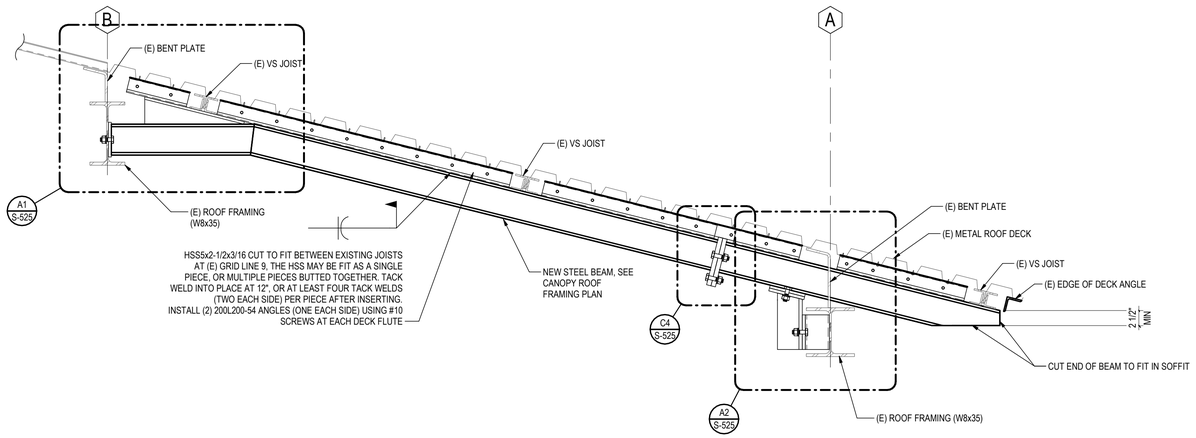
Author	Designer	Checker	2025.07.30
Dwn.	Dsgn.	Chkd.	DATE

Title
ROOF FRAMING DETAILS

Scale: As indicated
Revision:
Drawing No. **S-524**

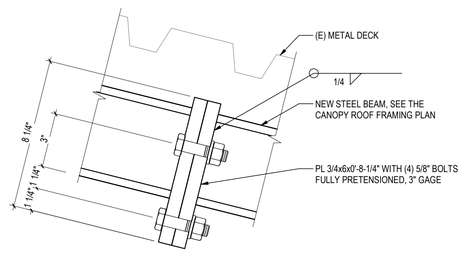
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ORIGINAL SHEET - ANSI D



C1 S-525 REINFORCING BEAM AT (E) ROOF, OVERALL VIEW

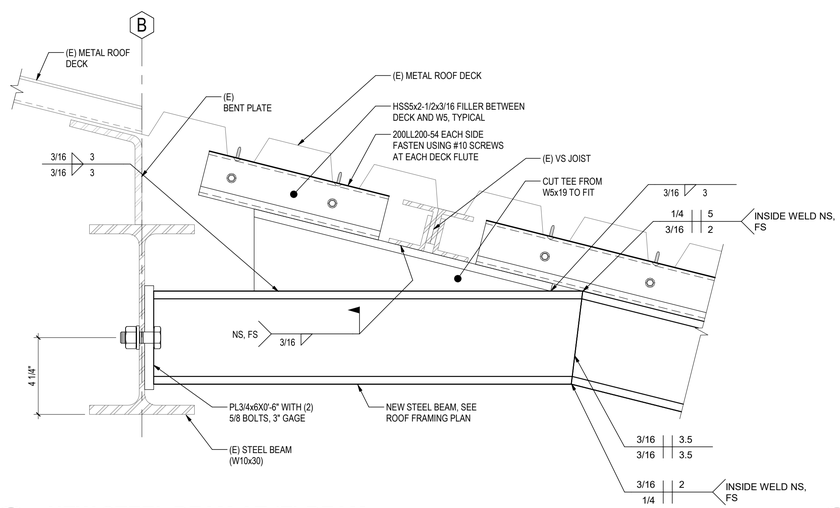
1" = 1'-0"



C4 S-525 REINFORCING BEAM - SPLICE DETAIL

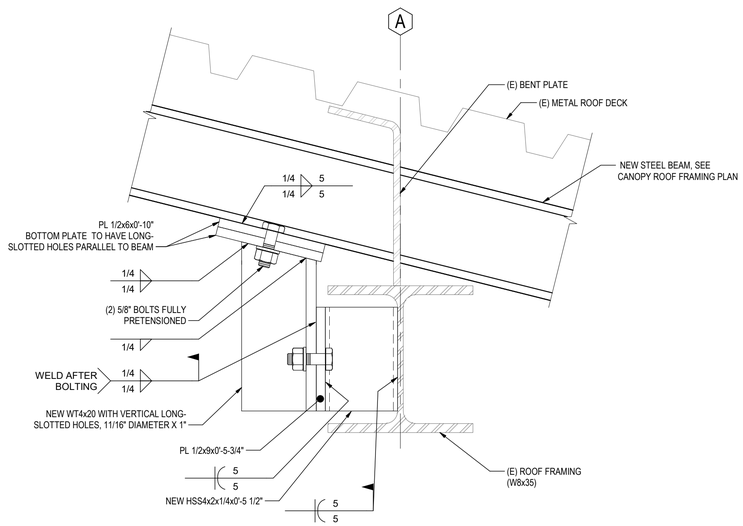
3" = 1'-0"

PERMIT STAMP



A1 S-525 NEW STEEL BEAM AT (E) BEAM

3" = 1'-0"



A2 S-525 REINFORCING BEAM, BOTTOM CONNECTION

3" = 1'-0"

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No.	Issued	By	Appd	YYYY.MM.DD

No.	Revision	By	Appd	YYYY.MM.DD

Permit/Seal

STATE OF ALASKA
49 TH
BRUCE E. HOPPER
SE-14012
07/30/2025
REGISTERED STRUCTURAL ENGINEER

ANCHORAGE SCHOOL DISTRICT
PROJECT #245011

KLATT ES LOADING
DOCK CANOPY
ASD Project No. 245011
100% CONSTRUCTION
DOCUMENTS
11900 Puma Street
Anchorage, AK 99515

Project No.: 2014295940
File Name: N/A

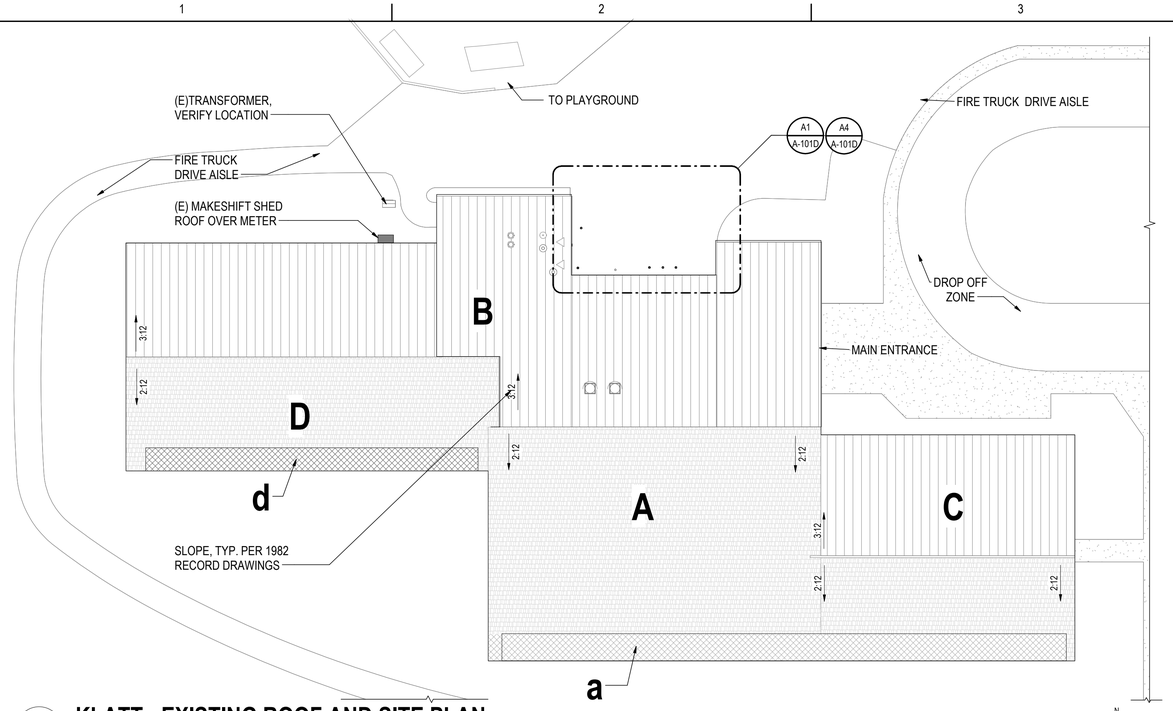
Author	Designer	Checker	2025.07.30
Dwn.	Dsgn.	Chkd.	DATE

Title
ROOF FRAMING
DETAILS

Scale: As indicated
Revision:
Drawing No. **S-525**

<Pick location in Project Information>
7/30/2025 5:53:02 PM

ORIGINAL SHEET - ANSI D



D1 KLATT - EXISTING ROOF AND SITE PLAN

A-101D 1/32" = 1'-0"

SHEET LEGEND

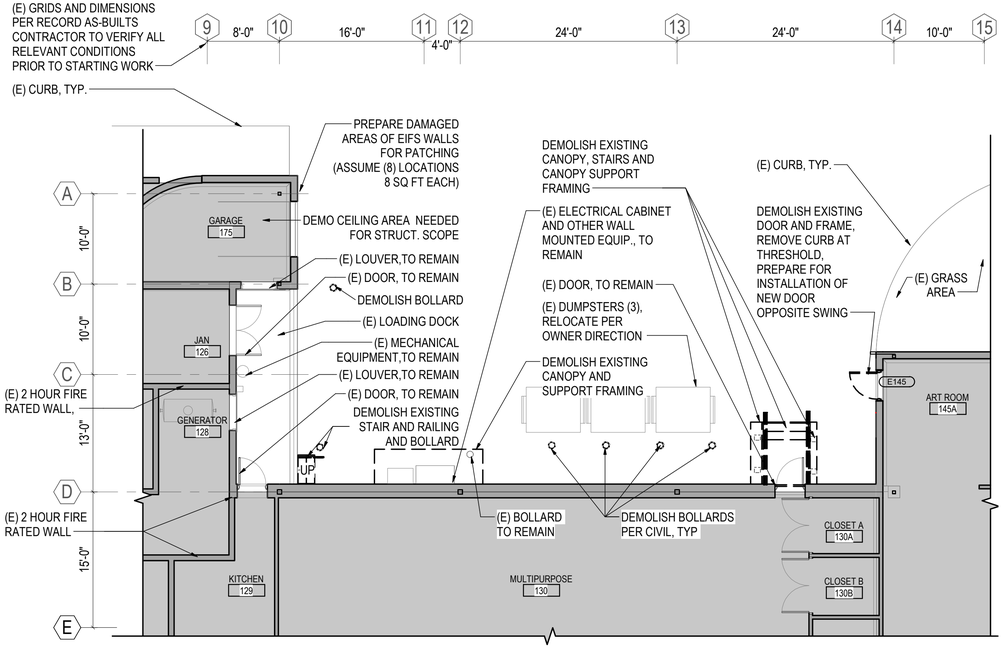
- EXISTING STANDING SEAM METAL ROOF TO REMAIN
- EXISTING SHINGLE ROOF TO REMAIN
- EXISTING EPDM ROOF TO REMAIN
- EXISTING INTERIOR CONSTRUCTION - DO NOT DISTURB
- EPDM ROOF NEW (NOT SHOWN THIS SHEET)

EXISTING ROOF AREAS

ROOF A:	16,433	S.F.	EXISTING ROOFS TO
ROOF a:	1,821	S.F.	REMAIN INFORMATION
ROOF B:	20,543	S.F.	SHOWN FOR REFERENCE
ROOF C:	6,598	S.F.	ONLY
ROOF D:	6,145	S.F.	
ROOF d:	1,309	S.F.	

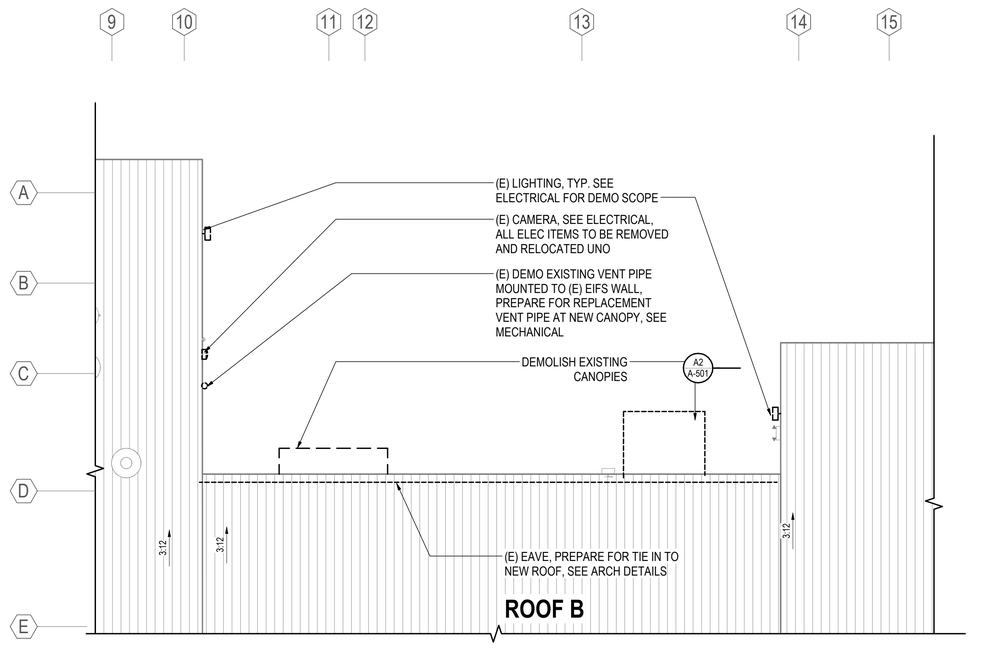
SHEET NOTES

1. CONTRACTOR TO VERIFY ALL EXISTING CONDITIONS BEFORE STARTING WORK



A1 KLATT - DEMOLITION RECEIVING DOCK FLOOR PLAN

A-101D 1/8" = 1'-0"



A4 KLATT - DEMOLITION ROOF PLAN

A-101D 1/8" = 1'-0"

PERMIT STAMP

Notification of Potential Hazards:

Asbestos, lead and other potentially hazardous materials are present in the building that may impact the work of all trades. Regulated air contaminants, including asbestos and lead, are also present in settled and concealed dust in and on architectural, structural, mechanical and electrical components or systems throughout the building. All trades shall coordinate with other trades and conduct their work to prevent worker exposure or site contamination. Refer to Specification Divisions 0, 1 and 2 for specific information concerning disturbing, removing and disposing of these materials and the installation of new materials or components. This notification is provided in accordance with EPA and OSHA requirements.

Notification of Child Occupied Facility:

Portions of this building are classified as a Child Occupied Facility in accordance with 40 CFR 745 and lead-based paints may be present on components to be disturbed in those areas. Personnel performing work in these areas must comply with the requirements of 40 CFR 745, including training, work practices and cleaning of the work area. Refer to Specification Divisions 0, 1 and 2 for specific information concerning disturbing, removing and disposing of lead materials and the installation of new materials or components. This notification is provided in accordance with EPA and OSHA requirements.

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Revision	By	Appd	YYYY.MM.DD
Issued	By	Appd	YYYY.MM.DD

Permit/Seal

STATE OF ALASKA 49 TH Karen Zaccaro Karen Zaccaro No. 13383 2/14/24 REGISTERED PROFESSIONAL ARCHITECT

Anchorage School District
ASD PROJECT #245011

Klatt ES
Loading Dock Canopy

100% CONSTRUCTION DOCUMENTS
11900 Puma Street
Anchorage, AK 99515

Project No.: 2014295940

File Name: N/A

SO	KZ	EJD	02/21/2024
Dwn.	Dsgn.	Chkd.	YYYY.MM.DD

Title

PLANS - DEMOLITION

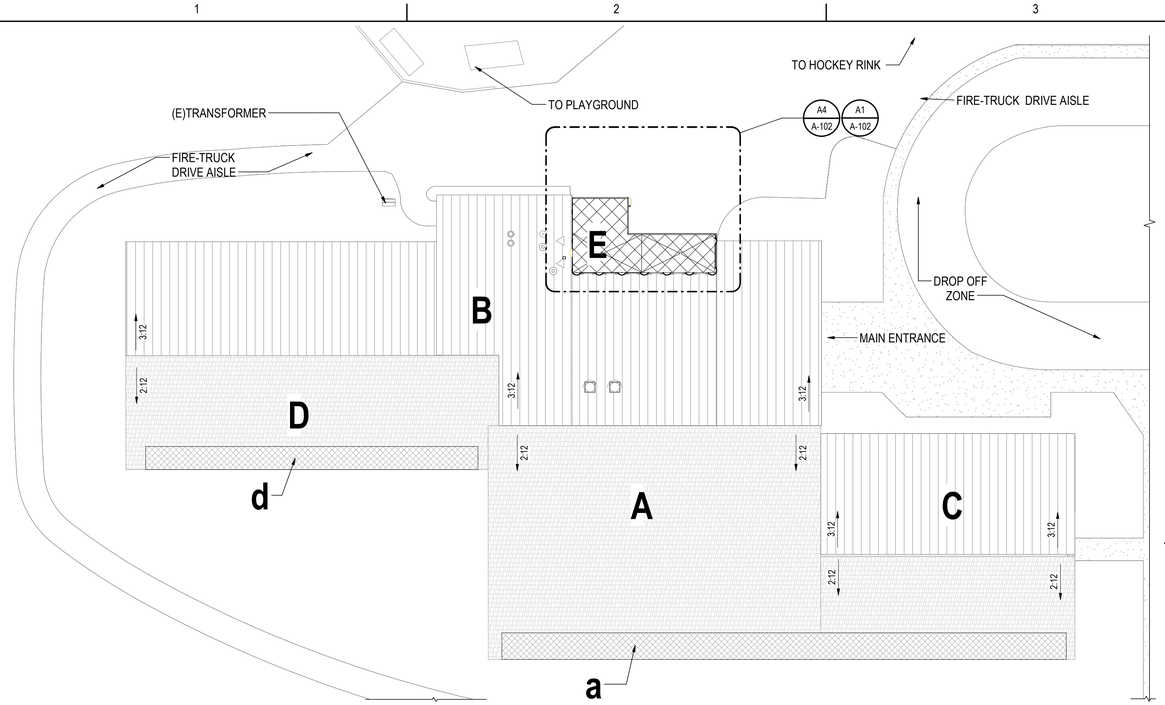
Scale: As indicated

Revision:

Drawing No. **A-101D**

<Pick location in Project Information>
7/28/2023 7:12:43 PM

ORIGINAL SHEET - ANSI D



D1 / A-102 KLATT - ROOF AND SITE PLAN

1/32" = 1'-0"

SHEET LEGEND

- EXISTING STANDING SEAM METAL ROOF TO REMAIN
- EXISTING SHINGLE ROOF TO REMAIN
- EXISTING EPDM ROOF TO REMAIN
- EXISTING INTERIOR CONSTRUCTION - DO NOT DISTURB
- EPDM ROOF NEW

SHEET NOTES

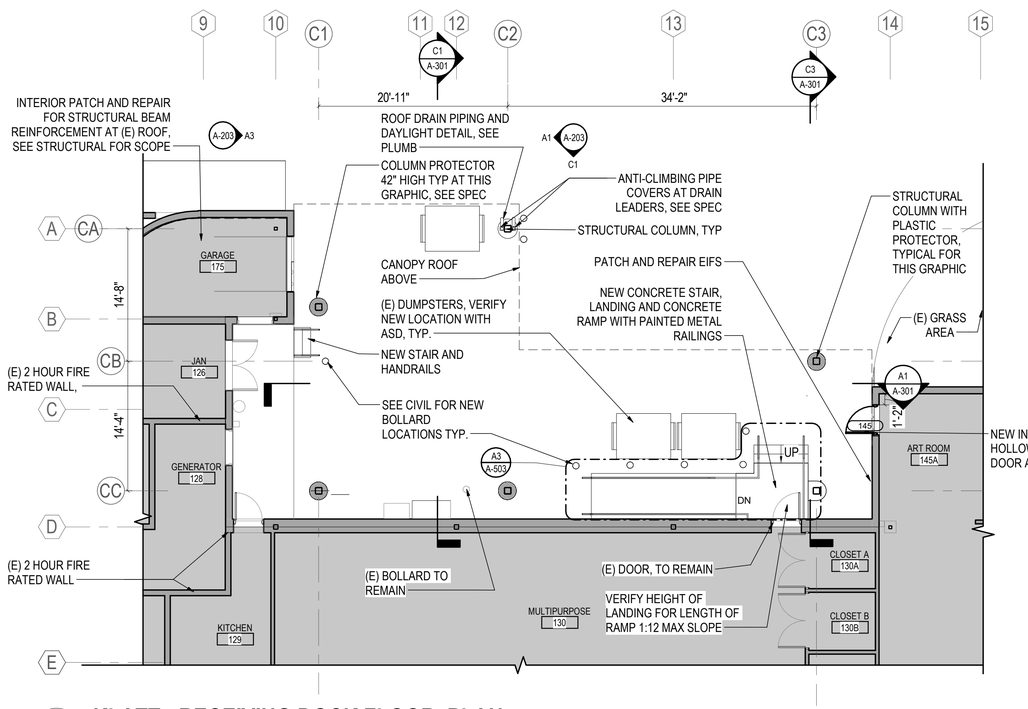
1. TAPERED INSULATION REQUIRED FOR SLOPE TO DRAIN ROOF ASSEMBLY B

EXISTING ROOF AREAS

ROOF A:	16,433	S.F.	EXISTING ROOFS TO
ROOF a:	1,821	S.F.	REMAIN INFORMATION
ROOF B:	20,543	S.F.	SHOWN FOR REFERENCE
ROOF C:	6,598	S.F.	ONLY
ROOF D:	6,145	S.F.	
ROOF d:	1,309	S.F.	

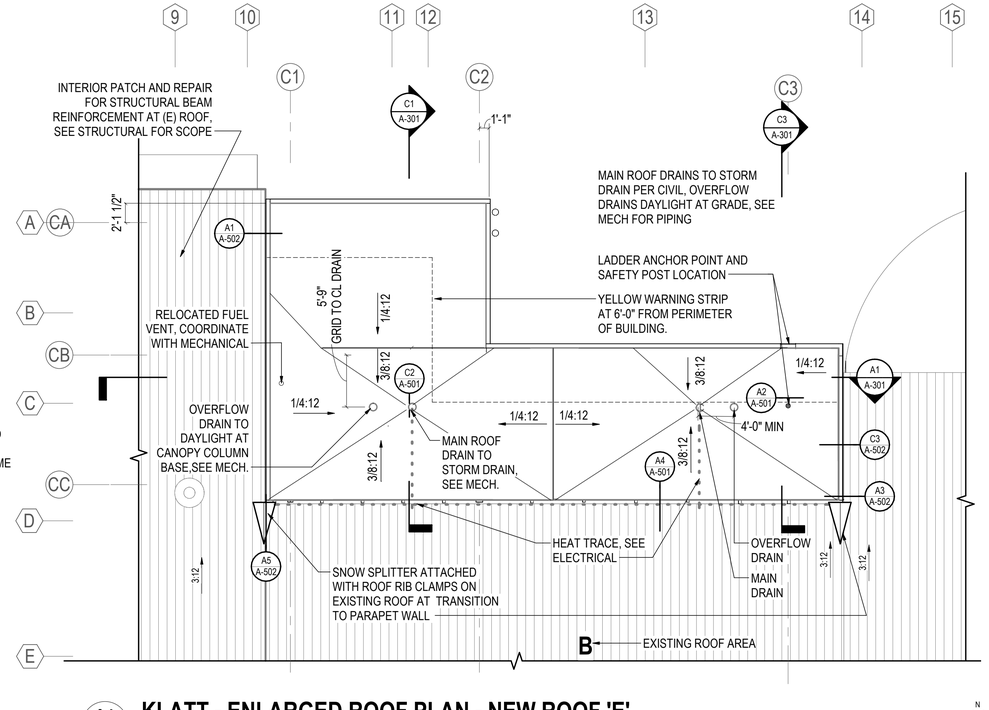
NEW CANOPY

ROOF E:	1,500	S.F.



A1 / A-102 KLATT - RECEIVING DOCK FLOOR PLAN

1/8" = 1'-0"



A4 / A-102 KLATT - ENLARGED ROOF PLAN - NEW ROOF 'E'

1/8" = 1'-0"

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Consultant

Revision	By	Appd	YYYY.MM.DD

Issued	By	Appd	YYYY.MM.DD

Permit/Seal

STATE OF ALASKA 49 TH
Karen Zaccaro
Karen Zaccaro
No. 13383
2/4/24
REGISTERED PROFESSIONAL ARCHITECT

PERMIT STAMP

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Anchorage School District
ASD PROJECT #245011

Klatt ES
Loading Dock Canopy

100% CONSTRUCTION DOCUMENTS
11900 Puma Street
Anchorage, AK 99515

Project No.: 2014295940
File Name: N/A

SO	KZ	EJD	02/21/2024
Dwn.	Dsgn.	Chkd.	YYYY.MM.DD

Title
PLANS - NEW

Scale: As indicated
Revision:
Drawing No. **A-102**

<Pick location in Project Information>
2/19/2024 10:30:02 PM
ORIGINAL SHEET - ANSI D



OVERALL LOADING DOCK AREA



VIEW FROM DRIVER'S APPROACH



LOADING DOCK



TRANSFORMER



RAISED ELECTRICAL ACCESS



STORMDRAIN PAVING



STORMDRAIN INLET

PERMIT STAMP

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Permit/Seal

STATE OF ALASKA
49 TH
Karen Zaccaro
Karen Zaccaro
No. 13383
2/4/24
REGISTERED PROFESSIONAL ARCHITECT

Anchorage School District
ASD PROJECT #245011

Klatt ES
Loading Dock Canopy

100% CONSTRUCTION DOCUMENTS
11900 Puma Street
Anchorage, AK 99515

Project No.: 2014295940
File Name: N/A

SO	KZ	EJD	02/21/2024
Dwn.	Dsgn.	Chkd.	YYYY.MM.DD

Title
EXISTING CONDITION IMAGES

Scale:
Revision:
Drawing No. **A-201D**

<Pick location in Project Information>
2/19/2024 10:30:02 PM

ORIGINAL SHEET - ANSI D



LOADING DOCK SOFFIT



SECONDARY AWNING FOR DEMO



FOUNDATION AND BOLLARD



LOADING DOCK STAIR



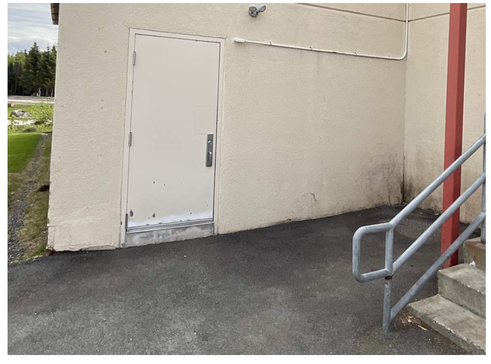
CANOPY AND STAIRS FOR DEMO



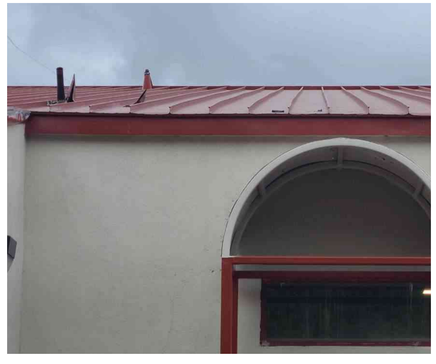
ICE DAMAGE TO WALL FINISH



EXISTING LOW SLOPE METAL ROOF



DOOR TO ART ROOM DEMO DOOR AND CURB



ROOF DAMAGE AT EAVE

PERMIT STAMP

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STATE OF ALASKA 49TH
Karen Zaccaro
Karen Zaccaro
No. 13383
2/14/24
REGISTERED PROFESSIONAL ARCHITECT

Anchorage School District
ASD PROJECT #245011

Klatt ES
Loading Dock Canopy

100% CONSTRUCTION DOCUMENTS
11900 Puma Street
Anchorage, AK 99515

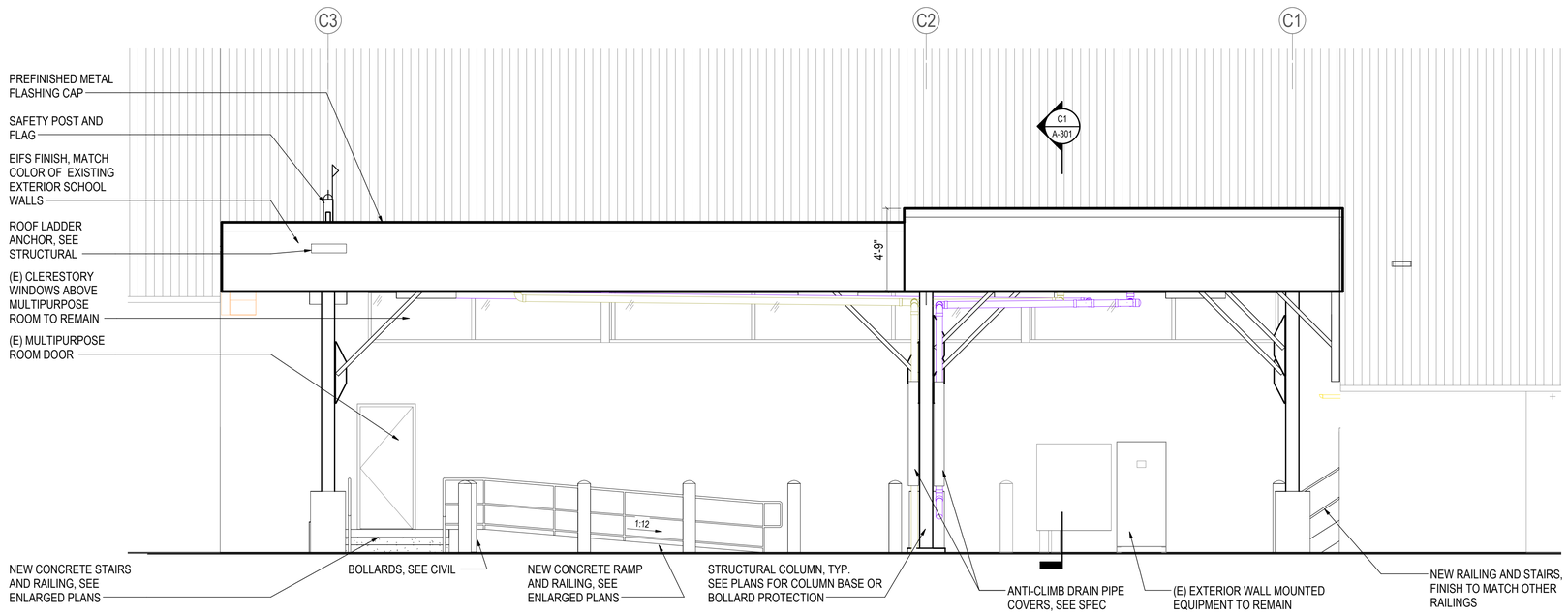
Project No.: 201429594O
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SO	KZ	EJD	02/21/2024
Dwn.	Dsgn.	Chkd.	YYYY.MM.DD

Title
EXISTING CONDITION IMAGES

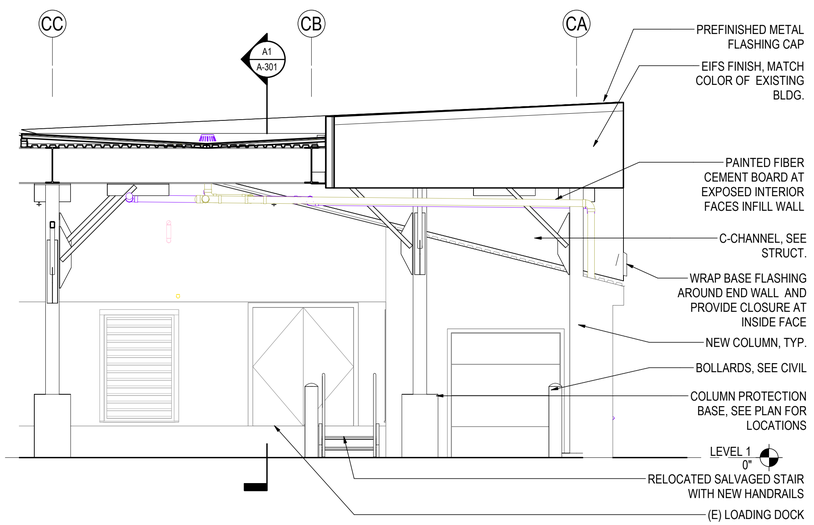
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Revision:
Drawing No. **A-202D**

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ORGINAL SHEET - ANSI D



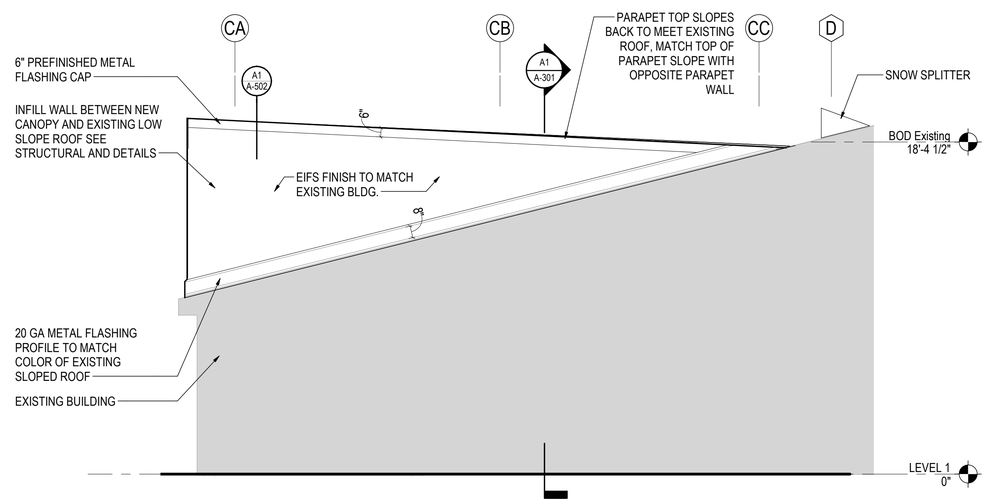
C1 A-203 KLATT- CANOPY - ELEVATION - NORTH

1/4" = 1'-0"



A1 A-203 KLATT - CANOPY - ELEVATION - WEST

1/4" = 1'-0"



A3 A-203 KLATT - CANOPY - ELEVATION - EAST

1/4" = 1'-0"

PERMIT STAMP

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49 TH
Karen Zaccaro
Karen Zaccaro
No. 13383
2/14/24
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Anchorage School District
ASD PROJECT #245011

Klatt ES
Loading Dock Canopy

100% CONSTRUCTION DOCUMENTS
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Anchorage, AK 99515

Project No.: 2014295940

File Name: N/A

SO	KZ	EJD	02/21/2024
Dwn.	Dsgn.	Chkd.	YYYY.MM.DD

Title

ELEVATIONS

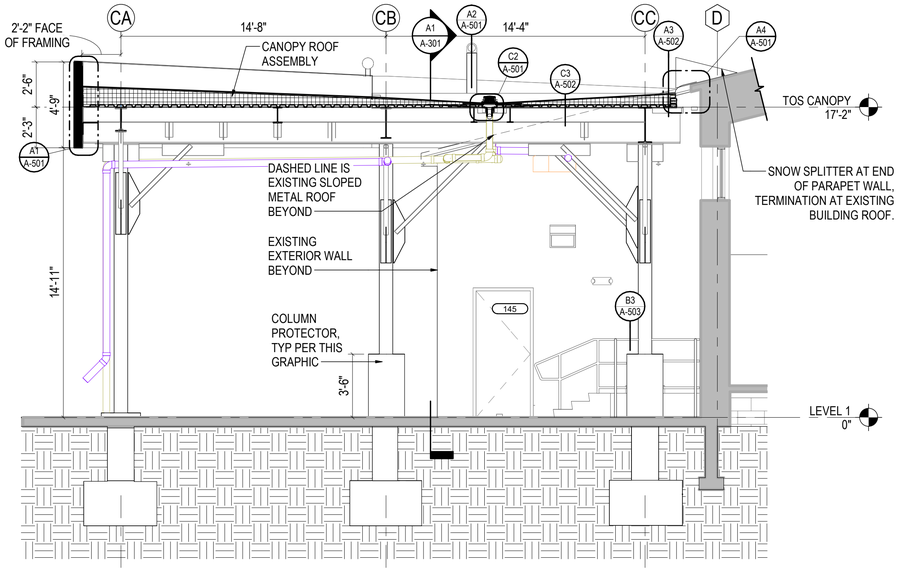
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Revision:

Drawing No. **A-203**

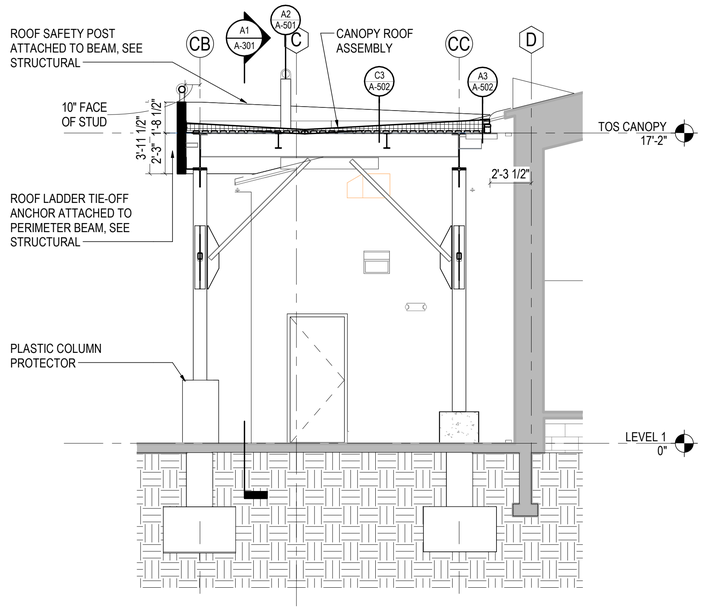
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ORIGINAL SHEET - ANSI D



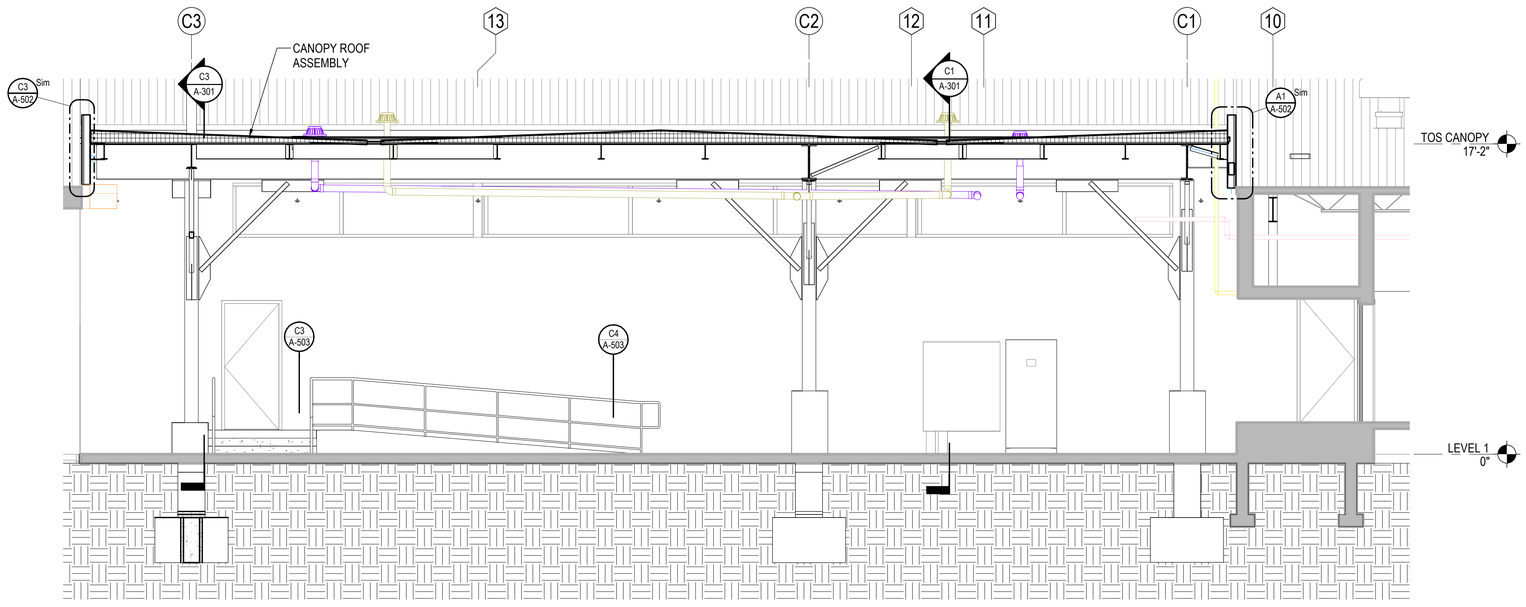
C1 A-301 KLATT - SECTION NORTH - SOUTH

1/4" = 1'-0"



C3 A-301 KLATT - SECTION SECTION AT GRID 3

1/4" = 1'-0"



A1 A-301 KLATT - SECTION EAST-WEST

1/4" = 1'-0"

PERMIT STAMP

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Karen Zaccaro
Karen Zaccaro
No. 13383
2/21/24
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Anchorage School District
ASD PROJECT #245011

Klatt ES
Loading Dock Canopy

100% CONSTRUCTION DOCUMENTS
11900 Puma Street
Anchorage, AK 99515

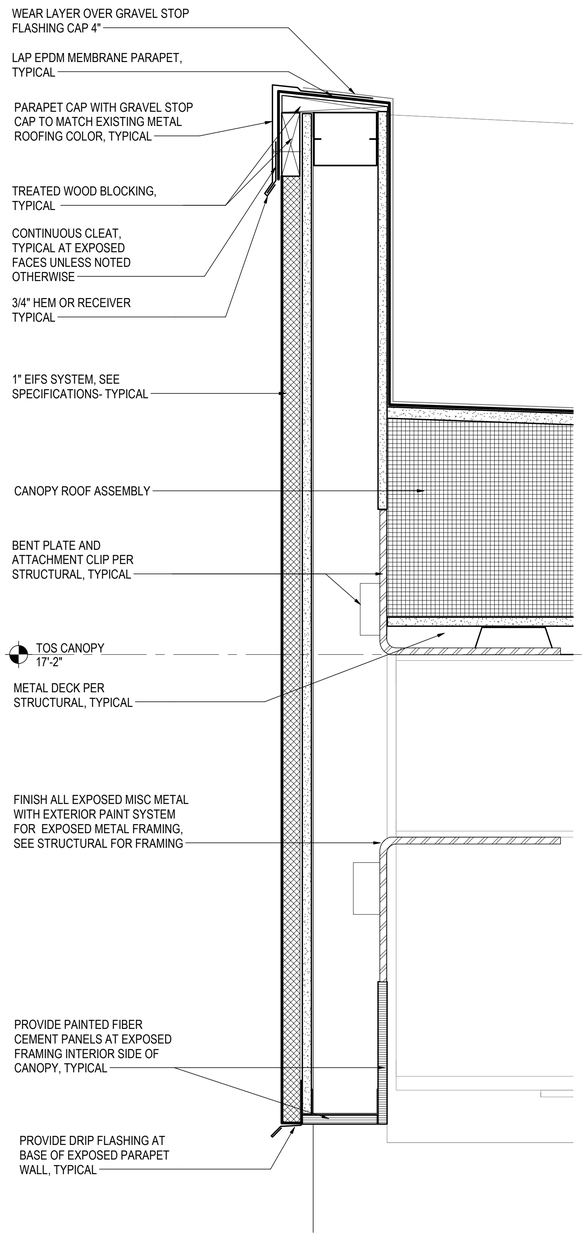
Project No.: 2014295940
File Name: N/A

KZ	KZ	EJD	02/21/2024
Dwn.	Dsgn.	Chkd.	YYYY.MM.DD

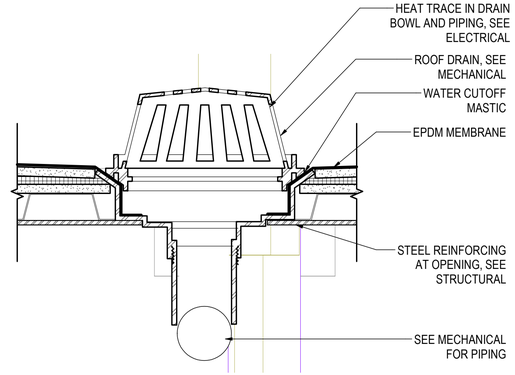
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SECTIONS

Scale: 1/4" = 1'-0"
Revision:
Drawing No. **A-301**

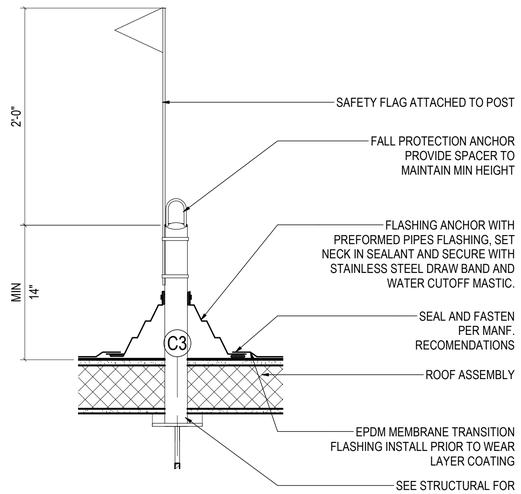
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ORGINAL SHEET - ANSI D



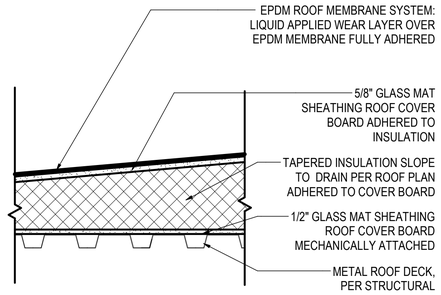
A1 DTL SECTION PARAPET
A-501 — 3" = 1'-0"



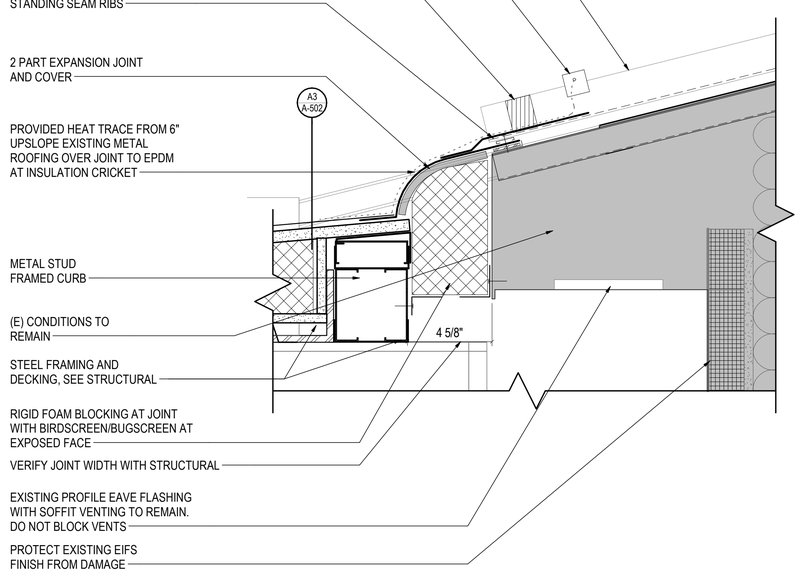
C2 ROOF DRAIN
A-501 — 3" = 1'-0"



A2 DTL FALL PROTECTION SAFETY POST
A-501 — 1 1/2" = 1'-0"



C4 CANOPY ROOF ASSEMBLY
A-501 — 1 1/2" = 1'-0"



A4 EXISTING ROOF TO CANOPY TRANSITION
A-501 — 3" = 1'-0"

PERMIT STAMP

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Permit/Seal

STATE OF ALASKA — 49 TH — Karen Zaccaro — Karen Zaccaro No. 13383 — 2/14/24 — REGISTERED PROFESSIONAL ARCHITECT

Anchorage School District
ASD PROJECT #245011

Klatt ES
Loading Dock Canopy

100% CONSTRUCTION DOCUMENTS
11900 Puma Street
Anchorage, AK 99515

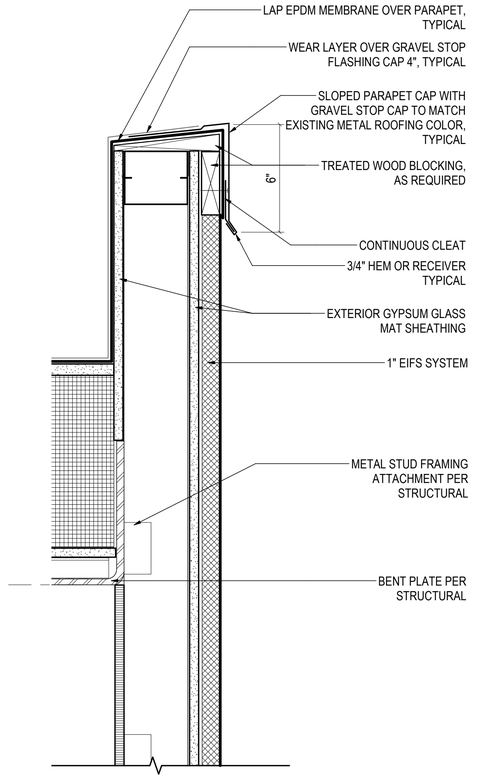
Project No.: 2014295940
File Name: N/A

KZ	KZ	EJD	02/21/2024
Dwn.	Dsgn.	Chkd.	YYYY.MM.DD

Title
DETAILS

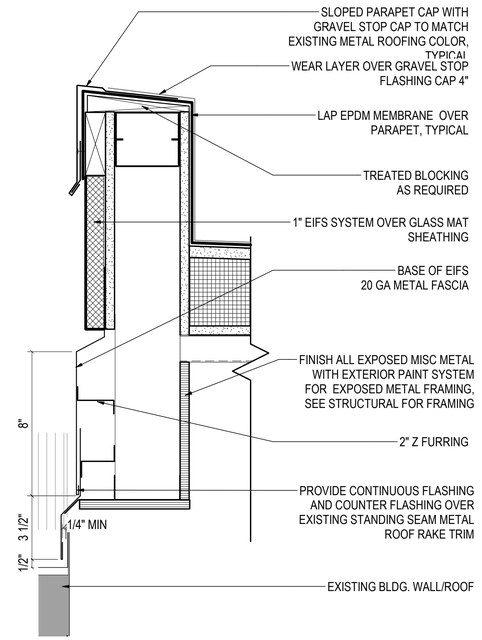
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Drawing No. **A-501**

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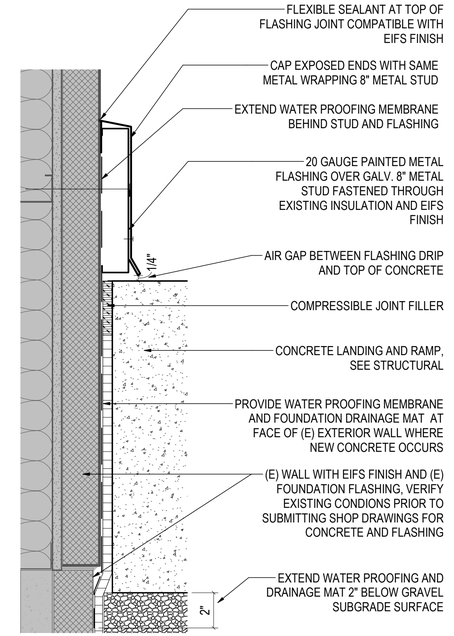
C3 A-502 PARAPET AT EXIST EAST ROOF RAKE

3" = 1'-0"



C5 A-502 FLASHING AT (E) WALL NEW CONCRETE, TYP.

3" = 1'-0"



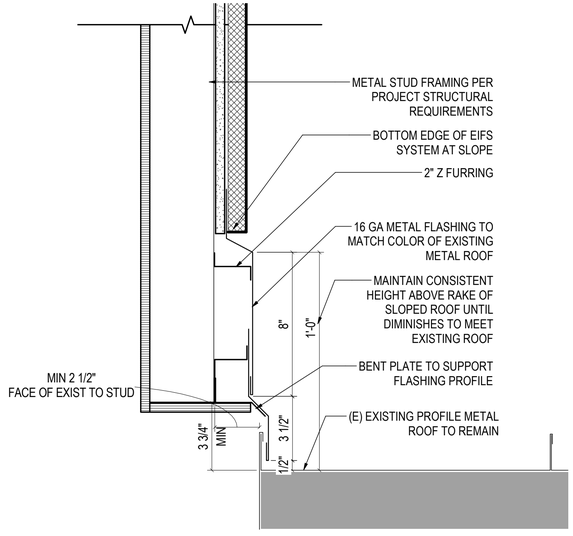
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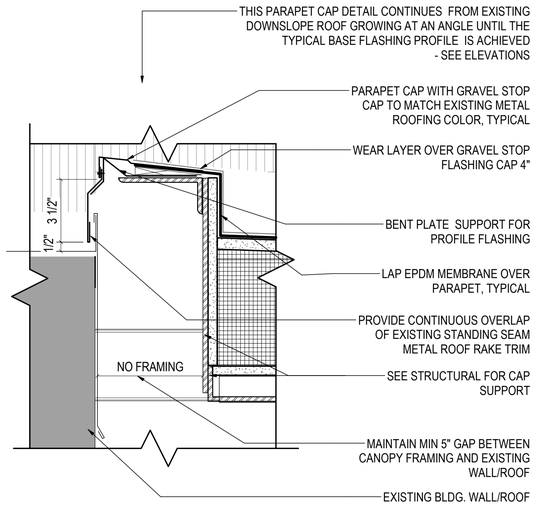
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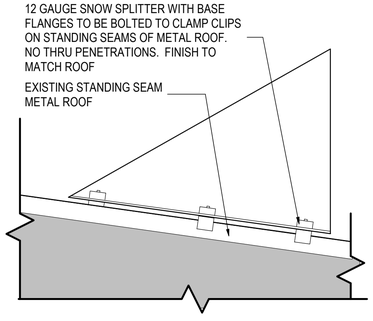
A1 A-502 PARAPET AT RAKE EXISTING ROOF

3" = 1'-0"



A3 A-502 PARAPET NEAR TRANSITION SLOPE TO FLAT

3" = 1'-0"



A5 A-502 SNOW SPLITTER

1 1/2" = 1'-0"

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ASD PROJECT #245011

Klatt ES
Loading Dock Canopy

100% CONSTRUCTION DOCUMENTS
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Anchorage, AK 99515

Project No.: 2014295940

File Name: N/A

Author	Designer	Checker	02/21/2024
Dwn.	Dsgn.	Chkd.	YYYY.MM.DD

Title
DETAILS

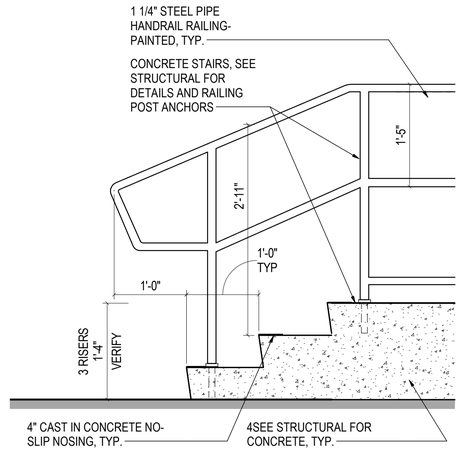
Scale: As indicated

Revision:

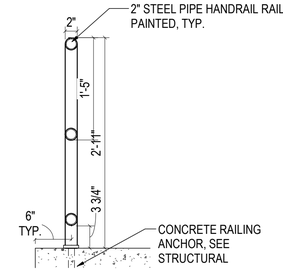
Drawing No. **A-502**

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2/19/2024 10:30:07 PM

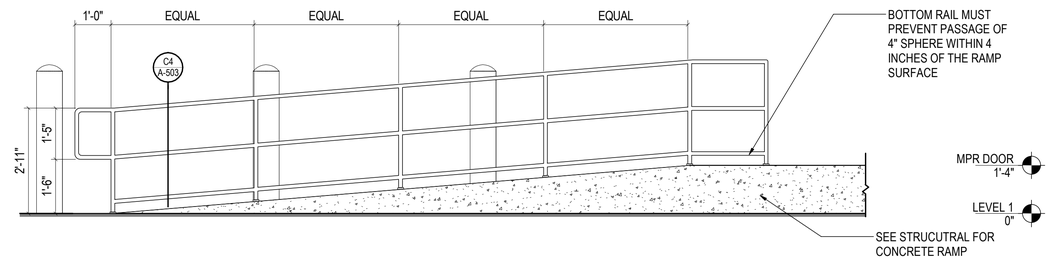
ORIGINAL SHEET - ANSI D



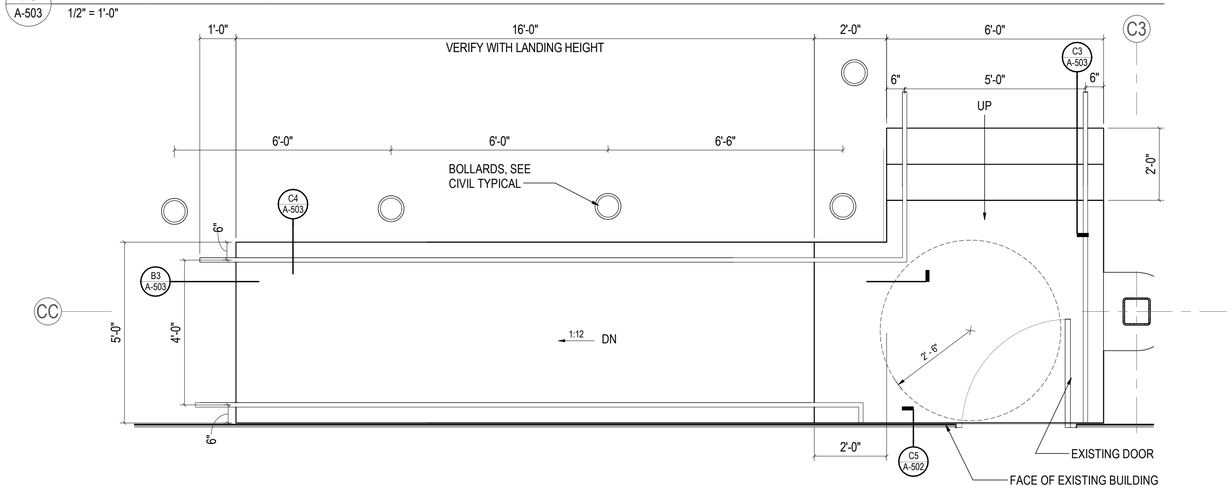
C3 A-503 **STAIR SECTION**
1" = 1'-0"



C4 A-503 **RAILING SECTION**
1" = 1'-0"



B3 A-503 **KLATT ES - RAMP SECTION** (NOTE BOTH SIDES OF RAILING ARE THE SAME WITH POST BASES SET IN CONCRETE RAMP - NO WALL MOUNTED RAILINGS)
1/2" = 1'-0"



A3 A-503 **KLATT ES - ENLARGED STAIRS AND RAMP**
1/2" = 1'-0"

PERMIT STAMP

Notification of Potential Hazards:

Asbestos, lead and other potentially hazardous materials are present in the building that may impact the work of all trades. Regulated air contaminants, including asbestos and lead, are also present in settled and concealed dust in and on architectural, structural, mechanical and electrical components or systems throughout the building. All trades shall coordinate with other trades and conduct their work to prevent worker exposure or site contamination. Refer to Specification Divisions 0, 1 and 2 for specific information concerning disturbing, removing and disposing of these materials and the installation of new materials or components. This notification is provided in accordance with EPA and OSHA requirements.

Notification of Child Occupied Facility:

Portions of this building are classified as a Child Occupied Facility in accordance with 40 CFR 745 and lead-based paints may be present on components to be disturbed in those areas. Personnel performing work in these areas must comply with the requirements of 40 CFR 745, including training, work practices and cleaning of the work area. Refer to Specification Divisions 0, 1 and 2 for specific information concerning disturbing, removing and disposing of lead materials and the installation of new materials or components. This notification is provided in accordance with EPA and OSHA requirements.

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By	Appd	YYYY.MM.DD	Revision

By	Appd	YYYY.MM.DD	Issued

Permit/Seal



Anchorage School District
ASD PROJECT #245011

Klatt ES
Loading Dock Canopy

100% CONSTRUCTION DOCUMENTS
11900 Puma Street
Anchorage, AK 99515

Project No.: 2014295940
File Name: N/A

KZ	KZ	EJD	02/21/2024
Dwn.	Dsgn.	Chkd.	YYYY.MM.DD

Title
ENLARGED STAIRS AND RAMP

Scale: As indicated
Revision:
Drawing No. **A-503**

<Pick location in Project Information>
2/19/2024 10:20:08 PM
ORIGINAL SHEET - ANSI D

LEGEND OF SYMBOLS

(SOME SYMBOLS MAY NOT BE USED ON THIS PROJECT)

- KEYNOTE INDICATOR (refer to notes on same sheet)
- EQUIPMENT TAG (TYPE WC, NUMBER 1)
- NEW RISER IDENTIFICATION TAG (TYPE CW, #1, ON DRAWING P601.1A)
- RISER IDENTIFICATION MARK (TYPE SAN, NUMBER 1)
- REVISION INDICATOR
- DETAIL CALLOUT MARK (DETAIL 1 ON DRAWING P501)
- NORTH ARROW
- REVISION BUBBLE
- DENOTES CONNECT TO EXISTING
- DENOTES DEMOLITION TO POINT INDICATED
- EX CW — PREFIX "EX" INDICATED EXISTING PIPE (e.g., EXISTING COLD WATER PIPE)
- RX CW — PREFIX "RX" INDICATED EXISTING PIPE TO BE REMOVED (e.g., REMOVED COLD WATER PIPE)
- 2 1/2" — PIPE SIZE
- XX — PIPING ROUTED BELOW SLAB OR GRADE
- F(AF) — FIRE - ANTIFREEZE
- F(D) — FIRE - DRAIN
- F(DRY) — FIRE - DRY
- F(PA) — FIRE - PRE-ACTION
- F(SPR) — FIRE - WET SPRINKLER
- F — FIRE - WET
- TEST — FIRE PUMP TEST PIPE
- FDC — FIRE DEPARTMENT CONNECTION PIPE
- FLOOR DRAIN
- ROOF DRAIN
- EXPOSED WALL HYDRANT
- CONCEALED PENDENT SPRINKLER
- UPRIGHT SPRINKLER
- D — DRY UPRIGHT SPRINKLER
- HT — HIGH TEMPERATURE UPRIGHT SPRINKLER
- SIDEWALL SPRINKLER
- PENDANT SPRINKLER
- D — DRY PENDENT SPRINKLER
- ISOLATION VALVE (GENERIC)
- GATE VALVE
- GLOBE VALVE
- BUTTERFLY VALVE
- BALL VALVE
- NEEDLE VALVE
- CHECK VALVE (GENERIC)
- ALARM CHECK VALVE
- SPRING CHECK VALVE
- FLOAT SWITCH
- GAUGE COCK VALVE
- BALL JOINT
- BUSHING
- DELUGE VALVE
- DIAPHRAGM VALVE
- LOCKING GATE VALVE
- STOP VALVE
- THERMOSTATIC 3-WAY VALVE
- WALL POST INDICATING VALVE
- BALANCING VALVE
- FLOW LIMITING VALVE
- PRESSURE REDUCING VALVE
- OS & Y GATE VALVE
- 2-WAY CONTROL VALVE (GENERIC)
- 3-WAY CONTROL VALVE (GENERIC)
- SOLENOID 2-WAY CONTROL VALVE
- SOLENOID 3-WAY CONTROL VALVE
- BFP — BACKFLOW PREVENTER (GENERIC)
- MULTI-PURPOSE VALVE (SHUTOFF, BALANCING AND CHECK)
- PUMP (GENERIC)
- Y STRAINER (BLOWDOWN)
- Y STRAINER (GENERIC)
- AUTOMATIC AIR VENT
- MANUAL AIR VENT
- VACUUM BREAKER
- GAS COCK
- STEAM TRAP (GENERIC)
- SIGHT FLOW GLASS
- INVERTED BUCKET TRAP
- PRESSURE REGULATOR
- TEMPERATURE GAUGE
- PRESSURE GAUGE
- TP — TEMPERATURE & PRESSURE RELIEF VALVE
- SAFETY OR RELIEF VALVE
- TEMPERATURE AND PRESSURE TAP
- 3/4" HOSE CONNECTION WITH FULL PORT BALL VALVE
- F — FLOW METER
- P — PRESSURE SWITCH
- C — CHAIN OPERATOR
- M — MOTOR OPERATOR
- T — VALVE MONITORING
- F — FLOW SWITCH
- WATER HAMMER ARRESTOR
- (M) — UTILITY METER
- HB — HOSE BIBB
- FLEXIBLE CONNECTOR
- EXPANSION JOINT
- GUIDE
- ANCHOR
- FLOW ARROW
- 1% — PIPING SLOPE
- PIPE CAP
- PIPE BREAK
- PIPE CROSS
- PIPING ELBOW UP
- PIPING ELBOW DOWN
- PIPING TEE UP
- PIPING TEE DOWN
- P TRAP
- UNION CONNECTION
- FLANGED CONNECTION
- CONCENTRIC REDUCER
- ECCENTRIC REDUCER
- CO — STANDARD CLEAN-OUT IN LINE END OF RUN
- CO — STANDARD CLEAN-OUT THROUGH FLOOR END OF RUN
- CO — STANDARD CLEAN-OUT THROUGH FLOOR IN LINE
- PIPE INSULATION

PROJECT GENERAL NOTES

1. PROVIDE FIRE PROTECTION PIPING WITH POSITIVE GRADE TO DRAIN. PIPING SHALL BE GRADED TO DRAIN BACK TO THE SUPPLY RISER PIPING BY GRAVITY. PROVIDE AUXILIARY DRAINS FOR TRAPPED SECTIONS OF PIPING.
2. PROVIDE PIPING SO THAT VALVES ARE ACCESSIBLE, AND STEMS ARE EXTENDED VERTICALLY UP.
3. PIPING AND VALVE IDENTIFICATION SHALL BE IN ACCORDANCE WITH OWNER'S IDENTIFICATION SYSTEM AND RELEVANT CODES. CONTRACTORS ARE RESPONSIBLE FOR ANY REQUIRED CROSS REFERENCE BETWEEN THESE DRAWINGS AND SPECIFICATIONS AND OTHER DISCIPLINES.
4. COORDINATE THE EXACT LOCATION OF SPRINKLERS AND DEVICES WITH OTHER TRADES DRAWINGS PRIOR TO ROUGH - IN AND INSTALLATION.
5. SPRINKLERS SHOWN ARE THE MINIMUM QUANTITY REQUIRED FOR THE PROJECT TO MEET ARCHITECTURAL REQUIREMENTS. SPRINKLER SYSTEM SHOP DRAWINGS SHALL BE PREPARED AND SUBMITTED IN ACCORDANCE WITH NFPA-13 SPACING REQUIREMENTS. SPRINKLER LOCATIONS SHALL BE COORDINATED IN THE FIELD BASED ON REFLECTED CEILING PLANS AND NFPA-13 SPACING REQUIREMENTS.
6. PROVIDE SWAY BRACING AND SEISMIC BRACING FOR ALL FIRE PROTECTION PIPING IN COMPLIANCE WITH NFPA - 13.
7. PROVIDE TEMPORARY FIRE PROTECTION FOR USE DURING CONSTRUCTION IN ACCORDANCE WITH NFPA, AS REQUIRED BY FIRE PROTECTION AUTHORITY HAVING JURISDICTION.
8. INTENT OF THE FIRE PROTECTION DRAWINGS AND SPECIFICATIONS ARE TO PROVIDE A COMPLETE FIRE PROTECTION SYSTEM FOR THE PROPOSED PROJECT. THE FIRE PROTECTION SYSTEM SHALL CONFORM TO THE DETAILS STATED IN THE SPECIFICATIONS AND SHOWN ON THE FIRE PROTECTION DRAWINGS. ITEMS OR WORK NOT SHOWN OR SPECIFIED, BUT REQUIRED FOR A COMPLETE FIRE PROTECTION SYSTEM, SHALL BE PROVIDED AND SHALL CONFORM WITH ACCEPTED TRADE PRACTICES, LOCAL CODES, AND GOVERNING AUTHORITIES.
9. THE DRAWINGS AND SPECIFICATIONS ARE PRESENTED TO DEFINE SPECIFIC FIRE PROTECTION SYSTEM REQUIREMENTS AND SERVE TO EXPAND ON THE PRIMARY CONTRACT REQUIREMENTS OF PROVIDING COMPLETE FIRE PROTECTION SYSTEMS. THE FIRE PROTECTION DRAWINGS ARE DIAGRAMMATIC AND INDICATE ONLY THE GENERAL ARRANGEMENT OF THE ITEMS COMPRISING THE SEVERAL SYSTEMS INCLUDED IN THE FIRE PROTECTION WORK.
10. BECAUSE OF THE SCALE OF THE DRAWINGS; IT IS NOT POSSIBLE TO INDICATE ALL OFFSETS, FITTINGS, VALVES, OR SIMILAR ITEMS WHICH MAY BE REQUIRED TO MAKE A COMPLETE OPERATING SYSTEM. CAREFULLY INVESTIGATE CONDITIONS AFFECTING WORK AND INSTALL WORK IN SUCH A MANNER THAT INTERFERENCES BETWEEN PIPES, CONDUIT, DUCTS, EQUIPMENT, ARCHITECTURAL AND STRUCTURAL FEATURES ARE AVOIDED. PROVIDE ITEMS THAT MAY BE REQUIRED TO MEET THE CONDITIONS AT THE BUILDING.
11. FIRE PROTECTION CONTRACTOR SHALL HAVE SUFFICIENT EXPERTISE IN THIS TYPE OF CONSTRUCTION TO REALIZE THE EXTENT OF THE FIRE PROTECTION WORK REQUIRED. THEREFORE, IT SHOULD BE OBVIOUS TO ANY PRUDENT FIRE PROTECTION CONTRACTOR WITH EXPERIENCE THAT THESE FIRE PROTECTION DOCUMENTS MAY NOT EXPLICITLY DISCLOSE FINAL DETAILS; HOWEVER, FIRE PROTECTION CONTRACTOR SHALL HAVE THE EXPERTISE NECESSARY TO INCLUDE NECESSARY ACCESSORIES.
12. PROTECT BUILDING SURFACES FROM DAMAGE DURING THE CONSTRUCTION PERIOD. PROVIDE PLYWOOD OR SIMILAR MATERIAL UNDER EQUIPMENT OR MATERIALS STORED ON FLOORS, AND IN AREA WHERE CONSTRUCTION MAY DAMAGE THE FLOOR SURFACES. BUILDING SURFACES (INCLUDING SEALERS) DAMAGED DURING THE CONSTRUCTION SHALL BE REPLACED AT THE COST OF THE CONTRACTOR AT FAULT.
13. COORDINATE WORK WITH WORK SHOWN ON DRAWINGS OF OTHER TRADES.
14. PIPING SHALL NOT BE LOCATED IN ANY ELECTRICAL ROOMS, CLOSETS, OR TELE / COMMUNICATION ROOMS UNLESS REFERENCED PIPING SERVES ONLY THOSE RESPECTIVE SPACES.
15. PROVIDE SPRINKLER PROTECTION ABOVE AND BELOW OBSTRUCTIONS OF WIDER THAN 48" BY WORK OF OTHER DISCIPLINES.
16. FIRE PROTECTION CONTRACTOR SHALL PROVIDE SPRINKLERS AND APPURTENANCES BASED ON ARCHITECTURAL FEATURES AND COMPONENTS. THIS MAY RESULT IN THE QUANTITY OF SPRINKLERS BEING GREATER THAN MINIMUM REQUIRED BY NFPA.
17. FIRE PROTECTION HYDRAULIC CALCULATIONS SHALL BE BASED ON APPROVED SPRINKLER PIPING CONFIGURATION.
18. EACH FIRE PROTECTION SHOP DRAWING AND EACH SET OF HYDRAULIC CALCULATIONS SHALL BE SEALED AND SIGNED BY A PROFESSIONAL ENGINEER REGISTERED IN THE STATE OF WEST VIRGINIA.
19. PROVIDE DRAINING AND FILLING OF EXISTING SPRINKLER SYSTEM AS REQUIRED.
20. COORDINATE DRAINING AND FILLING OF SYSTEM WITH OWNER, FIRE ALARM AND MAINTENANCE PERSONNEL.
21. VERIFY PROPER OPERATION OF EXISTING FLOW CONTROL VALVES, TAMPER SWITCHES, FLOW SWITCHES, ALARMS AND OTHER EXISTING EQUIPMENT.

LIST OF DRAWINGS

F001	FIRE PROTECTION LEGEND, SCHEDULES, AND ABBREVIATIONS
F002	FIRE PROTECTION SPECIFICATIONS
F102	CANOPY FIRE PROTECTION PLAN

PERMIT STAMP

ABBREVIATIONS

(SOME ABBREVIATIONS ARE NOT USED ON THIS PROJECT)

1/C	SINGLE CONDUCTOR
A/C	AIR CONDITIONING UNIT
A	AMPS
AC	ALTERNATING CURRENT
ACT	ABOVE CEILING TILE
A.D.	ACCESS DOOR
AD	AREA DRAIN
AFF	ABOVE FINISHED FLOOR
AFG	ABOVE FINISHED GRADE
AHU	AIR HANDLING UNIT
AL	ALUMINUM
ATS	AUTOMATIC TRANSFER SWITCH
ADJ	ADJUSTABLE
ALT	ALTERNATE
ARCH	ARCHITECTURAL
AUTO	AUTOMATIC
AVG	AVERAGE
BKR	BREAKER
BLDG	BUILDING
BLK	BLOCK
BTM	BOTTOM
BTU	BRITISH THERMAL UNITS
BTUH	BRITISH THERMAL UNITS/HOUR
C	CONDUIT
CAP	CAPACITY
CFH	CUBIC FEET/HOUR
CFM	CUBIC FEET/MINUTE
C.I.	CAST IRON
CIRC	CIRCULATING
CKT	CIRCUIT
CL	CENTERLINE
CLG	CEILING
CLR	COOLER
CO	COMPANY
C.O.	CLEAN OUT
COL	COLUMN
COMB	COMBINATION
CONC	CONCRETE
CONN	CONNECTION
CONST	CONSTRUCTION
CONT	CONTINUOUS
CONTR	CONTRACTOR
CONV	CONVECTOR
CPU	CENTRAL PROCESS UNIT
CRT	CATHODE RAY TUBE
CT	CURRENT TRANSFORMERS
CU	COPPER
DF	DRINKING FOUNTAIN
DFU	DRAINAGE FIXTURE UNIT
DED	DEDICATED
DET	DETAIL
DHW	DOMESTIC WATER HEATER
DIAM	DIAMETER
DIM	DIMENSION
DISC	DISCONNECT
DISCH	DISCHARGE
DIV	DIVISION
DN	DOWN
DPR	DAMPER
DWG	DRAWING
EA	EACH
EC	ELECTRICAL CONTRACTOR
EF	EXHAUST FAN
ELEC	ELECTRICAL
ELEV	ELEVATOR
EM	EMERGENCY ONLY
EM GEN	EMERGENCY GENERATOR
ENCL	ENCLOSURE
EP	ELECTRIC-PNEUMATIC
EQUIP	EQUIPMENT
ESP	EXTERNAL STATIC PRESSURE
EWC	ELECTRIC WATER COOLER
EWH	ELECTRIC WATER HEATER
EXH	EXHAUST
EXIST	EXISTING
EXP	EXPANSION
EXTER	EXTERIOR
F & I	FURNISHED AND INSTALLED
FA	FRESH AIR
FAB	FABRICATE
FAI	FRESH AIR INLET
FACP	FIRE ALARM CONTROL PANEL
FBO	FURNISHED BY OTHERS
FC	FLEXIBLE CONNECTION
FCU	FAN COIL UNIT
FD	FLOOR DRAIN
FH	FIRE HYDRANT
FIN	FINISH
FIXT	FIXTURE
FLASH	FLASHING
FLEX	FLEXIBLE
FLR	FLOOR
FLUOR	FLUORESCENT
FND	FOUNDATION
FTG	FOOTING
FP	FIRE PROTECTION
FPC	FIRE PROTECTION CONTRACTOR
FTN	FOUNTAIN
FU	FIXTURE UNIT
FSE	FOOD SERVICE EQUIPMENT
FSEC	FOOD SERVICE EQUIPMENT CONTRACTOR
GENER	GENERAL CONTRACTOR
GFI	GROUND FAULT INTERRUPTER
GA	GAUGE
GAL	GALLONS
GRD	GROUND
GW	GREY WATER
HC	HVAC CONTRACTOR
HGT	HEIGHT
HORIZ	HORIZONTAL
HP	HORSEPOWER
HT	HIGH TEMPERATURE
HTG	HEATING
HU	HEATING UNIT
HV	HIGH VOLTAGE
HW	HOT WATER
HWT	HOT WATER TANK
HX	HEAT EXCHANGER
HYD	HYDRAULIC
HZ	HERTZ
INCL	INCLUDE
INST	INSTANTANEOUS
INSUL	INSULATION
JAN	JANITOR
JB	JUNCTION BOX
JC	JANITOR CLOSET
JT	JOINT
KS	KITCHEN SINK
LAV	LAVATORY
LA	LABORATORY AIR
LTG	LIGHTING
LTS	LIGHTS
LV	LAB VACUUM
LVR	LOUVER
MAX	MAXIMUM
MB	MOP BASIN
MC	MECHANICAL CONTRACTOR
MCB	MAIN CIRCUIT BREAKER
MCC	MOTOR CONTROL CENTER
MECH	MECHANICAL
MER	MECHANICAL EQUIPMENT ROOM
MFR	MANUFACTURER
MH	MANHOLE
MIN	MINIMUM
MISC	MISCELLANEOUS
MLO	MAIN LUG ONLY
MBTUH	THOUSAND OF BTU/HOUR
MMBTUH	MILLIONS OF BTU/HOUR
MR	MOP RECEPTOR
MTD	MOUNTED
MTG	MOUNTING
NC	NORMALLY CLOSED
NE	NORMAL/EMERGENCY
NIC	NOT IN CONTRACT
NO	NORMALLY OPEN
NOM	NOMINAL
NTS	NOT TO SCALE
OA	OUTSIDE AIR
OAT	OUTSIDE AIR TEMPERATURE
OC	ON CENTER
OH	OVERHEAD
OPNG	OPENING
OS&Y	OUTSIDE SCREW AND YOKE
PC	PLUMBING CONTRACTOR
PD	PRESSURE DROP
PE	PNEUMATIC-ELECTRIC
PEND	PENDANT
PH	PENTHOUSE
PLMB	PLUMBING
PNL	PANEL
PRESS	PRESSURE
PRESS SW	PRESSURE SWITCH
PRV	PRESSURE REDUCING VALVE
PS	PULL SWITCH
PSI	POUND PER SQUARE INCH
PW	PROCESS WATER WASTE
PV	PROCESS WATER VENT
PWS	PROCESS WATER WASTE STACK
PVS	PROCESS VENT STACK
RA	RETURN AIR
RC	RAIN CONDUCTOR
REC	RECESSED
RECEPT	RECEPTACLE
REQD	REQUIRED
REV	REVISION
RM	ROOM
RV	ROOF VENT
SA	SUPPLY AIR
SAT	SUPPLY AIR TEMPERATURE
SCHED	SCHEDULE
SECT	SECTION
SFU	SUPPLY FIXTURE UNIT
SH	SHOWER
SHT	SHEET
SIM	SIMILAR
SM	SHEET METAL
SP	SOIL PIPE
SPEC	SPECIFICATION
SQ FT	SQUARE FOOT
SS	SERVICE SINK
SS	SOIL STACK
STAT	STATISTIC
STD	STANDARD
STL	STEEL
STOR	STORAGE
STR	STRAINER
STRUCT	STRUCTURAL
SURF	SURFACE
SUSP	SUSPENDED
SUSP CLG	SUSPENDED CEILING
SW	SWITCH
SV	STACK VENT
T-STAT	THERMOSTAT
TELE	TELEPHONE
TEMP	TEMPERATURE
TERM	TERMINAL
THK	THICK
TK	TANK
TSP	TOTAL STATIC PRESSURE
TV	TELEVISION
TYP	TYPICAL
U	URINAL
UG	UNDERGROUND
UH	UNIT HEATER
UV	UNIT VENTILATOR
VA	VALVE
VAV	VARIABLE AIR VOLUME
VIB	VIBRATION
VIB ISO	VIBRATION ISOLATION
VT	VAPOR TIGHT
VP	VENT PIPE
VERT	VERTICAL
VS	VENT STACK (SANITARY)
WC	WATER CLOSET
WC	WATER COLUMN
WS	WASTE STACK
WH	WALL HYDRANT
WH	WATER HEATER
WP	WASTE PIPE
WT	WEIGHT

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			2023.12.21

Permit/Seal

STATE OF ALASKA — MICHAEL S. MACEDO — 2-21-2024 — ME-11897 — REGISTERED PROFESSIONAL ENGINEER

ANCHORAGE SCHOOL DISTRICT
PROJECT #245011

KLATT ES LOADING
DOCK CANOPY
ASD Project No. 245011
100% CONSTRUCTION
DOCUMENTS
11900 Puma Street
Anchorage, AK 99515

Project No.: 2014295940

File Name: N/A

KPK	KPK	MJM	2024.02.21
Dwn.	Dsgn.	Chkd.	YYYY.MM.DD

Title

FIRE PROTECTION LEGEND, SCHEDULES, AND ABBREVIATIONS

Scale: 1/8" = 1'-0"

Revision:

Drawing No. **F001**

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FIRE PROTECTION SYSTEMS

PART 1 - GENERAL
1.1 SECTION INCLUDES
A. DRY PIPE SPRINKLER SYSTEM.
1.2 SCOPE DESCRIPTION
A. PROVIDE A COMPLETE DRY AUTOMATIC FIRE SPRINKLER SYSTEM, HYDRAULICALLY CALCULATED TO PROTECT THE ENTIRE PROJECT AREA, COMPLETE AND IN OPERATING ORDER.
B. THE NEW CANOPY OVER THE LOADING DOCK AREA IS CONSIDERED TO BE AN HC-2 HAZARD CATEGORY IN ACCORDANCE WITH FM GLOBAL DATA SHEET 3-26.
1.3 SPECIAL REQUIREMENTS
A. PROVIDE COMPLETE INTERFACE WITH ELECTRICAL/TRANSFORMER ROOMS AND AREAS IN COMPLIANCE WITH THE NEC. APPLY THE FOLLOWING PRACTICES:
A.A. ROUTE NO PIPING THROUGH ELECTRICAL ROOMS WITH THE FOLLOWING EXCEPTIONS:
A.A.A. BRANCH PIPING SUPPLYING SPRINKLERS PROTECTING THE ELECTRICAL ROOM. NOTE: THIS BRANCH PIPING SHALL NOT EXIT THE ELECTRICAL ROOM TO SUPPLY ADDITIONAL SPRINKLERS OUTSIDE THE ROOM.
A.B. NO PIPING SHALL BE ROUTED ABOVE ELECTRICAL PANELS IN COMPLIANCE WITH THE NEC.
B. PROVIDE COMPLETE INTERFACE WITH BUILDING SMOKE AND FIRE ALARM SYSTEM.
C. PROVIDE VALVE SUPERVISION AND WATER FLOW ALARMS AND TROUBLE SIGNAL MONITORING SYSTEM AND AUTOMATICALLY TRANSMIT TO AN APPROVED STATION IN ACCORDANCE WITH THE INTERNATIONAL FIRE CODE.
1.4 CODES AND STANDARDS
A. IBC LATEST ADOPTED EDITION
B. NEC LATEST ADOPTED EDITION
C. UPC LATEST ADOPTED EDITION
D. IFC LATEST ADOPTED EDITION
E. NFPA 13 STANDARD FOR THE INSTALLATION OF SPRINKLERS, LATEST EDITION
F. FM GLOBAL DATA SHEET 2-0 INSTALLATION GUIDELINES FOR AUTOMATIC SPRINKLERS.
G. FM GLOBAL DATA SHEET 2-8 EARTHQUAKE PROTECTION FOR WATER-BASED FIRE PROTECTION SYSTEMS.
H. FM GLOBAL DATA SHEET 3-26 FIRE PROTECTION WATER DEMAND FOR NONSTORAGE SPRINKLERED PROPERTIES.
1.5 QUALITY ASSURANCE
A. DESIGN CERTIFICATION: SHOP DRAWINGS SHALL BE PREPARED BY A PERSON WITH A MINIMUM CERTIFICATION OF LEVEL II DESIGNER, SUPERVISED BY A LICENSED PROFESSIONAL ENGINEER OR A LEVEL IV FIRE SPRINKLER DESIGNER. CERTIFIED BY THE NATIONAL INSTITUTE FOR CERTIFICATION IN ENGINEERING TECHNOLOGIES (NICET), IN FIRE PROTECTION ENGINEERING TECHNOLOGY AUTOMATIC FIRE SPRINKLER SYSTEM LAYOUT.
B. EQUIPMENT AND COMPONENTS: BEAR THE "UL" LABEL OR THE "FM" APPROVAL MARKING.
C. BACKFLOW PREVENTION: INSTALLATION AND TESTING BY A CERTIFIED BACKFLOW ASSEMBLY TESTER IN ACCORDANCE WITH THE UNIFORM PLUMBING CODE (UPC).
1.6 SUBMITTALS
A. SUBMIT ADEQUATE NUMBER OF SHOP DRAWINGS, AND HYDRAULIC CALCULATIONS TO THE ARCHITECT/ENGINEER AND THE CITY FIRE MARSHAL FOR THEIR CONCURRENT REVIEW.
1.7 WATER FLOW INFORMATION, HYDRAULIC CALCULATIONS
A. OBTAIN AND VERIFY THE WATER SUPPLY STATIC PRESSURE, RESIDUAL PRESSURE, AT FULL FLOW OF THE TEST HYDRANT, AT A TIME OF DAY, DURING THE PEAK DEMAND OF THE SYSTEM, AT THE POINT OF CONNECTION TO THE WATER UTILITY SYSTEM OR AT A NEARBY POINT ACCEPTABLE TO THE APPROVAL AUTHORITY. OBTAIN THIS DATA FROM ACTUAL FLOW TESTS. USE THE MORE CONSERVATIVE OF THIS DATA OR AWWU MODEL MAX DAY IN FLOW CALCULATIONS, AND INCLUDE IT WITH THE CALCULATIONS SUBMITTAL. IDENTIFY THE TESTING AGENCY AND THE SOURCE OF THE TEST DATA.
B. WHEN THE CONTRACTOR CONDUCTS THE FLOW TEST, THE TEST SHALL BE CONDUCTED BY THE DESIGNATED PROJECT DESIGN SUPERVISOR, OR FIELD SUPERINTENDENT USING PROCEDURES OUTLINED IN NFPA STANDARD 2941, RECOMMENDED PRACTICE FOR FIRE FLOW TESTING AND MARKING OF HYDRANTS.
C. HYDRAULIC CALCULATIONS SHALL BE ACCOMPLISHED IN COMPLIANCE WITH THE PROCEDURES ESTABLISHED IN FM GLOBAL DATA SHEET 2-0. IN ADDITION TO MINIMUM FM GLOBAL STANDARDS, A MINIMUM 15% PRESSURE BUFFER IS REQUIRED TO BE DESIGNED INTO THE SYSTEM.
1.8 COORDINATION REQUIRED
A. THE CONTRACTOR SHALL EXAMINE THE STRUCTURAL, ARCHITECTURE, MECHANICAL, ELECTRICAL AND ALL OTHER DRAWINGS RELATING TO THE BUILDING AND PLAN THEIR WORK ACCORDINGLY. THEY SHALL CHECK AND VERIFY ALL DIMENSIONS AT THE SITE BEFORE FABRICATING ANY PORTION OF THE SYSTEM. ANY DISCREPANCIES IN PIPING AND HEAD LOCATIONS RESULTING FROM FAILURE TO DO SO SHALL BE CORRECTED EXPEDITIOUSLY TO PROVIDE PROPER COORDINATION OF ALL TRADES.
B. COORDINATE WORK WITH THAT OF OTHER TRADES TO ENSURE THAT ADEQUATE SPACE IS PROVIDED FOR ALL WORK, INCLUDING REQUIREMENTS FOR SERVICEABILITY AND ACCESSIBILITY. LOCATE SPRINKLER HEADS TO AVOID CONFLICT WITH LIGHT FIXTURE AND OTHER INSTALLED EQUIPMENT.
PART 2 - PRODUCTS
2.1 GENERAL
A. PROVIDE ONLY NEW MATERIALS AND EQUIPMENT, WHICH ARE STANDARD PRODUCTS OF A MANUFACTURE REGULARLY ENGAGED IN THE MANUFACTURE OF FIRE PROTECTION EQUIPMENT.
B. ALL PRODUCTS SHALL BEAR THE "UL" LABEL OR "FM" LISTING AND BE SPECIFICALLY APPROVED FOR FIRE PROTECTION APPLICATION WHERE THEY ARE USED.
2.2 PIPING
A. DRY PIPE SPRINKLER SYSTEMS:
A.A. PIPE SHALL BE GALVANIZED SCHEDULE 40 STEEL PIPE. NO SUBSTITUTIONS ALLOWED.
B. ALL PIPING BETWEEN THE FIRE PROTECTION SYSTEM CONNECTION TO THE POTABLE WATER SUPPLY AND THE FIRE PROTECTION BACKFLOW PREVENTION DEVICE SHALL BE GALVANIZED PIPING.
2.3 FITTINGS, COUPLINGS, AND MECHANICAL TEES
A. GROOVED FITTINGS SHALL BE VICTAULIC, GRUVLOK, OR EQUAL. GALVANIZED FITTINGS SHALL ACCOMPANY GALVANIZED PIPING. COUPLINGS AND MECHANICAL TEES SHALL BE STANDARD PAINTED VICTAULIC, GRUVLOK, OR EQUAL.
B. SLIP-FIT FITTINGS AND COUPLINGS UTILIZED FOR JOINING BRANCH PIPING TO NEW MAIN PIPING SHALL NOT BE ALLOWED.
C. PLAIN-END FITTINGS SHALL NOT BE ALLOWED.
2.4 VALVES AND ALARM ASSEMBLIES
A. FIRE PROTECTION VALVES
A.A. CONTROL VALVES: ALL FIRE PROTECTION SYSTEM CONTROL VALVES SHALL BE SUPERVISED WITH SWITCHES COMPATIBLE WITH THE FIRE ALARM SYSTEM.
A.A.A. OS&Y GATE VALVES: MINIMUM WORKING PRESSURE 175 PSI NON-SHOCK COLD WATER. UL LISTED FOR FIRE PROTECTION, KENNEDY OR EQUAL.
A.A.B. BUTTERFLY VALVES: UL LISTED FOR FIRE PROTECTION 175 PSI NON-SHOCK COLD WATER, WITH INTEGRATED SUPERVISORY SWITCH. GROOVED, THREADED, OR WAFER TYPE ACCEPTABLE. CENTRAL MODEL A OR EQUAL.
A.A.C. SWING CHECK VALVES: UL LISTED FOR FIRE PROTECTION 175 PSI NON-SHOCK COLD WATER, CAST IRON BODY, STAINLESS STEEL CLAPPER ASSEMBLY. GROOVED, FLANGED, OR WAFER TYPE ACCEPTABLE. CENTRAL MODEL 90 OR EQUAL.
B. DRY PIPE SPRINKLER SYSTEMS
B.A. DRY PIPE VALVE
B.A.A. DRY PIPE VALVE: COMPLETE WITH ALL REQUIRED TRIMMINGS, INCLUDING INLET AND OUTLET PRESSURE GAUGES AND MAIN DRAIN THAT DISCHARGES OUTSIDE.
B.A.B. PRESSURE SWITCH: TO SIGNAL SYSTEM DISCHARGE. POTTER ELECTRIC MODEL PS-10 OR EQUAL.
B.A.C. LOW AIR ALARM SWITCH: TO SIGNAL LOW AIR PRESSURE IN THE DRY PIPE FIRE PROTECTION SYSTEM. POTTER ELECTRIC MODEL PS-40-2 OR EQUAL.
B.A.D. ACCELERATOR: AS REQUIRED. COMPATIBLE WITH THE DRY PIPE VALVE.
B.A.E. AIR MAINTENANCE DEVICE: AS REQUIRED. COMPATIBLE WITH SPECIFIED DRY PIPE SYSTEMS AND SPECIFIED AIR SUPPLY.
B.A.F. AIR COMPRESSOR: SIZED AS REQUIRED BY NFPA 13 STANDARDS FOR THIS SPECIFICATION AND COMPATIBLE WITH AVAILABLE POWER AS SPECIFIED IN DIVISION 16. UL 2125 LISTED.
2.5 SPRINKLERS
A. PROVIDE SPRINKLERS AS REQUIRED BY FM GLOBAL STANDARDS AND IN COMPLIANCE WITH THE IBC CHAPTER 9 FOR THE ENTIRE PROJECT. SPRINKLER AND STYLE AS FOLLOWS:
A.A. SPRINKLERS SHALL BE UPRIGHT TYPE, BRONZE FINISH.
2.6 BACKFLOW PREVENTERS
A. DOUBLE CHECK VALVE ASSEMBLIES: ANSI/ASSE 1012; BRONZE BODY (3" AND SMALLER) OR FDA APPROVED EPOXY COATED CAST IRON BODY (4" AND LARGER) WITH BRONZE OR STAINLESS STEEL INTERNAL PARTS AND STAINLESS STEEL SPRINGS; TWO INDEPENDENTLY OPERATING CHECK VALVES WITH INTERMEDIATE ATMOSPHERIC VENT WITH TWO GATE VALVES AND STRAINER; SERIES 709 MANUFACTURES BY WATTS.
PART 3 - EXECUTION
3.1 CONTRACTOR COORDINATION
A. THE FIRE PROTECTION CONTRACTOR SHALL COORDINATE THEIR WORK WITH THE WORK OF ALL OTHER TRADES TO ASSURE TIMELY INSTALLATION AND EFFICIENT USE OF MECHANICAL AREAS INCLUDING BUT NOT LIMITED TO BOILER ROOMS, FAN ROOMS, AND CEILING SPACES.
B. ANY WORK INSTALLED WITHOUT PROPER COORDINATION SHALL BE PROMPTLY REMOVED AND REINSTALLED IN A MANNER TO ALLOW FOR A GOOD PRACTICAL ARRANGEMENT OF ALL ITEMS WHICH NEED TO BE INSTALLED BY ALL CRAFTS INVOLVED.
C. IN CASE OF COORDINATION DISPUTE, THE ARCHITECT/ENGINEER SHALL BE CONSULTED AND THEIR DECISION SHALL BE BINDING.
D. ALL COSTS ASSOCIATED WITH COORDINATION AND ARRANGING OR REARRANGING OF THE FIRE PROTECTION SYSTEM SHALL BE BORNE BY THE AFFECTED CONTRACTOR, WITHOUT CAUSING ANY ADDITIONAL EXPENSE TO THE OWNER.
3.2 PIPING INSTALLATION
A. INSTALL PIPING TO CONSERVE BUILDING SPACE AND ROUTE PIPING AROUND ROOF HATCHES AND ATTIC ACCESS PANELS.
B. INSTALL LOW POINT DRAIN STATIONS IN ACCORDANCE WITH NFPA 13 STANDARDS. IDENTIFY THE LOCATION OF DRAIN AND TEST STATIONS WITH SIGNS ON ACCESS PANELS, CEILING PANELS, OR WALLS ADJACENT TO THE STATION, VISIBLE FROM THE FLOOR. INSTALL THE MINIMUM NUMBER OF LOW POINT DRAINS POSSIBLE. DISCHARGE ALL TEST PIPES AND SYSTEM MAIN DRAIN TO OUTSIDE. COORDINATE DISCHARGE POINT WITH OWNER'S FIELD REPRESENTATIVE.
C. PROVIDE SEISMIC PROTECTION FOR THE PIPING SYSTEM IN ACCORDANCE WITH FM GLOBAL DATA SHEET 2-8. ATTACH BRACING TO STRUCTURE WITH THROUGH BOLTS, WASHERS, AND NUTS. PROVIDE CLEARANCE AT ALL STRUCTURAL PENETRATIONS.
D. DRY SYSTEM PIPING SHALL BE INSTALLED TO ALLOW FULL SERVICE AND COMPLETE DRAINAGE OF THE ENTIRE SYSTEM. ALL DRY PIPING SHALL BE SLOPED TO ACCOMPLISH THIS REQUIREMENT.
E. PIPE HANGERS SHALL BE "ROD AND RING" TYPE HANGERS THROUGHOUT. PIPING HANGERS SHALL HAVE A MINIMUM OF 1/2" OF ADJUSTMENT ON EACH SIDE OF THE HANGER RING NUT TO ALLOW FOR PIPING GRADE ADJUSTMENT IN THE FUTURE.
F. PROVIDE ISOLATION MOUNTS FOR AIR COMPRESSOR.
3.3 SYSTEM TEST
A. HYDROSTATICALLY TEST THE ENTIRE SYSTEM IN ACCORDANCE WITH NFPA 13 STANDARDS.
B. TEST ALL SYSTEM ALARM ACTUATIONS AND ALARMS.
C. 48 HOUR ADVANCED NOTICE REQUIRED FOR ALL TESTS TO ALLOW OWNER'S FIELD REPRESENTATIVE TO WITNESS THESE TESTS.
3.4 PAINTING
A. REFER TO DIVISION 09.
3.5 PROJECT CLOSEOUT
A. THE CONTRACTOR SHALL RESPOND WITH IN REASONABLE TIME, NOT TO EXCEED 15 DAYS TO REPAIR OR REPLACE LATENT OR HIDDEN DEFECTS AT SUCH TIME AS THEY ARE DISCOVERED.
B. MINIMUM ONE (1) SET OF "RECORD DRAWINGS" AND MAINTENANCE DATA SHALL BE ISSUED BY THE CONTRACTOR TO THE OWNER'S DESIGNATED FACILITY SITE MAINTENANCE ENGINEER, IN ADDITION TO REQUIRED SUBMITTALS.
C. INITIAL MAIN DRAIN TEST RESULTS SHALL BE POSTED ON THE RISER IN PERMANENT FASHION.
D. HYDRAULIC PLACARD SHALL INDICATE SPRINKLER DEMAND SEPARATELY FROM HOSE DEMANDS.

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Anchorage, AK 99503-2245
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Revision	By	Appd	YYYY.MM.DD
Issued	By	Appd	YYYY.MM.DD

Permit/Seal

STATE OF ALASKA
49 TH
MICHAEL S. MACEDO
2-21-2024
ME-11897
REGISTERED PROFESSIONAL ENGINEER

ANCHORAGE SCHOOL DISTRICT
PROJECT #245011

KLATT ES LOADING
DOCK CANOPY
ASD Project No. 245011
100% CONSTRUCTION
DOCUMENTS
11900 Puma Street
Anchorage, AK 99515

Project No.: 2014295940
File Name: N/A

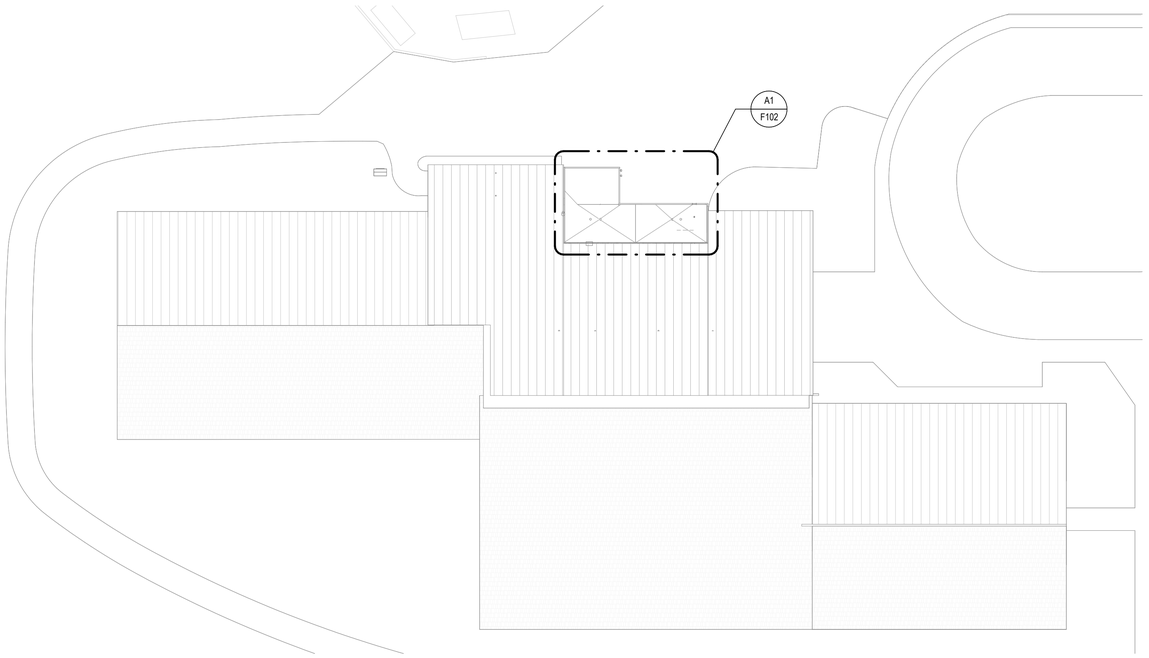
KPK	KPK	MJM	2024.02.21
Dwn.	Dsgn.	Chkd.	YYYY.MM.DD

Title
FIRE PROTECTION SPECIFICATIONS

Scale: 12" = 1'-0"
Revision:
Drawing No. **F002**

2/21/2024 1:37:22 PM

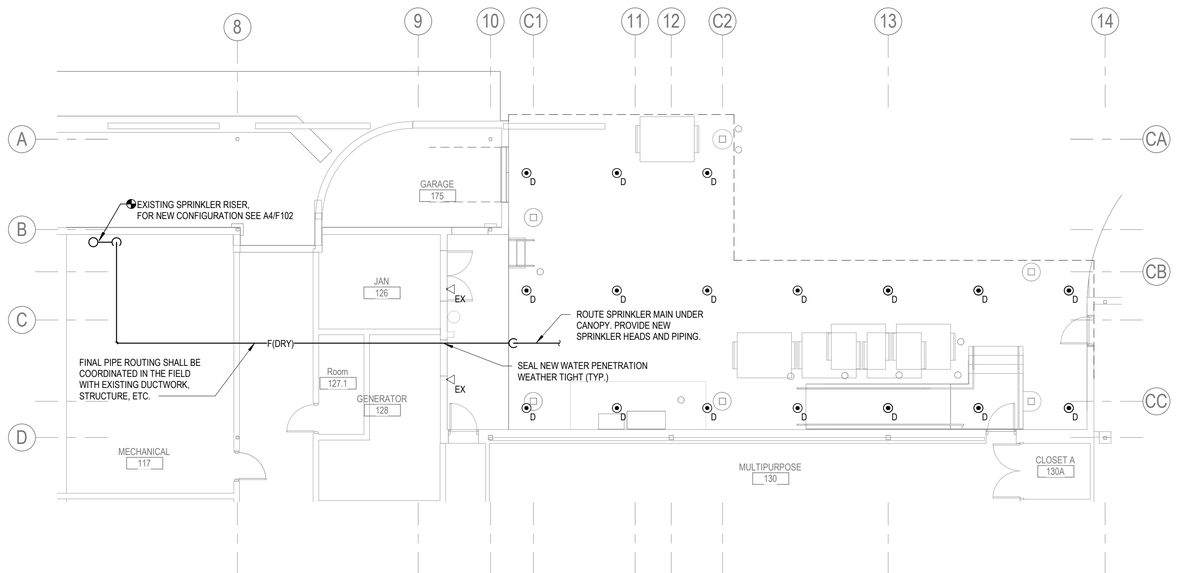
ORIGINAL SHEET - ANSI D



C1 / F102 ROOF AND SITE FIRE PROTECTION PLAN - KLATT

1/32" = 1'-0"

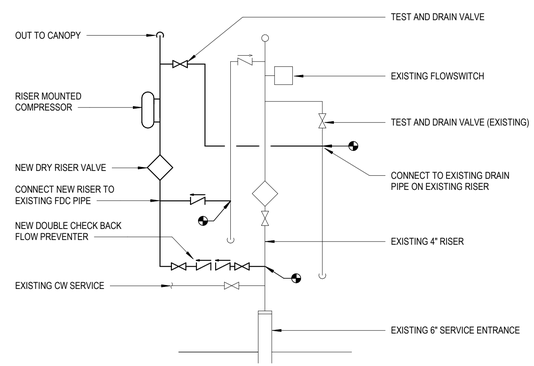
PROJECT NORTH



A1 / F102 ENLARGED RECEIVING DOCK FIRE PROTECTION PLAN - KLATT

1/8" = 1'-0"

PROJECT NORTH



A4 / F102 SPRINKLER CONNECTION DETAIL - KLATT

12" = 1'-0"

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1	Issued	By	Appd	2023.12.21 YYYY.MM.DD

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49 TH
MICHAEL S. MACEDO
2-21-2024
ME-11897
REGISTERED PROFESSIONAL ENGINEER

ANCHORAGE SCHOOL DISTRICT
PROJECT #245011

KLATT ES LOADING DOCK CANOPY
ASD Project No. 245011
100% CONSTRUCTION DOCUMENTS
11900 Puma Street
Anchorage, AK 99515

Project No.: 2014295940
File Name: N/A

KPK	KPK	M.JM	2024.02.21
Dwn.	Dsgn.	Chkd.	YYYY.MM.DD

Title
CANOPY FIRE PROTECTION PLAN

Scale: As indicated
Revision:
Drawing No. **F102**

2/21/2024 1:37:23 PM

ORIGINAL SHEET - ANSI D

ABBREVIATIONS

ADJ	ADJUSTABLE
AFC	ABOVE FINISHED CEILING
AFF	ABOVE FINISHED FLOOR
AFG	ABOVE FINISHED GRADE
AFR	ABOVE FINISH ROOF
AHJ	AUTHORITY HAVING JURISDICTION
AP	ACCESS PANEL
AVG	AVERGAGE
BAS	BUILDING AUTOMATION SYSTEM
BMS	BUILDING MANAGEMENT SYSTEM
BOD	BOTTOM OF DUCT
BOP	BOTTOM OF PIPE
C/W	COMPLETE WITH
DDC	DIRECT DIGITAL CONTROL
DEG	DEGREE
DIA./Ø	DIAMETER
DIV	DIVISION
DN	DOWN
DWG	DRAWING
EA	EXHAUST AIR
EA (K)	EXHAUST AIR, KITCHEN
ED	EXISTING TO BE DEMOLISHED (DEMOLITION PLANS)
ER	EXISTING RELOCATED (NEW CONSTRUCTION PLANS)
ERL	EXISTING TO BE RELOCATED (DEMOLITION PLANS)
EXIST / E	EXISTING (DEMOLITION PLANS)
FP	FIRE PROTECTION
FPM	FEET PER MINUTE
FPS	FEET PER SECOND
FT	FOOT/FEET
GA	GAUGE
GAL	GALLON (US)
GC	GENERAL CONTRACTOR
GPM	GALLONS PER MINUTE
HR	HOUR
HZ	HERTZ
IE	INVERT ELEVATION
IN	INCHES
kW	KILOWATT
kWh	KILOWATT HOUR
LBS	POUNDS
LF	LINEAR FEET
MAX	MAXIMUM
MCA	MINIMUM CIRCUIT AMPS
MFR	MANUFACTURER
MIN	MINIMUM
MOP	MAXIMUM OVERCURRENT PROTECTION
N/A	NOT APPLICABLE
NC	NORMALLY CLOSED
NIC	NOT IN CONTRACT
NO	NORMALLY OPEN
NPS	NOMINAL PIPE SIZE
NTS	NOT TO SCALE
OA	OUTSIDE AIR
OFCI	OWNER FURNISHED, CONTRACTOR INSTALLED
OFE	OWNER FURNISHED EQUIPMENT
OFOI	OWNER FURNISHED / OWNER INSTALLED
POE	POINT OF ENTRANCE
POS	POINT OF SERVICE
PSI	POUNDS PER SQUARE INCH
PVC	POLYVINYL CHLORIDE
RA	RETURN AIR
REQD	REQUIRED
SA	SUPPLY AIR
TEMP	TEMPERATURE
TSTAT	THERMOSTAT
TYP	TYPICAL
UG	UNDERGROUND
UP	UP
VIF	VERIFY IN FIELD
VTR	VENT-THRU-ROOF
W/	WITH
W/O	WITHOUT
°F	FAHRENHEIT

EQUIPMENT IDENTIFICATION

EF-#	FAN EXHAUST
H-#	HUMIDIFIER
RD-#	ROOF DRAIN
L-#	LOUVER

NOTE: NOT ALL SYMBOLS, SYSTEMS, AND ABBREVIATIONS MAY BE USED ON THIS PROJECT

PIPING COMPONENTS

SYMBOL	
	FLEXIBLE CONNECTOR
	EXPANSION JOINT
	GUIDE
	ANCHOR
	FLOW ARROW
1%	PIPING SLOPE
	PIPE CAP
	PIPE BREAK
	PIPE CROSS
	PIPING ELBOW UP
	PIPING ELBOW DOWN
	PIPING TEE UP
	PIPING TEE DOWN
	UNION CONNECTION
	FLANGED CONNECTION
	CONCENTRIC REDUCER
	ECCENTRIC REDUCER
	STANDARD CLEAN-OUT IN LINE END OF RUN
	STANDARD CLEAN-OUT THROUGH FLOOR END OF RUN
	STANDARD CLEAN-OUT THROUGH FLOOR IN LINE

PLUMBING SYSTEMS

63.5	PIPE SIZE
XX	PIPING ROUTED BELOW SLAB OR GRADE
DCW	DOMESTIC COLD WATER
DHW	DOMESTIC HOT WATER
D	DRAIN
SAN	SANITARY DRAIN
ST	STORM DRAIN
ST(O)	STORM DRAIN OVERFLOW
V	VENT
V(O)	VENT (OIL)
	PIPE INSULATION
	FIXTURE TRAP
CB	CATCH BASIN
MH	MAN HOLE
RD	ROOF DRAIN
	HOSE BIBB
	PLUMBING FIXTURES

WORK DEFINITION

	NEW WORK (N)
	EXISTING (E)
	REMOVE EXISTING (D)
	REMOVE EXISTING EQUIPMENT (D)
	FUTURE
	TEMPORARY, AS NOTED
	RELOCATE (R)
###	KEY NOTE
###	EQUIPMENT IDENTIFICATION
	CONNECTION TO EXISTING
	DISCONNECT (CUT AND CAP)

CONTROLS

TS	TEMPERATURE SENSOR
T	THERMOSTAT
T	THERMOSTAT WITH GUARD

PIPING SYSTEMS (HVAC)

63.5	PIPE SIZE
CHWR	CHILLED WATER RETURN
CHWR(G)	CHILLED WATER RETURN - GLYCOL
CHWR(P)	CHILLED WATER RETURN - PROCESS
CHWS	CHILLED WATER SUPPLY
CHWS(G)	CHILLED WATER SUPPLY - GLYCOL
CHWS(P)	CHILLED WATER SUPPLY - PROCESS
FOF	FUEL OIL FILL
FOR	FUEL OIL RETURN
FOS	FUEL OIL SUPPLY
FOV	FUEL OIL VENT
HPWR	HEAT RECOVERY LOOP RETURN
HWR	HEATING WATER RETURN
HWR(G)	HEATING WATER RETURN - GLYCOL
HWS	HEATING WATER SUPPLY
HWS(G)	HEATING WATER SUPPLY - GLYCOL
G	NATURAL GAS
GV	NATURAL GAS VENT
	PIPE INSULATION

(HVAC)

*NOTE: ALL DUCT SIZES ARE INTERIOR, FREE DIMENSIONS ALWAYS WIDTH (HORIZONTAL DIM.) x HEIGHT (VERTICAL DIM.)

	AIR FLOW ARROW
450x300 / 450x300	RECTANGULAR DUCT AND SIZE*
450ø / 450ø	ROUND DUCT AND SIZE*
450x300ø / 450x300ø	FLAT OVAL DUCT AND SIZE*
450x300	EXTERIOR DUCT TREATMENT*
450x300 / 450x300	RECTANGULAR DUCT WITH ACOUSTIC LINING*
750x300	DUCT SECTION, SUPPLY AIR. APPLIES TO RECT., ROUND AND OVAL
	DUCT SECTION, OUTSIDE AIR. APPLIES TO RECT., ROUND AND OVAL
	DUCT SECTION, RETURN AIR. APPLIES TO RECT., ROUND AND OVAL
	DUCT SECTION, EXHAUST AIR. APPLIES TO RECT., ROUND AND OVAL
	FLEXIBLE DUCT
	ELBOW TURN, SUPPLY DOWN. APPLIES TO RECT., ROUND AND OVAL
	DUCT SECTION, OUTSIDE AIR. APPLIES TO RECT., ROUND AND OVAL
	DUCT SECTION, OUTSIDE AIR. APPLIES TO RECT., ROUND AND OVAL
	DUCT SECTION, OUTSIDE AIR. APPLIES TO RECT., ROUND AND OVAL
UP	CHANGE IN DUCT ELEVATION RISING IN DIRECTION INDICATED
DN	CHANGE IN DUCT ELEVATION DROPPING IN DIRECTION INDICATED
	ELBOW, RECTANGULAR, SMOOTH RADIUS WITH SPLITTER VANES (6.35 R/W DEFAULT)
	ELBOW, RECTANGULAR, SMOOTH RADIUS WITHOUT VANES (38.1 R/W DEFAULT)
	ELBOW, ROUND, SMOOTH RADIUS (1.5 R/W DEFAULT)
	MITERED ELBOW, RECTANGULAR, WITHOUT VANES
	MITERED ELBOW, RECTANGULAR, WITH TURNING VANES
	RECTANGULAR TO ROUND TRANSITION
	DUCT ACCESS DOOR (TOP, SIDE, BOTTOM)
	DOOR GRILLE OR LOUVER
	TRANSFER GRILLE OR LOUVER

GENERAL NOTES

1. THE MECHANICAL PLANS ARE DIAGRAMMATIC IN NATURE AND ARE BASED ON ONE MANUFACTURER'S EQUIPMENT. THEY ARE NOT INTENDED TO SHOW EVERY ITEM IN ITS EXACT LOCATION, THE EXACT DIMENSIONS, OR ALL OF THE DETAILS FOR THE EQUIPMENT. THE MECHANICAL CONTRACTOR SHALL VERIFY THE ACTUAL DIMENSIONS OF THE EQUIPMENT AND ENSURE THAT IT WILL FIT IN THE AVAILABLE SPACE.
2. MECHANICAL CONTRACTOR RESPONSIBLE FOR INSTALLATION OF COMPLETED AND OPERATIONAL SYSTEMS WITH DUE RESPECT TO ALL APPLICABLE CODES AND AUTHORITIES HAVING JURISDICTION.
3. IT IS THE CONTRACTOR RESPONSIBILITY TO FIELD VERIFY ALL CONNECTION POINTS PRIOR TO INSTALL. NOT ALL CONNECTION SIZES ARE SHOWN, BUT THOSE THAT ARE APPROXIMATE AND TAKEN FROM EXISTING AS-BUILTS AND FIELD OBSERVATIONS.
4. COORDINATE PIPE ROUTING WITH SPRINKLER PIPING AND ELECTRICAL POWER/LIGHTING CIRCUITING AND STRUCTURAL MEMBERS PRIOR TO INSTALLATION.
5. CONTRACTORS TO VERIFY ALL GRADES, DIMENSIONS AND EXISTING CONDITIONS AT THE SITE BEFORE PROCEEDING WITH WORK. NOTIFY PRIME CONSULTANT OF ANY DISCREPANCIES BETWEEN DRAWINGS AND ACTUAL CONDITIONS BEFORE INSTALLATION.
6. ALL MATERIALS AND INSTALLATION SHALL COMPLY WITH THE MASTER CONSTRUCTION SPECIFICATIONS.
7. COORDINATE INSTALLATION OF PIPING AND DUCTWORK WITH ELECTRICAL CONTRACTOR AND OTHER TRADES.
8. CONTRACTOR IS RESPONSIBLE FOR ALL PERMITS NEEDED TO CONSTRUCT WORK SHOULD IN THE CONSTRUCTION DOCUMENTS AND ACCOMPANYING SPECIFICATIONS.
9. IF THERE IS A CONFLICT BETWEEN THE CONSTRUCTION DOCUMENTS AND SPECIFICATIONS, THE MOST STRINGENT WILL APPLY.
10. ALL EQUIPMENT SHALL BE INSTALLED IN STRICT ACCORDANCE WITH THE EQUIPMENT MANUFACTURERS. CONTRACTOR TO PROVIDE ALL FITTINGS, TRANSITIONS, AND OTHER DEVICES REQUIRED FOR A COMPLETE WORKABLE INSTALLATION.
11. PENETRATIONS OF PIPES, CONDUITS,ETC IN WALLS REQUIRING PROTECTED OPENINGS SHALL BE FIRE STOPPED, FIRE STOP MATERIAL SHALL BE A UL/ULC-LISTED ASSEMBLY APPROPRIATE FOR FIRE OR SMOKE PENETRATIONS AS APPLICABLE AND AS APPROVED BY THE FIRE MARSHAL.
12. ALL PIPE SHALL BE SUPPORTED FROM THE BUILDING STRUCTURE IN A NEAT AND WORKMANLIKE MANNER. THE USE OF WIRE OR METAL STRAPS TO SUPPORT PIPES WILL NOT BE PERMITTED. REFER TO SPECIFICATIONS FOR MINUMUM SPACING OF PIPE SUPPORTS.
13. ALL PIPING, AND OTHER DEVICES AND MATERIALS INSTALLED OUTSIDE OF THE BUILDING OR OTHERWISE EXPOSED TO THE WEATHER SHALL BE COMPLETELY WEATHERPROOFED.
14. PIPING SHALL BE COORDINATED WITH STRUCTURAL JOISTS AND CROSS BRACING.

DEMO NOTES

1. NOT ALL EXISTING CONDITIONS HAVE BEEN SHOWN. CONTRACTOR TO FIELD VERIFY ALL EXISTING CONDITIONS PRIOR TO DEMO.
2. CONTRACTOR SHALL PROTECT ALL WORK AND EXISTING CONDITIONS ASSOCIATED WITH THIS CONTRACT FROM DAMAGE, COVER ENDS OF PIPING AND DUCTWORK. NOT ACTIVELY BEING WORKED ON. IT IS THE CONTRACTOR RESPONSIBILITY TO REPAIR OR REPLACE ANY DAMAGED ITEMS THAT OCCURS DURING THIS CONSTRUCTION PROJECT AT NO COST TO THE OWNER.
3. DEMOLISH ALL REQUIRED PIPING, HANGERS, CONTROLS AND ALL ASSOCIATED EXISTING SYSTEMS AS REQUIRED. TO REPLACE EACH SYSTEM, CONTRACTOR SHALL COORDINATE DEMOLITION WITH EXISTING SYSTEMS AND COMPONENTS TO REMAIN PRIOR TO WORK COMMENCING.
4. IT IS THE CONTRACTOR RESPONSIBILITY TO CLEAN UP ALL DEBRIS FROM SITE AT THE END OF EACH WORK DAY AND DISPOSE OFF EITHER IN LAY DOWN RECYCLE BINS PROVIDED BY THE CONTRACTOR OR OFFSITE ALL TOGETHER.
5. ALL DEMOLISHED EQUIPMENT SHALL BE TURNED OVER TO THE OWNER UNLESS DIRECTED OTHERWISE. IF NOT REQUIRED BY OWNER, DISPOSE AS REQUIRED.

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STATE OF ALASKA
49 TH.
MICHAEL S. MACEDO
2-21-2024
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REGISTERED PROFESSIONAL ENGINEER

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Project No.: 2014295940
File Name: N/A

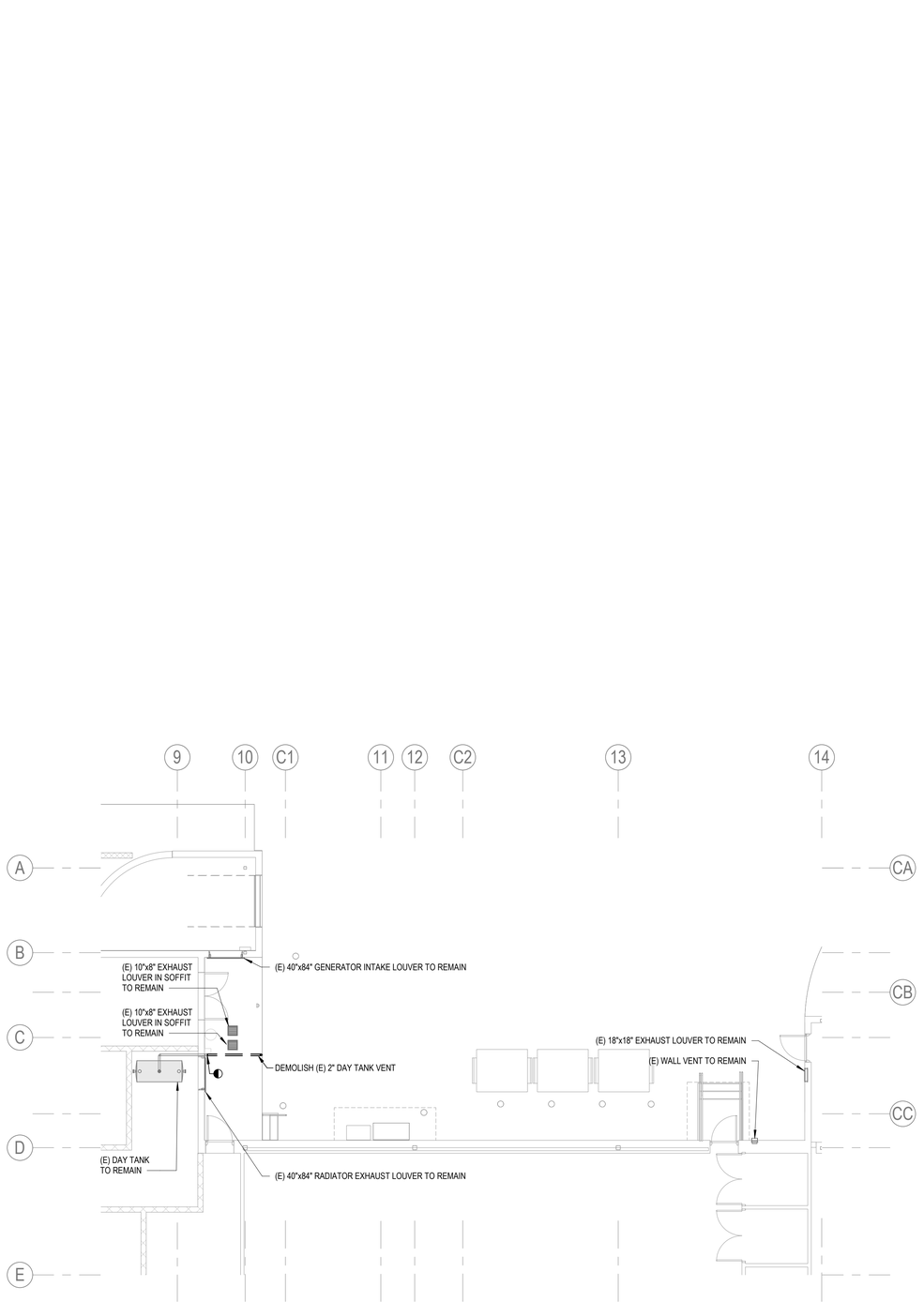
BHC	BHC	MJM	2024.02.21
Dwn.	Dsgn.	Chkd.	YYYY.MM.DD

Title
LEGEND, SCHEDULES, AND ABBREVIATIONS

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Revision:
Drawing No. **P001**

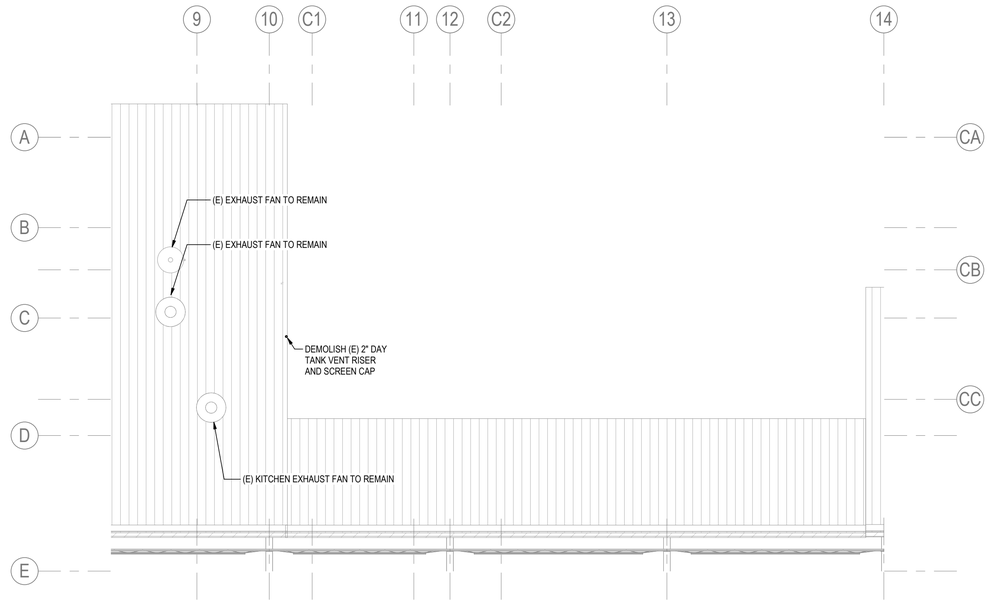
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ORIGINAL SHEET - ANSI D



1 P101 **RECEIVING DOCK DEMO PLAN - KLATT**

1/8" = 1'-0"



2 P101 **ROOF DEMO PLAN - KLATT**

1/8" = 1'-0"

PERMIT STAMP

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Consultant

	By	Appd	YYYY.MM.DD
Revision			
Issued			

Permit/Seal

STATE OF ALASKA
49 TH
MICHAEL S. MACEDO
2-21-2024
ME-11897
REGISTERED PROFESSIONAL ENGINEER

ANCHORAGE SCHOOL DISTRICT
PROJECT #245011

KLATT ES LOADING
DOCK CANOPY
ASD Project No. 245011
100% CONSTRUCTION
DOCUMENTS
11900 Puma Street
Anchorage, AK 99515

Project No.: 2014295940

File Name: N/A

BHC	BHC	MJM	2024.02.21
Dwn.	Dsgn.	Chkd.	YYYY.MM.DD

Title

CANOPY DEMOLITION PLAN - KLATT

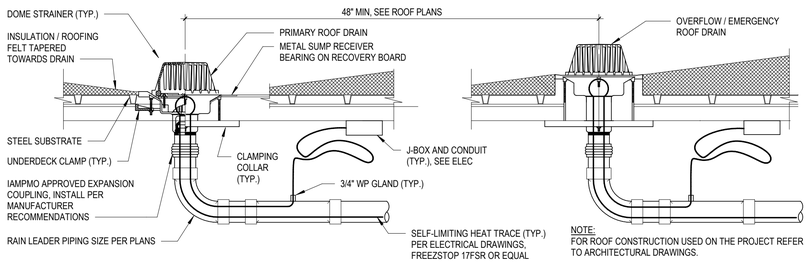
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Revision:

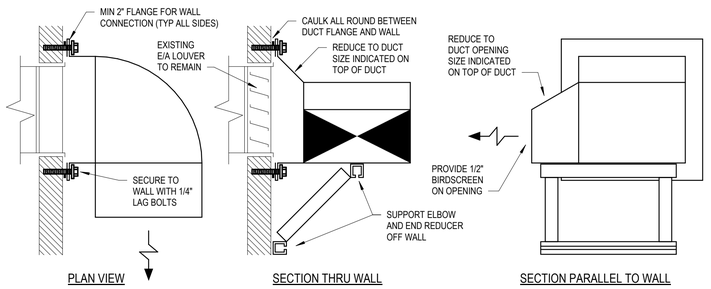
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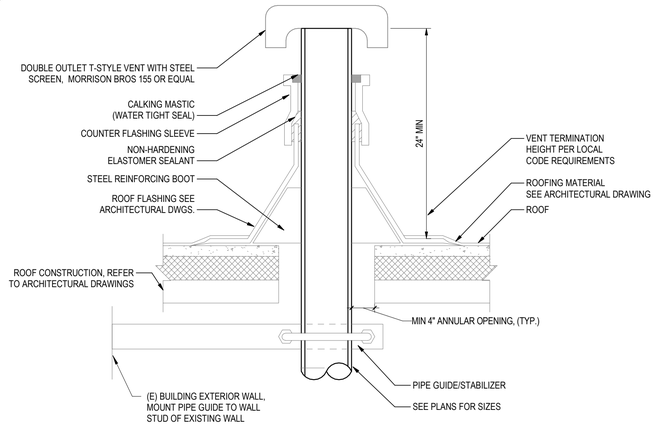
ORIGINAL SHEET - ANSI D



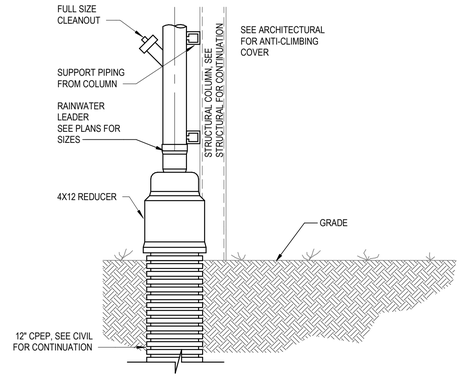
1 ROOF DRAIN INSTALLATION DETAIL
P102 NOT TO SCALE



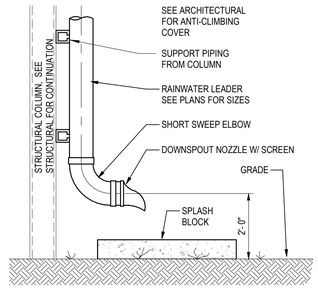
7 E/A DEFLECTOR ELBOW DETAIL
P102 NOT TO SCALE



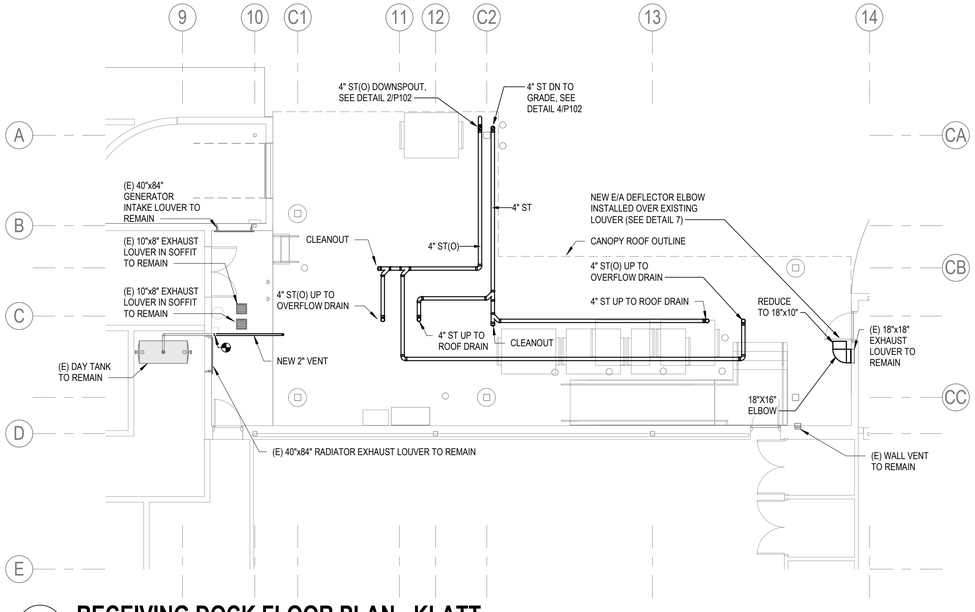
TYPICAL VENT OR PIPE THROUGH ROOF WITH CAP DETAIL
3 P102 NOT TO SCALE



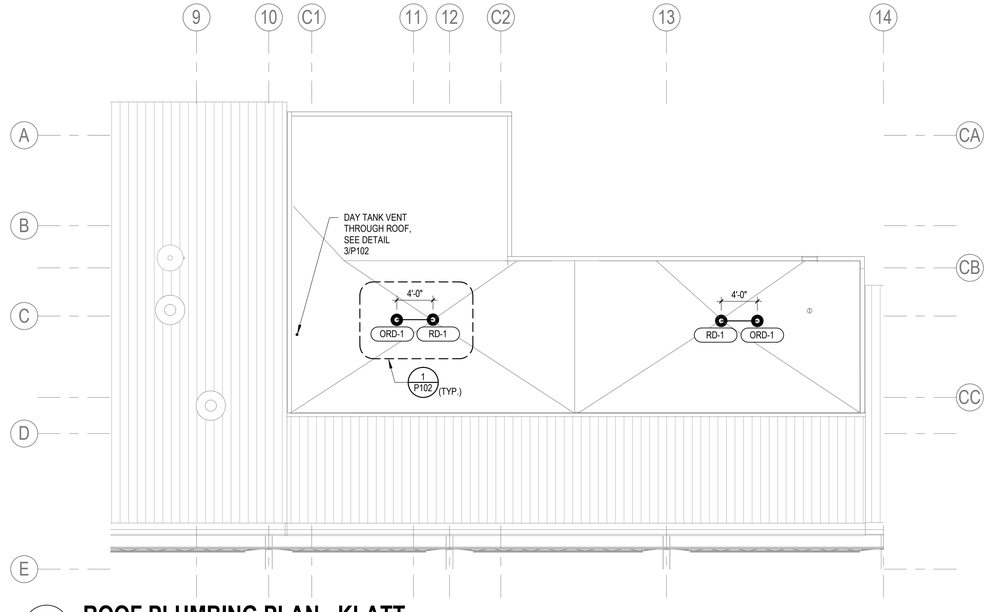
PRIMARY ROOF DRAIN STORM RISER DETAIL
4 P102 NOT TO SCALE



OVERFLOW ROOF DRAIN DOWNSPOUT NOZZLE DETAIL
2 P102 NOT TO SCALE



5 RECEIVING DOCK FLOOR PLAN - KLATT
P102 1/8" = 1'-0"



6 ROOF PLUMBING PLAN - KLATT
P102 1/8" = 1'-0"

PERMIT STAMP

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No.	By	Appd	YYYY.MM.DD	Revision

No.	By	Appd	YYYY.MM.DD	Issued

Permit/Seal

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49 TH
MICHAEL S. MACEDO
2-21-2024
ME-11897
REGISTERED PROFESSIONAL ENGINEER

ANCHORAGE SCHOOL DISTRICT
PROJECT #245011

KLATT ES LOADING DOCK CANOPY
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11900 Puma Street
Anchorage, AK 99515

Project No.: 2014295940
File Name: N/A

BHC	BHC	M.JM	2024.02.21
Dwn.	Dsgn.	Chkd.	YYYY.MM.DD

Title
CANOPY PLUMBING PLAN - KLATT

Scale: As indicated
Revision:
Drawing No. **P102**

2/20/2024 9:31:17 PM

ORIGINAL SHEET - ANSI D

SPECIFICATIONS

1.1 PIPING INSTALLATION
- A. REAM PIPE ENDS. CLEAN SCALE AND DIRT, INSIDE AND OUTSIDE BEFORE AND AFTER ASSEMBLY.
- B. DURING CONSTRUCTION, PROTECT ALL OPENINGS IN PIPING AND EQUIPMENT, BY CAPPING OR PLUGGING TO PREVENT ENTRY OF DIRT.
- C. CONNECT TO EQUIPMENT IN ACCORDANCE WITH MANUFACTURER'S INSTRUCTION UNLESS OTHERWISE INDICATED.
- D. SLOPE STORM DRAIN PIPING DOWN 1/8" PER FOOT IN THE DIRECTION OF FLOW.
- E. USE ECCENTRIC REDUCERS AT PIPE SIZE CHANGE INSTALLED TO PROVIDE POSITIVE DRAINAGE.
- F. PROVIDE CLEARANCE FOR ACCESS FOR MAINTENANCE OF EQUIPMENT, VALVES AND FITTINGS.
- G. INSTALL UNIONS OR FLANGES IN CONNECTIONS TO ALL EQUIPMENT AND SPECIALTY COMPONENTS.
- H. ARRANGE PIPING CONNECTIONS TO ALLOW EASE OF ACCESS AND FOR REMOVAL OF EQUIPMENT.
- I. ALIGN AND INDEPENDENTLY SUPPORT PIPING CONNECTIONS ADJACENT TO EQUIPMENT TO PREVENT PIPING STRESSES BEING TRANSFERRED.
- J. CONSTRUCT PIPING TO ALLOW FOR EXPANSION AND CONTRACTION.
- K. PIPING AND FITTINGS - ABOVE AND BELOW GRADE
  1. CAST IRON HUBBED PIPE AND FITTINGS WITH ELASTOMERIC PUSH JOINTS.
  2. CAST IRON HUBLESS PIPE FITTINGS AND ELASTOMERIC SEALING SLEEVES WITH STAINLESS STEEL CLAMPS
- L. INSTALL CLEANOUTS AS SHOWN ON THE DRAWINGS AND AS REQUIRED BY THE LOCAL PLUMBING CODE.

1.2 PIPE TESTING AND CLEANING
- A. INJECT 40 PSI OF COMPRESSED AIR INTO PIPING TO SPOT CHECK FOR LEAKS WITH LIQUID SOAP PRIOR TO INSULATING.
- B. REPAIR ALL LEAKS AS REQUIRED FOR ZERO LOSS.

1.3 INSULATION – PIPING & EQUIPMENT
- A. AS APPLICABLE, USE THE LATEST EDITION OF THE LOCAL APPLICABLE BUILDING CODE AS A REFERENCE STANDARD IF SUFFICIENT DETAIL/INFORMATION IS NOT SPECIFIED HEREIN.
- B. APPLY THE FOLLOWING MATERIALS OVER THE ENTIRE LENGTH OF THE SYSTEM INCLUDING VALVES, TANKS AND PIPING EQUIPMENT ETC.:
- C. ROOF DRAINS AND STORM DRAIN SYSTEMS: RIGID FIBROUS GLASS INSULATION WITH VAPOR BARRIER AND FACTORY APPLIED GENERAL PURPOSE JACKETS, / K ≤ 0.23, 75 DEG F
- D. INSULATION ACCESSORIES
  1. ALL INSULATION ACCESSORIES (ADHESIVES, TAPE, COATINGS, ETC.) SHALL BE APPROVED FOR THE SPECIFIC APPLICATION.
- E. PIPE INSULATION SCHEDULE:
  1. INSULATE RAINWATER LEADERS FOR THE ENTIRE LENGTH INCLUDING ROOF DRAIN BODIES. DO NOT USE FLEXIBLE DUCT WRAP INSULATION.
  2. PROVIDE 1" INSULATION FOR ALL DOMESTIC RAIN LEADER PIPES.
  3. PORTIONS OF PIPING EXPOSED TO AMBIENT SHALL BE WEATHER PROTECTED WITH 18 GAUGE GALVANIZED SHEET METAL SLEEVE OR ALUMINUM JACKET. SIZE FOR MINIMUM 1" OF RIGID FIBROUS GLASS INSULATION.

1.4 HEAT TRACING
- A. MANUFACTURERS:
  1. CHROMALOX, PENTAIR, NELSON, THERMON MANUFACTURING COMPANY
- B. PROVIDE PRODUCTS LISTED, CLASSIFIED, AND LABELED BY UL, ITS, OR TESTING FIRM ACCEPTABLE TO AUTHORITIES HAVING JURISDICTION.
- C. FACTORY RATING AND TESTING: COMPLY WITH IEEE 515.1.
- D. HEATING ELEMENT:
  1. PROVIDE PAIR OF PARALLEL NO.16 TINNED OR NICKEL COATED STRANDED COPPER BUS WIRES EMBEDDED IN CROSS LINKED CONDUCTIVE POLYMER CORE WITH VARYING HEAT OUTPUT IN RESPONSE TO TEMPERATURE ALONG ITS LENGTH.
  2. TERMINATIONS: WATERPROOF, FACTORY ASSEMBLED, NON-HEATING LEADS WITH CONNECTOR AT ONE END AND WATER-TIGHT SEAL ALONG ITS LENGTH.
  3. CAPABLE OF CROSSING OVER ITSELF WITHOUT OVERHEATING
- E. INSULATED JACKET: FLAME RETARDANT POLYOLEFIN.
- F. CABLE COVER: PROVIDE TINNED COPPER AND POLYOLEFIN OUTER JACKET WITH UV INHIBITOR.
- G. MAXIMUM POWER-ON OPERATING TEMPERATURE: 150 DEGREES F.
- H. MAXIMUM POWER-OFF EXPOSURE TEMPERATURE: 185 DEGREES F.
- I. ELECTRICAL CHARACTERISTICS:
  1. 5W/LINEALFT.
  2. 208 VOLTS, SINGLE PHASE, 60HZ.

1.5 ROOF DRAINS AND FLOOR DRAINS
- A. ACCEPTABLE MANUFACTURERS
  1. ACCEPTABLE MANUFACTURERS OF SPUN COPPER OR ALUMINUM ROOF DRAINS: MENZIES METAL PRODUCTS
  2. ACCEPTABLE MANUFACTURERS OF FULL BODY FLOOR AND ROOF DRAINS: WATTS, ZURN, MIFAB, SMITH
- B. ROOF DRAIN RD-1:
  1. SPUN COPPER OR ALUMINUM ROOF DRAIN WITH METAL STRAINER, STRAINER SECURING BOLT, METAL CLAMPING RING, INTEGRAL DRAIN RECEIVER, METAL LOCKING DOME, SPUN METAL BOWL AND FLANGE, 12" LONG TAIL PIECE WITH ADAPTER FITTING TO SUIT CONNECTING PIPE FOR A COMPLETE SEAL.

1.6 FUEL OIL SYSTEMS – PIPING, VALVES, AND FITTINGS
- A. ALL WORK SHALL CONFORM TO THE LATEST STANDARDS OF:
  1. NFPA 30 – FLAMMABLE AND COMBUSTIBLE LIQUIDS CODE
  2. NFPA 31 – STANDARDS FOR INSTALLATION OF OIL BURNING EQUIPMENT
  3. UL-971 – NONMETALLIC UNDERGROUND PIPING FOR FLAMMABLE LIQUIDS
  4. APPLICABLE LOCAL FIRE CODE.
- B. SUBMITTALS – SUBMIT DETAILS DATA AND COMPLETE LAYOUT OF FUEL OIL SYSTEMS APPROVED BY AUTHORITIES HAVING JURISDICTION AND PREPARED IN ACCORDANCE WITH THE REQUIREMENTS DESCRIBED IN APPLICABLE NFPA STANDARDS.
- C. PIPE
  1. ABOVE GROUND PIPE – STEEL PIPE: TO ASTM A53-84A GRADE B, SCHEDULE 40
     - A. NPS 2 AND LESS: WELDED JOINTS WITH SOCKET WELD FITTINGS.
     - B. NPS 2-1/2" AND LARGER: WELDED JOINTS WITH BUTT WELDED FITTINGS.

1.7 FUEL OIL SYSTEMS - INSTALLATION
- A. PIPING
  1. REAM PIPE ENDS. CLEAN SCALE AND DIRT, INSIDE AND OUTSIDE BEFORE AND AFTER ASSEMBLY.
  2. DURING CONSTRUCTION, PROTECT ALL OPENINGS IN PIPING AND EQUIPMENT, BY CAPPING OR PLUGGING TO PREVENT ENTRY OF DIRT.
  3. BRAZE ALL FUEL OIL COPPER PIPE WITH SILVER BASE ALLOY 1000°F MELTING POINT.
  4. INSTALL OIL PIPING IN ACCORDANCE WITH THE STANDARDS LISTED ABOVE AND THE APPLICABLE LOCAL FIRE CODE.
  5. CONNECT TO EQUIPMENT IN ACCORDANCE WITH MANUFACTURER'S INSTRUCTION UNLESS OTHERWISE INDICATED.
  6. PROVIDE FLEXIBLE CONNECTORS BETWEEN FUEL OIL PIPING AND EQUIPMENT (DAY TANKS, GENERATORS, ETC). FLEX CONNECTORS SHALL ALLOW ¾" MOVEMENT IN ALL DIRECTIONS.
  7. SLOPE PIPING DOWN IN DIRECTION OF TANK UNLESS OTHERWISE INDICATED.
  8. USE ECCENTRIC REDUCERS AT PIPE SIZE CHANGE, INSTALLED TO PROVIDE POSITIVE DRAINAGE.
- B. TESTING
  1. TEST SYSTEM IN ACCORDANCE WITH THE LATEST STANDARDS AND AUTHORITIES HAVING JURISDICTION.
  2. NOTIFY THE ENGINEER AND THE INSPECTION AUTHORITY HAVING JURISDICTION 48 HOURS IN ADVANCE OF INTENDED TEST DATE.
  3. EXAMINE PIPING FOR LEAKS. REMAKE ALL LEAKING CONNECTIONS AND JOINTS.

1.8 SEISMIC RESTRAINTS
- A. PROVIDE ANCHORAGE AND BRACING ON ALL ISOLATED EQUIPMENT AND SEISMIC RESTRAINT ON ALL OTHER EQUIPMENT, PIPING AND DUCTWORK, ALL IN ACCORDANCE WITH THE LATEST EDITION OF APPLICABLE LOCAL BUILDING CODE, ASCE 7, AND SMACNA GUIDELINES.
- B. INCLUDE IN THE BID SERVICES OF AN APPLICABLE APPROPRIATE PROFESSIONAL ENGINEER, REGULARLY EMPLOYED IN THE DESIGN OF SEISMIC RESTRAINT SYSTEMS TO REVIEW AND SIGN-OFF ON ALL SEISMIC SUPPORTS AND RESTRAINTS. SUBMIT "SEALED AND SIGNED" LETTERS OF ASSURANCE FROM THE SEISMIC ENGINEER.
- C. IT IS THE ENTIRE RESPONSIBILITY OF EQUIPMENT MANUFACTURERS TO DESIGN THEIR EQUIPMENT SO THAT THE STRENGTH AND ANCHORAGE OF INTERNAL COMPONENTS OF THE EQUIPMENT EXCEEDS THE FORCE LEVEL USED TO RESTRAIN AND ANCHOR THE UNIT ITSELF TO THE SUPPORTING STRUCTURE.
- D. ALL RESILIENTLY MOUNTED EQUIPMENT, INCLUDING PIPING AND DUCTWORK, SHALL BE PROVIDED WITH SEISMIC RESTRAINING DEVICES (SNUBBERS).
- E. PROVIDE SUBMITTAL TO PROJECT MECHANICAL AND STRUCTURAL ENGINEERS.

1.9 CONTROLS GENERAL
- A. THE INSTALLATION SHALL BE PERFORMED BY CONTRACTORS SPECIALIZING IN THIS TYPE OF CONTROL SYSTEM INSTALLATION AND SETUP.
- B. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE FOLLOWING ITEMS:
  1. ALL CONDUIT AND WIRING FOR THE LOW VOLTAGE CONTROL SYSTEM.
  2. ALL PROGRAMMING, COMMISSIONING AND TUNING OF THE COMPLETE CONTROL SYSTEM.
  3. SHOP DRAWINGS, AS-BUILT DIAGRAMS AND OPERATING MANUALS.
  4. DEMONSTRATION AND INSTRUCTION FOR THE OWNER.
- C. CONTROLLERS
  1. MICRO-PROCESSOR BASED.
  2. ON/OFF/AUTO SWITCH.
  3. 365 DAY CALENDAR WITH 20 PROGRAMMABLE HOLIDAYS.

PLUMBING FIXTURES SCHEDULE									
FIXTURE TYPE: LAVATORY									
UNIT IDENTIFICATION	BODY			STRAINER			MODEL	MANUFACTURER	NOTES
	DRAIN SIZE	MATERIAL	STYLE	MATERIAL	STYLE	DIMENSIONS (IN)			
RD-1	4	ALUMINUM	DOME	ALUMINUM	DOME	15 3/4	D1010E	JAY R SMITH	
ORD-1	4	ALUMINUM	DOME	ALUMINUM	DOME	15 3/4	D1010E	JAY R SMITH	1
NOTE 1: DRAIN TO INCLUDE AN INTEGRAL DAM. DAM HEIGHT TO BE SUCH THAT IT PROVIDES A 2" HEIGHT ABOVE PRIMARY ROOF DRAIN ALLOWING FOR ROOF SLOPING AND HIGHER INSTALLATION HEIGHT OF OVERFLOW ROOF DRAIN THAN PRIMARY ROOF DRAIN IN SLOPED ROOF.									

SEQUENCE OF OPERATIONS

1.1 HEAT TRACE
- A. ALL HEAT TRACE CIRCUITS TO BE CONTROLLED BY THE BAS.
  1. ABOVE GROUND CIRUITS CONTROLLED BY A COMMON ENABLE POINT.
  2. BELOW GROUND CIRCUITS CONTROLLED BY A COMMON POINT.
- B. ALL HEAT TRACE CABLES TO BE MONITORED FOR POWER DRAW. FAILURES TO BE REPORTED VIA BAS ALARM.
  1. PROVIDE CT RELAY OR CURRENT SENSORS AS REQUIRED.
- C. HEAT TRACING TO BE ENABLED THROUGH A SCHEDULE CONTROLLED BY THE BAS.
  1. ABOVE GROUND CIRCUITS
     - A. MAY 1ST THROUGH SEPTEMBER 31ST: HEAT TRACE OFF
     - B. OCTOBER, APRIL, AND MAY:
       1. IF THE OAT DROPS BELOW 32°F, HEAT TRACE ON
       2. IF THE OAT REMAINS ABOVE 35°F FOR 3 DAYS, HEAT TRACE OFF
     - C. NOVEMBER 1ST THROUGH MARCH 31ST: HEAT TRACE ON
  2. BELOW GROUND CIRCUITS
     - A. MAY 16TH THROUGH OCTOBER 31ST: HEAT TRACE OFF
     - B. NOVEMBER 1ST THROUGH MAY 15TH: HEAT TRACE ON

PERMIT STAMP

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Permit/Seal

STATE OF ALASKA
49 TH
MICHAEL S. MACEDO
2-21-2024
ME-11897
REGISTERED PROFESSIONAL ENGINEER

ANCHORAGE SCHOOL DISTRICT
PROJECT #245011

KLATT ES LOADING
DOCK CANOPY
ASD Project No. 245011
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DOCUMENTS
11900 Puma Street
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Project No.: 2014295940
File Name: N/A

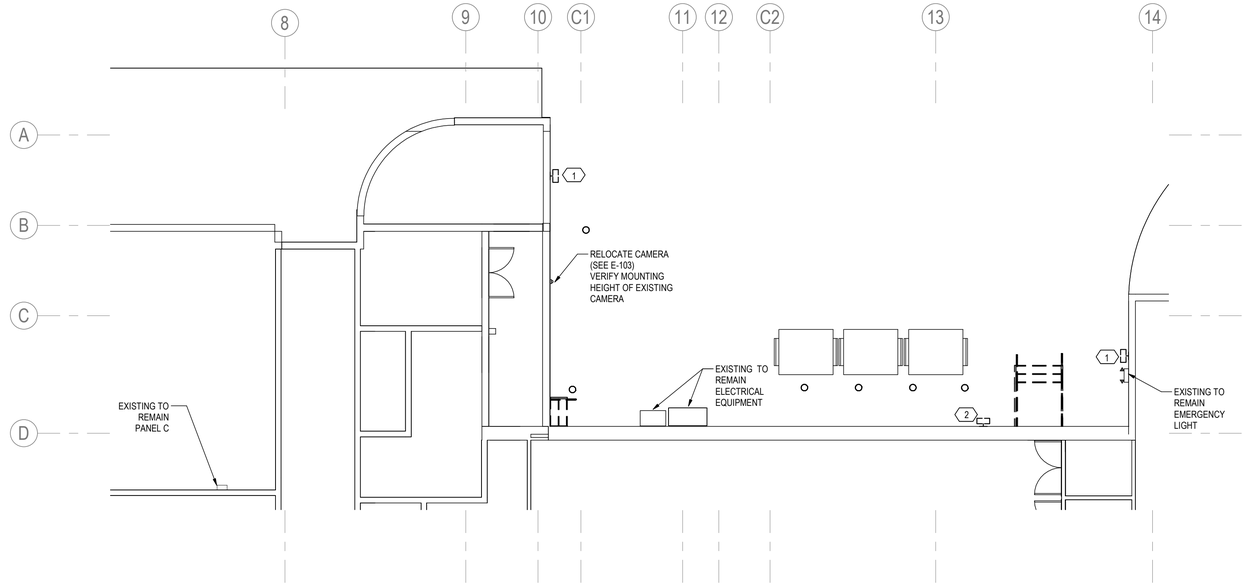
BHC	BHC	MJM	2024.02.21
Dwn.	Dsgn.	Chkd.	YYYY.MM.DD

Title
SCHEDULES, SPECIFICATIONS, AND SEQUENCE

Scale:
Revision:
Drawing No. **P201**

2/14/2025 12:09:38 PM

ORIGINAL SHEET - ANSI D



1 FLOOR PLAN ELECTRICAL DEMO - KLATT

1/8" = 1'-0"

PERMIT STAMP

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SHEET NOTES

1 DEMO EXISTING LIGHT FIXTURE, EXISTING WIRING TO REMAIN.

2 DEMO EXISTING LIGHT FIXTURE, REMOVE WIRING BACK TO PREVIOUS DEVICE ON CIRCUIT AND PROVIDE BLANK COVER

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No.	Issued	By	Appd	YYYY.MM.DD

Permit/Seal

STATE OF ALASKA · 49 TH · COREY L. ROGERS · EE - 107702 · 07/29/2025 · REGISTERED PROFESSIONAL ENGINEER

Anchorage School District

Klatt Elementary School
Loading Dock Canopy
ASD Project No. 245011
100% Construction Documents
11900 Puma Street
Anchorage, AK 99515

Project No.: 2014295940

File Name: N/A

CLR	CLR	LPS	2025.07.29
Dwn.	Dsgn.	Chkd.	YYYY.MM.DD

Title

FLOOR PLAN ELECTRICAL DEMO - KLATT

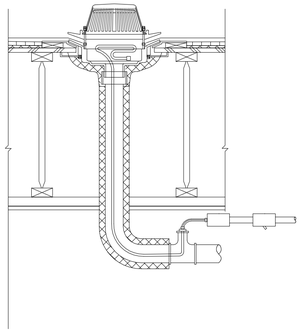
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Revision:

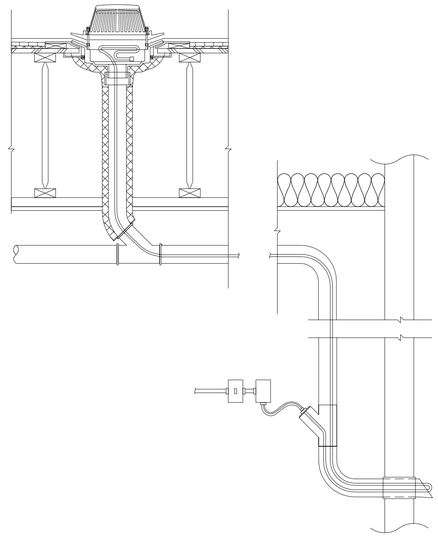
Drawing No. **E-102**

<Plot location in Project Information>
7/29/2025 9:46:33 AM

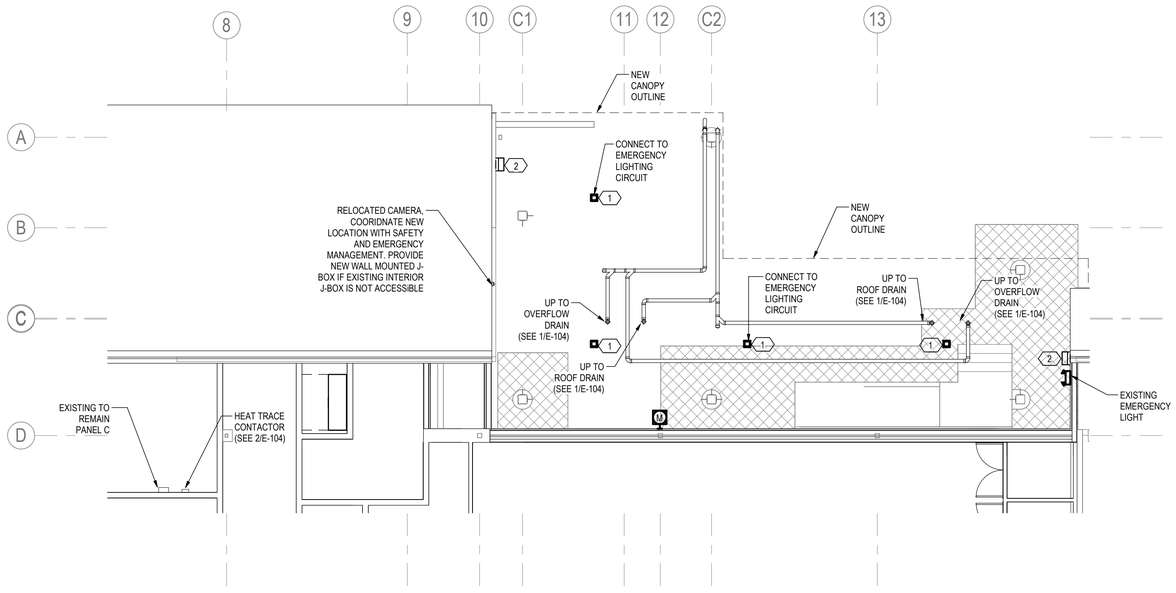
ORIGINAL SHEET - ANSI D



2 ROOF DRAIN HEAT TRACE DETAIL
E-103 1" = 1'-0"



3 HEAT TRACE CLEANOUT DETAIL
E-103 1" = 1'-0"



1 CANOPY PLAN ELECTRICAL NEW WORK - KLATT
E-103 1/8" = 1'-0"

PERMIT STAMP

Notification of Potential Hazards:

Asbestos, lead and other potentially hazardous materials are present in the building that may impact the work of all trades. Regulated air contaminants, including asbestos and lead, are also present in settled and concealed dust in and on architectural, structural, mechanical and electrical components or systems throughout the building. All trades shall coordinate with other trades and conduct their work to prevent worker exposure or site contamination. Refer to Specification Divisions 0, 1 and 2 for specific information concerning disturbing, removing and disposing of these materials and the installation of new materials or components. This notification is provided in accordance with EPA and OSHA requirements.

Notification of Child Occupied Facility:

Portions of this building are classified as a Child Occupied Facility in accordance with 40 CFR 745 and lead-based paints may be present on components to be disturbed in those areas. Personnel performing work in these areas must comply with the requirements of 40 CFR 745, including training, work practices and cleaning of the work area. Refer to Specification Divisions 0, 1 and 2 for specific information concerning disturbing, removing and disposing of lead materials and the installation of new materials or components. This notification is provided in accordance with EPA and OSHA requirements.

SHEET NOTES

1 LIGHT FIXTURE - LITHONIA MODEL CNY 40K MVOLT DDB - MOUNT ON BOTTOM OF GIRDER AND CONNECT TO EXISTING LIGHTING CONTACTOR

2 LIGHT FIXTURE - LITHONIA MODEL WDGE1LED P2 40K 80CRI VW MVOLT SRM DS DDBXB - MOUNT AT SAME LOCATION AS DEMOED FIXTURE AND RECONNECT TO EXISTING WIRING

GENERAL NOTES

1. HEAT TRACE BOTH ROOF DRAINS TOGETHER ON ONE CIRCUIT AND CONTIUE CIRCUIT OUT TO EXISTING STORM DRAIN MANHOLE SEE C-102 AND A1/C-501. HEAT TRACE BOTH OVERFLOW DRAINS TOGETHER ON ONE CIRCUIT AND CONTINUE OUT TO OVERFLOW ROOF DRAIN DOWN SPOUT. SEE 2/P102

2. RAIN LEADER HEAT TRACE SHALL BE SELF-REGULATING PARALLEL RESISTANCE HEATER CABLE DESIGNED FOR SUBMERSIBLE FREEZE PROTECTION, WITH #18 AWG MINIMUM BUS WIRES, 316 SS BRAID, AND OVERJACKET, 120VOLT, 5 WATTS/FT, TYPE NELSON CATALOG # CLT5-JT, OR APPROVED EQUAL PRODUCT, WITH MANUFACTURER'S ACCESSORIES TO INCLUDE WATER PROOF STRAIN RELIEF/PRESSURE CONNECTORS, POWER CONNECTION JUNCTION BOXES, AND WATER-PROOF END SEAL KITS.

3. HEAT TRACE SHALL BE INSTALLED IN CONTINUOUS LENGTHS WITHOUT SPLICES JOINTS IN ACCORDANCE WITH MANUFACTURER'S INSTRUCTIONS. INSTALLATION SHALL COMPLY WITH NEC ARTICLE 426. TEST CABLES FOR CONTINUITY AND INSULATION RESISTANCE AFTER INSTALLATION AND SUBMIT WRITTEN RESULTS. REMOVE AND REPLACE CABLES WITH RESISTANCE MEASURING LESS THAN 10 MEGOHMS TO GROUND.

4. PROVIDE 30mA GROUND FAULT EQUIPMENT PROTECTION (GFEP) CIRCUIT BREAKERS WITH NON-REMOVEABLE PADLOCKING PROVISIONS AT THE EXISTING PANELS FOR HEAT TRACE BRANCH CIRCUITS INDICATED ON PLAN. DO NOT INSTALL 10KAIC RATED GFEP CIRCUIT BREAKERS IN PANELS FULLY-RATED FOR HIGHER INTERRUPTING DUTY. PROVIDE NEW 20A BRANCH CIRCUIT WIRING, #12AWG XHHW CONDUCTORS, FOR ALL HEAT TRACE CIRCUITS SHOWN. ALL WIRING SHALL BE IN RACEWAY, SURFACE MOUNT IN UNFINISHED AREAS. EXISTING RACEWAY MAY BE REUSED IF IT IS UNDAMAGED AND UNMOVED FROM ITS ORIGINAL INSTALLATION.

5. IDENTIFICATION:
- PROVIDE LABEL AT EACH HEAT TRACE TERMINAL BOX TO IDENTIFY BRANCH CIRCUIT SOURCE, AND LOCATION IF APPLICABLE OF A REMOTE CONTROL SWITCH.
- PROVIDE LABEL AT EACH HEAT TRACE CONTROL SWITCH TO INDICATE "RAIN LEADER HEAT TRACE", WITH BRANCH CIRCUIT NUMBER.
- UPDATE PANEL SCHEDULES TO IDENTIFY RAIN LEADER HEAT TRACE CIRCUITS.

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Consultant

Revision	By	Appd	YYYY.MM.DD

Issued	By	Appd	YYYY.MM.DD

Permit/Seal

STATE OF ALASKA
49 TH
COREY L. ROGERS
EE - 107702
07/29/2025
REGISTERED PROFESSIONAL ENGINEER

Anchorage School District

Klatt Elementary School
Loading Dock Canopy
ASD Project No. 245011
100% Construction Documents
11900 Puma Street
Anchorage, AK 99515

Project No.: 2014295940
File Name: N/A

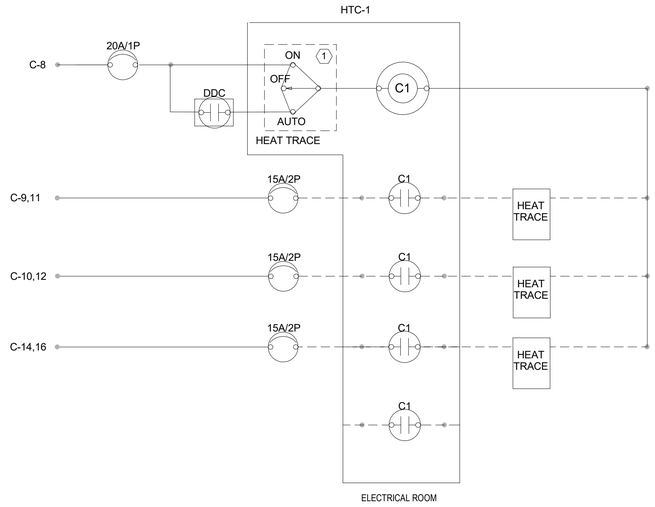
CLR	CLR	LPS	2025.07.29
Dwn.	Dsgn.	Chkd.	YYYY.MM.DD

Title
CANOPY PLAN ELECTRICAL NEW WORK - KLATT

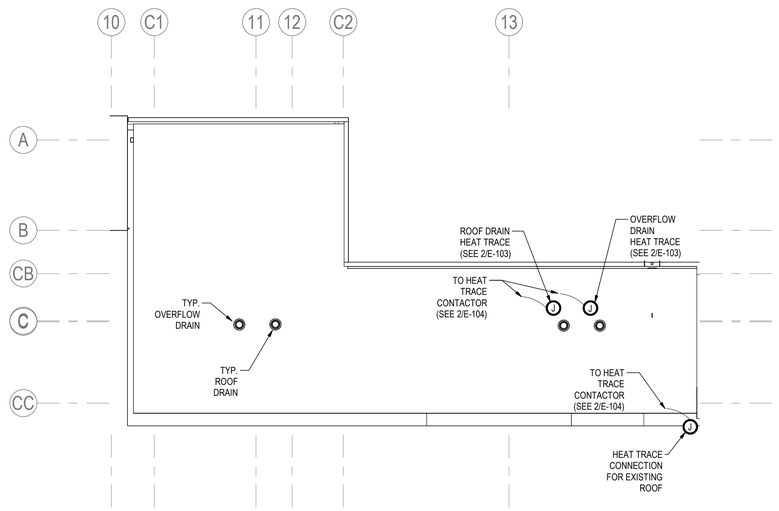
Scale: As indicated
Revision:
Drawing No. **E-103**

<Plot location in Project Information>
7/31/2025 9:46:33 AM

ORIGINAL SHEET - ANSI D



2 HEAT TRACE CONTACTOR
E-104 12" = 1'-0"



1 CANOPY ELECTRICAL ROOF - KLATT
E-104 1/8" = 1'-0"

PERMIT STAMP

Notification of Potential Hazards:

Asbestos, lead and other potentially hazardous materials are present in the building that may impact the work of all trades. Regulated air contaminants, including asbestos and lead, are also present in settled and concealed dust in and on architectural, structural, mechanical and electrical components or systems throughout the building. All trades shall coordinate with other trades and conduct their work to prevent worker exposure or site contamination. Refer to Specification Divisions 0, 1 and 2 for specific information concerning disturbing, removing and disposing of these materials and the installation of new materials or components. This notification is provided in accordance with EPA and OSHA requirements.

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By	Appd	YYYY.MM.DD	Revision

By	Appd	YYYY.MM.DD	Issued

Permit/Seal

STATE OF ALASKA
49 TH
COREY L. ROGERS
EE - 107702
07/29/2025
REGISTERED PROFESSIONAL ENGINEER

Anchorage School District

Klatt Elementary School
Loading Dock Canopy
ASD Project No. 245011
100% Construction Documents
11900 Puma Street
Anchorage, AK 99515

Project No.: 2014295940
File Name: N/A

CLR	CLR	LPS	2025.07.29
Dwn.	Dsgn.	Chkd.	YYYY.MM.DD

Title
CANOPY ROOF PLAN
ELECTRICAL - KLATT

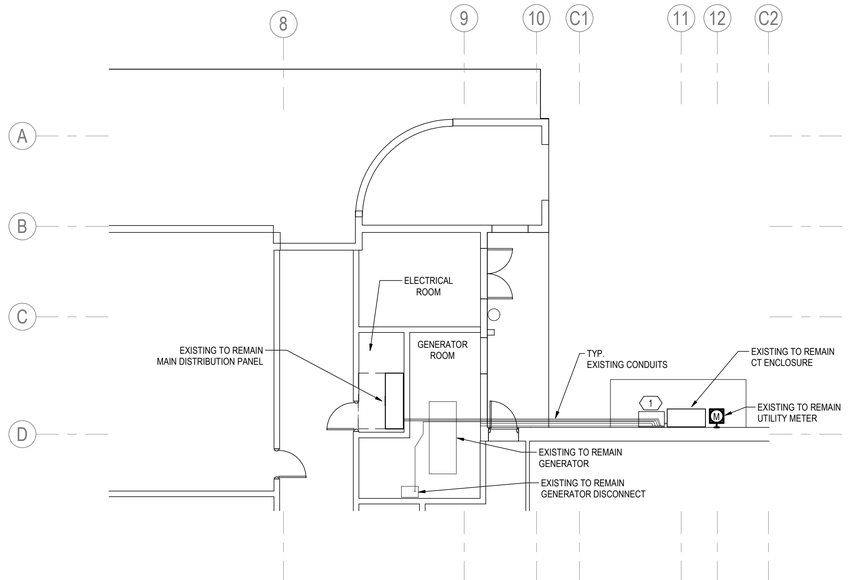
Scale: As indicated
Revision:
Drawing No. **E-104**

<Pick location in Project Information>
7/29/2025 9:46:33 AM

ORIGINAL SHEET - ANSI D



DEMO EXISTING ATS AND REPLACE WITH NEW ATS



1 FLOOR PLAN ELECTRICAL - KLATT ATS UPGRADE

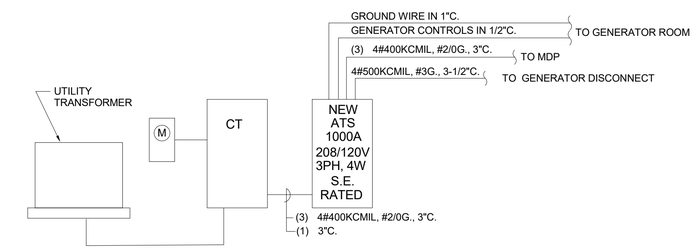
E-105 — 1/8" = 1'-0"

SHEET NOTES:

1. EXISTING TRANSFER SWITCH REPLACE WITH NEW AUTOMATIC TRANSFER SWITCH: 1000A, 208Y/120V, 3-POLE, 4-WIRE, SERVICE ENTRANCE RATED. REUSE EXISTING CONDUIT AND CONDUCTORS, EXTEND CONDUIT AND CONDUCTORS AS REQUIRED TO ACCOMMODATE NEW ATS.

GENERAL NOTES:

1. ALL CONDUITS AND CONDUCTORS SHOWN ARE EXISTING.
2. REMOVE CONDUIT SUPPORTS FROM WALL AND PROVIDE NEW CONDUIT SUPPORTS FROM NEW CANOPY .
3. SALVAGE EXISTING AUTOMATIC TRANSFER SWITCH AND TURNOVER TO OWNER.
4. DESIGN IS BASED ON CUMMINS POWERCOMMAND OTEC TRANSFER SWITCH - OPEN TRANSITION - 40A-1000A-SERVICE ENTRANCE RATED, FLOOR MOUNTED WITH A INTERNAL CONDENSATE HEATER RATED TO -40 DEGREES F - NEMA 3R - 90"H X 39"W X 26.3"D
5. FIRE ALARM AND SECURITY SYSTEMS ARE TO REMAIN OPERATIONAL FOR THE DURATION OF ATS UPGRADE.



2 ATS PARTIAL RISER DIAGRAM

E-105 — 12" = 1'-0"

PERMIT STAMP

Notification of Potential Hazards:

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By	Appd	YYYY.MM.DD	Revision

By	Appd	YYYY.MM.DD	Issued

Permit/Seal

STATE OF ALASKA · 49 TH · COREY L. ROGERS · EE - 107702 · 08/29/2025 · REGISTERED PROFESSIONAL ENGINEER

Anchorage School District

Klatt Elementary School
Loading Dock Canopy
ASD Project No. 245011
100% Construction Documents
11900 Puma Street
Anchorage, AK 99515

Project No.: 2014295940

File Name: N/A

CLR	CLR	CLR	2025.07.29
Dwn.	Dsgn.	Chkd.	YYYY.MM.DD

Title

ATS REPLACEMENT
KLATT ALTERNATE 1

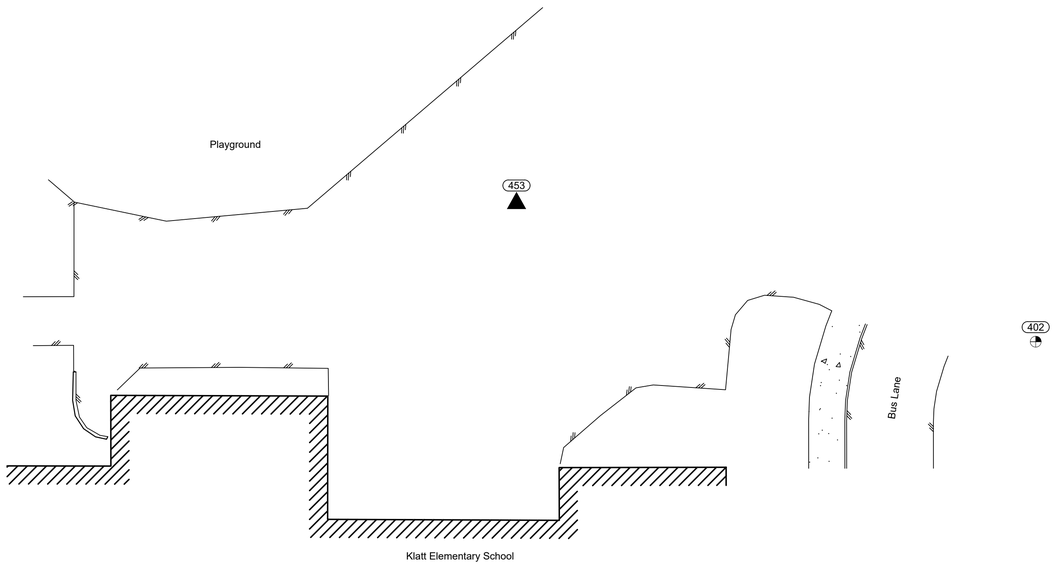
Scale: As indicated

Revision:

Drawing No. **E-105**

<Plot location in Project Information>
8/29/2025 12:58:12 PM

ORIGINAL SHEET - ANSI D



Control Points				
Point	Northing	Easting	Elevation	Description
402	408672.83	192479.00	77.78	Set " Aluminum Cap
453	408711.20	192335.43	78.62	Set Mag Nail

0 10 20 40
U.S. SURVEY FEET

N

Symbol Legend

- Set Aluminum Cap
- Mag Nail

Linetype Legend

- Building Outlines
- Concrete
- Edge of Asphalt
- Edge of Concrete
- Edge of Retaining Wall

NOTIFICATION OF POTENTIAL HAZARDS:

ASBESTOS, LEAD AND OTHER POTENTIALLY HAZARDOUS MATERIALS ARE PRESENT IN THE BUILDING THAT MAY IMPACT THE WORK OF ALL REGULATED AIR CONTAMINANTS, INCLUDING ASBESTOS AND LEAD, ARE ALSO PRESENT IN SETTLED AND CONCEALED DUST IN AND ON ARCHITECTURAL, STRUCTURAL, MECHANICAL AND ELECTRICAL COMPONENTS OR SYSTEMS THROUGHOUT THE BUILDING. ALL TRADES SHALL COORDINATE WITH OTHER TRADES AND CONDUCT THEIR WORK TO PREVENT WORKER EXPOSURE OR SITE CONTAMINATION. REFER TO SPECIFICATION DIVISIONS 0, 1 AND 2 FOR SPECIFIC INFORMATION CONCERNING DISTURBING, REMOVING AND DISPOSING OF THESE MATERIALS AND THE INSTALLATION OF NEW MATERIALS OR COMPONENTS. THIS NOTIFICATION IS PROVIDED IN ACCORDANCE WITH EPA AND OSHA REQUIREMENTS.

NOTIFICATION OF CHILD OCCUPIED FACILITY:

PORTIONS OF THIS BUILDING ARE CLASSIFIED AS A CHILD OCCUPIED FACILITY IN ACCORDANCE WITH 40 CFR 745 AND LEAD-BASED PAINTS MAY BE PRESENT ON COMPONENTS TO BE DISTURBED IN THOSE PERSONNEL PERFORMING WORK IN THESE AREAS MUST COMPLY WITH THE REQUIREMENTS OF 40 CFR 745, INCLUDING TRAINING, WORK PRACTICES AND CLEANING OF THE WORK AREA. REFER TO SPECIFICATION DIVISIONS 0, 1 AND 2 FOR SPECIFIC INFORMATION CONCERNING DISTURBING, REMOVING AND DISPOSING OF LEAD MATERIALS AND THE INSTALLATION OF NEW MATERIALS OR COMPONENTS. THIS NOTICATION IS PROVIDED IN ACCORDANCE WITH EPA AND OSHA REQUIREMENTS.

COORDINATE SYSTEM & VERTICAL DATUM

This project is located entirely within the Anchorage LDP, a U.S. Survey Foot Low Distortion Projection (LDP) coordinate system developed by the Alaska Department of Transportation. The project vertical datum is GNSS-derived NAVD88 using Geoid12B (Alaska)

COORDINATE SYSTEM PARAMETERS

Anchorage LDP is a Transverse Mercator projection with the following paramters:

Datum: NAD83(2011)
Central Latitude: 61°30'00" North
Centeral Longitude: 149°35'00" West
False Northing: 550,000.00'
False Easting: 250,000.00'
Scale Factor: 1.000013

BASIS OF GEODETIC COORDINATES AND VERTICAL CONTROL

The NAD83(2011) (Epoch 2010.00) published positions of the following National Geodetic Survey (NGS) Continuously Operating Reference Stations (CORS) were held fixed: "AB28 (PID:DM7444), "AC51" (PID: DO1814), "AC53" (PID: DP3834), and "AC75" (PID: DP3852) in establishing the coordinates and elevation of Point 402 as determined by NGS's Online Positioning User Service (OPUS).

Point 402 coordinates:

Anchorage LDP	408,672.83' N	192,479.00' E
NAVD88 Geoid12B Orthometric Height	77.78'	
NAD83(2011) Ellipsoid	61°06'46.97525" N	149°54'30.65814" W
	99.93'	

PROJECT NOTES

1. The information shown herein is based on a field survey performed by Stantec Consulting Inc. in October 2023.
2. This is not a boundary survey. Property, and monument, information shown herein is for general reference only. This drawing was prepared without the benefit of a title commitment and may not show easements or other encumbrances.
3. All dimensions, coordinates, and elevations shown are in U.S. Survey Feet, unless otherwise noted.
4. GNSS measurements were acquired using Trimble R12 receivers. Conventional measurements were acquired using a Trimble S6 instrument. The NGS OPUS program was used for CORS baseline processing.
5. Verify horizontal and vertical control prior to use.

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www.stantec.com

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No.	Revision	By	Appd	YYYY.MM.DD

No.	Issued	By	Appd	YYYY.MM.DD

Permit/Seal

STATE OF ALASKA 49 TH
Digitally signed by John Brady
Date: 2025.09.11 12:13:08 -08'00'
JOHN PATRICK BRADY
No. 10412 3S
REGISTERED PROFESSIONAL LAND SURVEYOR

Client/Project
Anchorage School District
Project No. 245011

Klatt Elementary School
Loading Dock Canopy
65% Design Development
11900 Puma St
Anchorage, AK 99515

Project No.: 2014295940
File Name: KLAT-SCS
Scale: 1" = 20'

SAP		JPB	2023.12.07
Dwn.	Dsgn.	Chkd.	YYYY.MM.DD

Title
SURVEY CONTROL

Revision:
Drawing No.
SRVY-001

C:\Users\jbrady1\Desktop\Klatt ES Loading Dock Canopy_Proposal\25-023 Klatt ES Loading Dock Canopy_Proposal_R24_2025_Mechanical_JPB.rvt 12/12/2024

ORIGINAL SHEET - ANSI D